Date Issued: August 28, 2014

Pace Analytical e-Report

Report prepared for:
BARTON AND LOGUIDICE
10 AIRLINE DRIVE
ALBANY, NY 12205
CONTACT: ANDY BARBER

Project ID: ALCO
Sampling Date(s): August 19, 2014
Lab Report ID: 14081392
Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included:
VOCs by GCMS (TCLP)
SVOCs by GCMS (TCLP)
Herbicides (TCLP)
PCB Analysis
Pesticide Analysis (TCLP)
Mercury Analysis (TCLP)
Metals by ICP (TCLP- RCRA)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfalzer
Laboratory Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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CASE NARRATIVE

August 28, 2014

CASE NARRATIVE

This data package (SDG ID: 14081392) consists of 4 soil samples received on 08/19/2014. The samples are from Project Name: ALCO.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AR27915	D-01-A	08/19/2014 09:20
AR27916	D-01-B	08/19/2014 09:25
AR27917	D-02	08/19/2014 09:30
AR27918	D-03	08/19/2014 10:05

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via DROP OFF delivery service on 08/19/2014.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) All samples were received at the laboratory properly preserved, if applicable.

Volatile Organics Analysis

Analysis for Volatile Organics was performed by method SW-846 8260C -TCLP/ZHE SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Semivolatile Organics Analysis

Analysis for Semivolatile Organics was performed by method SW-846 8270D - TCLP SW-846 1311. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Herbicide Analysis (TCLP)

Analysis for herbicides was performed by EPA 1978 pg.115. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see form for details.

Pesticide Analysis (TCLP)

Analysis for pesticides was performed by method SW-846 8081B. Samples were extracted by USEPA SW-846 Method 3535A Solid Phase Extraction. One-liter water samples were extracted by PACE SOP NE178_04. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Mercury Analysis

Analysis for mercury was performed by method SW-846 7470A - TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Metals Analysis by ICP

Analysis for metals was performed by method SW-846 6010C/TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Respectfully submitted,

Kelly A. Miller

Kelly A. Miller
Project Manager

QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate recovery not evaluated against control limits due to sample dilution.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

Inorganic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

Pace Analytical®
www.pacelabs.com

140813921

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

00014909

Page: 1 of 1

1852123

Section A Required Client Information:

- Company: Barton and Loguidice
- Address: 10 Airline Drive Suite 200
- Email To: nshaffer@bartonandloguidice.com
- Phone: 518 2181801 Fax:
- Requested Due Date/TAT: Standard TAT

Section B Required Project Information:

- Report To: Nathan Shaffer
- Copy To: Andy Barber
- Purchase Order No.:
- Project Name: AICO
- Project Number: 1368.001.001

Section C Invoice Information:

- Attention: Andy Barber
- Company Name: B&L
- Address: Syracuse
- Pace Quote Reference: ~~Batch code 3794~~
- Pace Project Manager: Kelly Miller
- Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: NY

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

Preservatives: Unpreserved, H_2SO_4, HNO_3, HCl, NaOH, $Na_2S_2O_3$, Methanol, Other

Analysis Test: Albany County Landfill + historic Landfill

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Albany County Landfill + historic Landfill	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-01-A	SL	G			8/19	9:20		2	X	X		AR27915 see attached lists
2	D-01-B	SL	G			8/19	9:25		2	X	X		AR27916 TCLP-8260-8270
3	D-02	SL	G			8/19	9:30		2	X	X		AR27917 herb, pest, metals
4	D-03	SL	G			8/19	10:05		2	X	X		AR27918 regular PCB
5													
6													
7													
8													
9													
10													
11													
12													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	8/19	12:54	[signature]	8/19/14	12:54	8.4	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nathan Shaffer

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/19/2014

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical

Sample Condition Upon Receipt

<14081392P2>

CLIENT NAME: Bar-Alb

PROJECT : ALCO

COURIER: FedEx ☐ UPS ☐ Client ☑ Pace ☐ Other ☐

TRACKING # N/A

CUSTODY SEAL PRESENT: Yes ☐ No ☒ **INTACT**: Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other ☐

ICE USED: Wet ☒ Blue ☐ None ☐

THERMOMETER USED: #164 ☑ IR Gun 03 ☐ #122087967 ☐

COOLER TEMPERATURE (6°C): 8.4

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☑

Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name / Signature on COC:	☒Yes	☐No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No		12.
- Includes date/time/ID/Analysis				
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation:	☐Yes	☐No	☑N/A	
- Exceptions that are not checked: VOA				Initial when completed: VA / Lot # of added preservative: VA
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: _____				

Line-Out (Includes Copying Shipping Documents and verifying sample pH): PAN 8/19/14

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): AJB 8/19/14

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): PAN 8/19/14

LOG SCUR_FORM_052914_Rev01_01

Cdonie

Maximum Concentration of Contaminates	
Contaminant	**Regulatory Limit (mg/L)**
Arsenic	5.00
Barium	100.00
Benzene	0.50
Cadmium	1.00
Carbon Tetrachloride	0.50
Chlordane	0.03
Chlorobenzene	100.00
Chloroform	6.00
Chromium	5.00
o-Cresol	200.00
m-Cresol	200.00
p-Cresol	200.00
Cresol	200.00
2,4 - D	10.00
1,4 - Dichlorobenzene	7.50
1,2 - Dichloroethane	0.50
1,1 - Dichloroethylene	0.70
2,4 - Dinitrotoluene	0.13
Endrin	0.02
Heptachlor	0.01
Hexachlorobenzene	0.13
Hexachloro-1, 3-butadiene	0.50
Hexachloroethane	3.00
Lead	5.00
Lindane	0.40
Mercury	0.20
Methoxychlor	10.00
Methyl Ethel Ketone	200.00
Nitorbenzene	2.00
Pentachlorophenol	100.00
Pyridine	5.00
Selenium	1.00
Silver	5.00
Tetrachloroethylene	0.70
Toxaphene	0.50
Trichloroethylene	0.50
2,4,5-Trichlorophenol	400.00
2,4,6 - Trichlorophenol	2.00
2,4,5 - TP (silvex)	1.00
Vinyl chloride	0.20

City of Albany - Solid Waste Management Facility Solid Waste Analytical Summary			
Constituent	**Testing Methodology**	**Lab Level**	**Reg. Level**
Metals			**(mg/L)**
1. Arsenic	TCLP EPA Method 6010		5.00
2. Barium	TCLP EPA Method 6010		100.00
3. Cadmium	TCLP EPA Method 6010		1.00
4. Chromium	TCLP EPA Method 6010		5.00
5. Lead	TCLP EPA Method 6010		5.00
6. Mercury	TCLP EPA Method 7470		0.20
7. Selenium	TCLP EPA Method 6010		1.00
8. Silver	TCLP EPA Method 6010		5.00
Volatiles			**(mg/L)**
1. Benzene	TCLP EPA Method 8260		0.50
2. Carbon Tetrachloride	TCLP EPA Method 8260		0.50
3. Chlorobenzene	TCLP EPA Method 8260		100.00
4. Chloroform	TCLP EPA Method 8260		6.00
5. 1,2 Dichloroethane	TCLP EPA Method 8260		0.50
6. 1,1 Dichloroethylene	TCLP EPA Method 8260		0.70
7. Methyl ethyl ketone	TCLP EPA Method 8260		200.00
8. Tetrachloroethylene	TCLP EPA Method 8260		0.70
9. Trichloroethylene	TCLP EPA Method 8260		0.50
10. Vinyl Chloride	TCLP EPA Method 8260		0.20
Semi Volatiles			**(mg/L)**
1. o-Cresol	TCLP EPA Method 8270		200.00
2. m-Cresol	TCLP EPA Method 8270		200.00
3. Cresol (Total)	TCLP EPA Method 8270		200.00
4. 1,4-Dichlorobenzene	TCLP EPA Method 8270		7.50
5. 2,4-Dinitrotoluene	TCLP EPA Method 8270		0.13
6. Hexachlorobenzene	TCLP EPA Method 8270		0.13
7. Hexachlorobutadiene	TCLP EPA Method 8270		0.50
8. Hexachloroethane	TCLP EPA Method 8270		3.00
9. Nitrobenzene	TCLP EPA Method 8270		2.00
10. Pentrachlorophenol	TCLP EPA Method 8270		100.00
11. Pyridine	TCLP EPA Method 8270		5.00
12. 2,4,5-Trichlorophenol	TCLP EPA Method 8270		400.00
13. 2,4,6-Trichlorophenol	TCLP EPA Method 8270		2.00
Pesticides & Herbicides			**(mg/L)**
1. Chlordane	TCLP EPA Method 8081		0.03
2. Endrin	TCLP EPA Method 8081		0.02
3. Heptachlor	TCLP EPA Method 8081		0.008
4. Heptachlor Epoxide	TCLP EPA Method 8081		0.008
5. Lindane (Gamma-BHC)	TCLP EPA Method 8081		0.40
6. Methoxychlor	TCLP EPA Method 8081		10.00
7. Toxaphene (Chlorocamphene)	TCLP EPA Method 8081		0.50
8. 2,4 - D	TCLP EPA Method 8151		10.00
9. 2,4,5 – TP (Silvex)	TCLP EPA Method 8151		1.0
Polychlorinated Biphenyls			**COA Limit (µg/Kg) (based on dry weight)**
1. Aroclor 1016	EPA Method 8082		<PQL
2. Aroclor 1221	EPA Method 8082		<PQL
3. Aroclor 1232	EPA Method 8082		<PQL
4. Aroclor 1242	EPA Method 8082		<PQL
5. Aroclor 1248	EPA Method 8082		<PQL
6. Aroclor 1254	EPA Method 8082		<PQL
7. Aroclor 1260	EPA Method 8082		<PQL

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
14081392

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE
PROJECT: ALCO
LRF: 14081392
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: 7 DAYS

RECEIVED DATE: 08/19/2014 12:54
SHIPPED VIA: DROP OFF [1,2]
SHIPPING ID: N. SHAFFER/ BAR-ALB
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: CHILLED
TEMPERATURE(S): [5] 8.4 °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
[3] **SAMPLES REC'D IN HOLDTIME:** YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date[4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-01-A (AR27915)	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:20	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
D-01-B (AR27916)	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:25	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
D-02 (AR27917)	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 08-28-14	08/19/2014 09:30	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
D-03 (AR27918)	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 08-28-14	08/19/2014 10:05	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	

[1]The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.
[2]The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3]Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4]Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.
The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5]All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

Reporting Parameters and Lists

EPA 1978 p.115 - Herbicides (TCLP) - (ug/L)
2,4,5-TP,SILVEX
2,4-D

EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)
Arsenic
Barium
Cadmium
Chromium
Lead
Selenium

EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)
Silver

EPA 7470A - Mercury Analysis (TCLP) - (mg/L)
Mercury

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Continued...

EPA 8081B - Pesticide Analysis (TCLP) - (ug/L)

- Chlordane
- Endrin
- gamma-BHC
- Heptachlor
- Heptachlor Epoxide
- Methoxychlor
- Toxaphene

EPA 8082A - PCB Analysis - (ug/g)

- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)

- 1,1-Dichloroethene
- 1,2-Dichloroethane
- 2-Butanone
- Benzene
- Carbon Tetrachloride
- Chlorobenzene
- Chloroform
- Tetrachloroethene
- Trichloroethene
- Vinyl Chloride

EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)

- 1,4-Dichlorobenzene
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol
- 2,4-Dinitrotoluene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachloroethane
- m&p-Methylphenol
- Nitrobenzene
- o-Methylphenol
- Pentachlorophenol
- Pyridine

GC/MS Volatiles

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-A
Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-216-28	EPA 8260C - TCLP-ZHE SW-846 1311	08/26/2014 21:42	RMS	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-216-28
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-216-28
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-216-28
Benzene	71-43-2	ND	10.0	10.0	U	MS10-216-28
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-216-28
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-216-28
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-216-28
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-216-28
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-216-28
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-216-28

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	93.7	76.0-128		MS10-216-28
Dibromofluoromethane	1868-53-7	105	73.6-132		MS10-216-28
Toluene-d8	2037-26-5	99.1	84.4-115		MS10-216-28
1,2-Dichloroethane	17060-07-0	106	79.9-120		MS10-216-28

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical Services, Inc.
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-B
Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-216-29	EPA 8260C - TCLP-ZHE SW-846 1311	08/26/2014 22:08	RMS	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-216-29
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-216-29
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-216-29
Benzene	71-43-2	ND	10.0	10.0	U	MS10-216-29
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-216-29
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-216-29
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-216-29
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-216-29
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-216-29
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-216-29

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	93.3	76.0-128		MS10-216-29
Dibromofluoromethane	1868-53-7	103	73.6-132		MS10-216-29
Toluene-d8	2037-26-5	102	84.4-115		MS10-216-29
1,2-Dichloroethane	17060-07-0	107	79.9-120		MS10-216-29

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-02
Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-216-30	EPA 8260C - TCLP-ZHE SW-846 1311	08/26/2014 22:35	RMS	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-216-30
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-216-30
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-216-30
Benzene	71-43-2	ND	10.0	10.0	U	MS10-216-30
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-216-30
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-216-30
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-216-30
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-216-30
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-216-30
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-216-30

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	98.5	76.0-128		MS10-216-30
Dibromofluoromethane	1868-53-7	102	73.6-132		MS10-216-30
Toluene-d8	2037-26-5	99.3	84.4-115		MS10-216-30
1,2-Dichloroethane	17060-07-0	107	79.9-120		MS10-216-30

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-03
Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-216-31	EPA 8260C - TCLP-ZHE SW-846 1311	08/26/2014 23:02	RMS	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-216-31
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-216-31
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-216-31
Benzene	71-43-2	ND	10.0	10.0	U	MS10-216-31
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-216-31
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-216-31
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-216-31
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-216-31
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-216-31
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-216-31

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	96.6	76.0-128		MS10-216-31
Dibromofluoromethane	1868-53-7	102	73.6-132		MS10-216-31
Toluene-d8	2037-26-5	101	84.4-115		MS10-216-31
1,2-Dichloroethane	17060-07-0	104	79.9-120		MS10-216-31

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC/MS Semivolatiles

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-A
Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-377-45	SW-846 8270D/TCLP Extraction Method 1311	08/26/2014 22:18	RMS	NA	NA	N/A
Prep 1:	28059	EPA 3510C	08/21/2014 15:20	KEN	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-377-45
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-377-45
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-377-45
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-377-45
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-377-45
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-377-45
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-377-45
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-45
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-377-45
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-377-45
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-377-45
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-377-45

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	112	22.8-161		MS09-377-45
2-Fluorobiphenyl	321-60-8	81.3	26.3-121		MS09-377-45
2-Fluorophenol	367-12-4	46.1	10.0-86.4		MS09-377-45
Terphenyl-d14	1718-51-0	105	33.7-154		MS09-377-45
Nitrobenzene-d5	4165-60-0	73.0	12.7-139		MS09-377-45
Phenol-d6	13127-88-3	32.0	10.0-87.4		MS09-377-45

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-B
Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-377-46	SW-846 8270D/TCLP Extraction Method 1311	08/26/2014 22:35	RMS	NA	NA	N/A
Prep 1:	28059	EPA 3510C	08/21/2014 15:20	KEN	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-377-46
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-377-46
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-377-46
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-377-46
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-377-46
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-377-46
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-377-46
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-46
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-377-46
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-377-46
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-377-46
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-377-46

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	108	22.8-161		MS09-377-46
2-Fluorobiphenyl	321-60-8	75.6	26.3-121		MS09-377-46
2-Fluorophenol	367-12-4	41.1	10.0-86.4		MS09-377-46
Terphenyl-d14	1718-51-0	109	33.7-154		MS09-377-46
Nitrobenzene-d5	4165-60-0	65.5	12.7-139		MS09-377-46
Phenol-d6	13127-88-3	30.0	10.0-87.4		MS09-377-46

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-02
Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-377-47	SW-846 8270D/TCLP Extraction Method 1311	08/26/2014 22:51	RMS	NA	NA	N/A
Prep 1:	28059	EPA 3510C	08/21/2014 15:20	KEN	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-377-47
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-377-47
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-377-47
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-377-47
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-377-47
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-377-47
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-377-47
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-47
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-377-47
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-377-47
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-377-47
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-377-47

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	108	22.8-161		MS09-377-47
2-Fluorobiphenyl	321-60-8	77.2	26.3-121		MS09-377-47
2-Fluorophenol	367-12-4	43.2	10.0-86.4		MS09-377-47
Terphenyl-d14	1718-51-0	104	33.7-154		MS09-377-47
Nitrobenzene-d5	4165-60-0	68.8	12.7-139		MS09-377-47
Phenol-d6	13127-88-3	31.1	10.0-87.4		MS09-377-47

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-03
Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-377-48	SW-846 8270D/TCLP Extraction Method 1311	08/26/2014 23:08	RMS	NA	NA	N/A
Prep 1:	28059	EPA 3510C	08/21/2014 15:20	KEN	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-377-48
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-377-48
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-377-48
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-377-48
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-377-48
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-377-48
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-377-48
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-48
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-377-48
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-377-48
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-377-48
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-377-48

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	87.0	22.8-161		MS09-377-48
2-Fluorobiphenyl	321-60-8	52.5	26.3-121		MS09-377-48
2-Fluorophenol	367-12-4	28.5	10.0-86.4		MS09-377-48
Terphenyl-d14	1718-51-0	101	33.7-154		MS09-377-48
Nitrobenzene-d5	4165-60-0	46.0	12.7-139		MS09-377-48
Phenol-d6	13127-88-3	20.1	10.0-87.4		MS09-377-48

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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GC - PCB

Pace Analytical®

Analytical Sample Results

Job Number: 14081392

Pace Analytical Services, Inc.
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Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-A
Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20
Sample Matrix: SOIL
Received Date: 08/19/2014 12:54
Percent Solid: 83.8 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1174-48	SW-846 8082A (PCB)	08/21/2014 23:07	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28032	EPA 3545A	08/20/2014 08:41	MBG	10.3 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0577	1.00	U	GC10F-1174-48
Aroclor 1221	11104-28-2	ND	0.0577	1.00	U	GC10F-1174-48
Aroclor 1232	11141-16-5	ND	0.0577	1.00	U	GC10F-1174-48
Aroclor 1242	53469-21-9	ND	0.0577	1.00	U	GC10F-1174-48
Aroclor 1248	12672-29-6	ND	0.0577	1.00	U	GC10F-1174-48
Aroclor 1254	11097-69-1	**0.223**	0.0577	1.00	AF	GC10F-1174-48
Aroclor 1260	11096-82-5	ND	0.0577	1.00	U	GC10F-1174-48
Total PCB Amount > RL	1336-36-3	**0.223**		1.00		GC10F-1174-48

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	90.5	60.0-140		GC10F-1174-48
Decachlorobiphenyl	2051-24-3	107	60.0-140		GC10F-1174-48

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-B
Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25
Sample Matrix: SOIL
Received Date: 08/19/2014 12:54
Percent Solid: 78.1 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1174-49	SW-846 8082A (PCB)	08/21/2014 23:19	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28032	EPA 3545A	08/20/2014 08:42	MBG	10.5 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0611	1.00	U	GC10F-1174-49
Aroclor 1221	11104-28-2	ND	0.0611	1.00	U	GC10F-1174-49
Aroclor 1232	11141-16-5	ND	0.0611	1.00	U	GC10F-1174-49
Aroclor 1242	53469-21-9	ND	0.0611	1.00	U	GC10F-1174-49
Aroclor 1248	12672-29-6	ND	0.0611	1.00	U	GC10F-1174-49
Aroclor 1254	11097-69-1	ND	0.0611	1.00	U	GC10F-1174-49
Aroclor 1260	11096-82-5	ND	0.0611	1.00	U	GC10F-1174-49
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1174-49

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	95.9	60.0-140		GC10F-1174-49
Decachlorobiphenyl	2051-24-3	109	60.0-140		GC10F-1174-49

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-02
Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30
Sample Matrix: SOIL
Received Date: 08/19/2014 12:54
Percent Solid: 90.0 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1174-50	SW-846 8082A (PCB)	08/21/2014 23:32	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28032	EPA 3545A	08/20/2014 08:44	MBG	10.1 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0550	1.00	U	GC10F-1174-50
Aroclor 1221	11104-28-2	ND	0.0550	1.00	U	GC10F-1174-50
Aroclor 1232	11141-16-5	ND	0.0550	1.00	U	GC10F-1174-50
Aroclor 1242	53469-21-9	ND	0.0550	1.00	U	GC10F-1174-50
Aroclor 1248	12672-29-6	ND	0.0550	1.00	U	GC10F-1174-50
Aroclor 1254	11097-69-1	ND	0.0550	1.00	U	GC10F-1174-50
Aroclor 1260	11096-82-5	ND	0.0550	1.00	U	GC10F-1174-50
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1174-50

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	97.1	60.0-140		GC10F-1174-50
Decachlorobiphenyl	2051-24-3	110	60.0-140		GC10F-1174-50

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-03
Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05
Sample Matrix: SOIL
Received Date: 08/19/2014 12:54
Percent Solid: 82.0 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1174-51	SW-846 8082A (PCB)	08/21/2014 23:44	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28032	EPA 3545A	08/20/2014 08:45	MBG	10.2 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0596	1.00	U	GC10F-1174-51
Aroclor 1221	11104-28-2	ND	0.0596	1.00	U	GC10F-1174-51
Aroclor 1232	11141-16-5	ND	0.0596	1.00	U	GC10F-1174-51
Aroclor 1242	53469-21-9	ND	0.0596	1.00	U	GC10F-1174-51
Aroclor 1248	12672-29-6	ND	0.0596	1.00	U	GC10F-1174-51
Aroclor 1254	11097-69-1	ND	0.0596	1.00	U	GC10F-1174-51
Aroclor 1260	11096-82-5	ND	0.0596	1.00	U	GC10F-1174-51
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1174-51

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	100	60.0-140		GC10F-1174-51
Decachlorobiphenyl	2051-24-3	111	60.0-140		GC10F-1174-51

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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GC - Pesticides

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-A
Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19F-2047-27	SW-846 8081B, Pesticides/TCLP Extraction M	08/25/2014 20:36	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2047-27
Endrin	72-20-8	ND	0.0500	1.00	U	GC19F-2047-27
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19F-2047-27
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19F-2047-27
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19F-2047-27
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19F-2047-27
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2047-27

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	112	60.0-140		GC19F-2047-27
Decachlorobiphenyl	2051-24-3	88.5	60.0-140		GC19F-2047-27

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-B
Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19F-2047-28	SW-846 8081B, Pesticides/TCLP Extraction M	08/25/2014 21:09	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2047-28
Endrin	72-20-8	ND	0.0500	1.00	U	GC19F-2047-28
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19F-2047-28
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19F-2047-28
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19F-2047-28
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19F-2047-28
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2047-28

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	126	60.0-140		GC19F-2047-28
Decachlorobiphenyl	2051-24-3	81.1	60.0-140		GC19F-2047-28

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-02
Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19F-2047-29	SW-846 8081B, Pesticides/TCLP Extraction M	08/25/2014 21:41	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2047-29
Endrin	72-20-8	ND	0.0500	1.00	U	GC19F-2047-29
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19F-2047-29
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19F-2047-29
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19F-2047-29
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19F-2047-29
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2047-29

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	111	60.0-140		GC19F-2047-29
Decachlorobiphenyl	2051-24-3	89.6	60.0-140		GC19F-2047-29

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-03
Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19F-2047-30	SW-846 8081B, Pesticides/TCLP Extraction M	08/25/2014 22:13	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2047-30
Endrin	72-20-8	ND	0.0500	1.00	U	GC19F-2047-30
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19F-2047-30
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19F-2047-30
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19F-2047-30
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19F-2047-30
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2047-30

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	130	60.0-140		GC19F-2047-30
Decachlorobiphenyl	2051-24-3	88.9	60.0-140		GC19F-2047-30

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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GC - Herbicides

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-A
Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-237-8	EPA 1978 pg.115 Herbicides/TCLP Method 1	08/25/2014 01:44	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28055	EPA 3510C	08/21/2014 17:00	MXR	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-237-8
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-237-8

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	99.9	60.0-140		GC16-237-8

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: Lab modified method.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-B
Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-237-9	EPA 1978 pg.115 Herbicides/TCLP Method 1	08/25/2014 02:02	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28055	EPA 3510C	08/21/2014 17:00	MXR	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-237-9
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-237-9

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	101	60.0-140		GC16-237-9

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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Note: Lab modified method.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-02
Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-237-10	EPA 1978 pg.115 Herbicides/TCLP Method 1	08/25/2014 02:21	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28055	EPA 3510C	08/21/2014 17:00	MXR	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-237-10
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-237-10

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	96.6	60.0-140		GC16-237-10

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: Lab modified method.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-03
Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-237-11	EPA 1978 pg.115 Herbicides/TCLP Method 1	08/25/2014 02:39	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28055	EPA 3510C	08/21/2014 17:00	MXR	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-237-11
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-237-11

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	94.5	60.0-140		GC16-237-11

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: Lab modified method.

9

Mercury

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-A
Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1660-23	SW-846 7470/TCLP 1311	08/26/2014 14:36	CYC	NA	NA	NA
Prep 1:	4903	EPA 7470A	08/25/2014 09:16	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1660-23

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-B
Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1660-24	SW-846 7470/TCLP 1311	08/26/2014 14:38	CYC	NA	NA	NA
Prep 1:	4903	EPA 7470A	08/25/2014 09:16	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1660-24

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

10

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-02
Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1660-25	SW-846 7470/TCLP 1311	08/26/2014 14:40	CYC	NA	NA	NA
Prep 1:	4903	EPA 7470A	08/25/2014 09:16	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1660-25

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-03
Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1660-26	SW-846 7470/TCLP 1311	08/26/2014 14:42	CYC	NA	NA	NA
Prep 1:	4903	EPA 7470A	08/25/2014 09:16	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1660-26

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

10

Metals - ICP

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-A
Lab Sample ID: 14081392-01 (AR27915)

Collection Date: 08/19/2014 09:20
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1258-66	EPA 6010C/TCLP 1311	08/26/2014 15:11	LMS	NA	NA	NA
Prep 1:	4902	EPA 3005A	08/25/2014 09:08	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1258-66
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1258-66
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1258-66
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1258-66
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1258-66
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1258-66
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1258-66

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-B
Lab Sample ID: 14081392-02 (AR27916)

Collection Date: 08/19/2014 09:25
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1258-67	EPA 6010C/TCLP 1311	08/26/2014 15:13	LMS	NA	NA	NA
Prep 1:	4902	EPA 3005A	08/25/2014 09:08	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1258-67
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1258-67
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1258-67
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1258-67
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1258-67
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1258-67
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1258-67

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-02
Lab Sample ID: 14081392-03 (AR27917)

Collection Date: 08/19/2014 09:30
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1258-68	EPA 6010C/TCLP 1311	08/26/2014 15:15	LMS	NA	NA	NA
Prep 1:	4902	EPA 3005A	08/25/2014 09:08	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1258-68
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1258-68
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1258-68
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1258-68
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1258-68
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1258-68
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1258-68

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-03
Lab Sample ID: 14081392-04 (AR27918)

Collection Date: 08/19/2014 10:05
Sample Matrix: SOIL(TCLP)
Received Date: 08/19/2014 12:54
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1258-69	EPA 6010C/TCLP 1311	08/26/2014 15:18	LMS	NA	NA	NA
Prep 1:	4902	EPA 3005A	08/25/2014 09:08	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1258-69
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1258-69
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1258-69
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1258-69
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1258-69
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1258-69
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1258-69

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Field)

Pace Analytical®

Quality Control Results
Matrix Spike Sample (MS)
Job Number: 14081392

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-A MS
Lab Sample ID: 14081392-01M (AR27915M)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19F-2047-26	SW-846 8081B, Pesticides/TCLP Extraction M	08/25/2014 20:04	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2047-26
Endrin	72-20-8	**0.834**	0.0500	1.00		GC19F-2047-26
gamma-BHC	58-89-9	**0.932**	0.0500	1.00		GC19F-2047-26
Heptachlor	76-44-8	**0.893**	0.0500	1.00		GC19F-2047-26
Heptachlor Epoxide	1024-57-3	**0.942**	0.0500	1.00		GC19F-2047-26
Methoxychlor	72-43-5	**0.925**	0.0500	1.00		GC19F-2047-26
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2047-26

Analyte Spiked	CAS No.	Sample (ug/L)	Added (ug/L)	MS (ug/L)	MS % Rec.	Q[1]	Limits (%)
Endrin	72-20-8		1.00	0.834	83.4		70.0-130
gamma-BHC	58-89-9		1.00	0.932	93.2		70.0-130
Heptachlor	76-44-8		1.00	0.893	89.3		70.0-130
Heptachlor Epoxide	1024-57-3		1.00	0.942	94.2		70.0-130
Methoxychlor	72-43-5		1.00	0.925	92.5		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	86.2	60.0-140		GC19F-2047-26
Decachlorobiphenyl	2051-24-3	91.0	60.0-140		GC19F-2047-26

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

12

Quality Control Samples (Lab)

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14081392

Pace Analytical Services, Inc.
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Schenectady, NY 12308
Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR27121B)
Lab Sample ID: VBLK-09

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-216-22	EPA 8260C - TCLP-ZHE SW-846 1311	08/26/2014 19:01	RMS	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-216-22
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-216-22
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-216-22
Benzene	71-43-2	ND	10.0	10.0	U	MS10-216-22
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-216-22
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-216-22
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-216-22
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-216-22
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-216-22
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-216-22

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	93.9	76.0-128		MS10-216-22
Dibromofluoromethane	1868-53-7	98.7	73.6-132		MS10-216-22
Toluene-d8	2037-26-5	101	84.4-115		MS10-216-22
1,2-Dichloroethane	17060-07-0	102	79.9-120		MS10-216-22

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14081392

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR28101L)
Lab Sample ID: LCS-08

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-216-20	EPA 8260C - TCLP-ZHE SW-846 1311	08/26/2014 18:02	RMS	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
1,1-Dichloroethene	75-35-4	40.0	41.1	103		70.0-130
1,2-Dichloroethane	107-06-2	40.0	40.1	100		70.0-130
2-Butanone	78-93-3	40.0	38.4	96.1		70.0-130
Benzene	71-43-2	40.0	41.0	102		70.0-130
Carbon Tetrachloride	56-23-5	40.0	41.2	103		70.0-130
Chlorobenzene	108-90-7	40.0	40.5	101		70.0-130
Chloroform	67-66-3	40.0	39.9	99.7		70.0-130
Tetrachloroethene	127-18-4	40.0	38.9	97.1		70.0-130
Trichloroethene	79-01-6	40.0	41.2	103		70.0-130
Vinyl Chloride	75-01-4	40.0	37.3	93.3		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	103	76.0-128		MS10-216-20
Dibromofluoromethane	1868-53-7	99.3	73.6-132		MS10-216-20
Toluene-d8	2037-26-5	103	84.4-115		MS10-216-20
1,2-Dichloroethane	17060-07-0	99.5	79.9-120		MS10-216-20

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR27121B)
Lab Sample ID: SBLK-05

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-377-38	SW-846 8270D/TCLP Extraction Method 1311	08/26/2014 20:21	RMS	NA	NA	N/A
Prep 1:	28059	EPA 3510C	08/21/2014 15:20	KEN	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-377-38
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-377-38
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-377-38
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-377-38
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-377-38
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-377-38
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-377-38
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-38
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-377-38
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-377-38
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-377-38
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-377-38

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	88.4	22.8-161		MS09-377-38
2-Fluorobiphenyl	321-60-8	77.6	26.3-121		MS09-377-38
2-Fluorophenol	367-12-4	45.9	10.0-86.4		MS09-377-38
Terphenyl-d14	1718-51-0	98.6	33.7-154		MS09-377-38
Nitrobenzene-d5	4165-60-0	72.2	12.7-139		MS09-377-38
Phenol-d6	13127-88-3	31.6	10.0-87.4		MS09-377-38

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Results
Lab Control Sample (LCS)
Job Number: 14081392

Pace Analytical Services, Inc.
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Schenectady, NY 12308
Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR27121L)
Lab Sample ID: LCS-05

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-377-39	SW-846 8270D/TCLP Extraction Method 1311	08/26/2014 20:37	RMS	NA	NA	N/A
Prep 1:	28059	EPA 3510C	08/21/2014 15:20	KEN	200 mL	1.00 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
1,4-Dichlorobenzene	106-46-7	500	296	59.2		27.0-123
2,4,5-Trichlorophenol	95-95-4	500	390	78.0		30.0-128
2,4,6-Trichlorophenol	88-06-2	500	377	75.3		37.0-144
2,4-Dinitrotoluene	121-14-2	500	402	80.3		37.0-121
Hexachlorobenzene	118-74-1	500	404	80.8		42.0-117
Hexachlorobutadiene	87-68-3	500	274	54.8		31.0-110
Hexachloroethane	67-72-1	500	277	55.4		24.0-124
m&p-Methylphenol	108-39-4/106-44-5	1000	552	55.2		22.0-139
Nitrobenzene	98-95-3	500	308	61.6		34.0-119
o-Methylphenol	95-48-7	500	294	58.9		26.0-128
Pentachlorophenol	87-86-5	500	428	85.7		4.00-113
Pyridine	110-86-1	500	198	39.5		1.00-105

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	100	22.8-161		MS09-377-39
2-Fluorobiphenyl	321-60-8	75.1	26.3-121		MS09-377-39
2-Fluorophenol	367-12-4	42.9	10.0-86.4		MS09-377-39
Terphenyl-d14	1718-51-0	97.0	33.7-154		MS09-377-39
Nitrobenzene-d5	4165-60-0	70.1	12.7-139		MS09-377-39
Phenol-d6	13127-88-3	30.4	10.0-87.4		MS09-377-39

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14081392

Pace Analytical Services, Inc.
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Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR27915B)
Lab Sample ID: PBLK-68

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1174-46	SW-846 8082A (PCB)	08/21/2014 22:41	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28032	EPA 3545A	08/20/2014 08:39	MBG	10.7 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC10F-1174-46
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC10F-1174-46
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC10F-1174-46
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC10F-1174-46
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC10F-1174-46
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC10F-1174-46
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC10F-1174-46
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1174-46

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	88.5	60.0-140		GC10F-1174-46
Decachlorobiphenyl	2051-24-3	101	60.0-140		GC10F-1174-46

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Results
Lab Control Sample (LCS)
Job Number: 14081392

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR27915L)
Lab Sample ID: LCS-68

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1174-47	SW-846 8082A (PCB)	08/21/2014 22:54	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28032	EPA 3545A	08/20/2014 08:40	MBG	10.3 g	25.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/g)	LCS (ug/g)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	1.21	1.08	89.3		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	87.7	60.0-140		GC10F-1174-47
Decachlorobiphenyl	2051-24-3	103	60.0-140		GC10F-1174-47

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14081392

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR27915B)
Lab Sample ID: TBLK-81

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19F-2047-24	SW-846 8081B, Pesticides/TCLP Extraction M	08/25/2014 18:59	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2047-24
Endrin	72-20-8	ND	0.0500	1.00	U	GC19F-2047-24
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19F-2047-24
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19F-2047-24
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19F-2047-24
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19F-2047-24
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2047-24

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	97.3	60.0-140		GC19F-2047-24
Decachlorobiphenyl	2051-24-3	79.5	60.0-140		GC19F-2047-24

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14081392

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR27915L)
Lab Sample ID: LCS-81

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19F-2047-25	SW-846 8081B, Pesticides/TCLP Extraction M	08/25/2014 19:31	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
Endrin	72-20-8	1.00	0.748	74.8		70.0-130
gamma-BHC	58-89-9	1.00	0.888	88.8		70.0-130
Heptachlor	76-44-8	1.00	0.861	86.1		70.0-130
Heptachlor Epoxide	1024-57-3	1.00	0.893	89.3		70.0-130
Methoxychlor	72-43-5	1.00	0.865	86.5		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	100	60.0-140		GC19F-2047-25
Decachlorobiphenyl	2051-24-3	82.8	60.0-140		GC19F-2047-25

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Method Blank
Job Number: 14081392

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR27915B)
Lab Sample ID: HBLK-72

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-237-6	EPA 1978 pg.115 Herbicides/TCLP Method 1	08/25/2014 01:08	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28055	EPA 3510C	08/21/2014 17:00	MXR	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-237-6
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-237-6

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	91.8	60.0-140		GC16-237-6

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: Lab modified method.

13

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14081392

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR27915L)
Lab Sample ID: LCS-72

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-237-7	EPA 1978 pg.115 Herbicides/TCLP Method 13	08/25/2014 01:26	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28055	EPA 3510C	08/21/2014 17:00	MXR	200 mL	5.00 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
2,4,5-TP,SILVEX	93-72-1	12.5	11.5	92.3		70.0-130
2,4-D	94-75-7	12.5	11.3	90.1		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	93.8	60.0-140		GC16-237-7

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: Lab modified method.

13

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR27121B)
Lab Sample ID: PBW-12

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1660-16	SW-846 7470/TCLP 1311	08/26/2014 14:22	CYC	NA	NA	NA
Prep 1:	4903	EPA 7470A	08/25/2014 09:16	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1660-16

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14081392

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR27121L)
Lab Sample ID: LCS-12

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1660-17	SW-846 7470/TCLP 1311	08/26/2014 14:23	CYC	NA	NA	NA
Prep 1:	4903	EPA 7470A	08/25/2014 09:16	CYC	4.00 mL	40.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q[1]	Limits (%)
Mercury	7439-97-6	0.0300	0.0319	106		80.0-120

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14081392

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR27121B)
Lab Sample ID: PBW-10

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1258-64	EPA 6010C/TCLP 1311	08/26/2014 15:06	LMS	NA	NA	NA
Prep 1:	4902	EPA 3005A	08/25/2014 09:08	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1258-64
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1258-64
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1258-64
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1258-64
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1258-64
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1258-64
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1258-64

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14081392

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR27121L)
Lab Sample ID: LCS-10

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1258-65	EPA 6010C/TCLP 1311	08/26/2014 15:08	LMS	NA	NA	NA
Prep 1:	4902	EPA 3005A	08/25/2014 09:08	CYC	10.0 mL	50.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q[1]	Limits (%)
Arsenic	7440-38-2	12.5	14.4	115		85.0-115
Barium	7440-39-3	25.0	26.6	106		85.0-115
Cadmium	7440-43-9	5.00	5.48	110		85.0-115
Chromium	7440-47-3	12.5	13.1	105		85.0-115
Lead	7439-92-1	12.5	13.3	106		85.0-115
Selenium	7782-49-2	5.00	5.71	114		85.0-115
Silver	7440-22-4	12.5	13.8	110		85.0-115

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Date Issued: September 02, 2014

Pace Analytical e-Report

Report prepared for:
BARTON AND LOGUIDICE
10 AIRLINE DRIVE
ALBANY, NY 12205
CONTACT: ANDY BARBER

Project ID: ALCO
Sampling Date(s): August 19, 2014
Lab Report ID: 14081747
Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included:
PCB Analysis

Dan Pfalzer
Laboratory Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

CASE NARRATIVE

September 02, 2014

CASE NARRATIVE

This data package (SDG ID: 14081747) consists of 1 soil sample received on 8/19/2014. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AR30038	D-01-A	8/19/2014 09:20

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via DROP OFF delivery service on 8/19/2014.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) The concentration results for Aroclor 1254 were flagged (AF) to denote that an altered Aroclor pattern was observed. Please see form for details.

Respectfully submitted,

Kelly A. Miller

Kelly A. Miller
Project Manager

QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate recovery not evaluated against control limits due to sample dilution.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

Inorganic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

Pace Analytical®
www.pacelabs.com

[redacted]
140813921

<14081747P1>
140817471

…AIN-OF-CUSTODY / Analytical Request Document

…ain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

00014909

Page: 1 of 1

1852123

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Barton and Loguidice	Report To:	Nathan Shaffer	Attention:	Andy Barber
Address:	10 Airline Drive Suite 200	Copy To:	Andy Barber	Company Name:	B+L
				Address:	Syracuse
Email To:	nshaffer@bartonandloguidice.com	Purchase Order No.:		Pace Quote Reference:	~~[illegible]~~ 3784
Phone: 518 2181801	Fax:	Project Name:	AICO	Pace Project Manager:	Kelly Miller
Requested Due Date/TAT:	Standard TAT	Project Number:	1368.001.001	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ________

Site Location STATE: NY

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Albany County Landfill + Colonie Landfill	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-01-A	SL	G	|	|	8/19	9:20		2	X									X AR30038		AR27915 See attached lists
2	D-01-B	SL	G	|	|	8/19	9:25		2	X									X		AR27916 TCLP-8260-8270
3	D-02	SL	G	|	|	8/19	9:30		2	X									X		AR27917 herb, pest, metals
4	D-03	SL	G	|	|	8/19	10:05		2	X									X		AR27918 regular PCB
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	8/19	12:54	[signature]	8/19/14	12:54	8.4	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nathan Shaffer

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/19/2014

*Impor… …te: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month … any invoices not paid within 30 days.

F-ALL-Q-020rev… …5-May-2007

3

<14081747P2>

Pace Anal

140817472

Sample Condition Upon Receipt

<14081392P2>

[redacted]

140913922

CLIENT NAME: Bar-Alb

PROJECT : ALCO

COURIER: FedEx ☐ UPS ☐ Client ☑ Pace ☐ Other ☐

TRACKING # N/A

CUSTODY SEAL PRESENT: Yes ☐ No ☑ INTACT: Yes ☐ No ☐ N/A ☑

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other ☐

ICE USED: Wet ☑ Blue ☐ None ☐

THERMOMETER USED: #164 ☑ IR Gun 03 ☐ #122087967 ☐

COOLER TEMPERATURE (6°C): 8.4

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☑

Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	☑ Yes	☐ No		1.
Chain of Custody Filled Out:	☑ Yes	☐ No		2.
Chain of Custody Relinquished:	☑ Yes	☐ No		3.
Sampler Name / Signature on COC:	☑ Yes	☐ No		4.
Samples Arrived within Hold Time:	☑ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No		6.
Rush Turn Around Time Requested:	☐ Yes	☒ No		7.
Sufficient Volume:	☑ Yes	☐ No		8.
Correct Containers Used:	☑ Yes	☐ No		9.
- Pace Containers Used:	☑ Yes	☐ No		
Containers Intact:	☑ Yes	☐ No		10.
Filtered volume received for Dissolved tests:	☐ Yes	☐ No	☑ N/A	11.
Sample Labels match COC:	☑ Yes	☐ No		12.
- Includes date/time/ID/Analysis				
All containers needing preservation have been checked:	☐ Yes	☐ No	☒ N/A	13.
All containers needing preservation are in compliance with EPA recommendation:	☐ Yes	☐ No	☒ N/A	Initial when completed: VA / Lot # of added preservative: N A
- Exceptions that are not checked: VOA				
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present:	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present:	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot #: _____				

Line-Out (Includes Copying Shipping Documents and verifying sample pH): PAN 8/19/14

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): AJB 8/19/14

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): PAN 8/19/14

LOG SCUR_FORM_052914_Rev01_01

Edonie

Maximum Concentration of Contaminates	
Contaminant	**Regulatory Limit (mg/L)**
Arsenic	5.00
Barium	100.00
Benzene	0.50
Cadmium	1.00
Carbon Tetrachloride	0.50
Chlordane	0.03
Chlorobenzene	100.00
Chloroform	6.00
Chromium	5.00
o-Cresol	200.00
m-Cresol	200.00
p-Cresol	200.00
Cresol	200.00
2,4 - D	10.00
1,4 - Dichlorobenzene	7.50
1,2 - Dichloroethane	0.50
1,1 - Dichloroethylene	0.70
2,4 - Dinitrotoluene	0.13
Endrin	0.02
Heptachlor	0.01
Hexachlorobenzene	0.13
Hexachloro-1, 3-butadiene	0.50
Hexachloroethane	3.00
Lead	5.00
Lindane	0.40
Mercury	0.20
Methoxychlor	10.00
Methyl Ethel Ketone	200.00
Nitorbenzene	2.00
Pentachlorophenol	100.00
Pyridine	5.00
Selenium	1.00
Silver	5.00
Tetrachloroethylene	0.70
Toxaphene	0.50
Trichloroethylene	0.50
2,4,5-Trichlorophenol	400.00
2,4,6 - Trichlorophenol	2.00
2,4,5 - TP (silvex)	1.00
Vinyl chloride	0.20

Constituent	Testing Methodology	Lab Level	Reg. Level (mg/L)
Metals			
1. Arsenic	TCLP EPA Method 6010		5.00
2. Barium	TCLP EPA Method 6010		100.00
3. Cadmium	TCLP EPA Method 6010		1.00
4. Chromium	TCLP EPA Method 6010		5.00
5. Lead	TCLP EPA Method 6010		5.00
6. Mercury	TCLP EPA Method 7470		0.20
7. Selenium	TCLP EPA Method 6010		1.00
8. Silver	TCLP EPA Method 6010		5.00
Volatiles			**(mg/L)**
1. Benzene	TCLP EPA Method 8260		0.50
2. Carbon Tetrachloride	TCLP EPA Method 8260		0.50
3. Chlorobenzene	TCLP EPA Method 8260		100.00
4. Chloroform	TCLP EPA Method 8260		6.00
5. 1,2 Dichloroethane	TCLP EPA Method 8260		0.50
6. 1,1 Dichloroethylene	TCLP EPA Method 8260		0.70
7. Methyl ethyl ketone	TCLP EPA Method 8260		200.00
8. Tetrachloroethylene	TCLP EPA Method 8260		0.70
9. Trichloroethylene	TCLP EPA Method 8260		0.50
10. Vinyl Chloride	TCLP EPA Method 8260		0.20
Semi Volatiles			**(mg/L)**
1. o-Cresol	TCLP EPA Method 8270		200.00
2. m-Cresol	TCLP EPA Method 8270		200.00
3. Cresol (Total)	TCLP EPA Method 8270		200.00
4. 1,4-Dichlorobenzene	TCLP EPA Method 8270		7.50
5. 2,4-Dinitrotoluene	TCLP EPA Method 8270		0.13
6. Hexachlorobenzene	TCLP EPA Method 8270		0.13
7. Hexachlorobutadiene	TCLP EPA Method 8270		0.50
8. Hexachloroethane	TCLP EPA Method 8270		3.00
9. Nitrobenzene	TCLP EPA Method 8270		2.00
10. Pentrachlorophenol	TCLP EPA Method 8270		100.00
11. Pyridine	TCLP EPA Method 8270		5.00
12. 2,4,5-Trichlorophenol	TCLP EPA Method 8270		400.00
13. 2,4,6-Trichlorophenol	TCLP EPA Method 8270		2.00
Pesticides & Herbicides			**(mg/L)**
1. Chlordane	TCLP EPA Method 8081		0.03
2. Endrin	TCLP EPA Method 8081		0.02
3. Heptachlor	TCLP EPA Method 8081		0.008
4. Heptachlor Epoxide	TCLP EPA Method 8081		0.008
5. Lindane (Gamma-BHC)	TCLP EPA Method 8081		0.40
6. Methoxychlor	TCLP EPA Method 8081		10.00
7. Toxaphene (Chlorocamphene)	TCLP EPA Method 8081		0.50
8. 2,4 - D	TCLP EPA Method 8151		10.00
9. 2,4,5 – TP (Silvex)	TCLP EPA Method 8151		1.0
Polychlorinated Biphenyls			**COA Limit (µg/Kg) (based on dry weight)**
1. Aroclor 1016	EPA Method 8082		<PQL
2. Aroclor 1221	EPA Method 8082		<PQL
3. Aroclor 1232	EPA Method 8082		<PQL
4. Aroclor 1242	EPA Method 8082		<PQL
5. Aroclor 1248	EPA Method 8082		<PQL
6. Aroclor 1254	EPA Method 8082		<PQL
7. Aroclor 1260	EPA Method 8082		<PQL

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
14081747

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE
PROJECT: ALCO
LRF: 14081747
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: *1 DAY*

RECEIVED DATE: 8/19/2014 12:54
SHIPPED VIA: DROP OFF [1,2]
SHIPPING ID: N. SHAFFER-BAR-ALB
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: CHILLED
TEMPERATURE(S): [5] 8.4 °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
[3] **SAMPLES REC'D IN HOLDTIME:** YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date[4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-01-A (AR30038)	*1 DAY* 09-02-14	8/19/2014 09:20	Soil	EPA 8082A	PCB Analysis	

[1]The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.
[2]The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3]Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4]Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.
The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5]All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

Reporting Parameters and Lists

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB Amount > RL

GC - PCB

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-01-A
Lab Sample ID: 14081747-01 (AR30038)

Collection Date: 08/19/2014 09:20
Sample Matrix: SOIL
Received Date: 08/19/2014 12:54
Percent Solid: 80.8 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1185-47	SW-846 8082A (PCB)	09/01/2014 03:48	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28198	EPA 3545A	08/31/2014 17:09	KFM	10.3 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0602	1.00	U	GC10F-1185-47
Aroclor 1221	11104-28-2	ND	0.0602	1.00	U	GC10F-1185-47
Aroclor 1232	11141-16-5	ND	0.0602	1.00	U	GC10F-1185-47
Aroclor 1242	53469-21-9	ND	0.0602	1.00	U	GC10F-1185-47
Aroclor 1248	12672-29-6	ND	0.0602	1.00	U	GC10F-1185-47
Aroclor 1254	11097-69-1	**0.260**	0.0602	1.00	AF	GC10F-1185-47
Aroclor 1260	11096-82-5	ND	0.0602	1.00	U	GC10F-1185-47
Total PCB Amount > RL	1336-36-3	**0.260**		1.00		GC10F-1185-47

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	82.5	60.0-140		GC10F-1185-47
Decachlorobiphenyl	2051-24-3	83.2	60.0-140		GC10F-1185-47

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
AF-Aroclor 1254 is being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.

5

Quality Control Samples (Lab)

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14081747

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR30038B)
Lab Sample ID: PBLK-91

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1185-45	SW-846 8082A (PCB)	09/01/2014 03:23	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28198	EPA 3545A	08/31/2014 17:07	KFM	10.1 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC10F-1185-45
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC10F-1185-45
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC10F-1185-45
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC10F-1185-45
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC10F-1185-45
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC10F-1185-45
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC10F-1185-45
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1185-45

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	74.7	60.0-140		GC10F-1185-45
Decachlorobiphenyl	2051-24-3	93.9	60.0-140		GC10F-1185-45

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14081747

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR30038L)
Lab Sample ID: LCS-91

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1185-46	SW-846 8082A (PCB)	09/01/2014 03:36	AMB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28198	EPA 3545A	08/31/2014 17:09	KFM	10.2 g	25.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/g)	LCS (ug/g)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	1.22	1.00	82.2		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	75.0	60.0-140		GC10F-1185-46
Decachlorobiphenyl	2051-24-3	90.0	60.0-140		GC10F-1185-46

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Date Issued: September 30, 2014

Pace Analytical e-Report

Report prepared for:
BARTON AND LOGUIDICE
10 AIRLINE DRIVE
ALBANY, NY 12205
CONTACT: ANDY BARBER

Project ID: ALCO
Sampling Date(s): September 18, 2014
Lab Report ID: 14090613
Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included:
VOCs by GCMS (TCLP)
SVOCs by GCMS (TCLP)
Herbicides (TCLP)
PCB Analysis
Pesticide Analysis (TCLP)
Mercury Analysis (TCLP)
Metals by ICP (TCLP- RCRA)

Dan Pfalzer
Laboratory Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

CASE NARRATIVE

September 30, 2014

CASE NARRATIVE

This data package (SDG ID: 14090613) consists of 2 soil samples received on 09/18/2014. The samples are from Project Name: ALCO.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AR33586	D-04-A	09/18/2014 11:45
AR33587	D-04-B	09/18/2014 11:50

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via DROP OFF delivery service on 09/18/2014.
(2.) All samples were received at the laboratory intact and within holding times.
(3.) All samples were received at the laboratory properly preserved, if applicable.

Volatile Organics Analysis

Analysis for Volatile Organics was performed by method SW-846 8260C -TCLP/ZHE SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Semivolatile Organics Analysis

Analysis for Semivolatile Organics was performed by method SW-846 8270D - TCLP SW-846 1311. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for Pentachlorophenol and 2,4,6-tribromophenol were below method established limits for the associated Continuing Calibration Verification Sample for samples (LAB ID: AR33586 and AR33587). Low analytical bias may be indicated for these samples.

Herbicide Analysis (TCLP)

Analysis for herbicides was performed by EPA 1978 pg.115. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Pesticide Analysis (TCLP)

Analysis for pesticides was performed by method SW-846 8081B. Samples were extracted by USEPA SW-846 Method 3535A Solid Phase Extraction. One-liter water samples were extracted by PACE SOP NE178_04. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Mercury Analysis

Analysis for mercury was performed by method SW-846 7470A - TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

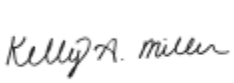
(1.) All quality assurance parameters were met for the analysis.

Metals Analysis by ICP

Analysis for metals was performed by method SW-846 6010C/TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Respectfully submitted,



Kelly A. Miller
Project Manager

QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate recovery not evaluated against control limits due to sample dilution.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

Inorganic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

Pace Analytical
www.pacelabs.com

New York Office
2190 Technology Dr.
Schenectady, NY 12308
(518) 346-4592

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<14090613P1>
140906131

Page: 1 of 1

Section A — **Required** Client Information:

Company:	Barton and Loguidice DPC
Address:	10 Airline Drive, Suite 200, Albany, NY 12205
Email To:	nshaffer@bartonandloguidice.com
Phone:	518-218-1801
Fax:	518-218-1805
Requested Due Date/TAT:	Standard

Section B — **Required** Project Information:

Report To:	Andy Barber
Copy To:	Nathan Shaffer
Purchase Order No.:	
Project Name:	ALCO
Project Number:	1368.001.001

Section C — Invoice Information:

Attention:	Accounts Payable
Company Name:	Barton and Loguidice, DPC
Address:	290 Elwood Davis Road, Box 3107, Syracuse NY, 13220
Pace Quote Reference:	00014909
Pace Project Manager:	Kelly Miller
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER____

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Filtered (Y/N)

Requested Analysis: Albany County Landfill + Colonie Landfill; Residual Chlorine (Y/N)

Section D — Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes — MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Albany County Landfill	Colonie Landfill	Pace Project No./Lab I.D.
1	D-04-A	SL	C	|	|	9/18	11:45		2	X								X	X	AR33586
2	D-04-B	SL	C	|	|	9/18	11:50		2	X								X	X	AR33587
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

(# of containers header annotation: 802)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	9/18	14:07	[signature]	9/18/14	1405	3.9, 4.5	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
							Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nathan Shaffer

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 9/18/14

Pace Analytical

Sample Condition Upon Receipt

<14090613P2>

140906132

CLIENT NAME: B+L

PROJECT : ALCO

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐

TRACKING # _____ **CUSTODY SEAL PRESENT:** Yes ☐ No ☒ **INTACT:** Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other ☐ **ICE USED:** Wet ☒ Blue ☐ None ☐

THERMOMETER USED: #164 ☒ IR Gun 03 ☐ #122087967 ☐ **COOLER TEMPERATURE (°C):** 5.9, 4.5

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒ Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☒Yes	☐No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☒Yes	☐No		12.
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	☐Yes	☐No	☒N/A	Initial when completed: NA / Lot # of added preservative: NA
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: _____				

Sample Receipt form filled in: KJP

Line-Out (Includes Copying Shipping Documents and verifying sample pH): KJP 9/18/14

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): CMS 091814

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): KJP 9/18/14

3

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
14090613

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE
PROJECT: ALCO
LRF: 14090613
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: 7 DAYS

RECEIVED DATE: 09/18/2014 14:05
SHIPPED VIA: DROP OFF [1,2]
SHIPPING ID: N. SHAFFER- B&L
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: CHILLED
TEMPERATURE(S): [5] 5.9, 4.5 °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
[3] **SAMPLES REC'D IN HOLDTIME:** YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date [4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-04-A (AR33586)	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:45	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
D-04-B (AR33587)	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 09-29-14	09/18/2014 11:50	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	

[1] The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.
[2] The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3] Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4] Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5] All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

Reporting Parameters and Lists

EPA 1978 p.115 - Herbicides (TCLP) - (ug/L)
- 2,4,5-TP,SILVEX
- 2,4-D

EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)
- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Selenium
- Silver

EPA 7470A - Mercury Analysis (TCLP) - (mg/L)
- Mercury

EPA 8081B - Pesticide Analysis (TCLP) - (ug/L)
- Chlordane
- Endrin
- gamma-BHC
- Heptachlor
- Heptachlor Epoxide
- Methoxychlor
- Toxaphene

EPA 8082A - PCB Analysis - (ug/g)
- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)
- 1,1-Dichloroethene
- 1,2-Dichloroethane
- 2-Butanone
- Benzene
- Carbon Tetrachloride
- Chlorobenzene
- Chloroform
- Tetrachloroethene
- Trichloroethene
- Vinyl Chloride

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Continued...

EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)

1,4-Dichlorobenzene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
Hexachlorobenzene
Hexachlorobutadiene
Hexachloroethane
m&p-Methylphenol
Nitrobenzene
o-Methylphenol
Pentachlorophenol
Pyridine

GC/MS Volatiles

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Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-A
Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45
Sample Matrix: SOIL(TCLP)
Received Date: 09/18/2014 14:05
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-250-9	EPA 8260C - TCLP-ZHE SW-846 1311	09/25/2014 10:54	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-250-9
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-250-9
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-250-9
Benzene	71-43-2	ND	10.0	10.0	U	MS10-250-9
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-250-9
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-250-9
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-250-9
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-250-9
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-250-9
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-250-9

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	91.3	76.0-128		MS10-250-9
Dibromofluoromethane	1868-53-7	100	73.6-132		MS10-250-9
Toluene-d8	2037-26-5	99.6	84.4-115		MS10-250-9
1,2-Dichloroethane	17060-07-0	101	79.9-120		MS10-250-9

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-B
Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50
Sample Matrix: SOIL(TCLP)
Received Date: 09/18/2014 14:05
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-250-10	EPA 8260C - TCLP-ZHE SW-846 1311	09/25/2014 11:21	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-250-10
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-250-10
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-250-10
Benzene	71-43-2	ND	10.0	10.0	U	MS10-250-10
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-250-10
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-250-10
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-250-10
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-250-10
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-250-10
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-250-10

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	92.9	76.0-128		MS10-250-10
Dibromofluoromethane	1868-53-7	101	73.6-132		MS10-250-10
Toluene-d8	2037-26-5	98.9	84.4-115		MS10-250-10
1,2-Dichloroethane	17060-07-0	102	79.9-120		MS10-250-10

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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GC/MS Semivolatiles

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Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-A
Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45
Sample Matrix: SOIL(TCLP)
Received Date: 09/18/2014 14:05
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-406-10	SW-846 8270D/TCLP Extraction Method 1311	09/29/2014 12:15	RMS	NA	NA	N/A
Prep 1:	28615	EPA 3510C	09/24/2014 15:00	EPC	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-406-10
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-406-10
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-406-10
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-406-10
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-406-10
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-406-10
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-406-10
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-406-10
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-406-10
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-406-10
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-406-10
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-406-10

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	85.6	22.8-161		MS09-406-10
2-Fluorobiphenyl	321-60-8	61.4	26.3-121		MS09-406-10
2-Fluorophenol	367-12-4	39.9	10.0-86.4		MS09-406-10
Terphenyl-d14	1718-51-0	94.6	33.7-154		MS09-406-10
Nitrobenzene-d5	4165-60-0	66.5	12.7-139		MS09-406-10
Phenol-d6	13127-88-3	30.2	10.0-87.4		MS09-406-10

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-B
Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50
Sample Matrix: SOIL(TCLP)
Received Date: 09/18/2014 14:05
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-406-11	SW-846 8270D/TCLP Extraction Method 1311	09/29/2014 12:31	RMS	NA	NA	N/A
Prep 1:	28615	EPA 3510C	09/24/2014 15:00	EPC	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-406-11
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-406-11
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-406-11
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-406-11
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-406-11
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-406-11
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-406-11
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-406-11
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-406-11
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-406-11
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-406-11
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-406-11

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	87.1	22.8-161		MS09-406-11
2-Fluorobiphenyl	321-60-8	67.2	26.3-121		MS09-406-11
2-Fluorophenol	367-12-4	46.4	10.0-86.4		MS09-406-11
Terphenyl-d14	1718-51-0	98.5	33.7-154		MS09-406-11
Nitrobenzene-d5	4165-60-0	70.5	12.7-139		MS09-406-11
Phenol-d6	13127-88-3	32.8	10.0-87.4		MS09-406-11

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

6

GC - PCB

Pace Analytical Services, Inc.
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Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-A
Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45
Sample Matrix: SOIL
Received Date: 09/18/2014 14:05
Percent Solid: 5.00 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC20F-2016-8	SW-846 8082A (PCB)	09/29/2014 20:05	KEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28697	EPA 3545A	09/29/2014 08:43	MH	10.4 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.965	1.00	U	GC20F-2016-8
Aroclor 1221	11104-28-2	ND	0.965	1.00	U	GC20F-2016-8
Aroclor 1232	11141-16-5	ND	0.965	1.00	U	GC20F-2016-8
Aroclor 1242	53469-21-9	ND	0.965	1.00	U	GC20F-2016-8
Aroclor 1248	12672-29-6	ND	0.965	1.00	U	GC20F-2016-8
Aroclor 1254	11097-69-1	ND	0.965	1.00	U	GC20F-2016-8
Aroclor 1260	11096-82-5	ND	0.965	1.00	U	GC20F-2016-8
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC20F-2016-8

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	108	60.0-140		GC20F-2016-8
Decachlorobiphenyl	2051-24-3	104	60.0-140		GC20F-2016-8

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Note: There were several non-target peaks.

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Pace Analytical Services, Inc.
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-B
Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50
Sample Matrix: SOIL
Received Date: 09/18/2014 14:05
Percent Solid: 15.2 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC20F-2016-9	SW-846 8082A (PCB)	09/29/2014 20:17	KEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28697	EPA 3545A	09/29/2014 08:44	MH	10.2 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.324	1.00	U	GC20F-2016-9
Aroclor 1221	11104-28-2	ND	0.324	1.00	U	GC20F-2016-9
Aroclor 1232	11141-16-5	ND	0.324	1.00	U	GC20F-2016-9
Aroclor 1242	53469-21-9	ND	0.324	1.00	U	GC20F-2016-9
Aroclor 1248	12672-29-6	ND	0.324	1.00	U	GC20F-2016-9
Aroclor 1254	11097-69-1	ND	0.324	1.00	U	GC20F-2016-9
Aroclor 1260	11096-82-5	ND	0.324	1.00	U	GC20F-2016-9
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC20F-2016-9

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	92.1	60.0-140		GC20F-2016-9
Decachlorobiphenyl	2051-24-3	97.8	60.0-140		GC20F-2016-9

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

7

GC - Pesticides

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Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-A
Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45
Sample Matrix: SOIL(TCLP)
Received Date: 09/18/2014 14:05
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19B-2191-11	SW-846 8081B, Pesticides/TCLP Extraction M	09/27/2014 21:05	MCA	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28648	EPA 3535A	09/24/2014 15:00	EPC	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19B-2191-11
Endrin	72-20-8	ND	0.0500	1.00	U	GC19B-2191-11
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19B-2191-11
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19B-2191-11
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19B-2191-11
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19B-2191-11
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19B-2191-11

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	97.0	60.0-140		GC19B-2191-11
Decachlorobiphenyl	2051-24-3	103	60.0-140		GC19B-2191-11

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-B
Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50
Sample Matrix: SOIL(TCLP)
Received Date: 09/18/2014 14:05
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19B-2191-12	SW-846 8081B, Pesticides/TCLP Extraction M	09/27/2014 21:38	MCA	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28648	EPA 3535A	09/24/2014 15:00	EPC	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19B-2191-12
Endrin	72-20-8	ND	0.0500	1.00	U	GC19B-2191-12
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19B-2191-12
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19B-2191-12
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19B-2191-12
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19B-2191-12
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19B-2191-12

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	83.1	60.0-140		GC19B-2191-12
Decachlorobiphenyl	2051-24-3	102	60.0-140		GC19B-2191-12

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

8

GC - Herbicides

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Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-A
Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45
Sample Matrix: SOIL(TCLP)
Received Date: 09/18/2014 14:05
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-245-7	EPA 1978 pg.115 Herbicides/TCLP Method 13	09/29/2014 02:53	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28675	EPA 3510C	09/28/2014 07:00	MH	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-245-7
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-245-7

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	82.5	60.0-140		GC16-245-7

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: Lab modified method.

9

Pace Analytical®

Analytical Sample Results

Job Number: 14090613

Pace Analytical Services, Inc.
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-B
Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50
Sample Matrix: SOIL(TCLP)
Received Date: 09/18/2014 14:05
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-245-9	EPA 1978 pg.115 Herbicides/TCLP Method 13	09/29/2014 03:29	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28675	EPA 3510C	09/28/2014 07:00	MH	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-245-9
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-245-9

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	102	60.0-140		GC16-245-9

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: Lab modified method.

9

Mercury

Pace Analytical Services, Inc.
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Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-A
Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45
Sample Matrix: SOIL(TCLP)
Received Date: 09/18/2014 14:05
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1692-24	SW-846 7470/TCLP 1311	09/25/2014 16:22	CYC	NA	NA	NA
Prep 1:	5001	EPA 7470A	09/25/2014 09:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1692-24

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-B
Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50
Sample Matrix: SOIL(TCLP)
Received Date: 09/18/2014 14:05
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1692-27	SW-846 7470/TCLP 1311	09/25/2014 16:27	CYC	NA	NA	NA
Prep 1:	5001	EPA 7470A	09/25/2014 09:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1692-27

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Metals - ICP

Pace Analytical Services, Inc.
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Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-A
Lab Sample ID: 14090613-01 (AR33586)

Collection Date: 09/18/2014 11:45
Sample Matrix: SOIL(TCLP)
Received Date: 09/18/2014 14:05
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1312-91	EPA 6010C/TCLP 1311	09/25/2014 15:49	LMS	NA	NA	NA
Prep 1:	5000	EPA 3005A	09/25/2014 09:26	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1312-91
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1312-91
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1312-91
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1312-91
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1312-91
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1312-91
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1312-91

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-B
Lab Sample ID: 14090613-02 (AR33587)

Collection Date: 09/18/2014 11:50
Sample Matrix: SOIL(TCLP)
Received Date: 09/18/2014 14:05
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1312-98	EPA 6010C/TCLP 1311	09/25/2014 16:06	LMS	NA	NA	NA
Prep 1:	5000	EPA 3005A	09/25/2014 09:26	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1312-98
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1312-98
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1312-98
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1312-98
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1312-98
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1312-98
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1312-98

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Field)

Pace Analytical®

Quality Control Results
Matrix Spike Sample (MS)
Job Number: 14090613

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-A MS
Lab Sample ID: 14090613-01M (AR33586M)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19B-2191-10	SW-846 8081B, Pesticides/TCLP Extraction M	09/27/2014 20:33	MCA	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28648	EPA 3535A	09/24/2014 15:00	EPC	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19B-2191-10
Endrin	72-20-8	**0.979**	0.0500	1.00		GC19B-2191-10
gamma-BHC	58-89-9	**1.03**	0.0500	1.00		GC19B-2191-10
Heptachlor	76-44-8	**0.971**	0.0500	1.00		GC19B-2191-10
Heptachlor Epoxide	1024-57-3	**1.02**	0.0500	1.00		GC19B-2191-10
Methoxychlor	72-43-5	**0.966**	0.0500	1.00		GC19B-2191-10
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19B-2191-10

Analyte Spiked	CAS No.	Sample (ug/L)	Added (ug/L)	MS (ug/L)	MS % Rec.	Q[1]	Limits (%)
Endrin	72-20-8		1.00	0.979	97.9		70.0-130
gamma-BHC	58-89-9		1.00	1.03	103		70.0-130
Heptachlor	76-44-8		1.00	0.971	97.1		70.0-130
Heptachlor Epoxide	1024-57-3		1.00	1.02	102		70.0-130
Methoxychlor	72-43-5		1.00	0.966	96.6		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	91.4	60.0-140		GC19B-2191-10
Decachlorobiphenyl	2051-24-3	101	60.0-140		GC19B-2191-10

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Pace Analytical®

Quality Control Results
Matrix Spike Sample (MS)
Job Number: 14090613

Pace Analytical Services, Inc.
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Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-A MS
Lab Sample ID: 14090613-01M (AR33586M)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-245-8	EPA 1978 pg.115 Herbicides/TCLP Method 1311	09/29/2014 03:11	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28675	EPA 3510C	09/28/2014 07:00	MH	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	**10.4**	5.00	20.0		GC16-245-8
2,4-D	94-75-7	**10.7**	5.00	20.0		GC16-245-8

Analyte Spiked	CAS No.	Sample (ug/L)	Added (ug/L)	MS (ug/L)	MS % Rec.	Q[1]	Limits (%)
2,4,5-TP,SILVEX	93-72-1		12.5	10.4	83.2		70.0-130
2,4-D	94-75-7		12.5	10.7	85.9		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	104	60.0-140		GC16-245-8

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: Lab modified method.

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Pace Analytical®

Quality Control Results
Matrix Spike Sample (MS)
Job Number: 14090613

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-A MS
Lab Sample ID: 14090613-01M (AR33586M)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1692-26	SW-846 7470/TCLP 1311	09/25/2014 16:25	CYC	NA	NA	NA
Prep 1:	5001	EPA 7470A	09/25/2014 09:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	**0.0304**	0.0200	1.00		MER1-1692-26

Analyte Spiked	CAS No.	Sample (mg/L)	Added (mg/L)	MS (mg/L)	MS % Rec.	Q[1]	Limits (%)
Mercury	7439-97-6		0.0300	0.0304	101		75.0-125

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

12

Pace Analytical®

Quality Control Results
Duplicate Sample
Job Number: 14090613

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-A DUP
Lab Sample ID: 14090613-01D (AR33586D)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1692-25	SW-846 7470/TCLP 1311	09/25/2014 16:23	CYC	NA	NA	NA
Prep 1:	5001	EPA 7470A	09/25/2014 09:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1692-25

			Precision			
Analyte	CAS No.	Duplicate (mg/L)	Sample (mg/L)	RPD	Q[1]	Limits (%)
Mercury	7439-97-6	ND	ND			20

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

12

Pace Analytical®

Quality Control Results
Matrix Spike Sample (MS)
Job Number: 14090613

Pace Analytical Services, Inc.
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Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-A MS
Lab Sample ID: 14090613-01M (AR33586M)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1312-93	EPA 6010C/TCLP 1311	09/25/2014 15:54	LMS	NA	NA	NA
Prep 1:	5000	EPA 3005A	09/25/2014 09:26	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	**12.9**	0.500	1.00		ICP2-1312-93
Barium	7440-39-3	**25.4**	1.00	1.00		ICP2-1312-93
Cadmium	7440-43-9	**5.29**	0.100	1.00		ICP2-1312-93
Chromium	7440-47-3	**12.6**	0.500	1.00		ICP2-1312-93
Lead	7439-92-1	**12.8**	0.500	1.00		ICP2-1312-93
Selenium	7782-49-2	**5.31**	0.250	1.00		ICP2-1312-93
Silver	7440-22-4	**12.8**	0.500	1.00		ICP2-1312-93

Analyte Spiked	CAS No.	Sample (mg/L)	Added (mg/L)	MS (mg/L)	MS % Rec.	Q[1]	Limits (%)
Arsenic	7440-38-2		12.5	12.9	103		75.0-125
Barium	7440-39-3		25.0	25.4	102		75.0-125
Cadmium	7440-43-9		5.00	5.29	106		75.0-125
Chromium	7440-47-3		12.5	12.6	101		75.0-125
Lead	7439-92-1		12.5	12.8	103		75.0-125
Selenium	7782-49-2		5.00	5.31	106		75.0-125
Silver	7440-22-4		12.5	12.8	102		75.0-125

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

12

Pace Analytical®

Quality Control Results
Duplicate Sample
Job Number: 14090613

Pace Analytical Services, Inc.
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Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-04-A DUP
Lab Sample ID: 14090613-01D (AR33586D)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1312-92	EPA 6010C/TCLP 1311	09/25/2014 15:52	LMS	NA	NA	NA
Prep 1:	5000	EPA 3005A	09/25/2014 09:26	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1312-92
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1312-92
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1312-92
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1312-92
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1312-92
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1312-92
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1312-92

			Precision			
Analyte	CAS No.	Duplicate (mg/L)	Sample (mg/L)	RPD	Q[1]	Limits (%)
Arsenic	7440-38-2	ND	ND			20
Barium	7440-39-3	ND	ND			20
Cadmium	7440-43-9	ND	ND			20
Chromium	7440-47-3	ND	ND			20
Lead	7439-92-1	ND	ND			20
Selenium	7782-49-2	ND	ND			20
Silver	7440-22-4	ND	ND			20

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

12

Quality Control Samples (Lab)

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14090613

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Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR33586B-ZHE)
Lab Sample ID: VBLK-04

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-250-5	EPA 8260C - TCLP-ZHE SW-846 1311	09/25/2014 09:15	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-250-5
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-250-5
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-250-5
Benzene	71-43-2	ND	10.0	10.0	U	MS10-250-5
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-250-5
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-250-5
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-250-5
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-250-5
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-250-5
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-250-5

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	95.5	76.0-128		MS10-250-5
Dibromofluoromethane	1868-53-7	103	73.6-132		MS10-250-5
Toluene-d8	2037-26-5	101	84.4-115		MS10-250-5
1,2-Dichloroethane	17060-07-0	102	79.9-120		MS10-250-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14090613

Pace Analytical Services, Inc.
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Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR33586L)
Lab Sample ID: LCS-03

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-250-4	EPA 8260C - TCLP-ZHE SW-846 1311	09/25/2014 08:42	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
1,1-Dichloroethene	75-35-4	40.0	41.5	104		70.0-130
1,2-Dichloroethane	107-06-2	40.0	40.3	101		70.0-130
2-Butanone	78-93-3	40.0	38.1	95.4		70.0-130
Benzene	71-43-2	40.0	39.4	98.6		70.0-130
Carbon Tetrachloride	56-23-5	40.0	42.0	105		70.0-130
Chlorobenzene	108-90-7	40.0	41.7	104		70.0-130
Chloroform	67-66-3	40.0	39.4	98.6		70.0-130
Tetrachloroethene	127-18-4	40.0	44.4	111		70.0-130
Trichloroethene	79-01-6	40.0	42.7	107		70.0-130
Vinyl Chloride	75-01-4	40.0	37.2	92.9		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	104	76.0-128		MS10-250-4
Dibromofluoromethane	1868-53-7	96.9	73.6-132		MS10-250-4
Toluene-d8	2037-26-5	104	84.4-115		MS10-250-4
1,2-Dichloroethane	17060-07-0	95.8	79.9-120		MS10-250-4

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical Services, Inc.
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR33800B)
Lab Sample ID: SBLK-63

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-406-5	SW-846 8270D/TCLP Extraction Method 1311	09/29/2014 10:53	RMS	NA	NA	N/A
Prep 1:	28615	EPA 3510C	09/24/2014 15:00	EPC	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-406-5
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-406-5
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-406-5
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-406-5
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-406-5
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-406-5
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-406-5
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-406-5
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-406-5
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-406-5
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-406-5
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-406-5

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	68.3	22.8-161		MS09-406-5
2-Fluorobiphenyl	321-60-8	62.6	26.3-121		MS09-406-5
2-Fluorophenol	367-12-4	42.0	10.0-86.4		MS09-406-5
Terphenyl-d14	1718-51-0	87.4	33.7-154		MS09-406-5
Nitrobenzene-d5	4165-60-0	74.8	12.7-139		MS09-406-5
Phenol-d6	13127-88-3	30.4	10.0-87.4		MS09-406-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14090613

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR33800L)
Lab Sample ID: LCS-63

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-406-6	SW-846 8270D/TCLP Extraction Method 1311	09/29/2014 11:08	RMS	NA	NA	N/A
Prep 1:	28615	EPA 3510C	09/24/2014 15:00	EPC	200 mL	1.00 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
1,4-Dichlorobenzene	106-46-7	500	274	54.9		27.0-123
2,4,5-Trichlorophenol	95-95-4	500	358	71.7		30.0-128
2,4,6-Trichlorophenol	88-06-2	500	328	65.7		37.0-144
2,4-Dinitrotoluene	121-14-2	500	401	80.1		37.0-121
Hexachlorobenzene	118-74-1	500	357	71.4		42.0-117
Hexachlorobutadiene	87-68-3	500	208	41.5		31.0-110
Hexachloroethane	67-72-1	500	249	49.7		24.0-124
m&p-Methylphenol	108-39-4/106-44-5	1000	580	58.0		22.0-139
Nitrobenzene	98-95-3	500	376	75.3		34.0-119
o-Methylphenol	95-48-7	500	306	61.2		26.0-128
Pentachlorophenol	87-86-5	500	381	76.2		4.00-113
Pyridine	110-86-1	500	149	29.8		1.00-105

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	87.2	22.8-161		MS09-406-6
2-Fluorobiphenyl	321-60-8	70.5	26.3-121		MS09-406-6
2-Fluorophenol	367-12-4	49.9	10.0-86.4		MS09-406-6
Terphenyl-d14	1718-51-0	98.4	33.7-154		MS09-406-6
Nitrobenzene-d5	4165-60-0	87.4	12.7-139		MS09-406-6
Phenol-d6	13127-88-3	34.9	10.0-87.4		MS09-406-6

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR33586B)
Lab Sample ID: PBLK-82

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC20F-2016-6	SW-846 8082A (PCB)	09/29/2014 19:40	KEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28697	EPA 3545A	09/29/2014 08:42	MH	10.2 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC20F-2016-6
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC20F-2016-6
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC20F-2016-6
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC20F-2016-6
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC20F-2016-6
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC20F-2016-6
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC20F-2016-6
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC20F-2016-6

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	99.2	60.0-140		GC20F-2016-6
Decachlorobiphenyl	2051-24-3	122	60.0-140		GC20F-2016-6

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14090613

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR33586L)
Lab Sample ID: LCS-82

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC20F-2016-7	SW-846 8082A (PCB)	09/29/2014 19:52	KEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28697	EPA 3545A	09/29/2014 08:42	MH	10.3 g	25.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/g)	LCS (ug/g)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	1.21	1.15	95.2		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	98.4	60.0-140		GC20F-2016-7
Decachlorobiphenyl	2051-24-3	122	60.0-140		GC20F-2016-7

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR33586B)
Lab Sample ID: TBLK-86

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19B-2191-8	SW-846 8081B, Pesticides/TCLP Extraction M	09/27/2014 19:28	MCA	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28648	EPA 3535A	09/24/2014 15:00	EPC	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19B-2191-8
Endrin	72-20-8	ND	0.0500	1.00	U	GC19B-2191-8
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19B-2191-8
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19B-2191-8
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19B-2191-8
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19B-2191-8
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19B-2191-8

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	94.7	60.0-140		GC19B-2191-8
Decachlorobiphenyl	2051-24-3	102	60.0-140		GC19B-2191-8

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14090613

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR33586L)
Lab Sample ID: LCS-86

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19B-2191-9	SW-846 8081B, Pesticides/TCLP Extraction M	09/27/2014 20:01	MCA	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28648	EPA 3535A	09/24/2014 15:00	EPC	200 mL	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
Endrin	72-20-8	1.00	0.781	78.1		70.0-130
gamma-BHC	58-89-9	1.00	0.939	93.9		70.0-130
Heptachlor	76-44-8	1.00	0.794	79.4		70.0-130
Heptachlor Epoxide	1024-57-3	1.00	0.847	84.7		70.0-130
Methoxychlor	72-43-5	1.00	0.772	77.2		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	82.8	60.0-140		GC19B-2191-9
Decachlorobiphenyl	2051-24-3	74.8	60.0-140		GC19B-2191-9

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14090613

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR33586B)
Lab Sample ID: HBLK-80

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-245-5	EPA 1978 pg.115 Herbicides/TCLP Method 1	09/29/2014 02:17	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28675	EPA 3510C	09/28/2014 07:00	MH	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-245-5
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-245-5

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	89.3	60.0-140		GC16-245-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: Lab modified method.

13

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14090613

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR33586L)
Lab Sample ID: LCS-80

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-245-6	EPA 1978 pg.115 Herbicides/TCLP Method 13	09/29/2014 02:35	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28675	EPA 3510C	09/28/2014 07:00	MH	200 mL	5.00 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
2,4,5-TP,SILVEX	93-72-1	12.5	9.64	77.1		70.0-130
2,4-D	94-75-7	12.5	10.0	80.3		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	89.3	60.0-140		GC16-245-6

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: Lab modified method.

13

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR33586B)
Lab Sample ID: PBW-82

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1692-20	SW-846 7470/TCLP 1311	09/25/2014 16:15	CYC	NA	NA	NA
Prep 1:	5001	EPA 7470A	09/25/2014 09:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1692-20

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR33586L)
Lab Sample ID: LCS-82

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1692-21	SW-846 7470/TCLP 1311	09/25/2014 16:16	CYC	NA	NA	NA
Prep 1:	5001	EPA 7470A	09/25/2014 09:26	CYC	4.00 mL	40.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q[1]	Limits (%)
Mercury	7439-97-6	0.0300	0.0304	101		80.0-120

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14090613

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR33586B)
Lab Sample ID: PBW-81

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1312-86	EPA 6010C/TCLP 1311	09/25/2014 15:37	LMS	NA	NA	NA
Prep 1:	5000	EPA 3005A	09/25/2014 09:26	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1312-86
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1312-86
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1312-86
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1312-86
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1312-86
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1312-86
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1312-86

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)

Job Number: 14090613

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR33586L)
Lab Sample ID: LCS-81

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1312-87	EPA 6010C/TCLP 1311	09/25/2014 15:40	LMS	NA	NA	NA
Prep 1:	5000	EPA 3005A	09/25/2014 09:26	CYC	10.0 mL	50.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q[1]	Limits (%)
Arsenic	7440-38-2	12.5	12.9	104		85.0-115
Barium	7440-39-3	25.0	25.2	101		85.0-115
Cadmium	7440-43-9	5.00	5.40	108		85.0-115
Chromium	7440-47-3	12.5	12.8	103		85.0-115
Lead	7439-92-1	12.5	13.1	105		85.0-115
Selenium	7782-49-2	5.00	5.37	107		85.0-115
Silver	7440-22-4	12.5	13.0	104		85.0-115

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Date Issued: October 02, 2014

Pace Analytical e-Report

Report prepared for:
BARTON AND LOGUIDICE
10 AIRLINE DRIVE
ALBANY, NY 12205
CONTACT: ANDY BARBER

Project ID: ALCO
Sampling Date(s): September 23, 2014
Lab Report ID: 14090712
Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included:
VOCs by GCMS (TCLP)
SVOCs by GCMS (TCLP)
Herbicides (TCLP)
PCB Analysis
Pesticide Analysis (TCLP)
Mercury Analysis (TCLP)
Metals by ICP (TCLP- RCRA)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfalzer
Laboratory Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

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Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

CASE NARRATIVE

October 02, 2014

CASE NARRATIVE

This data package (SDG ID: 14090712) consists of 1 soil sample received on 09/23/2014. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AR34433	D-05	09/23/2014 10:45

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via DROP OFF delivery service on 09/23/2014.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) All samples were received at the laboratory properly preserved, if applicable.

Volatile Organics Analysis

Analysis for Volatile Organics was performed by method SW-846 8260C -TCLP/ZHE SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Semivolatile Organics Analysis

Analysis for Semivolatile Organics was performed by method SW-846 8270D - TCLP SW-846 1311. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Herbicide Analysis (TCLP)

Analysis for herbicides was performed by EPA 1978 pg.115. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Pesticide Analysis (TCLP)

Analysis for pesticides was performed by method SW-846 8081B. Samples were extracted by USEPA SW-846 Method 3535A Solid Phase Extraction. One-liter water samples were extracted by PACE SOP NE178_04. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Mercury Analysis

Analysis for mercury was performed by method SW-846 7470A - TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Metals Analysis by ICP

Analysis for metals was performed by method SW-846 6010C/TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for the analysis.

Respectfully submitted,

Kelly A. Miller

Kelly A. Miller
Project Manager

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QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate recovery not evaluated against control limits due to sample dilution.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

Inorganic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

Pace Analytical™
www.pacelabs.com

New York Office
2190 Technology Dr.
Schenectady, NY 12308
(518) 346-4592

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<140907121P1>

140907121

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Barton and Loguidice DPC	Report To: Andy Barber	Attention: Accounts Payable
Address: 10 Airline Drive, Suite 200	Copy To: Nathan Shaffer	Company Name: Barton and Loguidice, DPC
Albany, NY 12205		Address: 290 Elwood Davis Road, Box 3107 Syracuse NY, 13220
Email To: nshaffer@bartonandloguidice.com	Purchase Order No.:	Pace Quote Reference: 00014909
Phone: 518-218-1801 Fax: 518-218-1805	Project Name: ALCO	Pace Project Manager: Kelly Miller
Requested Due Date/TAT: Standard	Project Number: 1368.001.001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION: ☐ GA ☐ IL ☐ N ☐ MI ☐ NC ☐ OH ☐ SC ☐ MI ☐ OTHER____

Filtered (Y/N)

Requested Analysis: Albany Ct-LF; Colonie Ct-LF; Residual Chlorine (Y/N)

Pace Project No. Lab I.D.

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Albany Ct-LF	Colonie Ct-LF	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.
1	D-05	SL	C	—		9/23	10:45		2	X								X	X		A R 3 4 4 3 3
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature] IBM	9/18	11:04	[signature]	9/23/14	11:04

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
8 SIA	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY):

Sample Condition Upon Receipt

<14090712P2>

140307122

CLIENT NAME: Bar-Alb

PROJECT : ACO

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐

TRACKING # _____

CUSTODY SEAL PRESENT: Yes ☐ No ☒ **INTACT:** Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other ☐

ICE USED: Wet ☒ Blue ☐ None ☐

THERMOMETER USED: #164 ☐ IR Gun 03 ☒ #122087967 ☐

COOLER TEMPERATURE (°C): 8.5

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒

Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☐Yes	☒No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☐No		6.
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☒Yes	☐No		12.
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	☐Yes	☐No	☒N/A	Initial when completed: NA / Lot # of added preservative: NA
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: _____				

Sample Receipt form filled in: KJP

Line-Out (Includes Copying Shipping Documents and verifying sample pH): KJP 9/23/14

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): PS 9/23/14

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): KJP 9/23/14

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
14090712

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE
PROJECT: ALCO
LRF: 14090712
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: 7 DAYS

RECEIVED DATE: 09/23/2014 11:04
SHIPPED VIA: DROP OFF [1,2]
SHIPPING ID: BAR ALB
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: CHILLED
TEMPERATURE(S): [5] 8.5 °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
[3] SAMPLES REC'D IN HOLDTIME: YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date[4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-05 (AR34433)	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 1978 p.115	Herbicides (TCLP)	
	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 8081B	Pesticide Analysis (TCLP)	
	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 10-02-14	09/23/2014 10:45	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	

[1]The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.
[2]The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3]Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4]Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5]All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

Reporting Parameters and Lists

EPA 1978 p.115 - Herbicides (TCLP) - (ug/L)
- 2,4,5-TP,SILVEX
- 2,4-D

EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)
- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Selenium
- Silver

EPA 7470A - Mercury Analysis (TCLP) - (mg/L)
- Mercury

EPA 8081B - Pesticide Analysis (TCLP) - (ug/L)
- Chlordane
- Endrin
- gamma-BHC
- Heptachlor
- Heptachlor Epoxide
- Methoxychlor
- Toxaphene

EPA 8082A - PCB Analysis - (ug/g)
- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)
- 1,1-Dichloroethene
- 1,2-Dichloroethane
- 2-Butanone
- Benzene
- Carbon Tetrachloride
- Chlorobenzene
- Chloroform
- Tetrachloroethene
- Trichloroethene
- Vinyl Chloride

EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)
- 1,4-Dichlorobenzene
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol
- 2,4-Dinitrotoluene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachloroethane
- m&p-Methylphenol
- Nitrobenzene
- o-Methylphenol
- Pentachlorophenol
- Pyridine

GC/MS Volatiles

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-05
Lab Sample ID: 14090712-01 (AR34433)

Collection Date: 09/23/2014 10:45
Sample Matrix: SOIL(TCLP)
Received Date: 09/23/2014 11:04
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-255-20	EPA 8260C - TCLP-ZHE SW-846 1311	09/29/2014 17:33	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-255-20
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-255-20
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-255-20
Benzene	71-43-2	ND	10.0	10.0	U	MS10-255-20
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-255-20
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-255-20
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-255-20
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-255-20
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-255-20
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-255-20

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	95.0	76.0-128		MS10-255-20
Dibromofluoromethane	1868-53-7	106	73.6-132		MS10-255-20
Toluene-d8	2037-26-5	98.1	84.4-115		MS10-255-20
1,2-Dichloroethane	17060-07-0	104	79.9-120		MS10-255-20

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

GC/MS Semivolatiles

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-05
Lab Sample ID: 14090712-01 (AR34433)

Collection Date: 09/23/2014 10:45
Sample Matrix: SOIL(TCLP)
Received Date: 09/23/2014 11:04
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-412-22	SW-846 8270D/TCLP Extraction Method 1311	09/30/2014 14:17	RMS	NA	NA	N/A
Prep 1:	28699	EPA 3510C	09/27/2014 11:20	KEN	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-412-22
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-412-22
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-412-22
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-412-22
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-412-22
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-412-22
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-412-22
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-412-22
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-412-22
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-412-22
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-412-22
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-412-22

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	99.1	22.8-161		MS09-412-22
2-Fluorobiphenyl	321-60-8	75.3	26.3-121		MS09-412-22
2-Fluorophenol	367-12-4	49.6	10.0-86.4		MS09-412-22
Terphenyl-d14	1718-51-0	99.9	33.7-154		MS09-412-22
Nitrobenzene-d5	4165-60-0	74.7	12.7-139		MS09-412-22
Phenol-d6	13127-88-3	35.1	10.0-87.4		MS09-412-22

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

6

GC - PCB

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-05
Lab Sample ID: 14090712-01 (AR34433)

Collection Date: 09/23/2014 10:45
Sample Matrix: SOIL
Received Date: 09/23/2014 11:04
Percent Solid: 9.50 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC21F-2338-25	SW-846 8082A (PCB)	10/01/2014 15:09	JEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28732	EPA 3545A	09/30/2014 19:05	KFM	10.2 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.515	1.00	U	GC21F-2338-25
Aroclor 1221	11104-28-2	ND	0.515	1.00	U	GC21F-2338-25
Aroclor 1232	11141-16-5	ND	0.515	1.00	U	GC21F-2338-25
Aroclor 1242	53469-21-9	ND	0.515	1.00	U	GC21F-2338-25
Aroclor 1248	12672-29-6	ND	0.515	1.00	U	GC21F-2338-25
Aroclor 1254	11097-69-1	ND	0.515	1.00	U	GC21F-2338-25
Aroclor 1260	11096-82-5	ND	0.515	1.00	U	GC21F-2338-25
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC21F-2338-25

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	86.3	60.0-140		GC21F-2338-25
Decachlorobiphenyl	2051-24-3	64.3	60.0-140		GC21F-2338-25

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

7

GC - Pesticides

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-05
Lab Sample ID: 14090712-01 (AR34433)

Collection Date: 09/23/2014 10:45
Sample Matrix: SOIL(TCLP)
Received Date: 09/23/2014 11:04
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19F-2074-11	SW-846 8081B, Pesticides/TCLP Extraction M	09/28/2014 22:38	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28660	EPA 3535A	09/27/2014 11:20	KEN	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2074-11
Endrin	72-20-8	ND	0.0500	1.00	U	GC19F-2074-11
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19F-2074-11
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19F-2074-11
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19F-2074-11
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19F-2074-11
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2074-11

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	107	60.0-140		GC19F-2074-11
Decachlorobiphenyl	2051-24-3	98.3	60.0-140		GC19F-2074-11

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

8

GC - Herbicides

Pace Analytical®

Analytical Sample Results

Job Number: 14090712

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-05
Lab Sample ID: 14090712-01 (AR34433)

Collection Date: 09/23/2014 10:45
Sample Matrix: SOIL(TCLP)
Received Date: 09/23/2014 11:04
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-246-7	EPA 1978 pg.115 Herbicides/TCLP Method 13	09/30/2014 10:19	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28676	EPA 3510C	09/28/2014 10:00	MH	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-246-7
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-246-7

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	94.5	60.0-140		GC16-246-7

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: Lab modified method.

9

Mercury

Pace Analytical®

Analytical Sample Results

Job Number: 14090712

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-05
Lab Sample ID: 14090712-01 (AR34433)

Collection Date: 09/23/2014 10:45
Sample Matrix: SOIL(TCLP)
Received Date: 09/23/2014 11:04
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1696-16	SW-846 7470/TCLP 1311	09/29/2014 15:16	CYC	NA	NA	NA
Prep 1:	5010	EPA 7470A	09/29/2014 09:31	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1696-16

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

10

Metals - ICP

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-05
Lab Sample ID: 14090712-01 (AR34433)

Collection Date: 09/23/2014 10:45
Sample Matrix: SOIL(TCLP)
Received Date: 09/23/2014 11:04
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1318-38	EPA 6010C/TCLP 1311	09/30/2014 11:44	LMS	NA	NA	NA
Prep 1:	5009	EPA 3005A	09/29/2014 09:16	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1318-38
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1318-38
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1318-38
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1318-38
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1318-38
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1318-38
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1318-38

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Field)

Pace Analytical®

Quality Control Results
Matrix Spike Sample (MS)
Job Number: 14090712

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-05 MS
Lab Sample ID: 14090712-01M (AR34433M)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1696-18	SW-846 7470/TCLP 1311	09/29/2014 15:19	CYC	NA	NA	NA
Prep 1:	5010	EPA 7470A	09/29/2014 09:31	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	**0.0300**	0.0200	1.00		MER1-1696-18

Analyte Spiked	CAS No.	Sample (mg/L)	Added (mg/L)	MS (mg/L)	MS % Rec.	Q[1]	Limits (%)
Mercury	7439-97-6		0.0300	0.0300	100		75.0-125

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Pace Analytical Services, Inc.
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Phone: 518.346.4592
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Quality Control Results
Duplicate Sample

Job Number: 14090712

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-05 DUP
Lab Sample ID: 14090712-01D (AR34433D)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1696-17	SW-846 7470/TCLP 1311	09/29/2014 15:17	CYC	NA	NA	NA
Prep 1:	5010	EPA 7470A	09/29/2014 09:31	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1696-17

			Precision			
Analyte	CAS No.	Duplicate (mg/L)	Sample (mg/L)	RPD	Q[1]	Limits (%)
Mercury	7439-97-6	ND	ND			20

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Results
Matrix Spike Sample (MS)
Job Number: 14090712

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-05 MS
Lab Sample ID: 14090712-01M (AR34433M)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1318-40	EPA 6010C/TCLP 1311	09/30/2014 11:49	LMS	NA	NA	NA
Prep 1:	5009	EPA 3005A	09/29/2014 09:16	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	**13.0**	0.500	1.00		ICP2-1318-40
Barium	7440-39-3	**26.4**	1.00	1.00		ICP2-1318-40
Cadmium	7440-43-9	**5.23**	0.100	1.00		ICP2-1318-40
Chromium	7440-47-3	**12.4**	0.500	1.00		ICP2-1318-40
Lead	7439-92-1	**12.5**	0.500	1.00		ICP2-1318-40
Selenium	7782-49-2	**5.50**	0.250	1.00		ICP2-1318-40
Silver	7440-22-4	**12.4**	0.500	1.00		ICP2-1318-40

Analyte Spiked	CAS No.	Sample (mg/L)	Added (mg/L)	MS (mg/L)	MS % Rec.	Q[1]	Limits (%)
Arsenic	7440-38-2		12.5	13.0	104		75.0-125
Barium	7440-39-3		25.0	26.4	106		75.0-125
Cadmium	7440-43-9		5.00	5.23	105		75.0-125
Chromium	7440-47-3		12.5	12.4	99.3		75.0-125
Lead	7439-92-1		12.5	12.5	99.9		75.0-125
Selenium	7782-49-2		5.00	5.50	110		75.0-125
Silver	7440-22-4		12.5	12.4	98.9		75.0-125

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

12

Pace Analytical®

Quality Control Results
Duplicate Sample
Job Number: 14090712

Pace Analytical Services, Inc.
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Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-05 DUP
Lab Sample ID: 14090712-01D (AR34433D)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1318-39	EPA 6010C/TCLP 1311	09/30/2014 11:46	LMS	NA	NA	NA
Prep 1:	5009	EPA 3005A	09/29/2014 09:16	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1318-39
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1318-39
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1318-39
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1318-39
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1318-39
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1318-39
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1318-39

			Precision			
Analyte	CAS No.	Duplicate (mg/L)	Sample (mg/L)	RPD	Q[1]	Limits (%)
Arsenic	7440-38-2	ND	ND			20
Barium	7440-39-3	ND	ND			20
Cadmium	7440-43-9	ND	ND			20
Chromium	7440-47-3	ND	ND			20
Lead	7439-92-1	ND	ND			20
Selenium	7782-49-2	ND	ND			20
Silver	7440-22-4	ND	ND			20

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Samples (Lab)

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14090712

Pace Analytical Services, Inc.
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Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR33572L)
Lab Sample ID: LCS-94

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-255-4	EPA 8260C - TCLP-ZHE SW-846 1311	09/29/2014 10:14	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
1,1-Dichloroethene	75-35-4	40.0	39.9	99.7		70.0-130
1,2-Dichloroethane	107-06-2	40.0	41.0	102		70.0-130
2-Butanone	78-93-3	40.0	35.7	89.1		70.0-130
Benzene	71-43-2	40.0	41.4	104		70.0-130
Carbon Tetrachloride	56-23-5	40.0	43.5	109		70.0-130
Chlorobenzene	108-90-7	40.0	42.0	105		70.0-130
Chloroform	67-66-3	40.0	41.1	103		70.0-130
Tetrachloroethene	127-18-4	40.0	43.6	109		70.0-130
Trichloroethene	79-01-6	40.0	42.8	107		70.0-130
Vinyl Chloride	75-01-4	40.0	45.2	113		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	98.6	76.0-128		MS10-255-4
Dibromofluoromethane	1868-53-7	102	73.6-132		MS10-255-4
Toluene-d8	2037-26-5	99.4	84.4-115		MS10-255-4
1,2-Dichloroethane	17060-07-0	100	79.9-120		MS10-255-4

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14090712

Pace Analytical Services, Inc.
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Schenectady, NY 12308
Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR34433B-ZHE)
Lab Sample ID: VBLK-94

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-255-7	EPA 8260C - TCLP-ZHE SW-846 1311	09/29/2014 11:41	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-255-7
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-255-7
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-255-7
Benzene	71-43-2	ND	10.0	10.0	U	MS10-255-7
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-255-7
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-255-7
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-255-7
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-255-7
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-255-7
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-255-7

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	99.8	76.0-128		MS10-255-7
Dibromofluoromethane	1868-53-7	104	73.6-132		MS10-255-7
Toluene-d8	2037-26-5	94.7	84.4-115		MS10-255-7
1,2-Dichloroethane	17060-07-0	103	79.9-120		MS10-255-7

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

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Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR34535B)
Lab Sample ID: SBLK-71

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-412-18	SW-846 8270D/TCLP Extraction Method 1311	09/30/2014 13:12	RMS	NA	NA	N/A
Prep 1:	28699	EPA 3510C	09/27/2014 11:20	KEN	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-412-18
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-412-18
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-412-18
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-412-18
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-412-18
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-412-18
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-412-18
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-412-18
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-412-18
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-412-18
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-412-18
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-412-18

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	85.1	22.8-161		MS09-412-18
2-Fluorobiphenyl	321-60-8	67.2	26.3-121		MS09-412-18
2-Fluorophenol	367-12-4	38.8	10.0-86.4		MS09-412-18
Terphenyl-d14	1718-51-0	103	33.7-154		MS09-412-18
Nitrobenzene-d5	4165-60-0	66.0	12.7-139		MS09-412-18
Phenol-d6	13127-88-3	28.4	10.0-87.4		MS09-412-18

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Pace Analytical Services, Inc.
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Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR34535L)
Lab Sample ID: LCS-71

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-412-19	SW-846 8270D/TCLP Extraction Method 1311	09/30/2014 13:27	RMS	NA	NA	N/A
Prep 1:	28699	EPA 3510C	09/27/2014 11:20	KEN	200 mL	1.00 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
1,4-Dichlorobenzene	106-46-7	500	215	42.9		27.0-123
2,4,5-Trichlorophenol	95-95-4	500	301	60.2		30.0-128
2,4,6-Trichlorophenol	88-06-2	500	283	56.5		37.0-144
2,4-Dinitrotoluene	121-14-2	500	309	61.8		37.0-121
Hexachlorobenzene	118-74-1	500	337	67.4		42.0-117
Hexachlorobutadiene	87-68-3	500	190	37.9		31.0-110
Hexachloroethane	67-72-1	500	187	37.5		24.0-124
m&p-Methylphenol	108-39-4/106-44-5	1000	451	45.1		22.0-139
Nitrobenzene	98-95-3	500	247	49.4		34.0-119
o-Methylphenol	95-48-7	500	237	47.5		26.0-128
Pentachlorophenol	87-86-5	500	354	70.9		4.00-113
Pyridine	110-86-1	500	79.1	15.8		1.00-105

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	75.0	22.8-161		MS09-412-19
2-Fluorobiphenyl	321-60-8	56.6	26.3-121		MS09-412-19
2-Fluorophenol	367-12-4	35.5	10.0-86.4		MS09-412-19
Terphenyl-d14	1718-51-0	83.2	33.7-154		MS09-412-19
Nitrobenzene-d5	4165-60-0	57.5	12.7-139		MS09-412-19
Phenol-d6	13127-88-3	25.9	10.0-87.4		MS09-412-19

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Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR34433B)
Lab Sample ID: PBLK-03

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC21F-2338-23	SW-846 8082A (PCB)	10/01/2014 14:44	JEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28732	EPA 3545A	09/30/2014 19:04	KFM	10.2 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC21F-2338-23
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC21F-2338-23
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC21F-2338-23
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC21F-2338-23
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC21F-2338-23
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC21F-2338-23
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC21F-2338-23
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC21F-2338-23

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	101	60.0-140		GC21F-2338-23
Decachlorobiphenyl	2051-24-3	108	60.0-140		GC21F-2338-23

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14090712

Pace Analytical Services, Inc.
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Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR34433L)
Lab Sample ID: LCS-03

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC21F-2338-24	SW-846 8082A (PCB)	10/01/2014 14:57	JEB	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	28732	EPA 3545A	09/30/2014 19:05	KFM	10.0 g	25.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/g)	LCS (ug/g)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	1.25	1.23	99.1		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	103	60.0-140		GC21F-2338-24
Decachlorobiphenyl	2051-24-3	111	60.0-140		GC21F-2338-24

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14090712

Pace Analytical Services, Inc.
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Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR34444B)
Lab Sample ID: TBLK-87

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19F-2074-7	SW-846 8081B, Pesticides/TCLP Extraction M	09/28/2014 20:28	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28660	EPA 3535A	09/27/2014 11:20	KEN	200 mL	10.0 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
Chlordane	57-74-9	ND	2.50	1.00	U	GC19F-2074-7
Endrin	72-20-8	ND	0.0500	1.00	U	GC19F-2074-7
gamma-BHC	58-89-9	ND	0.0500	1.00	U	GC19F-2074-7
Heptachlor	76-44-8	ND	0.0500	1.00	U	GC19F-2074-7
Heptachlor Epoxide	1024-57-3	ND	0.0500	1.00	U	GC19F-2074-7
Methoxychlor	72-43-5	ND	0.0500	1.00	U	GC19F-2074-7
Toxaphene	8001-35-2	ND	5.00	1.00	U	GC19F-2074-7

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	99.9	60.0-140		GC19F-2074-7
Decachlorobiphenyl	2051-24-3	94.8	60.0-140		GC19F-2074-7

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14090712

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR34444L)
Lab Sample ID: LCS-87

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC19F-2074-8	SW-846 8081B, Pesticides/TCLP Extraction M	09/28/2014 21:01	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28660	EPA 3535A	09/27/2014 11:20	KEN	200 mL	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
Endrin	72-20-8	1.00	0.875	87.5		70.0-130
gamma-BHC	58-89-9	1.00	0.961	96.1		70.0-130
Heptachlor	76-44-8	1.00	0.852	85.2		70.0-130
Heptachlor Epoxide	1024-57-3	1.00	0.970	97.0		70.0-130
Methoxychlor	72-43-5	1.00	0.918	91.8		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	88.3	60.0-140		GC19F-2074-8
Decachlorobiphenyl	2051-24-3	65.3	60.0-140		GC19F-2074-8

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14090712

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR34433B)
Lab Sample ID: HBLK-81

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-246-5	EPA 1978 pg.115 Herbicides/TCLP Method 13	09/30/2014 09:43	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28676	EPA 3510C	09/28/2014 10:00	MH	200 mL	5.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
2,4,5-TP,SILVEX	93-72-1	ND	5.00	20.0	U	GC16-246-5
2,4-D	94-75-7	ND	5.00	20.0	U	GC16-246-5

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	75.0	60.0-140		GC16-246-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: Lab modified method.

13

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14090712

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR34433L)
Lab Sample ID: LCS-81

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-246-6	EPA 1978 pg.115 Herbicides/TCLP Method 13	09/30/2014 10:01	JEB	NA	NA	Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 µm
Prep 1:	28676	EPA 3510C	09/28/2014 10:00	MH	200 mL	5.00 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
2,4,5-TP,SILVEX	93-72-1	12.5	10.9	86.9		70.0-130
2,4-D	94-75-7	12.5	11.4	90.9		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2 4-DB	94-82-6	103	60.0-140		GC16-246-6

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Note: Lab modified method.

13

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14090712

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR34433B)
Lab Sample ID: PBW-91

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1696-14	SW-846 7470/TCLP 1311	09/29/2014 15:12	CYC	NA	NA	NA
Prep 1:	5010	EPA 7470A	09/29/2014 09:31	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1696-14

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14090712

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR34433L)
Lab Sample ID: LCS-91

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1696-15	SW-846 7470/TCLP 1311	09/29/2014 15:14	CYC	NA	NA	NA
Prep 1:	5010	EPA 7470A	09/29/2014 09:31	CYC	4.00 mL	40.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q[1]	Limits (%)
Mercury	7439-97-6	0.0300	0.0303	101		80.0-120

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR34433B)
Lab Sample ID: PBW-90

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1318-29	EPA 6010C/TCLP 1311	09/30/2014 11:21	LMS	NA	NA	NA
Prep 1:	5009	EPA 3005A	09/29/2014 09:16	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1318-29
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1318-29
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1318-29
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1318-29
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1318-29
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1318-29
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1318-29

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14090712

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR34433L)
Lab Sample ID: LCS-90

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1318-30	EPA 6010C/TCLP 1311	09/30/2014 11:23	LMS	NA	NA	NA
Prep 1:	5009	EPA 3005A	09/29/2014 09:16	CYC	10.0 mL	50.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q[1]	Limits (%)
Arsenic	7440-38-2	12.5	13.4	107		85.0-115
Barium	7440-39-3	25.0	26.9	108		85.0-115
Cadmium	7440-43-9	5.00	5.51	110		85.0-115
Chromium	7440-47-3	12.5	13.0	104		85.0-115
Lead	7439-92-1	12.5	13.1	105		85.0-115
Selenium	7782-49-2	5.00	5.61	112		85.0-115
Silver	7440-22-4	12.5	12.7	102		85.0-115

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

13

Pace Analytical e-Report

***Issuance of this report is prior to full data package.**

Report prepared for:
BARTON AND LOGUIDICE
10 AIRLINE DRIVE
ALBANY, NY 12205
CONTACT: ANDY BARBER

Project ID: ALCO
Sampling Date(s): October 17, 2014
Lab Report ID: 14100601
Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included:
VOCs by GCMS
Mercury Analysis
Metals by ICP (Custom)

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within the document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Dan Pfalzer
Laboratory Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc. | 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

QUALIFIERS

Qualifier Definitions

Organic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate recovery not evaluated against control limits due to sample dilution.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

Inorganic Laboratory Qualifiers

B - Denotes analyte observed in associated method blank or digestion blank. Analyte concentration should be considered as estimated.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

Pace Analytical™
www.pacelabs.com

New York Office
2190 Technology Dr.
Schenectady, NY 12308
(518) 346-4592

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<14100601P1>

141006011

Page: 1 of 1

Section A Required Client Information:

Company:	Barton and Loguidice DPC
Address:	10 Airline Drive, Suite 200
	Albany, NY 12205
Email To:	rmccormick@bartonandloguidice.c
Phone:	518-218-1801 Fax: 518-218-1805
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	Andy Barber
Copy To:	Rosemary McCormick
Purchase Order No.:	
Project Name:	ALCO
Project Number:	1368.001.001

Section C Invoice Information:

Attention:	Accounts Payable
Company Name:	Barton and Loguidice, DPC
Address:	290 Elwood Davis Road, Box 3107 Syracuse NY, 13220
Pace Quote Reference:	
Pace Project Manager:	Kelly Miller
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER________

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER_____

Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOC total by 8260	RCRA Metals total	Antimony, Beryllium	Nickel, Thallium	Vanadium, Zinc	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-05	SL	C	10/17	10:00	—	—		2	X								X	X	X	X	X		AR40048
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Rose McCormick	10/17	10:10	[illegible] (PACE)	10/17/14	10:10	10.5	Y	N	Y
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY):

Pace Analytical

Sample Condition Upon Receipt

<14100601P2>

141006012

CLIENT NAME: B & L

PROJECT : ALCO

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐

TRACKING # N/A

CUSTODY SEAL PRESENT: Yes ☒ No ☐ INTACT: Yes ☒ No ☐ N/A ☐

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ☐

ICE USED: Wet ☒ Blue ☐ None ☐

THERMOMETER USED: #164 ☒ IR Gun 03 ☐ #122087967 ☐

COOLER TEMPERATURE (°C): 10.5

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒

Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☐Yes	☒No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☐Yes	☒No		12. Sample ID on coc "B-05" does not match client labels "B-06". Collection times/dates match CoC.
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13. Soil samples for 8260 analysis not preserved per collection method 5035 guidance.
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	☐Yes	☐No	☒N/A	Initial when completed: AJB / Lot # of added preservative: N/A
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: N/A				

Sample Receipt form filled in: AJB 10/18/14

Line-Out (Includes Copying Shipping Documents and verifying sample pH): AJB 10/18/14

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): CJP 10/17/14

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): AJB 10/18/14

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
14100601

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE
PROJECT: ALCO
LRF: 14100601
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: 7 DAYS

RECEIVED DATE: 10/17/2014 10:10
SHIPPED VIA: DROP OFF [1,2]
SHIPPING ID: R.MCCORMICK/ B&L
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: CHILLED
TEMPERATURE(S): [5] 10.5 °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: NO
[3] SAMPLES REC'D IN HOLDTIME: YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: YES

COMMENTS:
SOIL SAMPLES FOR 8260 ANALYSIS NOT PRESERVED PER COLLECTION MEHTOD 5035 GUIDANCE.

SAMPLE ID ON COC "D-05" DOES NOT MATCH SAMPLE ID ON CLIENT LABELS "D-06"- COLLECTION DATES AND TIMES MATCH COC.

3

CLIENT ID (LAB ID)	TAT-DUE Date [4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-05 (AR40048)	7 DAYS 10-28-14	10/17/2014 10:00	Soil	EPA 6010C	Metals by ICP (Custom)	
	7 DAYS 10-28-14	10/17/2014 10:00	Soil	EPA 7471B	Mercury Analysis	
	7 DAYS 10-28-14	10/17/2014 10:00	Soil	EPA 8260C	VOCs by GCMS	

[1] The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.
[2] The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3] Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4] Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5] All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

Reporting Parameters and Lists

EPA 6010C - Metals by ICP (Custom) - (mg/kg)
- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromium
- Lead
- Nickel
- Selenium
- Silver
- Thallium
- Vanadium
- Zinc

EPA 7471B - Mercury Analysis - (mg/kg)
- Mercury

EPA 8260C - VOCs by GCMS - (ug/kg)
- 1,1,1,2-Tetrachloroethane
- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,1-Dichloropropene
- 1,2,3-Trichlorobenzene
- 1,2,3-Trichloropropane
- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,2-Dibromo-3-chloropropane
- 1,2-Dibromoethane
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dichloropropane
- 1,3,5-Trimethylbenzene
- 1,3-Dichlorobenzene
- 1,3-Dichloropropane
- 1,4-Dichlorobenzene
- 2,2-Dichloropropane
- 2-Butanone
- 2-Chlorotoluene
- 2-Hexanone
- 4-Chlorotoluene
- 4-Isopropyltoluene
- 4-Methyl-2-pentanone
- Acetone
- Benzene
- Bromobenzene
- Bromochloromethane

EPA 8260C - VOCs by GCMS - (ug/kg)
- Bromodichloromethane
- Bromoform
- Bromomethane
- Carbon Disulfide
- Carbon Tetrachloride
- Chlorobenzene
- Chloroethane
- Chloroform
- Chloromethane
- cis-1,2-Dichloroethene
- cis-1,3-Dichloropropene
- Dibromochloromethane
- Dibromomethane
- Dichlorodifluoromethane
- Ethylbenzene
- Hexachlorobutadiene
- Isopropylbenzene
- m&p-Xylene
- Methylene Chloride
- Methyl-tert-butyl-ether (MTBE)
- Naphthalene
- n-Butylbenzene
- n-Propylbenzene
- o-Xylene
- sec-Butylbenzene
- Styrene
- tert-Butylbenzene
- Tetrachloroethene
- Toluene
- Total Xylenes
- trans-1,2-Dichloroethene

Pace Analytical Services, Inc.
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Phone: 518.346.4592
Fax: 518.381.6055

Continued...

EPA 8260C - VOCs by GCMS - (ug/kg)

trans-1,3-Dichloropropene
Trichloroethene
Trichlorofluoromethane
Vinyl Acetate
Vinyl Chloride

GC/MS Volatiles

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-06
Lab Sample ID: 14100601-01 (AR40048)

Collection Date: 10/17/2014 10:00
Sample Matrix: SOIL
Received Date: 10/17/2014 10:10
Percent Solid: 81.4 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-284-10	EPA Method 8260C	10/22/2014 14:51	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
Prep 1:	2477	EPA 5035A-H	10/22/2014 13:39	RF	4.90 g	10.0 mL	NA

Analyte	CAS No.	Result (ug/kg)	PQL	Dilution Factor	Flags	File ID
1,1,1,2-Tetrachloroethane	630-20-6	ND	125	50.0	U	MS10-284-10
1,1,1-Trichloroethane	71-55-6	ND	125	50.0	U	MS10-284-10
1,1,2,2-Tetrachloroethane	79-34-5	ND	125	50.0	U	MS10-284-10
1,1,2-Trichloroethane	79-00-5	ND	125	50.0	U	MS10-284-10
1,1-Dichloroethane	75-34-3	ND	125	50.0	U	MS10-284-10
1,1-Dichloroethene	75-35-4	ND	125	50.0	U	MS10-284-10
1,1-Dichloropropene	563-58-6	ND	125	50.0	U	MS10-284-10
1,2,3-Trichlorobenzene	87-61-6	ND	125	50.0	U	MS10-284-10
1,2,3-Trichloropropane	96-18-4	ND	125	50.0	U	MS10-284-10
1,2,4-Trichlorobenzene	120-82-1	ND	125	50.0	U	MS10-284-10
1,2,4-Trimethylbenzene	95-63-6	**651**	125	50.0		MS10-284-10
1,2-Dibromo-3-chloropropane	96-12-8	ND	125	50.0	U	MS10-284-10
1,2-Dibromoethane	106-93-4	ND	125	50.0	U	MS10-284-10
1,2-Dichlorobenzene	95-50-1	ND	125	50.0	U	MS10-284-10
1,2-Dichloroethane	107-06-2	ND	125	50.0	U	MS10-284-10
1,2-Dichloropropane	78-87-5	ND	125	50.0	U	MS10-284-10
1,3,5-Trimethylbenzene	108-67-8	**213**	125	50.0		MS10-284-10
1,3-Dichlorobenzene	541-73-1	ND	125	50.0	U	MS10-284-10
1,3-Dichloropropane	142-28-9	ND	125	50.0	U	MS10-284-10
1,4-Dichlorobenzene	106-46-7	ND	125	50.0	U	MS10-284-10
2,2-Dichloropropane	594-20-7	ND	125	50.0	U	MS10-284-10
2-Butanone	78-93-3	ND	627	50.0	U	MS10-284-10
2-Chlorotoluene	95-49-8	ND	125	50.0	U	MS10-284-10
2-Hexanone	591-78-6	ND	627	50.0	U	MS10-284-10
4-Chlorotoluene	106-43-4	ND	125	50.0	U	MS10-284-10
4-Isopropyltoluene	99-87-6	**285**	125	50.0		MS10-284-10
4-Methyl-2-pentanone	108-10-1	ND	627	50.0	U	MS10-284-10
Acetone	67-64-1	ND	1250	50.0	U	MS10-284-10
Benzene	71-43-2	ND	125	50.0	U	MS10-284-10
Bromobenzene	108-86-1	ND	125	50.0	U	MS10-284-10
Bromochloromethane	74-97-5	ND	125	50.0	U	MS10-284-10
Bromodichloromethane	75-27-4	ND	125	50.0	U	MS10-284-10
Bromoform	75-25-2	ND	125	50.0	U	MS10-284-10
Bromomethane	74-83-9	ND	125	50.0	U	MS10-284-10
Carbon Disulfide	75-15-0	ND	125	50.0	U	MS10-284-10
Carbon Tetrachloride	56-23-5	ND	125	50.0	U	MS10-284-10
Chlorobenzene	108-90-7	ND	125	50.0	U	MS10-284-10
Chloroethane	75-00-3	ND	125	50.0	U	MS10-284-10
Chloroform	67-66-3	ND	125	50.0	U	MS10-284-10
Chloromethane	74-87-3	ND	125	50.0	U	MS10-284-10
cis-1,2-Dichloroethene	156-59-2	ND	125	50.0	U	MS10-284-10
cis-1,3-Dichloropropene	10061-01-5	ND	125	50.0	U	MS10-284-10
Dibromochloromethane	124-48-1	ND	125	50.0	U	MS10-284-10
Dibromomethane	74-95-3	ND	125	50.0	U	MS10-284-10

Pace Analytical Services, Inc.
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-06
Lab Sample ID: 14100601-01 (AR40048)

Collection Date: 10/17/2014 10:00
Sample Matrix: SOIL
Received Date: 10/17/2014 10:10
Percent Solid: 81.4 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-284-10	EPA Method 8260C	10/22/2014 14:51	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
Prep 1:	2477	EPA 5035A-H	10/22/2014 13:39	RF	4.90 g	10.0 mL	NA

Analyte	CAS No.	Result (ug/kg)	PQL	Dilution Factor	Flags	File ID
Dichlorodifluoromethane	75-71-8	ND	125	50.0	U	MS10-284-10
Ethylbenzene	100-41-4	**174**	125	50.0		MS10-284-10
Hexachlorobutadiene	87-68-3	ND	125	50.0	U	MS10-284-10
Isopropylbenzene	98-82-8	**796**	125	50.0		MS10-284-10
m&p-Xylene	136777-61-2	**228**	125	50.0		MS10-284-10
Methylene Chloride	75-09-2	ND	125	50.0	U	MS10-284-10
Methyl-tert-butyl-ether (MTBE)	1634-04-4	ND	125	50.0	U	MS10-284-10
Naphthalene	91-20-3	**1040**	125	50.0		MS10-284-10
n-Butylbenzene	104-51-8	**1690**	125	50.0		MS10-284-10
n-Propylbenzene	103-65-1	**1400**	125	50.0		MS10-284-10
o-Xylene	95-47-6	**148**	125	50.0		MS10-284-10
sec-Butylbenzene	135-98-8	**1420**	125	50.0		MS10-284-10
Styrene	100-42-5	ND	125	50.0	U	MS10-284-10
tert-Butylbenzene	98-06-6	ND	125	50.0	U	MS10-284-10
Tetrachloroethene	127-18-4	ND	125	50.0	U	MS10-284-10
Toluene	108-88-3	ND	125	50.0	U	MS10-284-10
Total Xylenes	1330-20-7	**376**	125	50.0		MS10-284-10
trans-1,2-Dichloroethene	156-60-5	ND	125	50.0	U	MS10-284-10
trans-1,3-Dichloropropene	10061-02-6	ND	125	50.0	U	MS10-284-10
Trichloroethene	79-01-6	ND	125	50.0	U	MS10-284-10
Trichlorofluoromethane	75-69-4	ND	125	50.0	U	MS10-284-10
Vinyl Acetate	108-05-4	ND	125	50.0	U	MS10-284-10
Vinyl Chloride	75-01-4	ND	125	50.0	U	MS10-284-10

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Bromofluorobenzene	460-00-4	128	39.5-171		MS10-284-10
Dibromofluoromethane	1868-53-7	99.6	72.2-133		MS10-284-10
toluene-d8	2037-26-5	99.5	82.5-117		MS10-284-10
1,2-Dichloroethane-d4	17060-07-0	98.8	87.1-117		MS10-284-10

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Sample not collected in accordance with Method 5035/5035A. All results below 200 ppb should be considered potentially biased low. Please see Case Narrative.

Mercury

Pace Analytical Services, Inc.
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-06
Lab Sample ID: 14100601-01 (AR40048)

Collection Date: 10/17/2014 10:00
Sample Matrix: SOIL
Received Date: 10/17/2014 10:10
Percent Solid: 81.4 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1728-16	SW-846 7471B	10/23/2014 14:55	CYC	NA	NA	NA
Prep 1:	5101	EPA 7471B	10/22/2014 11:24	CYC	0.190 g	40.0 mL	NA

Analyte	CAS No.	Result (mg/kg)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0517	1.00	U	MER1-1728-16

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Metals - ICP

Pace Analytical Services, Inc.
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-06
Lab Sample ID: 14100601-01 (AR40048)

Collection Date: 10/17/2014 10:00
Sample Matrix: SOIL
Received Date: 10/17/2014 10:10
Percent Solid: 81.4 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1360-30	SW-846 6010C	10/27/2014 12:14	LMS	NA	NA	NA
Prep 1:	5102	EPA 3050B	10/22/2014 11:25	CYC	0.491 g	50.0 mL	NA

Analyte	CAS No.	Result (mg/kg)	PQL	Dilution Factor	Flags	File ID
Antimony	7440-36-0	ND	0.626	1.00	U	ICP2-1360-30
Arsenic	7440-38-2	**3.53**	0.626	1.00		ICP2-1360-30
Barium	7440-39-3	**76.7**	0.626	1.00		ICP2-1360-30
Beryllium	7440-41-7	**0.595**	0.501	1.00		ICP2-1360-30
Cadmium	7440-43-9	ND	0.501	1.00	U	ICP2-1360-30
Chromium	7440-47-3	**14.7**	0.626	1.00		ICP2-1360-30
Lead	7439-92-1	**11.3**	0.626	1.00		ICP2-1360-30
Nickel	7440-02-0	**20.6**	0.626	1.00		ICP2-1360-30
Selenium	7782-49-2	ND	1.25	1.00	U	ICP2-1360-30
Silver	7440-22-4	ND	0.876	1.00	U	ICP2-1360-30
Thallium	7440-28-0	ND	1.25	1.00	U	ICP2-1360-30
Vanadium	7440-62-2	**19.6**	0.626	1.00		ICP2-1360-30
Zinc	7440-66-6	**59.0**	0.626	1.00		ICP2-1360-30

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
($) NYSDOH does not currently offer certification for this analyte.

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Quality Control Samples (Lab)

Pace Analytical Services, Inc.
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Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR38080B)
Lab Sample ID: VBLK-91

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-284-5	EPA Method 8260C	10/22/2014 12:30	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
Prep 1:	2477	EPA 5035A-H	10/22/2014 11:31	TJH	4.89 g	10.0 mL	NA

Analyte	CAS No.	Result (ug/kg)	PQL	Dilution Factor	Flags	File ID
1,1,1,2-Tetrachloroethane	630-20-6	ND	102	50.0	U	MS10-284-5
1,1,1-Trichloroethane	71-55-6	ND	102	50.0	U	MS10-284-5
1,1,2,2-Tetrachloroethane	79-34-5	ND	102	50.0	U	MS10-284-5
1,1,2-Trichloroethane	79-00-5	ND	102	50.0	U	MS10-284-5
1,1-Dichloroethane	75-34-3	ND	102	50.0	U	MS10-284-5
1,1-Dichloroethene	75-35-4	ND	102	50.0	U	MS10-284-5
1,1-Dichloropropene	563-58-6	ND	102	50.0	U	MS10-284-5
1,2,3-Trichlorobenzene	87-61-6	ND	102	50.0	U	MS10-284-5
1,2,3-Trichloropropane	96-18-4	ND	102	50.0	U	MS10-284-5
1,2,4-Trichlorobenzene	120-82-1	ND	102	50.0	U	MS10-284-5
1,2,4-Trimethylbenzene	95-63-6	ND	102	50.0	U	MS10-284-5
1,2-Dibromo-3-chloropropane	96-12-8	ND	102	50.0	U	MS10-284-5
1,2-Dibromoethane	106-93-4	ND	102	50.0	U	MS10-284-5
1,2-Dichlorobenzene	95-50-1	ND	102	50.0	U	MS10-284-5
1,2-Dichloroethane	107-06-2	ND	102	50.0	U	MS10-284-5
1,2-Dichloropropane	78-87-5	ND	102	50.0	U	MS10-284-5
1,3,5-Trimethylbenzene	108-67-8	ND	102	50.0	U	MS10-284-5
1,3-Dichlorobenzene	541-73-1	ND	102	50.0	U	MS10-284-5
1,3-Dichloropropane	142-28-9	ND	102	50.0	U	MS10-284-5
1,4-Dichlorobenzene	106-46-7	ND	102	50.0	U	MS10-284-5
2,2-Dichloropropane	594-20-7	ND	102	50.0	U	MS10-284-5
2-Butanone	78-93-3	ND	511	50.0	U	MS10-284-5
2-Chlorotoluene	95-49-8	ND	102	50.0	U	MS10-284-5
2-Hexanone	591-78-6	ND	511	50.0	U	MS10-284-5
4-Chlorotoluene	106-43-4	ND	102	50.0	U	MS10-284-5
4-Isopropyltoluene	99-87-6	ND	102	50.0	U	MS10-284-5
4-Methyl-2-pentanone	108-10-1	ND	511	50.0	U	MS10-284-5
Acetone	67-64-1	ND	1020	50.0	U	MS10-284-5
Benzene	71-43-2	ND	102	50.0	U	MS10-284-5
Bromobenzene	108-86-1	ND	102	50.0	U	MS10-284-5
Bromochloromethane	74-97-5	ND	102	50.0	U	MS10-284-5
Bromodichloromethane	75-27-4	ND	102	50.0	U	MS10-284-5
Bromoform	75-25-2	ND	102	50.0	U	MS10-284-5
Bromomethane	74-83-9	ND	102	50.0	U	MS10-284-5
Carbon Disulfide	75-15-0	ND	102	50.0	U	MS10-284-5
Carbon Tetrachloride	56-23-5	ND	102	50.0	U	MS10-284-5
Chlorobenzene	108-90-7	ND	102	50.0	U	MS10-284-5
Chloroethane	75-00-3	ND	102	50.0	U	MS10-284-5
Chloroform	67-66-3	ND	102	50.0	U	MS10-284-5
Chloromethane	74-87-3	ND	102	50.0	U	MS10-284-5
cis-1,2-Dichloroethene	156-59-2	ND	102	50.0	U	MS10-284-5
cis-1,3-Dichloropropene	10061-01-5	ND	102	50.0	U	MS10-284-5
Dibromochloromethane	124-48-1	ND	102	50.0	U	MS10-284-5
Dibromomethane	74-95-3	ND	102	50.0	U	MS10-284-5

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Phone: 518.346.4592
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Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR38080B)
Lab Sample ID: VBLK-91

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-284-5	EPA Method 8260C	10/22/2014 12:30	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
Prep 1:	2477	EPA 5035A-H	10/22/2014 11:31	TJH	4.89 g	10.0 mL	NA

Analyte	CAS No.	Result (ug/kg)	PQL	Dilution Factor	Flags	File ID
Dichlorodifluoromethane	75-71-8	ND	102	50.0	U	MS10-284-5
Ethylbenzene	100-41-4	ND	102	50.0	U	MS10-284-5
Hexachlorobutadiene	87-68-3	ND	102	50.0	U	MS10-284-5
Isopropylbenzene	98-82-8	ND	102	50.0	U	MS10-284-5
m&p-Xylene	136777-61-2	ND	102	50.0	U	MS10-284-5
Methylene Chloride	75-09-2	ND	102	50.0	U	MS10-284-5
Methyl-tert-butyl-ether (MTBE)	1634-04-4	ND	102	50.0	U	MS10-284-5
Naphthalene	91-20-3	ND	102	50.0	U	MS10-284-5
n-Butylbenzene	104-51-8	ND	102	50.0	U	MS10-284-5
n-Propylbenzene	103-65-1	ND	102	50.0	U	MS10-284-5
o-Xylene	95-47-6	ND	102	50.0	U	MS10-284-5
sec-Butylbenzene	135-98-8	ND	102	50.0	U	MS10-284-5
Styrene	100-42-5	ND	102	50.0	U	MS10-284-5
tert-Butylbenzene	98-06-6	ND	102	50.0	U	MS10-284-5
Tetrachloroethene	127-18-4	ND	102	50.0	U	MS10-284-5
Toluene	108-88-3	ND	102	50.0	U	MS10-284-5
Total Xylenes	1330-20-7	ND	102	50.0	U	MS10-284-5
trans-1,2-Dichloroethene	156-60-5	ND	102	50.0	U	MS10-284-5
trans-1,3-Dichloropropene	10061-02-6	ND	102	50.0	U	MS10-284-5
Trichloroethene	79-01-6	ND	102	50.0	U	MS10-284-5
Trichlorofluoromethane	75-69-4	ND	102	50.0	U	MS10-284-5
Vinyl Acetate	108-05-4	ND	102	50.0	U	MS10-284-5
Vinyl Chloride	75-01-4	ND	102	50.0	U	MS10-284-5

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Bromofluorobenzene	460-00-4	92.9	39.5-171		MS10-284-5
Dibromofluoromethane	1868-53-7	100	72.2-133		MS10-284-5
toluene-d8	2037-26-5	100	82.5-117		MS10-284-5
1,2-Dichloroethane-d4	17060-07-0	95.2	87.1-117		MS10-284-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)

Job Number: 14100601

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Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR38080L)
Lab Sample ID: LCS-91

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-284-3	EPA Method 8260C	10/22/2014 11:44	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
Prep 1:	2477	EPA 5035A-H	10/22/2014 11:31	TJH	4.76 g	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/kg)	LCS (ug/kg)	LCS % Rec.	Q[1]	Limits (%)
1,1,1,2-Tetrachloroethane	630-20-6	4210	4000	95.1		70.0-130
1,1,1-Trichloroethane	71-55-6	4210	3880	92.2		70.0-130
1,1,2,2-Tetrachloroethane	79-34-5	4210	3800	90.4		70.0-130
1,1,2-Trichloroethane	79-00-5	4210	3930	93.5		70.0-130
1,1-Dichloroethane	75-34-3	4210	3840	91.4		70.0-130
1,1-Dichloroethene	75-35-4	4210	3950	94.0		70.0-130
1,1-Dichloropropene	563-58-6	4210	4110	97.7		70.0-130
1,2,3-Trichlorobenzene	87-61-6	4210	2620	62.2	*	70.0-130
1,2,3-Trichloropropane	96-18-4	4210	4030	95.9		70.0-130
1,2,4-Trichlorobenzene	120-82-1	4210	3450	81.9		70.0-130
1,2,4-Trimethylbenzene	95-63-6	4210	4360	104		70.0-130
1,2-Dibromo-3-chloropropane	96-12-8	4210	4160	98.9		70.0-130
1,2-Dibromoethane	106-93-4	4210	4080	97.0		70.0-130
1,2-Dichlorobenzene	95-50-1	4210	4370	104		70.0-130
1,2-Dichloroethane	107-06-2	4210	3700	88.0		70.0-130
1,2-Dichloropropane	78-87-5	4210	3920	93.2		70.0-130
1,3,5-Trimethylbenzene	108-67-8	4210	4650	110		70.0-130
1,3-Dichlorobenzene	541-73-1	4210	4390	104		70.0-130
1,3-Dichloropropane	142-28-9	4210	4040	96.0		70.0-130
1,4-Dichlorobenzene	106-46-7	4210	4170	99.1		70.0-130
2,2-Dichloropropane	594-20-7	4210	4080	97.0		70.0-130
2-Butanone	78-93-3	4210	3590	85.5		70.0-130
2-Chlorotoluene	95-49-8	4210	4330	103		70.0-130
2-Hexanone	591-78-6	4210	4010	95.5		70.0-130
4-Chlorotoluene	106-43-4	4210	4410	105		70.0-130
4-Isopropyltoluene	99-87-6	4210	4590	109		70.0-130
4-Methyl-2-pentanone	108-10-1	4210	4250	101		70.0-130
Acetone	67-64-1	4210	2060	49.1	*	70.0-130
Benzene	71-43-2	4210	3620	86.1		70.0-130
Bromobenzene	108-86-1	4210	4000	95.2		70.0-130
Bromochloromethane	74-97-5	4210	3470	82.5		70.0-130
Bromodichloromethane	75-27-4	4210	4100	97.6		70.0-130
Bromoform	75-25-2	4210	4150	98.6		70.0-130
Bromomethane	74-83-9	4210	3950	94.0		70.0-130
Carbon Disulfide	75-15-0	4210	3810	90.7		70.0-130
Carbon Tetrachloride	56-23-5	4210	3700	87.9		70.0-130
Chlorobenzene	108-90-7	4210	3920	93.2		70.0-130
Chloroethane	75-00-3	4210	1930	45.9	*	70.0-130
Chloroform	67-66-3	4210	3740	89.0		70.0-130
Chloromethane	74-87-3	4210	3600	85.7		70.0-130
cis-1,2-Dichloroethene	156-59-2	4210	3790	90.1		70.0-130
cis-1,3-Dichloropropene	10061-01-5	4210	4230	101		70.0-130
Dibromochloromethane	124-48-1	4210	4110	97.6		70.0-130
Dibromomethane	74-95-3	4210	3800	90.3		70.0-130
Dichlorodifluoromethane	75-71-8	4210	3600	85.7		70.0-130
Ethylbenzene	100-41-4	4210	4170	99.2		70.0-130
Hexachlorobutadiene	87-68-3	4210	4680	111		70.0-130
Isopropylbenzene	98-82-8	4210	4050	96.4		70.0-130
m&p-Xylene	136777-61-2	8410	8800	105		70.0-130
Methylene Chloride	75-09-2	4210	3540	84.2		70.0-130
Methyl-tert-butyl-ether (MTBE)	1634-04-4	4210	3850	91.6		70.0-130
Naphthalene	91-20-3	4210	3200	76.1		70.0-130

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR38080L)
Lab Sample ID: LCS-91

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-284-3	EPA Method 8260C	10/22/2014 11:44	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
Prep 1:	2477	EPA 5035A-H	10/22/2014 11:31	TJH	4.76 g	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/kg)	LCS (ug/kg)	LCS % Rec.	Q[1]	Limits (%)
n-Butylbenzene	104-51-8	4210	5030	120		70.0-130
n-Propylbenzene	103-65-1	4210	4170	99.2		70.0-130
o-Xylene	95-47-6	4210	4480	107		70.0-130
sec-Butylbenzene	135-98-8	4210	4320	103		70.0-130
Styrene	100-42-5	4210	4370	104		70.0-130
tert-Butylbenzene	98-06-6	4210	4280	102		70.0-130
Tetrachloroethene	127-18-4	4210	4220	100		70.0-130
Toluene	108-88-3	4210	3610	85.8		70.0-130
Total Xylenes	1330-20-7	12600	13300	105		70.0-130
trans-1,2-Dichloroethene	156-60-5	4210	3820	90.8		70.0-130
trans-1,3-Dichloropropene	10061-02-6	4210	4090	97.4		70.0-130
Trichloroethene	79-01-6	4210	3680	87.4		70.0-130
Trichlorofluoromethane	75-69-4	4210	3910	93.1		70.0-130
Vinyl Acetate	108-05-4	4210	3860	91.7		70.0-130
Vinyl Chloride	75-01-4	4210	3730	88.7		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Bromofluorobenzene	460-00-4	101	39.5-171		MS10-284-3
Dibromofluoromethane	1868-53-7	96.7	72.2-133		MS10-284-3
toluene-d8	2037-26-5	104	82.5-117		MS10-284-3
1,2-Dichloroethane-d4	17060-07-0	102	87.1-117		MS10-284-3

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted out.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14100601

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR40181B)
Lab Sample ID: PBS-72

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1728-13	SW-846 7471B	10/23/2014 14:50	CYC	NA	NA	NA
Prep 1:	5101	EPA 7471B	10/22/2014 11:19	CYC	0.202 g	40.0 mL	NA

Analyte	CAS No.	Result (mg/kg)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0396	1.00	U	MER1-1728-13

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

7

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Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Quality Control Results
Lab Control Sample (LCS)

Job Number: 14100601

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR40181L)
Lab Sample ID: LCS-72

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1728-14	SW-846 7471B	10/23/2014 14:52	CYC	NA	NA	NA
Prep 1:	5101	EPA 7471B	10/22/2014 11:22	CYC	0.201 g	40.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/kg)	LCS (mg/kg)	LCS % Rec.	Q[1]	Limits (%)
Mercury	7439-97-6	5.76	5.70	98.9		71.2-129

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

7

Pace Analytical®

Quality Control Results
Lab Control Sample - Duplicate (LCSD)

Job Number: 14100601

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample - Duplicate (AR40181S)
Lab Sample ID: LCSD-72

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1728-15	SW-846 7471B	10/23/2014 14:53	CYC	NA	NA	NA
Prep 1:	5101	EPA 7471B	10/22/2014 11:23	CYC	0.197 g	40.0 mL	NA

							Precision			
Analyte Spiked	**CAS No.**	**Added (mg/kg)**	**LCSD (mg/kg)**	**LCSD % Rec.**	**Q[1]**	**Limits (%)**	**LCS % Rec.**	**RPD**	**Q[1]**	**Limits (%)**
Mercury	7439-97-6	5.76	5.29	91.8		71.2-129	98.9	7.45		20

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

7

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14100601

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR40181B)
Lab Sample ID: PBS-73

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1360-27	SW-846 6010C	10/27/2014 12:07	LMS	NA	NA	NA
Prep 1:	5102	EPA 3050B	10/22/2014 11:20	CYC	0.493 g	50.0 mL	NA

Analyte	CAS No.	Result (mg/kg)	PQL	Dilution Factor	Flags	File ID
Antimony	7440-36-0	ND	0.508	1.00	U	ICP2-1360-27
Arsenic	7440-38-2	ND	0.508	1.00	U	ICP2-1360-27
Barium	7440-39-3	ND	0.508	1.00	U	ICP2-1360-27
Beryllium	7440-41-7	ND	0.406	1.00	U	ICP2-1360-27
Cadmium	7440-43-9	ND	0.406	1.00	U	ICP2-1360-27
Chromium	7440-47-3	ND	0.508	1.00	U	ICP2-1360-27
Lead	7439-92-1	ND	0.508	1.00	U	ICP2-1360-27
Nickel	7440-02-0	ND	0.508	1.00	U	ICP2-1360-27
Selenium	7782-49-2	ND	1.02	1.00	U	ICP2-1360-27
Silver	7440-22-4	ND	0.711	1.00	U	ICP2-1360-27
Thallium	7440-28-0	ND	1.02	1.00	U	ICP2-1360-27
Vanadium	7440-62-2	ND	0.508	1.00	U	ICP2-1360-27
Zinc	7440-66-6	ND	0.508	1.00	U	ICP2-1360-27

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
($) NYSDOH does not currently offer certification for this analyte.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14100601

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR40181L)
Lab Sample ID: LCS-73

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1360-28	SW-846 6010C	10/27/2014 12:10	LMS	NA	NA	NA
Prep 1:	5102	EPA 3050B	10/22/2014 11:21	CYC	0.507 g	50.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/kg)	LCS (mg/kg)	LCS % Rec.	Q[1]	Limits (%)
Antimony	7440-36-0	108	59.9	55.5		0.00-215
Arsenic	7440-38-2	151	146	96.6		80.8-120
Barium	7440-39-3	262	248	94.7		82.8-117
Beryllium	7440-41-7	133	132	99.5		82.0-118
Cadmium	7440-43-9	152	148	97.1		81.6-118
Chromium	7440-47-3	117	116	99.3		79.4-121
Lead	7439-92-1	254	245	96.6		81.5-119
Nickel	7440-02-0	315	302	95.8		82.2-118
Selenium	7782-49-2	162	157	96.8		77.2-122
Silver	7440-22-4	44.3	42.5	96.0		74.5-126
Thallium	7440-28-0	259	245	94.6		78.8-122
Vanadium	7440-62-2	116	114	98.4		76.5-123
Zinc	7440-66-6	306	299	97.9		80.1-120

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
($) NYSDOH does not currently offer certification for this analyte.

7

Pace Analytical®

Quality Control Results
Lab Control Sample - Duplicate (LCSD)

Job Number: 14100601

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample - Duplicate (AR40181S)
Lab Sample ID: LCSD-73

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1360-29	SW-846 6010C	10/27/2014 12:12	LMS	NA	NA	NA
Prep 1:	5102	EPA 3050B	10/22/2014 11:21	CYC	0.494 g	50.0 mL	NA

							Precision			
Analyte Spiked	**CAS No.**	**Added (mg/kg)**	**LCSD (mg/kg)**	**LCSD % Rec.**	**Q[1]**	**Limits (%)**	**LCS % Rec.**	**RPD**	**Q[1]**	**Limits (%)**
Antimony	7440-36-0	108	60.3	55.9		0.00-215	55.5	0.718		20
Arsenic	7440-38-2	151	146	97.0		80.8-120	96.6	0.413		20
Barium	7440-39-3	262	261	99.5		82.8-117	94.7	4.94		20
Beryllium	7440-41-7	133	132	99.5		82.0-118	99.5	0.00		20
Cadmium	7440-43-9	152	147	96.5		81.6-118	97.1	0.620		20
Chromium	7440-47-3	117	118	101		79.4-121	99.3	1.70		20
Lead	7439-92-1	254	248	97.8		81.5-119	96.6	1.23		20
Nickel	7440-02-0	315	300	95.3		82.2-118	95.8	0.523		20
Selenium	7782-49-2	162	158	97.3		77.2-122	96.8	0.515		20
Silver	7440-22-4	44.3	43.9	99.1		74.5-126	96.0	3.18		20
Thallium	7440-28-0	259	246	95.1		78.8-122	94.6	0.527		20
Vanadium	7440-62-2	116	115	99.2		76.5-123	98.4	0.810		20
Zinc	7440-66-6	306	298	97.3		80.1-120	97.9	0.615		20

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
($) NYSDOH does not currently offer certification for this analyte.

Date Issued: December 17, 2014

Pace Analytical e-Report

Report prepared for:
BARTON AND LOGUIDICE
10 AIRLINE DRIVE
ALBANY, NY 12205
CONTACT: ANDY BARBER

Project ID: ALCO
Sampling Date(s): December 04, 2014
Lab Report ID: 14120155
Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included:
VOCs by GCMS (TCLP)
SVOCs by GCMS (TCLP)
PCB Analysis
Herbicides (TCLP) - Sub - Pace-LI
TCLP Pesticides - Sub - Pace-LI
Mercury Analysis (TCLP)
Metals by ICP (TCLP- RCRA)

Dan Pfalzer
Laboratory Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

CASE NARRATIVE

December 17, 2014

CASE NARRATIVE

This data package (SDG ID: 14120155) consists of 1 soil sample received on 12/04/2014. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AR47021	D-07	12/04/2014 15:45

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via DROP OFF delivery service on 12/04/2014.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) All samples were received at the laboratory properly preserved, if applicable.

Volatile Organics Analysis

Analysis for Volatile Organics was performed by method SW-846 8260C -TCLP/ZHE SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Semivolatile Organics Analysis

Analysis for Semivolatile Organics was performed by method SW-846 8270D - TCLP SW-846 1311. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Mercury Analysis

Analysis for mercury was performed by method SW-846 7470A - TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for the associated Laboratory Control spike was outside quality control limits. Sample was re-run with similar results. Please see associated form for details.

Metals Analysis by ICP

Analysis for metals was performed by method SW-846 6010C/TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

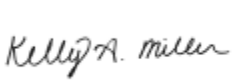
(1.) The percent recovery for Lead and Barium were outside method established limits for the associated CRDL for sample (LAB ID: AR47021). Sample is ND. No bias indicated.

1

Subcontract Analysis

(1.) Please see Pace NY-LI laboratory report for quality assurance details.

Respectfully submitted,



Kelly A. Miller
Project Manager

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QUALIFIERS

Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

Pace Analytical™
www.pacelabs.com

New York Office
2190 Technology Dr.
Schenectady, NY 12308
(518) 346-4592

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complete <14120155P1>

141201551

Page: 1 of 1

Section A — **Required** Client Information:

Company:	Barton and Loguidice DPC
Address:	10 Airline Drive, Suite 200
	Albany, NY 12205
Email To:	nshaffer@bartonandloguidice.com
Phone:	518-218-1801 Fax: 518-218-1805
Requested Due Date/TAT:	Standard

Section B — **Required** Project Information:

Report To:	Andy Barber
Copy To:	Nathan Shaffer
Purchase Order No.:	
Project Name:	ALCO
Project Number:	1368.001.001

Section C — Invoice Information:

Attention:	Accounts Payable
Company Name:	Barton and Loguidice, DPC
Address:	290 Elwood Davis Road, Box 3107 Syracuse NY, 13220
Pace Quote Reference:	00014909
Pace Project Manager:	Kelly Miller
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Section D — **Required** Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: ALBANY County LF COLONIE County LF	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.
1	D-07	SL	C	12/4/14	15:45				2	X									X		AR47021
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature] / B&L	12/4/14	16:38	[signature]	12/4/14	16:38

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
7.7	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY):

Pace Analytical

Sample Condition Upon Receipt

<14120155P2>

141201552

CLIENT NAME: B+L

PROJECT : Alco

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐

TRACKING # N/A

CUSTODY SEAL PRESENT: Yes ☐ No ☒ **INTACT:** Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ☐ **ICE USED:** Wet ☒ Blue ☐ None ☐

THERMOMETER USED: #164 ☐ IR Gun 03 ☒ #122087967 ☐ **COOLER TEMPERATURE (°C):** 7.2 (IR)

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒ Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☐Yes	☒No		2. missing sampler
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☐Yes	☒No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☒Yes	☐No		12.
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	☐Yes	☐No	☒N/A	Initial when completed: N/A — Lot # of added preservative: N/A
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: N/A				

Sample Receipt form filled in: AJB 12/8/14

Line-Out (Includes Copying Shipping Documents and verifying sample pH): AJB 12/8/14

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): AJB 12/5/14

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): AJB 12/8/14

<14120155P3>

141201553

Pace Analytical www.pacelabs.com

New York Office
2190 Technology Dr.
Schenectady, NY 12308
(518) 346-4592

N- -of-

ıl Request Document

fields must be completed accurately.

Page: 1 of 1

Section A **Required** Client Information:

Company:	Barton and Loguidice DPC
Address:	10 Airline Drive, Suite 200
	Albany, NY 12205
Email To:	nshaffer@bartonandloguidice.com
Phone:	518-218-1801 Fax: 518-218-1805
Requested Due Date/TAT:	Standard

Section B **Required** Project Information:

Report To:	Andy Barber
Copy To:	Nathan Shaffer
Purchase Order No.:	
Project Name:	ALCO
Project Number:	1368.001.001

Section C Invoice Inforr

Attention:	Accounts Payable
Company Name:	Barton and Loguidice, DPC
Address:	290 Elwood Davis Road, Box 3107 Syracuse NY, 13220
Pace Quote Reference:	00014909
Pace Project Manager:	Kelly Miller
Pace Profile #:	

REGULATORY AGENCY

NPDES / GROUND WATER / DRINKING WATER / UST / RCRA / OTHER______

SITE LOCATION: GA / IL / IN / MI / NC / OH / SC / WI / OTHER_____

Filtered (Y/N)

Requested Analysis: *Chlorinated Landfill (?)

Section D Required Client Information

Valid Matrix Codes — MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.
1	D-08	SL	C	X	X	12/8	3:20		5	X								X AR47093		* TCLP 8260 8270, herb pest, metals reg, PCB
2	D-07-A	SL	C	X	X	12/8	3:25		2	X								(*) AR47021		* Per Kelly Miller Request herb+pest
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
Standard Deliverables	[signature]	12/8	4:10	[signature] Pace	12/8/14	1610	4.2 (IR)	N	N	Y
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nathan Shaffer

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 12/8/2014

Pace Analytical

Sample Condition Upon Receipt

141201554

CLIENT NAME: B+L

PROJECT : ALCO

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐

TRACKING # N/A

CUSTODY SEAL PRESENT: Yes ☐ No ☒ **INTACT:** Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ☐

ICE USED: Wet ☒ Blue ☐ None ☐

THERMOMETER USED: #164 ☐ IR Gun 03 ☒ #122087967 ☐

COOLER TEMPERATURE (°C): 4.2°C

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒

Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☒Yes	☐No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☐Yes	☒No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☐Yes	☒No		12. Extra volume for "D-07" is labeled "D-07-A" on new CoC.
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	☐Yes	☐No	☒N/A	Initial when completed: N/A — Lot # of added preservative: N/A
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: N/A				

Sample Receipt form filled in: AJB 12/9/14

Line-Out (Includes Copying Shipping Documents and verifying sample pH): AJB 12/9/14

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): AJB 12/9/14

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): AJB 12/9/14

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
14120155

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE
PROJECT: ALCO
LRF: 14120155
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: 7 DAYS

RECEIVED DATE: 12/04/2014 16:38
SHIPPED VIA: DROP OFF [1,2]
SHIPPING ID: R. MCCORMICK/ B & L
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: CHILLED
TEMPERATURE(S): [5] 7.7 (IR) °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
SAMPLES REC'D IN HOLDTIME: [3] YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:
ADDITIONAL VOLUME DROPPED OFF BY N. SHAFFER 12/8/14 @ 16:10 PROPERLY PRESERVED.

CLIENT ID (LAB ID)	TAT-DUE Date [4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-07 (AR47021)	7 DAYS 12-16-14	12/04/2014 15:45	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 12-16-14	12/04/2014 15:45	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 12-16-14	12/04/2014 15:45	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 12-16-14	12/04/2014 15:45	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 12-16-14	12/04/2014 15:45	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
	7 DAYS 12-16-14	12/04/2014 15:45	Soil	SW-846 8081	TCLP Pesticides - Sub - Pace-LI	
	7 DAYS 12-16-14	12/04/2014 15:45	Soil	SW-846 8151A	Herbicides (TCLP) - Sub - Pace-LI	

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[1]The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.
[2]The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3]Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4]Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5]All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

Reporting Parameters and Lists

EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)
- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Selenium
- Silver

EPA 7470A - Mercury Analysis (TCLP) - (mg/L)
- Mercury

EPA 8082A - PCB Analysis - (ug/g)
- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)
- 1,1-Dichloroethene
- 1,2-Dichloroethane
- 2-Butanone
- Benzene
- Carbon Tetrachloride
- Chlorobenzene
- Chloroform
- Tetrachloroethene
- Trichloroethene
- Vinyl Chloride

EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)
- 1,4-Dichlorobenzene
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol
- 2,4-Dinitrotoluene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachloroethane
- m&p-Methylphenol
- Nitrobenzene
- o-Methylphenol
- Pentachlorophenol
- Pyridine

GC/MS Volatiles

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-07
Lab Sample ID: 14120155-01 (AR47021)

Collection Date: 12/04/2014 15:45
Sample Matrix: SOIL(TCLP)
Received Date: 12/04/2014 16:38
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-318-21	EPA 8260C - TCLP-ZHE SW-846 1311	12/11/2014 16:38	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-318-21
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-318-21
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-318-21
Benzene	71-43-2	ND	10.0	10.0	U	MS10-318-21
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-318-21
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-318-21
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-318-21
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-318-21
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-318-21
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-318-21

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	100	76.0-128		MS10-318-21
Dibromofluoromethane	1868-53-7	103	73.6-132		MS10-318-21
Toluene-d8	2037-26-5	98.4	84.4-115		MS10-318-21
1,2-Dichloroethane-d4	17060-07-0	108	79.9-120		MS10-318-21

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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GC/MS Semivolatiles

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-07
Lab Sample ID: 14120155-01 (AR47021)

Collection Date: 12/04/2014 15:45
Sample Matrix: SOIL(TCLP)
Received Date: 12/04/2014 16:38
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-495-6	SW-846 8270D/TCLP Extraction Method 1311	12/15/2014 12:21	RMS	NA	NA	N/A
Prep 1:	29746	EPA 3510C	12/12/2014 09:00	KEN	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-495-6
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-495-6
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-495-6
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-495-6
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-495-6
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-495-6
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-495-6
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-495-6
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-495-6
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-495-6
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-495-6
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-495-6

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	117	22.8-161		MS09-495-6
2-Fluorobiphenyl	321-60-8	83.3	26.3-121		MS09-495-6
2-Fluorophenol	367-12-4	47.4	10.0-86.4		MS09-495-6
Terphenyl-d14	1718-51-0	113	33.7-154		MS09-495-6
Nitrobenzene-d5	4165-60-0	85.5	12.7-139		MS09-495-6
Phenol-d6	13127-88-3	33.2	10.0-87.4		MS09-495-6

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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GC - PCB

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-07
Lab Sample ID: 14120155-01 (AR47021)

Collection Date: 12/04/2014 15:45
Sample Matrix: SOIL
Received Date: 12/04/2014 16:38
Percent Solid: 79.0 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1296-7	SW-846 8082A (PCB)	12/17/2014 11:13	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29769	EPA 3545A	12/16/2014 15:26	DSD	10.2 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0619	1.00	U	GC10F-1296-7
Aroclor 1221	11104-28-2	ND	0.0619	1.00	U	GC10F-1296-7
Aroclor 1232	11141-16-5	ND	0.0619	1.00	U	GC10F-1296-7
Aroclor 1242	53469-21-9	ND	0.0619	1.00	U	GC10F-1296-7
Aroclor 1248	12672-29-6	ND	0.0619	1.00	U	GC10F-1296-7
Aroclor 1254	11097-69-1	ND	0.0619	1.00	U	GC10F-1296-7
Aroclor 1260	11096-82-5	ND	0.0619	1.00	U	GC10F-1296-7
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1296-7

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	68.6	60.0-140		GC10F-1296-7
Decachlorobiphenyl	2051-24-3	60.9	60.0-140		GC10F-1296-7

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Mercury

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-07
Lab Sample ID: 14120155-01 (AR47021)

Collection Date: 12/04/2014 15:45
Sample Matrix: SOIL(TCLP)
Received Date: 12/04/2014 16:38
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1799-16	SW-846 7470/TCLP 1311	12/15/2014 14:45	CYC	NA	NA	NA
Prep 1:	5281	EPA 7470A	12/12/2014 09:46	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1799-16

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Metals - ICP

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-07
Lab Sample ID: 14120155-01 (AR47021)

Collection Date: 12/04/2014 15:45
Sample Matrix: SOIL(TCLP)
Received Date: 12/04/2014 16:38
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-146	EPA 6010C/TCLP 1311	12/12/2014 16:14	LMS	NA	NA	NA
Prep 1:	5280	EPA 3005A	12/12/2014 10:34	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1428-146
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1428-146
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1428-146
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1428-146
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1428-146
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1428-146
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1428-146

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Field)

Pace Analytical®

Quality Control Results
Matrix Spike Sample (MS)
Job Number: 14120155

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-07 MS
Lab Sample ID: 14120155-01M (AR47021M)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-495-7	SW-846 8270D/TCLP Extraction Method 1311	12/15/2014 12:41	RMS	NA	NA	N/A
Prep 1:	29746	EPA 3510C	12/12/2014 09:00	KEN	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	**276**	50.0	1.00		MS09-495-7
2,4,5-Trichlorophenol	95-95-4	**458**	50.0	1.00		MS09-495-7
2,4,6-Trichlorophenol	88-06-2	**419**	50.0	1.00		MS09-495-7
2,4-Dinitrotoluene	121-14-2	**436**	50.0	1.00		MS09-495-7
Hexachlorobenzene	118-74-1	**401**	50.0	1.00		MS09-495-7
Hexachlorobutadiene	87-68-3	**292**	50.0	1.00		MS09-495-7
Hexachloroethane	67-72-1	**269**	50.0	1.00		MS09-495-7
m&p-Methylphenol	108-39-4/106-44-5	**630**	50.0	1.00	E	MS09-495-7
Nitrobenzene	98-95-3	**356**	50.0	1.00		MS09-495-7
o-Methylphenol	95-48-7	**473**	50.0	1.00		MS09-495-7
Pentachlorophenol	87-86-5	**446**	50.0	1.00		MS09-495-7
Pyridine	110-86-1	**165**	50.0	1.00		MS09-495-7

Analyte Spiked	CAS No.	Sample (ug/L)	Added (ug/L)	MS (ug/L)	MS % Rec.	Q[1]	Limits (%)
1,4-Dichlorobenzene	106-46-7		500	276	55.2		27.0-123
2,4,5-Trichlorophenol	95-95-4		500	458	91.7		30.0-128
2,4,6-Trichlorophenol	88-06-2		500	419	83.8		37.0-144
2,4-Dinitrotoluene	121-14-2		500	436	87.1		37.0-121
Hexachlorobenzene	118-74-1		500	401	80.3		42.0-117
Hexachlorobutadiene	87-68-3		500	292	58.4		31.0-110
Hexachloroethane	67-72-1		500	269	53.8		24.0-124
m&p-Methylphenol	108-39-4/106-44-5		1000	630	63.0		22.0-139
Nitrobenzene	98-95-3		500	356	71.2		34.0-119
o-Methylphenol	95-48-7		500	473	94.5		26.0-128
Pentachlorophenol	87-86-5		500	446	89.2		4.00-113
Pyridine	110-86-1		500	165	32.9		1.00-105

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	113	22.8-161		MS09-495-7
2-Fluorobiphenyl	321-60-8	86.5	26.3-121		MS09-495-7
2-Fluorophenol	367-12-4	42.2	10.0-86.4		MS09-495-7
Terphenyl-d14	1718-51-0	122	33.7-154		MS09-495-7
Nitrobenzene-d5	4165-60-0	88.4	12.7-139		MS09-495-7
Phenol-d6	13127-88-3	30.7	10.0-87.4		MS09-495-7

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Matrix Spike Sample (MS)
Job Number: 14120155

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-07 MS
Lab Sample ID: 14120155-01M (AR47021M)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1799-19	SW-846 7470/TCLP 1311	12/15/2014 14:52	CYC	NA	NA	NA
Prep 1:	5281	EPA 7470A	12/12/2014 09:46	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	**0.0356**	0.0200	1.00		MER1-1799-19

Analyte Spiked	CAS No.	Sample (mg/L)	Added (mg/L)	MS (mg/L)	MS % Rec.	Q[1]	Limits (%)
Mercury	7439-97-6		0.0300	0.0356	119		75.0-125

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Pace Analytical Services, Inc.
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Phone: 518.346.4592
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Quality Control Results
Duplicate Sample
Job Number: 14120155

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-07 DUP
Lab Sample ID: 14120155-01D (AR47021D)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1799-18	SW-846 7470/TCLP 1311	12/15/2014 14:50	CYC	NA	NA	NA
Prep 1:	5281	EPA 7470A	12/12/2014 09:46	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1799-18

			Precision			
Analyte	CAS No.	Duplicate (mg/L)	Sample (mg/L)	RPD	Q[1]	Limits (%)
Mercury	7439-97-6	ND	ND			20

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

10

Pace Analytical®

Quality Control Results
Matrix Spike Sample (MS)
Job Number: 14120155

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-07 MS
Lab Sample ID: 14120155-01M (AR47021M)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-148	EPA 6010C/TCLP 1311	12/12/2014 16:19	LMS	NA	NA	NA
Prep 1:	5280	EPA 3005A	12/12/2014 10:34	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	**13.5**	0.500	1.00		ICP2-1428-148
Barium	7440-39-3	**26.0**	1.00	1.00		ICP2-1428-148
Cadmium	7440-43-9	**5.37**	0.100	1.00		ICP2-1428-148
Chromium	7440-47-3	**12.2**	0.500	1.00		ICP2-1428-148
Lead	7439-92-1	**12.9**	0.500	1.00		ICP2-1428-148
Selenium	7782-49-2	**5.66**	0.250	1.00		ICP2-1428-148
Silver	7440-22-4	**12.8**	0.500	1.00		ICP2-1428-148

Analyte Spiked	CAS No.	Sample (mg/L)	Added (mg/L)	MS (mg/L)	MS % Rec.	Q[1]	Limits (%)
Arsenic	7440-38-2		12.5	13.5	108		75.0-125
Barium	7440-39-3		25.0	26.0	104		75.0-125
Cadmium	7440-43-9		5.00	5.37	107		75.0-125
Chromium	7440-47-3		12.5	12.2	98.0		75.0-125
Lead	7439-92-1		12.5	12.9	103		75.0-125
Selenium	7782-49-2		5.00	5.66	113		75.0-125
Silver	7440-22-4		12.5	12.8	102		75.0-125

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

10

Pace Analytical®

Quality Control Results
Duplicate Sample
Job Number: 14120155

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-07 DUP
Lab Sample ID: 14120155-01D (AR47021D)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-147	EPA 6010C/TCLP 1311	12/12/2014 16:17	LMS	NA	NA	NA
Prep 1:	5280	EPA 3005A	12/12/2014 10:34	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1428-147
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1428-147
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1428-147
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1428-147
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1428-147
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1428-147
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1428-147

			Precision			
Analyte	CAS No.	Duplicate (mg/L)	Sample (mg/L)	RPD	Q[1]	Limits (%)
Arsenic	7440-38-2	ND	ND			20
Barium	7440-39-3	ND	ND			20
Cadmium	7440-43-9	ND	ND			20
Chromium	7440-47-3	ND	ND			20
Lead	7439-92-1	ND	ND			20
Selenium	7782-49-2	ND	ND			20
Silver	7440-22-4	ND	ND			20

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

10

Quality Control Samples (Lab)

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14120155

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR47021B-ZHE)
Lab Sample ID: VBLK-98

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-318-6	EPA 8260C - TCLP-ZHE SW-846 1311	12/11/2014 09:49	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-318-6
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-318-6
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-318-6
Benzene	71-43-2	ND	10.0	10.0	U	MS10-318-6
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-318-6
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-318-6
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-318-6
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-318-6
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-318-6
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-318-6

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	104	76.0-128		MS10-318-6
Dibromofluoromethane	1868-53-7	103	73.6-132		MS10-318-6
Toluene-d8	2037-26-5	104	84.4-115		MS10-318-6
1,2-Dichloroethane-d4	17060-07-0	98.1	79.9-120		MS10-318-6

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14120155

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR47063L)
Lab Sample ID: LCS-98

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-318-4	EPA 8260C - TCLP-ZHE SW-846 1311	12/11/2014 09:01	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
1,1-Dichloroethene	75-35-4	40.0	47.2	118		70.0-130
1,2-Dichloroethane	107-06-2	40.0	35.6	88.9		70.0-130
2-Butanone	78-93-3	40.0	42.7	107		70.0-130
Benzene	71-43-2	40.0	45.4	114		70.0-130
Carbon Tetrachloride	56-23-5	40.0	44.6	112		70.0-130
Chlorobenzene	108-90-7	40.0	41.1	103		70.0-130
Chloroform	67-66-3	40.0	40.0	99.9		70.0-130
Tetrachloroethene	127-18-4	40.0	42.7	107		70.0-130
Trichloroethene	79-01-6	40.0	41.4	103		70.0-130
Vinyl Chloride	75-01-4	40.0	36.3	90.6		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	99.3	76.0-128		MS10-318-4
Dibromofluoromethane	1868-53-7	105	73.6-132		MS10-318-4
Toluene-d8	2037-26-5	101	84.4-115		MS10-318-4
1,2-Dichloroethane-d4	17060-07-0	89.1	79.9-120		MS10-318-4

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical Services, Inc.
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Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR47021B)
Lab Sample ID: SBLK-04

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-495-4	SW-846 8270D/TCLP Extraction Method 1311	12/15/2014 11:41	RMS	NA	NA	N/A
Prep 1:	29746	EPA 3510C	12/12/2014 09:00	KEN	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-495-4
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-495-4
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-495-4
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-495-4
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-495-4
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-495-4
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-495-4
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-495-4
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-495-4
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-495-4
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-495-4
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-495-4

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	122	22.8-161		MS09-495-4
2-Fluorobiphenyl	321-60-8	90.2	26.3-121		MS09-495-4
2-Fluorophenol	367-12-4	46.3	10.0-86.4		MS09-495-4
Terphenyl-d14	1718-51-0	123	33.7-154		MS09-495-4
Nitrobenzene-d5	4165-60-0	91.4	12.7-139		MS09-495-4
Phenol-d6	13127-88-3	33.3	10.0-87.4		MS09-495-4

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14120155

Pace Analytical Services, Inc.
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Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR47021L)
Lab Sample ID: LCS-04

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-495-5	SW-846 8270D/TCLP Extraction Method 1311	12/15/2014 12:01	RMS	NA	NA	N/A
Prep 1:	29746	EPA 3510C	12/12/2014 09:00	KEN	200 mL	1.00 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
1,4-Dichlorobenzene	106-46-7	500	283	56.6		27.0-123
2,4,5-Trichlorophenol	95-95-4	500	471	94.2		30.0-128
2,4,6-Trichlorophenol	88-06-2	500	428	85.5		37.0-144
2,4-Dinitrotoluene	121-14-2	500	437	87.3		37.0-121
Hexachlorobenzene	118-74-1	500	426	85.2		42.0-117
Hexachlorobutadiene	87-68-3	500	276	55.2		31.0-110
Hexachloroethane	67-72-1	500	260	52.1		24.0-124
m&p-Methylphenol	108-39-4/106-44-5	1000	628	62.8		22.0-139
Nitrobenzene	98-95-3	500	325	65.1		34.0-119
o-Methylphenol	95-48-7	500	464	92.8		26.0-128
Pentachlorophenol	87-86-5	500	461	92.1		4.00-113
Pyridine	110-86-1	500	115	23.1		1.00-105

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	121	22.8-161		MS09-495-5
2-Fluorobiphenyl	321-60-8	83.0	26.3-121		MS09-495-5
2-Fluorophenol	367-12-4	42.4	10.0-86.4		MS09-495-5
Terphenyl-d14	1718-51-0	125	33.7-154		MS09-495-5
Nitrobenzene-d5	4165-60-0	82.0	12.7-139		MS09-495-5
Phenol-d6	13127-88-3	30.6	10.0-87.4		MS09-495-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

11

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14120155

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR47093B)
Lab Sample ID: PBLK-82

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1296-4	SW-846 8082A (PCB)	12/17/2014 10:36	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29769	EPA 3545A	12/16/2014 15:25	DSD	10.1 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC10F-1296-4
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1296-4

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	88.8	60.0-140		GC10F-1296-4
Decachlorobiphenyl	2051-24-3	90.9	60.0-140		GC10F-1296-4

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)

Job Number: 14120155

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR47093L)
Lab Sample ID: LCS-82

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1296-5	SW-846 8082A (PCB)	12/17/2014 10:48	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29769	EPA 3545A	12/16/2014 15:25	DSD	10.5 g	25.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/g)	LCS (ug/g)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	1.19	1.10	92.8		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	91.5	60.0-140		GC10F-1296-5
Decachlorobiphenyl	2051-24-3	95.5	60.0-140		GC10F-1296-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14120155

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR47021B)
Lab Sample ID: PBW-54

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1799-13	SW-846 7470/TCLP 1311	12/15/2014 14:40	CYC	NA	NA	NA
Prep 1:	5281	EPA 7470A	12/12/2014 09:46	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1799-13

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

11

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14120155

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR47021L)
Lab Sample ID: LCS-54

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1799-17	SW-846 7470/TCLP 1311	12/15/2014 14:47	CYC	NA	NA	NA
Prep 1:	5281	EPA 7470A	12/12/2014 09:46	CYC	4.00 mL	40.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q[1]	Limits (%)
Mercury	7439-97-6	0.0300	0.0365	122	*	80.0-120

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

11

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR47021B)
Lab Sample ID: PBW-53

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-143	EPA 6010C/TCLP 1311	12/12/2014 16:07	LMS	NA	NA	NA
Prep 1:	5280	EPA 3005A	12/12/2014 10:34	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1428-143
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1428-143
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1428-143
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1428-143
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1428-143
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1428-143
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1428-143

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14120155

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR47021L)
Lab Sample ID: LCS-53

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-144	EPA 6010C/TCLP 1311	12/12/2014 16:09	LMS	NA	NA	NA
Prep 1:	5280	EPA 3005A	12/12/2014 10:34	CYC	10.0 mL	50.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q[1]	Limits (%)
Arsenic	7440-38-2	12.5	13.1	104		85.0-115
Barium	7440-39-3	25.0	25.1	100		85.0-115
Cadmium	7440-43-9	5.00	5.30	106		85.0-115
Chromium	7440-47-3	12.5	12.0	96.3		85.0-115
Lead	7439-92-1	12.5	12.7	102		85.0-115
Selenium	7782-49-2	5.00	5.44	109		85.0-115
Silver	7440-22-4	12.5	12.4	99.0		85.0-115

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Subcontract Analysis

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 12/4/2014 3:45:00 PM
Received : 12/9/2014 11:00:00 AM AR47021
Collected By CLIENT

Lab No. : 1412665-001
Client Sample ID: D-07

Sample Information:
Type : Soil

Origin:

Analytical Method: SW1311/8151A : Prep Method: SW1311/8151 Prep Date: 12/12/2014 11:16:34 AM Analyst: MJM

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
2,4,5-TP (Silvex)	< 0.0025		1	mg/L			12/16/2014 12:34 PM	Container-01 of 02
2,4-D	< 0.0050		1	mg/L			12/16/2014 12:34 PM	Container-01 of 02
Surr: DCAA	54.6		1	%REC	Limit	36-121	12/16/2014 12:34 PM	Container-01 of 02

Analytical Method: SW1311/8081B : Prep Method: SW3510C Prep Date: 12/15/2014 2:15:17 PM Analyst: JS

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Chlordane	< 0.0040		1	mg/L			12/15/2014 8:52 PM	Container-01 of 02
Endrin	< 0.00040		1	mg/L			12/15/2014 8:52 PM	Container-01 of 02
gamma-BHC	< 0.00020		1	mg/L			12/15/2014 8:52 PM	Container-01 of 02
Heptachlor	< 0.00020		1	mg/L			12/15/2014 8:52 PM	Container-01 of 02
Heptachlor epoxide	< 0.00020		1	mg/L			12/15/2014 8:52 PM	Container-01 of 02
Methoxychlor	< 0.0020		1	mg/L			12/15/2014 8:52 PM	Container-01 of 02
Toxaphene	< 0.020		1	mg/L			12/15/2014 8:52 PM	Container-01 of 02
Surr: Decachlorobiphenyl	100		1	%REC	Limit	30-150	12/15/2014 8:52 PM	Container-01 of 02
Surr: Tetrachloro-m-xylene	85.8		1	%REC	Limit	30-150	12/15/2014 8:52 PM	Container-01 of 02

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Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Caitlin Hutchinson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 12/16/2014

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: HERBICIDES, TCLP Leached **WorkOrder:** 1412665

Method: 1311_H **Lab Batch ID:** 47406

Method Blank

RunID: 66432 SeqNo 1443605 Units: mg/L

Analysis Date: 12/4/2014 6:54:34 PM Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
Surr: DCAA	0.057	0	

Laboratory Control Sample (LCS/LFB)

RunID: 66432 SeqNo 1443606 Units: mg/L

Analysis Date: 12/4/2014 7:10:17 PM Analyst: MJM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Surr: DCAA	0.1000	0.053	52.9						36	121	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1411H45-003C

RunID: 66432 SeqNo 1443609 Units: mg/L

Analysis Date: 12/4/2014 7:57:30 PM Analyst: MJM

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Surr: DCAA		0.1000	0.066	65.5	36	121								

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: HERBICIDES, TCLP Leached **WorkOrder:** 1412665

Method: 1311_H **Lab Batch ID:** 47569

Method Blank

RunID: 66884 SeqNo 1454253 Units: mg/L

Analysis Date: 12/16/2014 11:47:33 AM Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
2,4-D	< 0.0050	0.0050	
2,4,5-TP (Silvex)	< 0.0025	0.0025	
Surr: DCAA	0.049	0	

Laboratory Control Sample (LCS/LFB)

RunID: 66884 SeqNo 1454254 Units: mg/L

Analysis Date: 12/16/2014 12:03:19 PM Analyst: MJM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0.02000	0.017	83.8						47	152	
2,4,5-TP (Silvex)	0.01000	0.0092	92.4						44	157	
Surr: DCAA	0.1000	0.051	50.7						36	121	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1412840-001A

RunID: 66884 SeqNo 1454259 Units: mg/L

Analysis Date: 12/16/2014 1:22:21 PM Analyst: MJM

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0	0.02000	0.019	97.1	39	111								
2,4,5-TP (Silvex)	0	0.01000	0.010	104	48	113								
Surr: DCAA		0.1000	0.092	91.9	36	121								

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Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: PESTICIDES, TCLP Leached **WorkOrder:** 1412665

Method: 1311_P **Lab Batch ID:** 47605

Method Blank

RunID: 66888 SeqNo 1454394 Units: mg/L

Analysis Date: 12/15/2014 7:49:29 PM Analyst: JS

Analyte	Result	Rep Limit	Rep Qual
gamma-BHC	< 0.00020	0.00020	
Heptachlor	< 0.00020	0.00020	
Heptachlor epoxide	< 0.00020	0.00020	
Endrin	< 0.00040	0.00040	
Methoxychlor	< 0.0020	0.0020	
Toxaphene	< 0.020	0.020	
Chlordane	< 0.0040	0.0040	
Surr: Tetrachloro-m-xylene	0.00036	0	
Surr: Decachlorobiphenyl	0.00043	0	

Laboratory Control Sample (LCS/LFB)

RunID: 66888 SeqNo 1454395 Units: mg/L

Analysis Date: 12/15/2014 8:10:32 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	.0008000	0.00067	83.9						27	146	
Heptachlor	.0008000	0.00068	85.1						10	148	
Heptachlor epoxide	.0008000	0.00072	90.1						28	144	
Endrin	.0008000	0.00074	92.5						22	152	
Methoxychlor	.0008000	< 0.0020	104						19	146	
Surr: Tetrachloro-m-xylene	.0004000	0.00037	93.1						30	150	
Surr: Decachlorobiphenyl	.0004000	0.00045	114						30	150	

Laboratory Control Sample (LCS/LFB)

RunID: 66888 SeqNo 1454396 Units: mg/L

Analysis Date: 12/15/2014 8:31:41 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Toxaphene	0.04000	0.039	97.9						46	168	E
Surr: Tetrachloro-m-xylene	.0004000	0.00031	78.7						30	150	
Surr: Decachlorobiphenyl	.0004000	0.00037	93.6						30	150	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

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575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: PESTICIDES, TCLP Leached **WorkOrder:** 1412665

Method: 1311_P **Lab Batch ID:** 47605

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1412840-001a

RunID: 66888 SeqNo 1454401 Units: mg/L

Analysis Date: 12/15/2014 10:16:58 PM Analyst: JS

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	0	0008000	0.00052	65.0	58	124								
Heptachlor	0	0008000	0.00053	66.4	61	110								
Heptachlor epoxide	0	0008000	0.00057	71.6	52	131								
Endrin	0	0008000	0.00063	79.1	57	147								
Methoxychlor	0	0008000	0.0020	92.9	51	124								
Surr: Tetrachloro-m-xylene		0004000	0.00033	81.8	30	150								
Surr: Decachlorobiphenyl		0004000	0.00038	94.6	30	150								

Laboratory Control Sample (LCS/LFB)

RunID: 66432 SeqNo 1443607 Units: mg/L

Analysis Date: 12/4/2014 7:25:59 PM Analyst: MJM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Surr: DCAA	0.1000	0.11	106						36	121	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name **PACE-NY** Date and Time Received: **12/9/2014 11:00:00 AM**

Work Order Number: **1412665** RcptNo: **1** Received by: **Jamie Spero**

Completed by: Reviewed by:

Completed Date: 12/9/2014 12:33:19 PM Reviewed Date: 12/14/2014 10:14:07 PM

Carrier name: FedEx

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To	5.3 °
Water - Were bubbles absent in VOC vials?	Yes	☐	No	☐	No Vials	☑
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☐	No	☐	No Water	☑
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☐	No	☑		
Airbill or Sticker?	Air Bill	☑	Sticker	☐	Not Present	☐
Airbill No:	623146887900					

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☑ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

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Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1412665

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

PACE-L1

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

Pace Analytical Services, Inc.

2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.pacelabs.com

LRF # 14120155
(LAB USE ONLY)

DISPOSAL REQUIREMENTS: (To be filled in by Client)
- ○ RETURN TO CLIENT
- ● DISPOSAL BY RECEIVING LAB
- ○ ARCHIVAL BY RECEIVING LAB

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

CLIENT (REPORTS TO BE SENT TO): PACE	PROJECT#/PROJECT NAME: 14120155
PROJECT MANAGER: Kelly.Miller@pacelabs.com	LOCATION (CITY/STATE) ADDRESS: NY
SAMPLED BY: (Please Print)	REQUIRED TURN AROUND TIME: 12/16/2014
SAMPLING FIRM:	NAME OF COURIER (IF USED):
ELECTRONIC RESULTS	nicole.johnson@pacelabs.com

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE KEY: 0 - ICE; 1 - HCL; 2 - HNO3; 3 - H2SO4; 4 - NaOH; 5 - Zn. Acetate; 6 - MeOH; 7 - NaHSO4; 8 - Other (Na2SO3)

SAMPLE ID	DATE	TIME	MATRIX	GRAB/ COMP	LAB SAMPLE ID (LAB USE ONLY)	NUMBER OF CONTAINERS	PRESERVATIVE CODE	BOTTLE TYPE	BOTTLE SIZE	TCLP Pesticides / Herbicide							REMARKS:
D-07	12/4/14	15:45	S	COMP	AR47021 ICM 1218	2				X							1412665

AMBIENT OR CHILLED: ✓	TEMP: 5.3	COC TAPE: Y (N)	PROPERLY PRESERVED: Y N
RECEIVED BROKEN OR LEAKING: Y (N)		COC DISCREPANCIES: Y (N)	RECVD W/I HOLDING TIMES: Y N

OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DE

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	SIGNATURE VIA FEDEX	SIGNATURE Fed Ex	SIGNATURE	SIGNATURE	SIGNATURE
PRINTED NAME	PRINTED NAME	PRINTED NAME	PRINTED NAME Jamie Speer	PRINTED NAME	PRINTED NAME
COMPANY PACE	COMPANY	COMPANY	COMPANY PACE	COMPANY	COMPANY
DATE/TIME 12/8/14 1500	DATE/TIME	DATE/TIME	DATE/TIME 12/9/14 1100	DATE/TIME	DATE/TIME

S:\LOGIN\MDLCOCS

Date Issued: December 18, 2014

Pace Analytical e-Report

Report prepared for:
BARTON AND LOGUIDICE
10 AIRLINE DRIVE
ALBANY, NY 12205
CONTACT: ANDY BARBER

Project ID: ALCO
Sampling Date(s): December 08, 2014
Lab Report ID: 14120180
Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included:
VOCs by GCMS (TCLP)
SVOCs by GCMS (TCLP)
PCB Analysis
Herbicides (TCLP) - Sub - Pace-LI
TCLP Pesticides - Sub - Pace-LI
Mercury Analysis (TCLP)
Metals by ICP (TCLP- RCRA)

Dan Pfalzer
Laboratory Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

CASE NARRATIVE

December 18, 2014

CASE NARRATIVE

This data package (SDG ID: 14120180) consists of 1 soil sample received on 12/08/2014. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AR47093	D-08	12/08/2014 15:20

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via DROP OFF delivery service on 12/08/2014.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) All samples were received at the laboratory properly preserved, if applicable.

Volatile Organics Analysis

Analysis for Volatile Organics was performed by method SW-846 8260C -TCLP/ZHE SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Semivolatile Organics Analysis

Analysis for Semivolatile Organics was performed by method SW-846 8270D - TCLP SW-846 1311. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for 2,4,6-Tribromophenol was below method established limits for the associated Continuing Calibration Verification Sample for sample (LAB ID: AR47093). Low analytical bias may be indicated for this sample.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Mercury Analysis

Analysis for mercury was performed by method SW-846 7470A - TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for Mercury exceeded method established limits for the associated Continuing Calibration Verification Sample for sample (LAB ID: AR47093). Sample is ND. No bias indicated.

Metals Analysis by ICP

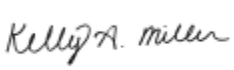
Analysis for metals was performed by method SW-846 6010C/TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) The percent recovery for Lead exceeded method established limits for the associated CRDL for sample (LAB ID: AR47093). Sample is ND. No bias indicated.

Subcontract Analysis

(1.) Please see Pace NY-LI laboratory report for quality assurance details.

Respectfully submitted,



Kelly A. Miller
Project Manager

QUALIFIERS

Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

Pace Analytical
www.pacelabs.com

New York Offic
2190 Technolo
Schenectady, I
(518) 346-45!

<14120180P1>
141201801

OF-(...alytical Request Document
Custody ... All relevant fields must be completed accurately.

Page: 1 of 1

Section A — Required Client Information:

Company:	Barton and Loguidice DPC
Address:	10 Airline Drive, Suite 200
	Albany, NY 12205
Email To:	nshaffer@bartonandloguidice.com
Phone:	518-218-1801	Fax: 518-218-1805
Requested Due Date/TAT:	Standard

Section B — Required Project Information:

Report To:	Andy Barber
Copy To:	Nathan Shaffer
Purchase Order No.:	
Project Name:	ALCO
Project Number:	1368.001.001

Section C — Invoice Information:

Attention:	Accounts Payable
Company Name:	Barton and Loguidice, DPC
Address:	290 Elwood Davis Road, Box 3107 Syracuse NY, 13220
Pace Quote Reference:	00014909
Pace Project Manager:	Kelly Miller
Pace Profile #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER________

SITE LOCATION: GA | IL | IN | MI | NC | OH | SC | WI | OTHER____

Filtered (Y/N)

Requested Analysis: * Cal, Dioxin/Furan

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-08	SL	C	X	X	12/8	3:20		5	X								X AR47093		* TCLP 8260 8270, herb pest, metals reg, PCB
2	D-07-A	SL	C	X	X	12/8	3:25		2	X								(*) AR47021		* Per Kelly Miller Request herb + pest
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Standard Deliverables	[signature]	12/8	4:10	[signature] Pace	12/8/14	1610	4.2 (IR)	Y	N	Y
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
							Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nathan Shaffer

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 12/8/2014

<14120180P2>

141201802

Pace Analytical

Sample Condition Upon Receipt

CLIENT NAME: B+L

PROJECT : ALCO

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐

TRACKING # N/A

CUSTODY SEAL PRESENT: Yes ☐ No ☒ **INTACT:** Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ☐

ICE USED: Wet ☒ Blue ☐ None ☐

THERMOMETER USED: #164 ☐ IR Gun 03 ☒ #122087967 ☐

COOLER TEMPERATURE (°C): 4.2°C

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒

Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☒Yes	☐No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☐Yes	☒No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☐Yes	☐No		12.
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	☐Yes	☐No	☒N/A	Initial when completed: N/A — Lot # of added preservative: N/A
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: N/A				

Sample Receipt form filled in: AJB 12/9/14

Line-Out (Includes Copying Shipping Documents and verifying sample pH): AJB 12/9/14

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): AJB 12/9/14

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): AJB 12/9/14

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
14120180

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE
PROJECT: ALCO
LRF: 14120180
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: 7 DAYS

RECEIVED DATE: 12/08/2014 16:10
SHIPPED VIA: DROP OFF [1,2]
SHIPPING ID: N. SHAFFER/ B&L
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: CHILLED
TEMPERATURE(S): [5] 4.2 (IR) °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
[3] SAMPLES REC'D IN HOLDTIME: YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date [4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-08 (AR47093)	7 DAYS 12-18-14	12/08/2014 15:20	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 12-18-14	12/08/2014 15:20	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 12-18-14	12/08/2014 15:20	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 12-18-14	12/08/2014 15:20	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 12-18-14	12/08/2014 15:20	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
	7 DAYS 12-18-14	12/08/2014 15:20	Soil	SW-846 8081	TCLP Pesticides - Sub - Pace-LI	
	7 DAYS 12-18-14	12/08/2014 15:20	Soil	SW-846 8151A	Herbicides (TCLP) - Sub - Pace-LI	

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[1]The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.
[2]The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3]Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4]Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5]All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

Reporting Parameters and Lists

EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)
- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Selenium
- Silver

EPA 7470A - Mercury Analysis (TCLP) - (mg/L)
- Mercury

EPA 8082A - PCB Analysis - (ug/g)
- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)
- 1,1-Dichloroethene
- 1,2-Dichloroethane
- 2-Butanone
- Benzene
- Carbon Tetrachloride
- Chlorobenzene
- Chloroform
- Tetrachloroethene
- Trichloroethene
- Vinyl Chloride

EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)
- 1,4-Dichlorobenzene
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol
- 2,4-Dinitrotoluene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachloroethane
- m&p-Methylphenol
- Nitrobenzene
- o-Methylphenol
- Pentachlorophenol
- Pyridine

GC/MS Volatiles

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-08
Lab Sample ID: 14120180-01 (AR47093)

Collection Date: 12/08/2014 15:20
Sample Matrix: SOIL(TCLP)
Received Date: 12/08/2014 16:10
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-318-19	EPA 8260C - TCLP-ZHE SW-846 1311	12/11/2014 15:46	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No./IUPAC	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-318-19
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-318-19
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-318-19
Benzene	71-43-2	ND	10.0	10.0	U	MS10-318-19
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-318-19
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-318-19
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-318-19
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-318-19
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-318-19
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-318-19

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	101	76.0-128		MS10-318-19
Dibromofluoromethane	1868-53-7	105	73.6-132		MS10-318-19
Toluene-d8	2037-26-5	98.2	84.4-115		MS10-318-19
1,2-Dichloroethane-d4	17060-07-0	112	79.9-120		MS10-318-19

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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GC/MS Semivolatiles

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-08
Lab Sample ID: 14120180-01 (AR47093)

Collection Date: 12/08/2014 15:20
Sample Matrix: SOIL(TCLP)
Received Date: 12/08/2014 16:10
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-490-45	SW-846 8270D/TCLP Extraction Method 1311	12/12/2014 02:19	RMS	NA	NA	N/A
Prep 1:	29725	EPA 3510C	12/10/2014 10:10	KEN	200 mL	1.00 mL	NA

Analyte	CAS No./IUPAC	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-490-45
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-490-45
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-490-45
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-490-45
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-490-45
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-490-45
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-490-45
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-490-45
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-490-45
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-490-45
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-490-45
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-490-45

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	80.0	22.8-161		MS09-490-45
2-Fluorobiphenyl	321-60-8	76.4	26.3-121		MS09-490-45
2-Fluorophenol	367-12-4	41.8	10.0-86.4		MS09-490-45
Terphenyl-d14	1718-51-0	94.4	33.7-154		MS09-490-45
Nitrobenzene-d5	4165-60-0	83.6	12.7-139		MS09-490-45
Phenol-d6	13127-88-3	29.9	10.0-87.4		MS09-490-45

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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GC - PCB

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-08
Lab Sample ID: 14120180-01 (AR47093)

Collection Date: 12/08/2014 15:20
Sample Matrix: SOIL
Received Date: 12/08/2014 16:10
Percent Solid: 85.9 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1296-6	SW-846 8082A (PCB)	12/17/2014 11:01	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29769	EPA 3545A	12/16/2014 07:58	DSD	10.2 g	25.0 mL	NA

Analyte	CAS No./IUPAC	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0572	1.00	U	GC10F-1296-6
Aroclor 1221	11104-28-2	ND	0.0572	1.00	U	GC10F-1296-6
Aroclor 1232	11141-16-5	ND	0.0572	1.00	U	GC10F-1296-6
Aroclor 1242	53469-21-9	ND	0.0572	1.00	U	GC10F-1296-6
Aroclor 1248	12672-29-6	ND	0.0572	1.00	U	GC10F-1296-6
Aroclor 1254	11097-69-1	ND	0.0572	1.00	U	GC10F-1296-6
Aroclor 1260	11096-82-5	ND	0.0572	1.00	U	GC10F-1296-6
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1296-6

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	82.4	60.0-140		GC10F-1296-6
Decachlorobiphenyl	2051-24-3	80.6	60.0-140		GC10F-1296-6

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Mercury

Pace Analytical®

Analytical Sample Results

Job Number: 14120180

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-08
Lab Sample ID: 14120180-01 (AR47093)

Collection Date: 12/08/2014 15:20
Sample Matrix: SOIL(TCLP)
Received Date: 12/08/2014 16:10
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1795-24	SW-846 7470/TCLP 1311	12/11/2014 15:19	CYC	NA	NA	NA
Prep 1:	5270	EPA 7470A	12/10/2014 11:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No./IUPAC	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1795-24

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

8

Metals - ICP

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-08
Lab Sample ID: 14120180-01 (AR47093)

Collection Date: 12/08/2014 15:20
Sample Matrix: SOIL(TCLP)
Received Date: 12/08/2014 16:10
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-28	EPA 6010C/TCLP 1311	12/12/2014 11:12	LMS	NA	NA	NA
Prep 1:	5269	EPA 3005A	12/10/2014 11:19	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No./IUPAC	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1428-28
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1428-28
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1428-28
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1428-28
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1428-28
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1428-28
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1428-28

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Quality Control Samples (Field)

Pace Analytical®

Quality Control Results
Matrix Spike Sample (MS)
Job Number: 14120180

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-08 MS
Lab Sample ID: 14120180-01M (AR47093M)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-30	EPA 6010C/TCLP 1311	12/12/2014 11:17	LMS	NA	NA	NA
Prep 1:	5269	EPA 3005A	12/10/2014 11:19	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No./IUPAC	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	**13.0**	0.500	1.00		ICP2-1428-30
Barium	7440-39-3	**24.6**	1.00	1.00		ICP2-1428-30
Cadmium	7440-43-9	**5.22**	0.100	1.00		ICP2-1428-30
Chromium	7440-47-3	**12.0**	0.500	1.00		ICP2-1428-30
Lead	7439-92-1	**12.6**	0.500	1.00		ICP2-1428-30
Selenium	7782-49-2	**5.45**	0.250	1.00		ICP2-1428-30
Silver	7440-22-4	**12.3**	0.500	1.00		ICP2-1428-30

Analyte Spiked	CAS No.	Sample (mg/L)	Added (mg/L)	MS (mg/L)	MS % Rec.	Q[1]	Limits (%)
Arsenic	7440-38-2		12.5	13.0	104		75.0-125
Barium	7440-39-3		25.0	24.6	98.6		75.0-125
Cadmium	7440-43-9		5.00	5.22	104		75.0-125
Chromium	7440-47-3		12.5	12.0	95.6		75.0-125
Lead	7439-92-1		12.5	12.6	101		75.0-125
Selenium	7782-49-2		5.00	5.45	109		75.0-125
Silver	7440-22-4		12.5	12.3	98.6		75.0-125

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

10

Pace Analytical®

Quality Control Results
Duplicate Sample
Job Number: 14120180

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-08 DUP
Lab Sample ID: 14120180-01D (AR47093D)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-29	EPA 6010C/TCLP 1311	12/12/2014 11:15	LMS	NA	NA	NA
Prep 1:	5269	EPA 3005A	12/10/2014 11:19	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No./IUPAC	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1428-29
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1428-29
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1428-29
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1428-29
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1428-29
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1428-29
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1428-29

			Precision			
Analyte	CAS No.	Duplicate (mg/L)	Sample (mg/L)	RPD	Q[1]	Limits (%)
Arsenic	7440-38-2	ND	ND			20
Barium	7440-39-3	ND	ND			20
Cadmium	7440-43-9	ND	ND			20
Chromium	7440-47-3	ND	ND			20
Lead	7439-92-1	ND	ND			20
Selenium	7782-49-2	ND	ND			20
Silver	7440-22-4	ND	ND			20

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

10

Quality Control Samples (Lab)

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14120180

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR47021B-ZHE)
Lab Sample ID: VBLK-98

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-318-6	EPA 8260C - TCLP-ZHE SW-846 1311	12/11/2014 09:49	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte	CAS No./IUPAC	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS10-318-6
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS10-318-6
2-Butanone	78-93-3	ND	50.0	10.0	U	MS10-318-6
Benzene	71-43-2	ND	10.0	10.0	U	MS10-318-6
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS10-318-6
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS10-318-6
Chloroform	67-66-3	ND	10.0	10.0	U	MS10-318-6
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS10-318-6
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS10-318-6
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS10-318-6

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	104	76.0-128		MS10-318-6
Dibromofluoromethane	1868-53-7	103	73.6-132		MS10-318-6
Toluene-d8	2037-26-5	104	84.4-115		MS10-318-6
1,2-Dichloroethane-d4	17060-07-0	98.1	79.9-120		MS10-318-6

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

11

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR47063L)
Lab Sample ID: LCS-98

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS10-318-4	EPA 8260C - TCLP-ZHE SW-846 1311	12/11/2014 09:01	TJH	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
1,1-Dichloroethene	75-35-4	40.0	47.2	118		70.0-130
1,2-Dichloroethane	107-06-2	40.0	35.6	88.9		70.0-130
2-Butanone	78-93-3	40.0	42.7	107		70.0-130
Benzene	71-43-2	40.0	45.4	114		70.0-130
Carbon Tetrachloride	56-23-5	40.0	44.6	112		70.0-130
Chlorobenzene	108-90-7	40.0	41.1	103		70.0-130
Chloroform	67-66-3	40.0	40.0	99.9		70.0-130
Tetrachloroethene	127-18-4	40.0	42.7	107		70.0-130
Trichloroethene	79-01-6	40.0	41.4	103		70.0-130
Vinyl Chloride	75-01-4	40.0	36.3	90.6		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	99.3	76.0-128		MS10-318-4
Dibromofluoromethane	1868-53-7	105	73.6-132		MS10-318-4
Toluene-d8	2037-26-5	101	84.4-115		MS10-318-4
1,2-Dichloroethane-d4	17060-07-0	89.1	79.9-120		MS10-318-4

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR47065B)
Lab Sample ID: SBLK-01

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-490-41	SW-846 8270D/TCLP Extraction Method 1311	12/12/2014 01:00	RMS	NA	NA	N/A
Prep 1:	29725	EPA 3510C	12/10/2014 10:10	KEN	200 mL	1.00 mL	NA

Analyte	CAS No./IUPAC	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS09-490-41
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS09-490-41
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS09-490-41
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS09-490-41
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS09-490-41
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS09-490-41
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS09-490-41
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-490-41
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS09-490-41
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS09-490-41
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS09-490-41
Pyridine	110-86-1	ND	50.0	1.00	U	MS09-490-41

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	85.3	22.8-161		MS09-490-41
2-Fluorobiphenyl	321-60-8	78.2	26.3-121		MS09-490-41
2-Fluorophenol	367-12-4	47.5	10.0-86.4		MS09-490-41
Terphenyl-d14	1718-51-0	97.2	33.7-154		MS09-490-41
Nitrobenzene-d5	4165-60-0	82.4	12.7-139		MS09-490-41
Phenol-d6	13127-88-3	32.9	10.0-87.4		MS09-490-41

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

11

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14120180

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR47065L)
Lab Sample ID: LCS-01

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-490-42	SW-846 8270D/TCLP Extraction Method 1311	12/12/2014 01:20	RMS	NA	NA	N/A
Prep 1:	29725	EPA 3510C	12/10/2014 10:10	KEN	200 mL	1.00 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
1,4-Dichlorobenzene	106-46-7	500	254	50.9		27.0-123
2,4,5-Trichlorophenol	95-95-4	500	394	78.9		30.0-128
2,4,6-Trichlorophenol	88-06-2	500	382	76.4		37.0-144
2,4-Dinitrotoluene	121-14-2	500	341	68.1		37.0-121
Hexachlorobenzene	118-74-1	500	329	65.8		42.0-117
Hexachlorobutadiene	87-68-3	500	240	48.0		31.0-110
Hexachloroethane	67-72-1	500	171	34.1		24.0-124
m&p-Methylphenol	108-39-4/106-44-5	1000	573	57.3		22.0-139
Nitrobenzene	98-95-3	500	322	64.3		34.0-119
o-Methylphenol	95-48-7	500	425	85.1		26.0-128
Pentachlorophenol	87-86-5	500	359	71.8		4.00-113
Pyridine	110-86-1	500	132	26.3		1.00-105

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	81.2	22.8-161		MS09-490-42
2-Fluorobiphenyl	321-60-8	78.1	26.3-121		MS09-490-42
2-Fluorophenol	367-12-4	40.1	10.0-86.4		MS09-490-42
Terphenyl-d14	1718-51-0	101	33.7-154		MS09-490-42
Nitrobenzene-d5	4165-60-0	75.1	12.7-139		MS09-490-42
Phenol-d6	13127-88-3	29.0	10.0-87.4		MS09-490-42

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

11

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14120180

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR47093B)
Lab Sample ID: PBLK-82

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1296-4	SW-846 8082A (PCB)	12/17/2014 10:36	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29769	EPA 3545A	12/16/2014 15:25	DSD	10.1 g	25.0 mL	NA

Analyte	CAS No./IUPAC	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC10F-1296-4
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC10F-1296-4
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1296-4

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	88.8	60.0-140		GC10F-1296-4
Decachlorobiphenyl	2051-24-3	90.9	60.0-140		GC10F-1296-4

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14120180

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR47093L)
Lab Sample ID: LCS-82

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1296-5	SW-846 8082A (PCB)	12/17/2014 10:48	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	29769	EPA 3545A	12/16/2014 15:25	DSD	10.5 g	25.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/g)	LCS (ug/g)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	1.19	1.10	92.8		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	91.5	60.0-140		GC10F-1296-5
Decachlorobiphenyl	2051-24-3	95.5	60.0-140		GC10F-1296-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 14120180

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR46988B)
Lab Sample ID: PBW-47

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1795-20	SW-846 7470/TCLP 1311	12/11/2014 15:11	CYC	NA	NA	NA
Prep 1:	5270	EPA 7470A	12/10/2014 11:26	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No./IUPAC	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1795-20

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

11

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 14120180

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR46988L)
Lab Sample ID: LCS-47

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1795-21	SW-846 7470/TCLP 1311	12/11/2014 15:13	CYC	NA	NA	NA
Prep 1:	5270	EPA 7470A	12/10/2014 11:26	CYC	4.00 mL	40.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q[1]	Limits (%)
Mercury	7439-97-6	0.0300	0.0309	103		80.0-120

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

11

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AR47093B)
Lab Sample ID: PBW-46

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-24	EPA 6010C/TCLP 1311	12/12/2014 11:02	LMS	NA	NA	NA
Prep 1:	5269	EPA 3005A	12/10/2014 11:19	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No./IUPAC	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1428-24
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1428-24
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1428-24
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1428-24
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1428-24
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1428-24
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1428-24

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)

Job Number: 14120180

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AR47093L)
Lab Sample ID: LCS-46

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1428-25	EPA 6010C/TCLP 1311	12/12/2014 11:05	LMS	NA	NA	NA
Prep 1:	5269	EPA 3005A	12/10/2014 11:19	CYC	10.0 mL	50.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q[1]	Limits (%)
Arsenic	7440-38-2	12.5	13.5	108		85.0-115
Barium	7440-39-3	25.0	25.8	103		85.0-115
Cadmium	7440-43-9	5.00	5.47	109		85.0-115
Chromium	7440-47-3	12.5	12.5	99.8		85.0-115
Lead	7439-92-1	12.5	13.1	104		85.0-115
Selenium	7782-49-2	5.00	5.61	112		85.0-115
Silver	7440-22-4	12.5	12.9	103		85.0-115

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

11

Subcontract Analysis

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 12/8/2014 3:20:00 PM
Received : 12/10/2014 11:15:00 AM AR47093
Collected By CLIENT

Lab No. : 1412840-001
Client Sample ID: D-08

Sample Information:
Type : Soil

Origin:

Analytical Method: SW1311/8151A : Prep Method: SW1311/8151 Prep Date: 12/12/2014 11:16:34 AM Analyst: MJM

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
2,4,5-TP (Silvex)	< 0.0025		1	mg/L			12/16/2014 1:06 PM	Container-01 of 02
2,4-D	< 0.0050		1	mg/L			12/16/2014 1:06 PM	Container-01 of 02
Surr: DCAA	65.0		1	%REC	Limit	36-121	12/16/2014 1:06 PM	Container-01 of 02

Analytical Method: SW1311/8081B : Prep Method: SW3510C Prep Date: 12/15/2014 2:15:17 PM Analyst: JS

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Chlordane	< 0.0040		1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Endrin	< 0.00040		1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
gamma-BHC	< 0.00020		1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Heptachlor	< 0.00020		1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Heptachlor epoxide	< 0.00020		1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Methoxychlor	< 0.0020		1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Toxaphene	< 0.020		1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Surr: Decachlorobiphenyl	92.8		1	%REC	Limit	30-150	12/15/2014 9:34 PM	Container-01 of 02
Surr: Tetrachloro-m-xylene	96.3		1	%REC	Limit	30-150	12/15/2014 9:34 PM	Container-01 of 02

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Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Caitlin Hutchinson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 12/17/2014

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: HERBICIDES, TCLP Leached **WorkOrder:** 1412840

Method: 1311_H **Lab Batch ID:** 47569

Method Blank

RunID: 66884 SeqNo 1454253 Units: mg/L

Analysis Date: 12/16/2014 11:47:33 AM Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
2,4-D	< 0.0050	0.0050	
2,4,5-TP (Silvex)	< 0.0025	0.0025	
Surr: DCAA	0.049	0	

Laboratory Control Sample (LCS/LFB)

RunID: 66884 SeqNo 1454254 Units: mg/L

Analysis Date: 12/16/2014 12:03:19 PM Analyst: MJM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0.02000	0.017	83.8						47	152	
2,4,5-TP (Silvex)	0.01000	0.0092	92.4						44	157	
Surr: DCAA	0.1000	0.051	50.7						36	121	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1412840-001A

RunID: 66884 SeqNo 1454259 Units: mg/L

Analysis Date: 12/16/2014 1:22:21 PM Analyst: MJM

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0	0.02000	0.019	97.1	39	111								
2,4,5-TP (Silvex)	0	0.01000	0.010	104	48	113								
Surr: DCAA		0.1000	0.092	91.9	36	121								

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Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: PESTICIDES, TCLP Leached **WorkOrder:** 1412840

Method: 1311_P **Lab Batch ID:** 47605

Method Blank

RunID: 66888 SeqNo 1454394 Units: mg/L

Analysis Date: 12/15/2014 7:49:29 PM Analyst: JS

Analyte	Result	Rep Limit	Rep Qual
gamma-BHC	< 0.00020	0.00020	
Heptachlor	< 0.00020	0.00020	
Heptachlor epoxide	< 0.00020	0.00020	
Endrin	< 0.00040	0.00040	
Methoxychlor	< 0.0020	0.0020	
Toxaphene	< 0.020	0.020	
Chlordane	< 0.0040	0.0040	
Surr: Tetrachloro-m-xylene	0.00036	0	
Surr: Decachlorobiphenyl	0.00043	0	

Laboratory Control Sample (LCS/LFB)

RunID: 66888 SeqNo 1454395 Units: mg/L

Analysis Date: 12/15/2014 8:10:32 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	.0008000	0.00067	83.9						27	146	
Heptachlor	.0008000	0.00068	85.1						10	148	
Heptachlor epoxide	.0008000	0.00072	90.1						28	144	
Endrin	.0008000	0.00074	92.5						22	152	
Methoxychlor	.0008000	< 0.0020	104						19	146	
Surr: Tetrachloro-m-xylene	.0004000	0.00037	93.1						30	150	
Surr: Decachlorobiphenyl	.0004000	0.00045	114						30	150	

Laboratory Control Sample (LCS/LFB)

RunID: 66888 SeqNo 1454396 Units: mg/L

Analysis Date: 12/15/2014 8:31:41 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Toxaphene	0.04000	0.039	97.9						46	168	E
Surr: Tetrachloro-m-xylene	.0004000	0.00031	78.7						30	150	
Surr: Decachlorobiphenyl	.0004000	0.00037	93.6						30	150	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

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PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: PESTICIDES, TCLP Leached **WorkOrder:** 1412840

Method: 1311_P **Lab Batch ID:** 47605

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1412840-001a

RunID: 66888 SeqNo 1454401 Units: mg/L

Analysis Date: 12/15/2014 10:16:58 PM Analyst: JS

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	0	0008000	0.00052	65.0	58	124								
Heptachlor	0	0008000	0.00053	66.4	61	110								
Heptachlor epoxide	0	0008000	0.00057	71.6	52	131								
Endrin	0	0008000	0.00063	79.1	57	147								
Methoxychlor	0	0008000	0.0020	92.9	51	124								
Surr: Tetrachloro-m-xylene		0004000	0.00033	81.8	30	150								
Surr: Decachlorobiphenyl		0004000	0.00038	94.6	30	150								

Laboratory Control Sample (LCS/LFB)

RunID: 66432 SeqNo 1443607 Units: mg/L

Analysis Date: 12/4/2014 7:25:59 PM Analyst: MJM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Surr: DCAA	0.1000	0.11	106						36	121	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name **PACE-NY** Date and Time Received: **12/10/2014 11:15:00 AM**

Work Order Number: **1412840** RcptNo: **1** Received by

Completed by: Reviewed by:

Completed Date: 12/11/2014 10:58:01 AM Reviewed Date: 12/17/2014 4:33:06 PM

Carrier name: FedEx

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To 4.4 °	
Water - Were bubbles absent in VOC vials?	Yes	☐	No	☐	No Vials	☑
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☐	No	☐	No Water	☑
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☐	No	☑		
Airbill or Sticker?	Air Bill	☑	Sticker	☐	Not Present	☐

Airbill No:

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☑ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

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Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1412840

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

PACE-L1

CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.pacelabs.com

LRF # 14120180
(LAB USE ONLY)

DISPOSAL REQUIREMENTS: (To be filled in by Client)
- ○ RETURN TO CLIENT
- ● DISPOSAL BY RECEIVING LAB
- ○ ARCHIVAL BY RECEIVING LAB

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

CLIENT (REPORTS TO BE SENT TO): PACE	PROJECT#/PROJECT NAME: 14120180
PROJECT MANAGER: Kelly Miller	LOCATION (CITY/STATE) ADDRESS: NY
SAMPLED BY: (Please Print)	REQUIRED TURN AROUND TIME: 12/18/2014
SAMPLING FIRM:	NAME OF COURIER (IF USED):

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE KEY: 0 - ICE; 1 - HCL; 2 - HNO3; 3 - H2SO4; 4 - NaOH; 5 - Zn. Acetate; 6 - MeOH; 7 - NaHSO4; 8 - Other (Na2SO3)

ELECTRONIC RESULTS
FAXED RESULTS
FAX #:

SAMPLE ID	DATE	TIME	MATRIX	GRAB/ COMP	LAB SAMPLE ID (LAB USE ONLY)	NUMBER OF CONTAINERS	TCLP-Herb	TCLP-Pest	REMARKS
D-08	12/8/14	15:20	S	COMP	AR47093	2	X	X	1412840

AMBIENT OR CHILLED: TEMP: COC TAPE: Y N PROPERLY PRESERVED: Y N OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DE

RECEIVED BROKEN OR LEAKING: Y N COC DISCREPANCIES: Y N RECVD W/I HOLDING TIMES: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE [signature]	SIGNATURE VIA FEDEX	SIGNATURE [signature]	SIGNATURE [signature]	SIGNATURE	SIGNATURE
PRINTED NAME CAL	PRINTED NAME	PRINTED NAME	PRINTED NAME TOR	PRINTED NAME	PRINTED NAME
COMPANY Pace	COMPANY	COMPANY	COMPANY	COMPANY	COMPANY
DATE/TIME 12/9/14 1500	DATE/TIME	DATE/TIME	DATE/TIME 12/10/14 11:15	DATE/TIME	DATE/TIME

S:\LOGIN\MDLCOCS

TOR

Date Issued: February 09, 2015

Pace Analytical e-Report

Report prepared for:
BARTON AND LOGUIDICE
10 AIRLINE DRIVE
ALBANY, NY 12205
CONTACT: ANDY BARBER

Project ID: ALCO
Sampling Date(s): January 29, 2015
Lab Report ID: 15010580
Client Service Contact: Kelly Miller (518) 346-4592 ext. 3844

Analysis Included:
VOCs by GCMS (TCLP)
SVOCs by GCMS (TCLP)
PCB Analysis
Herbicides (TCLP) - Sub - Pace-LI
TCLP Pesticides - Sub - Pace-LI
Mercury Analysis (TCLP)
Metals by ICP (TCLP- RCRA)
Percent Total Solid

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith
Technical Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

CASE NARRATIVE

February 09, 2015

CASE NARRATIVE

This data package (SDG ID: 15010580) consists of 1 soil sample received on 01/29/2015. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AS02427	D-09	01/29/2015 09:45

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via DROP OFF delivery service on 01/29/2015.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) All samples were received at the laboratory properly preserved with any exceptions listed below:
Samples received outside acceptable temperature limits of 0-6C.

Volatile Organics Analysis

Analysis for Volatile Organics was performed by method SW-846 8260C -TCLP/ZHE SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Semivolatile Organics Analysis

Analysis for Semivolatile Organics was performed by method SW-846 8270D - TCLP SW-846 1311. Samples were extracted by Separatory Funnel Extraction Method (3510C). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Mercury Analysis

Analysis for mercury was performed by method SW-846 7470A - TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Metals Analysis by ICP

Analysis for metals was performed by method SW-846 6010C/TCLP SW-846 1311. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

1

Subcontract Analysis

(1.) Please see Pace NY-LI lab report for quality assurance details.

Respectfully submitted,

Kelly A. Miller

Kelly A. Miller
Project Manager

S:\Lims Data\1501\15010580\Package\CN_15010580_Rev00.doc

QUALIFIERS

Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

Pace Analytical
www.pacelabs.com

New York Office
2190 Technology Dr.
Schenectady, NY 12308
(518) 346-4592

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<15010580P1>

150105801

Page: 1 of 1

Section A
Required Client Information:

Company:	Barton and Loguidice DPC
Address:	10 Airline Drive, Suite 200
	Albany, NY 12205
Email To:	nshaffer@bartonandloguidice.com
Phone:	518-218-1801 Fax: 518-218-1805
Requested Due Date/TAT:	Standard

Section B
Required Project Information:

Report To:	Andy Barber
Copy To:	Nathan Shaffer
Purchase Order No.:	
Project Name:	ALCO
Project Number:	1368.001.001

Section C
Invoice Information:

Attention:	Accounts Payable
Company Name:	Barton and Loguidice, DPC
Address:	290 Elwood Davis Road, Box 3107 Syracuse NY, 13220
Pace Quote Reference:	00014909
Pace Project Manager:	Kelly Miller
Pace Profile #:	

REGULATORY AGENCY

NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐
UST ☐ RCRA ☐ OTHER ☐

SITE LOCATION

GA ☐ IL ☐ IN ☐ MI ☐ NC ☐
OH ☐ SC ☐ WI ☐ OTHER ☐

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: * Colonie Landfill	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.	* TCLP - 8260, 8270, herbicides, pesticides, metals, and mercury. Regular PCB's
1	D-09	SL	G	1/25	5:45	1/25	5:45		4	x								x		AS02427	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Standard Deliverables		1/29/15	10:20	(PACE)	1/29/15	10:21

SAMPLE CONDITIONS				
	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	6.8 (IR)	Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nathan Shaffer

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 1/29/15

Pace Analytical

Sample Condition Upon Receipt

<15010580P2>

150105802

CLIENT NAME: BAR-ALB

PROJECT : ALCO

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐

TRACKING # N/A

CUSTODY SEAL PRESENT: Yes ☐ No ☒ INTACT: Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ☐

ICE USED: Wet ☐ Blue ☐ None ☒

THERMOMETER USED: #164 ☐ IR Gun 03 ☒ #122087967 ☐

COOLER TEMPERATURE (°C): 6.8

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒

Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☒Yes	☐No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☒Yes	☐No		12.
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	☐Yes	☐No	☒N/A	Initial when completed: N/A — Lot # of added preservative: N/A
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: N/A				

Sample Receipt form filled in: AJB 1/29/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH): AJB 1/29/15

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): AJB 1/29/15

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): AJB 1/29/15

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
15010580

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE
PROJECT: ALCO
LRF: 15010580
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: 7 DAYS

RECEIVED DATE: 01/29/2015 10:21
SHIPPED VIA: DROP OFF [1,2]
SHIPPING ID: N. SHAFFER/ BAR-ALB
NUMBER OF COOLERS: 0
CUSTODY SEAL INTACT: NA
COOLER STATUS: AMBIENT
TEMPERATURE(S): [5] 6.8 (IR) °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: NO
[3] **SAMPLES REC'D IN HOLDTIME:** YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:
UPON RECEIPT AT THE LAB, SAMPLE TEMPERATURE WAS GREATER THAN 6C. NO ICE WAS PRESENT.

CLIENT ID (LAB ID)	TAT-DUE Date[4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-09 (AS02427)	7 DAYS 02-09-15	01/29/2015 09:45	Soil	EPA 6010C	Metals by ICP (TCLP- RCRA)	
	7 DAYS 02-09-15	01/29/2015 09:45	Soil	EPA 7470A	Mercury Analysis (TCLP)	
	7 DAYS 02-09-15	01/29/2015 09:45	Soil	EPA 8082A	PCB Analysis	
	7 DAYS 02-09-15	01/29/2015 09:45	Soil	EPA 8260C	VOCs by GCMS (TCLP)	
	7 DAYS 02-09-15	01/29/2015 09:45	Soil	EPA 8270D	SVOCs by GCMS (TCLP)	
	7 DAYS 02-09-15	01/29/2015 09:45	Soil	SW-846 8081	TCLP Pesticides - Sub - Pace-LI	
	7 DAYS 02-09-15	01/29/2015 09:45	Soil	SW-846 8151A	Herbicides (TCLP) - Sub - Pace-LI	

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[1]The pH preservation check of Oil and Grease (Method 1664) is performed as soon as possible after sample receipt and may not be included in this report.
[2]The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3]Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4]Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made. The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5]All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.

Reporting Parameters and Lists

EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)
- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Selenium
- Silver

EPA 7470A - Mercury Analysis (TCLP) - (mg/L)
- Mercury

EPA 8082A - PCB Analysis - (ug/g)
- Aroclor 1016
- Aroclor 1221
- Aroclor 1232
- Aroclor 1242
- Aroclor 1248
- Aroclor 1254
- Aroclor 1260
- Total PCB Amount > RL

EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)
- 1,1-Dichloroethene
- 1,2-Dichloroethane
- 2-Butanone
- Benzene
- Carbon Tetrachloride
- Chlorobenzene
- Chloroform
- Tetrachloroethene
- Trichloroethene
- Vinyl Chloride

EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)
- 1,4-Dichlorobenzene
- 2,4,5-Trichlorophenol
- 2,4,6-Trichlorophenol
- 2,4-Dinitrotoluene
- Hexachlorobenzene
- Hexachlorobutadiene
- Hexachloroethane
- m&p-Methylphenol
- Nitrobenzene
- o-Methylphenol
- Pentachlorophenol
- Pyridine

GC/MS Volatiles

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-09
Lab Sample ID: 15010580-01 (AS02427)

Collection Date: 01/29/2015 09:45
Sample Matrix: SOIL(TCLP)
Received Date: 01/29/2015 10:21
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS11-22-13	EPA 8260C - TCLP-ZHE SW-846 1311	01/30/2015 16:00	TJH	NA	NA	N/A

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	1.00	1.00	U	MS11-22-13
1,2-Dichloroethane	107-06-2	ND	1.00	1.00	U	MS11-22-13
2-Butanone	78-93-3	ND	5.00	1.00	U	MS11-22-13
Benzene	71-43-2	ND	1.00	1.00	U	MS11-22-13
Carbon Tetrachloride	56-23-5	ND	1.00	1.00	U	MS11-22-13
Chlorobenzene	108-90-7	ND	1.00	1.00	U	MS11-22-13
Chloroform	67-66-3	ND	1.00	1.00	U	MS11-22-13
Tetrachloroethene	127-18-4	ND	1.00	1.00	U	MS11-22-13
Trichloroethene	79-01-6	ND	1.00	1.00	U	MS11-22-13
Vinyl Chloride	75-01-4	ND	1.00	1.00	U	MS11-22-13

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	101	76.0-128		MS11-22-13
Dibromofluoromethane	1868-53-7	97.5	73.6-132		MS11-22-13
Toluene-d8	2037-26-5	101	84.4-115		MS11-22-13
1,2-Dichloroethane-d4	17060-07-0	91.8	79.9-120		MS11-22-13

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Sample temperature was outside of method acceptance limits at the time of receipt.

GC/MS Semivolatiles

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-09
Lab Sample ID: 15010580-01 (AS02427)

Collection Date: 01/29/2015 09:45
Sample Matrix: SOIL(TCLP)
Received Date: 01/29/2015 10:21
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS07-1479-11	SW-846 8270D/TCLP Extraction Method 1311	02/04/2015 17:43	RMS	NA	NA	Varian, VF-5MS,30 m, 0.25 mm ID, 0.25 µm
Prep 1:	30035	EPA 3510C	02/04/2015 08:59	KEN	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS07-1479-11
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS07-1479-11
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS07-1479-11
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS07-1479-11
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS07-1479-11
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS07-1479-11
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS07-1479-11
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS07-1479-11
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS07-1479-11
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS07-1479-11
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS07-1479-11
Pyridine	110-86-1	ND	50.0	1.00	U	MS07-1479-11

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	87.6	22.8-161		MS07-1479-11
2-Fluorobiphenyl	321-60-8	69.4	26.3-121		MS07-1479-11
2-Fluorophenol	367-12-4	38.4	10.0-86.4		MS07-1479-11
Terphenyl-d14	1718-51-0	67.6	33.7-154		MS07-1479-11
Nitrobenzene-d5	4165-60-0	67.5	12.7-139		MS07-1479-11
Phenol-d6	13127-88-3	25.2	10.0-87.4		MS07-1479-11

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Sample temperature was outside of method acceptance limits at the time of receipt.

GC - PCB

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Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-09
Lab Sample ID: 15010580-01 (AS02427)

Collection Date: 01/29/2015 09:45
Sample Matrix: SOIL
Received Date: 01/29/2015 10:21
Percent Solid: 80.2 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC20F-2114-7	SW-846 8082A (PCB)	02/05/2015 10:14	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	30025	EPA 3545A	02/03/2015 12:09	MH	10.5 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0591	1.00	U	GC20F-2114-7
Aroclor 1221	11104-28-2	ND	0.0591	1.00	U	GC20F-2114-7
Aroclor 1232	11141-16-5	ND	0.0591	1.00	U	GC20F-2114-7
Aroclor 1242	53469-21-9	ND	0.0591	1.00	U	GC20F-2114-7
Aroclor 1248	12672-29-6	ND	0.0591	1.00	U	GC20F-2114-7
Aroclor 1254	11097-69-1	ND	0.0591	1.00	U	GC20F-2114-7
Aroclor 1260	11096-82-5	ND	0.0591	1.00	U	GC20F-2114-7
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC20F-2114-7

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	86.7	60.0-140		GC20F-2114-7
Decachlorobiphenyl	2051-24-3	97.0	60.0-140		GC20F-2114-7

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Sample temperature was outside of method acceptance limits at the time of receipt.

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Mercury

Pace Analytical®

Analytical Sample Results

Job Number: 15010580

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-09
Lab Sample ID: 15010580-01 (AS02427)

Collection Date: 01/29/2015 09:45
Sample Matrix: SOIL(TCLP)
Received Date: 01/29/2015 10:21
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1845-49	SW-846 7470/TCLP 1311	02/04/2015 15:17	CYC	NA	NA	NA
Prep 1:	5384	EPA 7470A	02/03/2015 09:34	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1845-49

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Sample temperature was outside of method acceptance limits at the time of receipt.

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Metals - ICP

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-09
Lab Sample ID: 15010580-01 (AS02427)

Collection Date: 01/29/2015 09:45
Sample Matrix: SOIL(TCLP)
Received Date: 01/29/2015 10:21
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1488-25	EPA 6010C/TCLP 1311	02/03/2015 12:13	LMS	NA	NA	NA
Prep 1:	5381	EPA 3005A	01/30/2015 12:00	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1488-25
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1488-25
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1488-25
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1488-25
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1488-25
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1488-25
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1488-25

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Sample temperature was outside of method acceptance limits at the time of receipt.

Quality Control Samples (Field)

Pace Analytical®

Quality Control Results
Matrix Spike Sample (MS)
Job Number: 15010580

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-09 MS
Lab Sample ID: 15010580-01M (AS02427M)

Collection Date: N/A
Sample Matrix: SOIL(TCLP)
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS07-1479-12	SW-846 8270D/TCLP Extraction Method 1311	02/04/2015 18:27	RMS	NA	NA	Varian, VF-5MS,30 m, 0.25 mm ID, 0.25 µm
Prep 1:	30035	EPA 3510C	02/04/2015 08:59	KEN	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	**251**	50.0	1.00		MS07-1479-12
2,4,5-Trichlorophenol	95-95-4	**396**	50.0	1.00		MS07-1479-12
2,4,6-Trichlorophenol	88-06-2	**354**	50.0	1.00		MS07-1479-12
2,4-Dinitrotoluene	121-14-2	**493**	50.0	1.00		MS07-1479-12
Hexachlorobenzene	118-74-1	**290**	50.0	1.00		MS07-1479-12
Hexachlorobutadiene	87-68-3	**237**	50.0	1.00		MS07-1479-12
Hexachloroethane	67-72-1	**220**	50.0	1.00		MS07-1479-12
m&p-Methylphenol	108-39-4/106-44-5	**658**	50.0	1.00	E	MS07-1479-12
Nitrobenzene	98-95-3	**315**	50.0	1.00		MS07-1479-12
o-Methylphenol	95-48-7	**273**	50.0	1.00		MS07-1479-12
Pentachlorophenol	87-86-5	**482**	50.0	1.00		MS07-1479-12
Pyridine	110-86-1	**155**	50.0	1.00		MS07-1479-12

Analyte Spiked	CAS No.	Sample (ug/L)	Added (ug/L)	MS (ug/L)	MS % Rec.	Q[1]	Limits (%)
1,4-Dichlorobenzene	106-46-7		500	251	50.3		27.0-123
2,4,5-Trichlorophenol	95-95-4		500	396	79.2		30.0-128
2,4,6-Trichlorophenol	88-06-2		500	354	70.8		37.0-144
2,4-Dinitrotoluene	121-14-2		500	493	98.5		37.0-121
Hexachlorobenzene	118-74-1		500	290	57.9		42.0-117
Hexachlorobutadiene	87-68-3		500	237	47.5		31.0-110
Hexachloroethane	67-72-1		500	220	44.0		24.0-124
m&p-Methylphenol	108-39-4/106-44-5		1000	658	65.8		22.0-139
Nitrobenzene	98-95-3		500	315	63.0		34.0-119
o-Methylphenol	95-48-7		500	273	54.7		26.0-128
Pentachlorophenol	87-86-5		500	482	96.3		4.00-113
Pyridine	110-86-1		500	155	31.0		1.00-105

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	87.4	22.8-161		MS07-1479-12
2-Fluorobiphenyl	321-60-8	71.1	26.3-121		MS07-1479-12
2-Fluorophenol	367-12-4	37.5	10.0-86.4		MS07-1479-12
Terphenyl-d14	1718-51-0	61.4	33.7-154		MS07-1479-12
Nitrobenzene-d5	4165-60-0	64.0	12.7-139		MS07-1479-12
Phenol-d6	13127-88-3	24.9	10.0-87.4		MS07-1479-12

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Sample temperature was outside of method acceptance limits at the time of receipt.

Quality Control Samples (Lab)

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 15010580

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AS02132L)
Lab Sample ID: LCS-92

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS11-22-4	EPA 8260C - TCLP-ZHE SW-846 1311	01/30/2015 11:20	TJH	NA	NA	N/A

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
1,1-Dichloroethene	75-35-4	40.0	40.7	102		70.0-130
1,2-Dichloroethane	107-06-2	40.0	37.8	94.6		70.0-130
2-Butanone	78-93-3	40.0	38.7	96.7		70.0-130
Benzene	71-43-2	40.0	38.2	95.4		70.0-130
Carbon Tetrachloride	56-23-5	40.0	40.5	101		70.0-130
Chlorobenzene	108-90-7	40.0	38.2	95.4		70.0-130
Chloroform	67-66-3	40.0	39.5	98.6		70.0-130
Tetrachloroethene	127-18-4	40.0	39.9	99.7		70.0-130
Trichloroethene	79-01-6	40.0	42.0	105		70.0-130
Vinyl Chloride	75-01-4	40.0	38.4	96.0		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	101	76.0-128		MS11-22-4
Dibromofluoromethane	1868-53-7	103	73.6-132		MS11-22-4
Toluene-d8	2037-26-5	97.7	84.4-115		MS11-22-4
1,2-Dichloroethane-d4	17060-07-0	97.5	79.9-120		MS11-22-4

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 15010580

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AS02427B-ZHE)
Lab Sample ID: VBLK-92

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS11-22-5	EPA 8260C - TCLP-ZHE SW-846 1311	01/30/2015 11:47	TJH	NA	NA	N/A

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,1-Dichloroethene	75-35-4	ND	10.0	10.0	U	MS11-22-5
1,2-Dichloroethane	107-06-2	ND	10.0	10.0	U	MS11-22-5
2-Butanone	78-93-3	ND	50.0	10.0	U	MS11-22-5
Benzene	71-43-2	ND	10.0	10.0	U	MS11-22-5
Carbon Tetrachloride	56-23-5	ND	10.0	10.0	U	MS11-22-5
Chlorobenzene	108-90-7	ND	10.0	10.0	U	MS11-22-5
Chloroform	67-66-3	ND	10.0	10.0	U	MS11-22-5
Tetrachloroethene	127-18-4	ND	10.0	10.0	U	MS11-22-5
Trichloroethene	79-01-6	ND	10.0	10.0	U	MS11-22-5
Vinyl Chloride	75-01-4	ND	10.0	10.0	U	MS11-22-5

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
4-Bromofluorobenzene	460-00-4	100	76.0-128		MS11-22-5
Dibromofluoromethane	1868-53-7	100	73.6-132		MS11-22-5
Toluene-d8	2037-26-5	100	84.4-115		MS11-22-5
1,2-Dichloroethane-d4	17060-07-0	98.2	79.9-120		MS11-22-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Pace Analytical Services, Inc.
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Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AS02427B)
Lab Sample ID: SBLK-68

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS07-1479-9	SW-846 8270D/TCLP Extraction Method 1311	02/04/2015 16:15	RMS	NA	NA	Varian, VF-5MS,30 m, 0.25 mm ID, 0.25 µm
Prep 1:	30035	EPA 3510C	02/04/2015 08:59	KEN	200 mL	1.00 mL	NA

Analyte	CAS No.	Result (ug/L)	PQL	Dilution Factor	Flags	File ID
1,4-Dichlorobenzene	106-46-7	ND	50.0	1.00	U	MS07-1479-9
2,4,5-Trichlorophenol	95-95-4	ND	50.0	1.00	U	MS07-1479-9
2,4,6-Trichlorophenol	88-06-2	ND	50.0	1.00	U	MS07-1479-9
2,4-Dinitrotoluene	121-14-2	ND	50.0	1.00	U	MS07-1479-9
Hexachlorobenzene	118-74-1	ND	50.0	1.00	U	MS07-1479-9
Hexachlorobutadiene	87-68-3	ND	50.0	1.00	U	MS07-1479-9
Hexachloroethane	67-72-1	ND	50.0	1.00	U	MS07-1479-9
m&p-Methylphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS07-1479-9
Nitrobenzene	98-95-3	ND	50.0	1.00	U	MS07-1479-9
o-Methylphenol	95-48-7	ND	50.0	1.00	U	MS07-1479-9
Pentachlorophenol	87-86-5	ND	50.0	1.00	U	MS07-1479-9
Pyridine	110-86-1	ND	50.0	1.00	U	MS07-1479-9

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	68.2	22.8-161		MS07-1479-9
2-Fluorobiphenyl	321-60-8	70.2	26.3-121		MS07-1479-9
2-Fluorophenol	367-12-4	34.0	10.0-86.4		MS07-1479-9
Terphenyl-d14	1718-51-0	65.3	33.7-154		MS07-1479-9
Nitrobenzene-d5	4165-60-0	66.7	12.7-139		MS07-1479-9
Phenol-d6	13127-88-3	24.2	10.0-87.4		MS07-1479-9

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

11

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 15010580

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AS02427L)
Lab Sample ID: LCS-68

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS07-1479-10	SW-846 8270D/TCLP Extraction Method 1311	02/04/2015 16:59	RMS	NA	NA	Varian, VF-5MS,30 m, 0.25 mm ID, 0.25 µm
Prep 1:	30035	EPA 3510C	02/04/2015 08:59	KEN	200 mL	1.00 mL	NA

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	Q[1]	Limits (%)
1,4-Dichlorobenzene	106-46-7	500	281	56.2		27.0-123
2,4,5-Trichlorophenol	95-95-4	500	372	74.4		30.0-128
2,4,6-Trichlorophenol	88-06-2	500	343	68.6		37.0-144
2,4-Dinitrotoluene	121-14-2	500	490	98.1		37.0-121
Hexachlorobenzene	118-74-1	500	355	70.9		42.0-117
Hexachlorobutadiene	87-68-3	500	243	48.5		31.0-110
Hexachloroethane	67-72-1	500	254	50.7		24.0-124
m&p-Methylphenol	108-39-4/106-44-5	1000	699	69.9		22.0-139
Nitrobenzene	98-95-3	500	313	62.7		34.0-119
o-Methylphenol	95-48-7	500	293	58.6		26.0-128
Pentachlorophenol	87-86-5	500	492	98.4		4.00-113
Pyridine	110-86-1	500	196	39.2		1.00-105

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
2,4,6-Tribromophenol	118-79-6	76.5	22.8-161		MS07-1479-10
2-Fluorobiphenyl	321-60-8	74.0	26.3-121		MS07-1479-10
2-Fluorophenol	367-12-4	39.9	10.0-86.4		MS07-1479-10
Terphenyl-d14	1718-51-0	66.4	33.7-154		MS07-1479-10
Nitrobenzene-d5	4165-60-0	66.8	12.7-139		MS07-1479-10
Phenol-d6	13127-88-3	27.2	10.0-87.4		MS07-1479-10

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

11

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 15010580

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AS02313B)
Lab Sample ID: PBLK-40

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC20F-2114-4	SW-846 8082A (PCB)	02/05/2015 09:36	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	30025	EPA 3545A	02/03/2015 12:07	MH	10.2 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC20F-2114-4
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC20F-2114-4
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC20F-2114-4
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC20F-2114-4
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC20F-2114-4
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC20F-2114-4
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC20F-2114-4
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC20F-2114-4

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	78.9	60.0-140		GC20F-2114-4
Decachlorobiphenyl	2051-24-3	101	60.0-140		GC20F-2114-4

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 15010580

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AS02313L)
Lab Sample ID: LCS-40

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC20F-2114-5	SW-846 8082A (PCB)	02/05/2015 09:49	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	30025	EPA 3545A	02/03/2015 12:08	MH	10.4 g	25.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/g)	LCS (ug/g)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	1.21	0.961	79.7		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	71.5	60.0-140		GC20F-2114-5
Decachlorobiphenyl	2051-24-3	87.7	60.0-140		GC20F-2114-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

11

Pace Analytical®

Quality Control Results
Method Blank

Job Number: 15010580

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AS02121B)
Lab Sample ID: PBW-39

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1845-47	SW-846 7470/TCLP 1311	02/04/2015 15:14	CYC	NA	NA	NA
Prep 1:	5384	EPA 7470A	02/03/2015 09:34	CYC	4.00 mL	40.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Mercury	7439-97-6	ND	0.0200	1.00	U	MER1-1845-47

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Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 15010580

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AS02121L)
Lab Sample ID: LCS-39

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MER1-1845-48	SW-846 7470/TCLP 1311	02/04/2015 15:15	CYC	NA	NA	NA
Prep 1:	5384	EPA 7470A	02/03/2015 09:34	CYC	4.00 mL	40.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q[1]	Limits (%)
Mercury	7439-97-6	0.0300	0.0337	112		80.0-120

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

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PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Quality Control Results
Method Blank

Job Number: 15010580

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AS02070B)
Lab Sample ID: PBW-36

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1488-23	EPA 6010C/TCLP 1311	02/03/2015 12:08	LMS	NA	NA	NA
Prep 1:	5381	EPA 3005A	01/30/2015 12:00	CYC	10.0 mL	50.0 mL	NA

Analyte	CAS No.	Result (mg/L)	PQL	Dilution Factor	Flags	File ID
Arsenic	7440-38-2	ND	0.500	1.00	U	ICP2-1488-23
Barium	7440-39-3	ND	1.00	1.00	U	ICP2-1488-23
Cadmium	7440-43-9	ND	0.100	1.00	U	ICP2-1488-23
Chromium	7440-47-3	ND	0.500	1.00	U	ICP2-1488-23
Lead	7439-92-1	ND	0.500	1.00	U	ICP2-1488-23
Selenium	7782-49-2	ND	0.250	1.00	U	ICP2-1488-23
Silver	7440-22-4	ND	0.500	1.00	U	ICP2-1488-23

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Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 15010580

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AS02070L)
Lab Sample ID: LCS-36

Collection Date: N/A
Sample Matrix: TCLP
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	ICP2-1488-24	EPA 6010C/TCLP 1311	02/03/2015 12:11	LMS	NA	NA	NA
Prep 1:	5381	EPA 3005A	01/30/2015 12:00	CYC	10.0 mL	50.0 mL	NA

Analyte Spiked	CAS No.	Added (mg/L)	LCS (mg/L)	LCS % Rec.	Q[1]	Limits (%)
Arsenic	7440-38-2	12.5	13.6	109		85.0-115
Barium	7440-39-3	25.0	25.0	100		85.0-115
Cadmium	7440-43-9	5.00	5.16	103		85.0-115
Chromium	7440-47-3	12.5	12.7	101		85.0-115
Lead	7439-92-1	12.5	12.7	102		85.0-115
Selenium	7782-49-2	5.00	5.56	111		85.0-115
Silver	7440-22-4	12.5	12.8	103		85.0-115

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Subcontract Analysis

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 1/29/2015 9:45:00 AM
Received : 1/30/2015 11:00:00 AM
Collected By CLIENT

Lab No. : 1501H35-001
Client Sample ID: D-09

Sample Information:
Type : Soil

Origin:

AS02427 Please note samples received out of tempature range at Schenectady lab at 6.8

Analytical Method: SW1311/8151A : Prep Method: SW1311/8151 Prep Date: 2/4/2015 5:08:53 PM Analyst: MJM

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
2,4,5-TP (Silvex)	< 0.0025		1	mg/L			02/05/2015 11:44 PM	Container-01 of 02
2,4-D	< 0.0050		1	mg/L			02/05/2015 11:44 PM	Container-01 of 02
Surr: DCAA	99.0		1	%REC	Limit	36-121	02/05/2015 11:44 PM	Container-01 of 02

Analytical Method: SW1311/8081B : Prep Method: SW3510C Prep Date: 2/5/2015 8:24:58 PM Analyst: JS

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Chlordane	< 0.0040		1	mg/L			02/06/2015 3:32 AM	Container-01 of 02
Endrin	< 0.00040		1	mg/L			02/06/2015 3:32 AM	Container-01 of 02
gamma-BHC	< 0.00020		1	mg/L			02/06/2015 3:32 AM	Container-01 of 02
Heptachlor	< 0.00020		1	mg/L			02/06/2015 3:32 AM	Container-01 of 02
Heptachlor epoxide	< 0.00020		1	mg/L			02/06/2015 3:32 AM	Container-01 of 02
Methoxychlor	< 0.0020		1	mg/L			02/06/2015 3:32 AM	Container-01 of 02
Toxaphene	< 0.020		1	mg/L			02/06/2015 3:32 AM	Container-01 of 02
Surr: Decachlorobiphenyl	101		1	%REC	Limit	30-150	02/06/2015 3:32 AM	Container-01 of 02
Surr: Tetrachloro-m-xylene	185	S	1	%REC	Limit	30-150	02/06/2015 3:32 AM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Caitlin Hutchinson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 2/8/2015

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: HERBICIDES, TCLP Leached **WorkOrder:** 1501H35

Method: 1311_H **Lab Batch ID:** 48324

Method Blank

RunID: 69355 SeqNo 1507740 Units: mg/L

Analysis Date: 2/5/2015 10:57:31 PM Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
2,4-D	< 0.0050	0.0050	
2,4,5-TP (Silvex)	< 0.0025	0.0025	
Surr: DCAA	0.064	0	

Laboratory Control Sample (LCS/LFB)

RunID: 69355 SeqNo 1507741 Units: mg/L

Analysis Date: 2/5/2015 11:13:20 PM Analyst: MJM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0.02000	0.018	92.2						47	152	
2,4,5-TP (Silvex)	0.01000	0.0088	88.1						44	157	
Surr: DCAA	0.1000	0.068	68.1						36	121	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1501H35-001A

RunID: 69355 SeqNo 1507745 Units: mg/L

Analysis Date: 2/6/2015 12:16:21 AM Analyst: MJM

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0	0.02000	0.018	89.9	39	111								
2,4,5-TP (Silvex)	0	0.01000	0.0090	89.6	48	113								
Surr: DCAA		0.1000	0.070	70.2	36	121								

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: PESTICIDES, TCLP Leached **WorkOrder:** 1501H35

Method: 1311_P **Lab Batch ID:** 48360

Method Blank

RunID: 69351 SeqNo 1507677 Units: mg/L

Analysis Date: 2/6/2015 2:29:03 AM Analyst: JS

Analyte	Result	Rep Limit	Rep Qual
gamma-BHC	< 0.00020	0.00020	
Heptachlor	< 0.00020	0.00020	
Heptachlor epoxide	< 0.00020	0.00020	
Endrin	< 0.00040	0.00040	
Methoxychlor	< 0.0020	0.0020	
Toxaphene	< 0.020	0.020	
Chlordane	< 0.0040	0.0040	
Surr: Tetrachloro-m-xylene	0.00037	0	
Surr: Decachlorobiphenyl	0.00043	0	

Laboratory Control Sample (LCS/LFB)

RunID: 69351 SeqNo 1507678 Units: mg/L

Analysis Date: 2/6/2015 2:50:04 AM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	.0008000	0.00074	92.8						27	146	
Heptachlor	.0008000	0.00069	86.3						10	148	
Heptachlor epoxide	.0008000	0.00075	93.7						28	144	
Endrin	.0008000	0.00078	97.1						22	152	
Methoxychlor	.0008000	< 0.0020	109						19	146	
Surr: Tetrachloro-m-xylene	.0004000	0.00036	90.5						30	150	
Surr: Decachlorobiphenyl	.0004000	0.00046	114						30	150	

Laboratory Control Sample (LCS/LFB)

RunID: 69351 SeqNo 1507679 Units: mg/L

Analysis Date: 2/6/2015 3:11:12 AM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Toxaphene	0.04000	0.036	90.9						46	168	E
Surr: Tetrachloro-m-xylene	.0004000	0.00034	84.7						30	150	
Surr: Decachlorobiphenyl	.0004000	0.00034	86.0						30	150	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

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PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: PESTICIDES, TCLP Leached **WorkOrder:** 1501H35

Method: 1311_P **Lab Batch ID:** 48360

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1501h35-001a

RunID: 69351 SeqNo 1507683 Units: mg/L

Analysis Date: 2/6/2015 4:35:23 AM Analyst: JS

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	0007760	0008000	0.00077	86.1	58	124								
Heptachlor	0	0008000	0.00082	102	61	110								
Heptachlor epoxide	0001296	0008000	0.00089	95.6	52	131								
Endrin	0001480	0008000	0.00079	97.3	57	147								
Methoxychlor	0	0008000	0.0020	125	51	124								
Surr: Tetrachloro-m-xylene		0008000	0.00084	105	30	150								
Surr: Decachlorobiphenyl		0004000	0.00041	102	30	150								

12

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
PL	Permit Limit	RL	Reporting Detection Limit

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name **PACE-NY** Date and Time Received: **1/30/2015 11:00:00 AM**

Work Order Number: **1501H35** RcptNo: **1** Received by: **Jamie Spero**

Completed by: Reviewed by:

Completed Date: 1/30/2015 11:15:47 AM Reviewed Date: 2/4/2015 5:27:10 PM

Carrier name: FedEx

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To	4.1 °
Water - Were bubbles absent in VOC vials?	Yes	☐	No	☐	No Vials	☑
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☐	No	☐	No Water	☑
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☑	No	☐		
Airbill or Sticker?	Air Bill	☑	Sticker	☐	Not Present	☐
Airbill No:	632146890399					

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☑ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

SAMPLES RECEIVED AT SCHENECTADY LAB OUT OF TEMPERATURE RANGE

CorrectiveAction:

12

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1501H35

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

PACE - L1

CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.pacelabs.com

LRF # 15010580
(LAB USE ONLY)

DISPOSAL REQUIREMENTS: (To be filled in by Client)
- ○ RETURN TO CLIENT
- ● DISPOSAL BY RECEIVING LAB
- ○ ARCHIVAL BY RECEIVING LAB

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

CLIENT (REPORTS TO BE SENT TO): PACE	PROJECT#/PROJECT NAME: 15010580
PROJECT MANAGER: Kelly.Miller@PACELABS.COM	LOCATION (CITY/STATE) ADDRESS: NY
SAMPLED BY: (Please Print)	REQUIRED TURN AROUND TIME: 2/9/2015
SAMPLING FIRM: Samples were received @ Schenectady lab out of temp. range.	NAME OF COURIER (IF USED):
ELECTRONIC RESULTS	NICOLE.JOHNSON@PACELABS.COI

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE KEY: 0 - ICE; 1 - HCL; 2 - HNO3; 3 - H2SO4; 4 - NaOH; 5 - Zn. Acetate; 6 - MeOH; 7 - NaHSO4; 8 - Other (Na2SO3)

SAMPLE ID	DATE	TIME	MATRIX	GRAB/ COMP	LAB SAMPLE ID (LAB USE ONLY)	NUMBER OF CONTAINERS	TCLP Herbicides	TCLP Pesticides	PRESERVATIVE CODE	BOTTLE TYPE	BOTTLE SIZE	REMARKS
D-09	1/29/15	9:45	S	COMP	AS02427	2	X	X				15014135

AMBIENT OR CHILLED: TEMP: 4.1 | COC TAPE: Y N | PROPERLY PRESERVED: Y N | OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DE

RECEIVED BROKEN OR LEAKING: Y N | COC DISCREPANCIES: Y N | RECVD W/I HOLDING TIMES: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE	SIGNATURE U.A FEDEX	SIGNATURE fedex	SIGNATURE	SIGNATURE	SIGNATURE
PRINTED NAME Peter	PRINTED NAME	PRINTED NAME	PRINTED NAME Jamie Speer	PRINTED NAME	PRINTED NAME
COMPANY Pace	COMPANY	COMPANY	COMPANY PACE	COMPANY	COMPANY
DATE/TIME 1/29/15 1500	DATE/TIME	DATE/TIME	DATE/TIME 1/30/15 1100	DATE/TIME	DATE/TIME

S:\LOGIN\MDLCOCS

6231 4689 0399

Pace Analytical
www.pacelabs.com
New York Office
2190 Technology Dr.
Schenectady, NY 12308
(518) 346-4592

DUPLICATE

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<15010580P1>

150105801

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Barton and Loguidice DPC	Report To: Andy Barber	Attention: Accounts Payable
Address: 10 Airline Drive, Suite 200	Copy To: Nathan Shaffer	Company Name: Barton and Loguidice, DPC
Albany, NY 12205		Address: 290 Elwood Davis Road, Box 3107 Syracuse NY, 13220
Email To: nshaffer@bartonandloguidice.com	Purchase Order No.:	Pace Quote Reference: 00014909
Phone: 518-218-1801 Fax: 518-218-1805	Project Name: ALCO	Pace Project Manager: Kelly Miller
Requested Due Date/TAT: Standard	Project Number: 1368.001.001	Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

SITE LOCATION: GA IL IN MI NC OH SC WI OTHER

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: * Chlorine Landfill	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.	* TCLP - 8260, 8270, herbicides, pesticides, metals, and mercury. Regular PCB's
1	D-09	SL	G	1/25	5:45	1/25	5:45		4	x									x		AS02427	
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
Standard Deliverables		1/29/15	10:20	(PACE)	1/29/15	10:21	6.8 (IR)	Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Nathan Shaffer		
SIGNATURE of SAMPLER:		DATE Signed (MM / DD / YY):	1/29/15

Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact

e-File(ALLO020rev.4.29Mar06)22.Jun2005

DUPLICATE

Pace Analytical

Sample Condition Upon Receipt

<15010580P2>

150105802

CLIENT NAME: BAR-ALB

PROJECT : ALCO

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐

TRACKING # N/A

CUSTODY SEAL PRESENT: Yes ☐ No ☒ INTACT: Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ☐ ICE USED: Wet ☐ Blue ☐ None ☒

THERMOMETER USED: #164 ☐ IR Gun 03 ☒ #122087967 ☐ COOLER TEMPERATURE (°C): 6.8

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒ Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	☒ Yes	☐ No		1.
Chain of Custody Filled Out:	☒ Yes	☐ No		2.
Chain of Custody Relinquished:	☒ Yes	☐ No		3.
Sampler Name / Signature on COC:	☒ Yes	☐ No		4.
Samples Arrived within Hold Time:	☒ Yes	☐ No		5.
Short Hold Time Analysis (<72hr):	☐ Yes	☒ No		6.
Rush Turn Around Time Requested:	☐ Yes	☒ No		7.
Sufficient Volume:	☒ Yes	☐ No		8.
Correct Containers Used:	☒ Yes	☐ No		9.
- Pace Containers Used:	☒ Yes	☐ No		
Containers Intact:	☒ Yes	☐ No		10.
Filtered volume received for Dissolved tests:	☐ Yes	☐ No	☒ N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☒ Yes	☐ No		12.
All containers needing preservation have been checked:	☐ Yes	☐ No	☒ N/A	13.
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	☐ Yes	☐ No	☒ N/A	Initial when completed: N/A — Lot # of added preservative: N/A
Headspace in VOA Vials (>6mm):	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present:	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present:	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot #: N/A				

Sample Receipt form filled in: AJB 1/29/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH): AJB 1/29/15

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): AJB 1/29/15

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): AJB 1/29/15

LOGIN_SCUR_FORM_052914_Rev01_01

Date Issued: May 01, 2015

Pace Analytical e-Report

Report prepared for:
BARTON AND LOGUIDICE
10 AIRLINE DRIVE
ALBANY, NY 12205
CONTACT: ANDY BARBER

Project ID: ALCO
Sampling Date(s): April 22, 2015
Lab Report ID: 15040327
Client Service Contact: Chelsea Farmer (518) 346-4592 ext. 3843

Analysis Included:
EPA Method 8260C - TCLP
EPA Method 8270D TCLP - TCLP
PCB Analysis
Herbicides (TCLP) - Sub - Pace-LI
TCLP Pesticides - Sub - Pace-LI
Mercury TCLP- Sub - Pace-LI
ICP Metals (TCLP 6010C) - Sub - Pace-LI

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith
Technical Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

CASE NARRATIVE

May 01, 2015

CASE NARRATIVE

This data package (SDG ID: 15040327) consists of 1 soil sample received on 04/22/2015. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AS07772	D-10	04/22/2015 12:30

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via DROP OFF delivery service on 04/22/2015.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see Pace NY-LI lab report for quality assurance details regarding the PCB and TCLP analysis.

Respectfully submitted,

Jill Grygas
Project Manager

QUALIFIERS

Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be re-analyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Method Detection Limit. Denotes lowest analyte concentration observable for the sample based on statistical study.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. Denotes lowest analyte concentration reportable for the sample.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL). PQLs are adjusted for sample weight/volume and dilution factors.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

Pace Analytical™
www.pacelabs.com
New York Office
2190 Technology Dr.
Schenectady, NY 12308
(518) 346-4592

<1504032?P1>
150403271

-CUSTODY / Analytical Request Document

dy is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Barton and Loguidice DPC	Report To: Andy Barber	Attention: Accounts Payable
Address: 10 Airline Drive, Suite 200	Copy To: Nathan Shaffer	Company Name: Barton and Loguidice, DPC
Albany, NY 12205	Rosemary McCormick	Address: 290 Elwood Davis Road, Box 3107 Syracuse NY, 13220
Email To: rmccormick@bartonandloguidice.c	Purchase Order No.:	Pace Quote Reference: 00014909
Phone: 518-218-1801 Fax: 518-218-1805	Project Name: ALCO	Pace Project Manager: Nicholas Nicholas
Requested Due Date/TAT: Standard	Project Number: 1368.001.001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ N ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Filtered (Y/N)

Requested Ana

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	* Colonie Landfill	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.	* TCLP - 8260, 8270, herbicides, pesticides, metals, and mercury. Regular PCB's
1	D-10	SL	C	4/22	12:30	—	—		4	X								x		A507772	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Standard Deliverables	[signature] / BL	4/22	13:04	[signature]	4/22/15	13:04

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
15.4	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: ~~Matthew Shaffer~~ Rosemary McCormick

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 4/22/15

<15040327PZ>

150403272

Pace Analytical — ple Condition Upon Receipt

CLIENT NAME: Bar Alb
PROJECT : ALCO

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐
TRACKING # N/A
CUSTODY SEAL PRESENT: Yes ☐ No ☒ **INTACT**: Yes ☐ No ☐ N/A ☒
PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ☐
ICE USED: Wet ☒ Blue ☐ None ☐
THERMOMETER USED: #164 ☒ IR Gun 03 ☐ #122087967 ☐
COOLER TEMPERATURE (°C): 1.5.4
BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒
Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☒Yes	☐No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☐No		6.
Rush Turn Around Time Requested:	☐Yes	☒No		7.
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☒Yes	☐No		12.
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	☐Yes	☐No	☒N/A	Initial when completed: AJB — Lot # of added preservative: N/A
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: N/A				

Sample Receipt form filled in: AJB 4/22/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH): AJB 4/22/15
Log In (Includes notifying PM of any discrepacies and documenting in LIMS): DAW 4/22/15
Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): AJB 4/22/15

3

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
15040327

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE
PROJECT: ALCO
LRF: 15040327
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: 7 DAYS

RECEIVED DATE: 04/22/2015 13:04
SHIPPED VIA: DROP OFF [1,2]
SHIPPING ID: R. MCCORMICK-BAR AL [3]
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: CHILLED
TEMPERATURE(S): [5] 15.4 °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
SAMPLES REC'D IN HOLDTIME: YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date [4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-10 (AS07772)	7 DAYS 05-01-15	04/22/2015 12:30	Soil	E6010C-TCLP	ICP Metals (TCLP 6010C) - Sub - Pace-LI	
	7 DAYS 05-01-15	04/22/2015 12:30	Soil	E7470A-TCLP	Mercury TCLP- Sub - Pace-LI	
	7 DAYS 05-01-15	04/22/2015 12:30	Soil	E8081	TCLP Pesticides - Sub - Pace-LI	
	7 DAYS 05-01-15	04/22/2015 12:30	Soil	E8151A-TCLP	Herbicides (TCLP) - Sub - Pace-LI	
	7 DAYS 05-01-15	04/22/2015 12:30	Soil	E8260C-TCLP	EPA Method 8260C - TCLP	
	7 DAYS 05-01-15	04/22/2015 12:30	Soil	E8270D-TCLP	EPA Method 8270D TCLP - TCLP	
	7 DAYS 05-01-15	04/22/2015 12:30	Soil	EPA 8082A	PCB Analysis	

[1] The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.
[2] The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3] Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4] Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.
The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5] All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.
[6] Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

Reporting Parameters and Lists

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB Amount > RL

GC - PCB

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-10
Lab Sample ID: 15040327-01 (AS07772)

Collection Date: 04/22/2015 12:30
Sample Matrix: SOIL
Received Date: 04/22/2015 13:04
Percent Solid: 77.5 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC21F-2492-25	SW-846 8082A (PCB)	04/27/2015 15:14	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	30531	EPA 3545A	04/24/2015 10:17	MH	10.4 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0618	1.00	U	GC21F-2492-25
Aroclor 1221	11104-28-2	ND	0.0618	1.00	U	GC21F-2492-25
Aroclor 1232	11141-16-5	ND	0.0618	1.00	U	GC21F-2492-25
Aroclor 1242	53469-21-9	ND	0.0618	1.00	U	GC21F-2492-25
Aroclor 1248	12672-29-6	ND	0.0618	1.00	U	GC21F-2492-25
Aroclor 1254	11097-69-1	ND	0.0618	1.00	U	GC21F-2492-25
Aroclor 1260	11096-82-5	ND	0.0618	1.00	U	GC21F-2492-25
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC21F-2492-25

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	71.3	47.0-123		GC21F-2492-25
Decachlorobiphenyl	2051-24-3	65.6	35.0-153		GC21F-2492-25

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

5

Quality Control Samples (Lab)

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AS07772B)
Lab Sample ID: PBLK-51

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC21F-2492-23	SW-846 8082A (PCB)	04/27/2015 14:49	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	30531	EPA 3545A	04/24/2015 10:13	MH	10.3 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC21F-2492-23
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC21F-2492-23
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC21F-2492-23
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC21F-2492-23
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC21F-2492-23
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC21F-2492-23
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC21F-2492-23
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC21F-2492-23

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	82.7	47.0-123		GC21F-2492-23
Decachlorobiphenyl	2051-24-3	84.1	35.0-153		GC21F-2492-23

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

6

Pace Analytical®

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Quality Control Results
Lab Control Sample (LCS)

Job Number: 15040327

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AS07772L)
Lab Sample ID: LCS-51

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC21F-2492-24	SW-846 8082A (PCB)	04/27/2015 15:02	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	30531	EPA 3545A	04/24/2015 10:14	MH	10.3 g	25.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/g)	LCS (ug/g)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	1.21	0.988	81.6		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	79.4	47.0-123		GC21F-2492-24
Decachlorobiphenyl	2051-24-3	81.8	35.0-153		GC21F-2492-24

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

6

Subcontract Analysis

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 4/22/2015 12:30:00 PM
Received : 4/22/2015 9:40:00 PM AS07772
Collected By :

Lab No. : 1504H69-001
Client Sample ID: D-10

Sample Information:
Type : Soil
Origin:

Analytical Method: SW1311/8270D : Prep Method: SW3520C Prep Date: 4/30/2015 8:00:00 PM Analyst: SH

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
1,4-Dichlorobenzene	< 0.0100		1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
2,4,5-Trichlorophenol	< 0.0250		1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
2,4,6-Trichlorophenol	< 0.0100		1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
2,4-Dinitrotoluene	< 0.0100		1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
2-Methylphenol	< 0.0100		1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
3-Methylphenol/4-Methylphenol	< 0.0100		1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Hexachlorobenzene	< 0.0100		1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Hexachlorobutadiene	< 0.0100	S	1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Hexachloroethane	< 0.0100		1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Nitrobenzene	< 0.0100		1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Pentachlorophenol	< 0.0250		1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Pyridine	< 0.0100		1	mg/L			05/01/2015 10:34 AM	Container-01 of 02
Surr: 1,2-Dichlorobenzene-d4	60.5		1	%REC	Limit	16-110	05/01/2015 10:34 AM	Container-01 of 02
Surr: 2,4,6-Tribromophenol	100		1	%REC	Limit	10-123	05/01/2015 10:34 AM	Container-01 of 02
Surr: 2-Chlorophenol-d4	65.6		1	%REC	Limit	33-110	05/01/2015 10:34 AM	Container-01 of 02
Surr: 2-Fluorobiphenyl	79.4		1	%REC	Limit	43-116	05/01/2015 10:34 AM	Container-01 of 02
Surr: 2-Fluorophenol	30.2		1	%REC	Limit	21-110	05/01/2015 10:34 AM	Container-01 of 02
Surr: 4-Terphenyl-d14	110		1	%REC	Limit	33-141	05/01/2015 10:34 AM	Container-01 of 02
Surr: Nitrobenzene-d5	84.5		1	%REC	Limit	35-114	05/01/2015 10:34 AM	Container-01 of 02
Surr: Phenol-d5	20.8		1	%REC	Limit	10-110	05/01/2015 10:34 AM	Container-01 of 02

Analytical Method: SW1311/8151A : Prep Method: SW1311/8151 Prep Date: 4/27/2015 12:29:27 PM Analyst: MJM

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
2,4,5-TP (Silvex)	< 0.0025		1	mg/L			04/29/2015 8:32 AM	Container-01 of 02
2,4-D	< 0.0050		1	mg/L			04/29/2015 8:32 AM	Container-01 of 02
Surr: DCAA	77.8		1	%REC	Limit	36-121	04/29/2015 8:32 AM	Container-01 of 02

Analytical Method: SW1311/7470A : Prep Method: SW7470 Prep Date: 4/28/2015 7:45:00 AM Analyst: JL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Mercury	< 0.200		1	ug/L	04/28/2015 1:28 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit : MDL and < LOQ. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Caitlin Hutchinson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Date Reported :

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

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Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 4/22/2015 12:30:00 PM
Received : 4/22/2015 9:40:00 PM AS07772
Collected By :

Lab No. : 1504H69-001
Client Sample ID: D-10

Sample Information:
Type : Soil
Origin:

Analytical Method: SW1311/6010C : Prep Method: SW3005A Prep Date: 4/28/2015 7:30:00 AM Analyst: CGZ

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Arsenic	< 1.00		1	mg/L	04/29/2015 12:04 AM	Container-01 of 02
Barium	< 10.0		1	mg/L	04/29/2015 12:04 AM	Container-01 of 02
Cadmium	< 0.100		1	mg/L	04/29/2015 12:04 AM	Container-01 of 02
Chromium	< 1.00		1	mg/L	04/29/2015 12:04 AM	Container-01 of 02
Lead	< 1.00		1	mg/L	04/29/2015 12:04 AM	Container-01 of 02
Selenium	< 0.100		1	mg/L	04/29/2015 12:04 AM	Container-01 of 02
Silver	< 1.00		1	mg/L	04/29/2015 12:04 AM	Container-01 of 02

Analytical Method: SW1311/8081B : Prep Method: SW3510C Prep Date: 4/30/2015 3:30:00 PM Analyst: JS

Parameter(s)	Results	Qualifier	D.F.	Units		Analyzed:	Container:
Chlordane	< 0.0040		1	mg/L		04/30/2015 9:29 PM	Container-01 of 02
Endrin	< 0.00040		1	mg/L		04/30/2015 9:29 PM	Container-01 of 02
gamma-BHC	< 0.00020		1	mg/L		04/30/2015 9:29 PM	Container-01 of 02
Heptachlor	< 0.00020		1	mg/L		04/30/2015 9:29 PM	Container-01 of 02
Heptachlor epoxide	< 0.00020		1	mg/L		04/30/2015 9:29 PM	Container-01 of 02
Methoxychlor	< 0.0020		1	mg/L		04/30/2015 9:29 PM	Container-01 of 02
Toxaphene	< 0.020		1	mg/L		04/30/2015 9:29 PM	Container-01 of 02
Surr: Decachlorobiphenyl	60.4		1	%REC	Limit 30-150	04/30/2015 9:29 PM	Container-01 of 02
Surr: Tetrachloro-m-xylene	86.8		1	%REC	Limit 30-150	04/30/2015 9:29 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Caitlin Hutchinson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 5/1/2015

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

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Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 4/22/2015 12:30:00 PM
Received : 4/22/2015 9:40:00 PM AS07772
Collected By :

Lab No. : 1504H69-001
Client Sample ID: D-10

Sample Information:
Type : Soil
Origin:

Analytical Method: SW1311/8260C : Prep Date: 4/23/2015 4:05:28 PM Analyst: MF

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
1,1-Dichloroethene	< 0.010		1	mg/L			04/24/2015 2:29 PM	Container-01 of 01
1,2-Dichloroethane	< 0.010		1	mg/L			04/24/2015 2:29 PM	Container-01 of 01
1,4-Dichlorobenzene	< 0.010		1	mg/L			04/24/2015 2:29 PM	Container-01 of 01
2-Butanone	< 0.010		1	mg/L			04/24/2015 2:29 PM	Container-01 of 01
Benzene	< 0.010		1	mg/L			04/24/2015 2:29 PM	Container-01 of 01
Carbon tetrachloride	< 0.010		1	mg/L			04/24/2015 2:29 PM	Container-01 of 01
Chlorobenzene	< 0.010		1	mg/L			04/24/2015 2:29 PM	Container-01 of 01
Chloroform	< 0.010		1	mg/L			04/24/2015 2:29 PM	Container-01 of 01
Tetrachloroethene	< 0.010		1	mg/L			04/24/2015 2:29 PM	Container-01 of 01
Trichloroethene	< 0.010		1	mg/L			04/24/2015 2:29 PM	Container-01 of 01
Vinyl chloride	< 0.010	c	1	mg/L			04/24/2015 2:29 PM	Container-01 of 01
Surr: 1,2-dichloroethane-d4	115		1	%REC	Limit	53-183	04/24/2015 2:29 PM	Container-01 of 01
Surr: 4-Bromofluorobenzene	117		1	%REC	Limit	52-124	04/24/2015 2:29 PM	Container-01 of 01
Surr: Toluene-d8	111		1	%REC	Limit	60-135	04/24/2015 2:29 PM	Container-01 of 01

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Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
r = Reporting limit > MDL and < LOQ, Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Caitlin Hutchinson
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 5/1/2015

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: HERBICIDES, TCLP Leached **WorkOrder:** 1504H69

Method: 1311_H **Lab Batch ID:** 49550

Method Blank

RunID: 73828 SeqNo 1606264 Units: mg/L

Analysis Date: 4/24/2015 10:41:04 AM Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
Surr: DCAA	0.073	0	

Laboratory Control Sample (LCS/LFB)

RunID: 73828 SeqNo 1606269 Units: mg/L

Analysis Date: 4/24/2015 11:28:28 AM Analyst: MJM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Surr: DCAA	0.1000	0.058	58.2						36	121	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504E43-002B

RunID: 73828 SeqNo 1607262 Units: mg/L

Analysis Date: 4/24/2015 2:38:06 PM Analyst: MJM

Analyte	Sample Result	MS Spike Added	MS Result	MS % Rec	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	Low Limit	High Limit	Qual
Surr: DCAA		0.1000	0.058	58.5	36	121								

Method Blank

RunID: 74001 SeqNo 1609798 Units: mg/L

Analysis Date: 4/28/2015 1:28:32 PM Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
2,4-D	< 0.0050	0.0050	
2,4,5-TP (Silvex)	< 0.0025	0.0025	
Surr: DCAA	0.072	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
S	Spike Recovery outside accepted recovery limits		

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Melville, NY 11747
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Quality Control Report

PACE ANALYTICAL

10478

Analysis:	**HERBICIDES, TCLP Leached**	**WorkOrder:**	**1504H69**
Method:	**1311_H**	**Lab Batch ID:**	**49628**

Method Blank

RunID: 74073 SeqNo 1611477 Units: mg/L

Analysis Date: 4/29/2015 6:57:45 AM Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
2,4-D	< 0.0050	0.0050	
2,4,5-TP (Silvex)	< 0.0025	0.0025	
Surr: DCAA	0.073	0	

7

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
S	Spike Recovery outside accepted recovery limits		

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575 Broad Hollow Road
Melville, NY 11747
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Quality Control Report

PACE ANALYTICAL

10478

Analysis: HERBICIDES, TCLP Leached **WorkOrder:** 1504H69

Method: 1311_H **Lab Batch ID:** 49628

Method Blank

RunID: 74073 SeqNo 1611478 Units: mg/L

Analysis Date: 4/29/2015 7:13:30 AM Analyst: MJM

Analyte	Result	Rep Limit	Rep Qual
2,4-D	< 0.0050	0.0050	
2,4,5-TP (Silvex)	< 0.0025	0.0025	
Surr: DCAA	0.085	0	

Laboratory Control Sample (LCS/LFB)

RunID: 74001 SeqNo 1609800 Units: mg/L

Analysis Date: 4/28/2015 2:00:07 PM Analyst: MJM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0.02000	0.019	93.9						47	152	
2,4,5-TP (Silvex)	0.01000	0.0089	89.0						44	157	
Surr: DCAA	0.1000	0.071	71.5						36	121	

Laboratory Control Sample (LCS/LFB)

RunID: 74073 SeqNo 1611481 Units: mg/L

Analysis Date: 4/29/2015 8:00:52 AM Analyst: MJM

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0.02000	0.019	97.2						47	152	
2,4,5-TP (Silvex)	0.01000	0.0094	94.2						44	157	
Surr: DCAA	0.1000	0.076	76.1						36	121	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504I75-001B

RunID: 74073 SeqNo 1611484 Units: mg/L

Analysis Date: 4/29/2015 8:48:09 AM Analyst: MJM

Analyte	Sample Result	MS Spike Added	MS Result	MS % Rec	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	Low Limit	High Limit	Qual
2,4-D	0	0.02000	0.019	97.2	39	111								
2,4,5-TP (Silvex)	0	0.01000	0.010	99.7	48	113								
Surr: DCAA		0.1000	0.081	81.5	36	121								

Method Blank

RunID: 74024 SeqNo 1610386 Units: mg/L

Analysis Date: 4/28/2015 2:17:12 PM Analyst: HT

Analyte	Result	Rep Limit	Rep Qual
Arsenic	< 1.00	1.00	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
S	Spike Recovery outside accepted recovery limits		

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Melville, NY 11747
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Quality Control Report

PACE ANALYTICAL

10478

Analysis: ICP METALS, TCLP Leached **WorkOrder:** 1504H69

Method: 1311_M **Lab Batch ID:** 49641

Method Blank

RunID: 74024 SeqNo 1610386 Units: mg/L

Analysis Date: 4/28/2015 2:17:12 PM Analyst: HT

Analyte	Result	Rep Limit	Rep Qual
Barium	< 10.0	10.0	
Cadmium	< 0.100	0.100	
Chromium	< 1.00	1.00	
Lead	< 1.00	1.00	
Selenium	< 0.100	0.100	
Silver	< 1.00	1.00	

Laboratory Control Sample (LCS/LFB)

RunID: 74024 SeqNo 1610388 Units: mg/L

Analysis Date: 4/28/2015 2:29:38 PM Analyst: HT

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Arsenic	0.5000	< 1.00	99.6						80	120	
Barium	2.500	< 10.0	96.9						80	120	
Cadmium	2.500	2.43	97.1						80	120	
Chromium	2.500	2.30	92.1						80	120	
Lead	0.5000	< 1.00	99.7						80	120	
Selenium	0.5000	0.514	103						80	120	
Silver	1.000	< 1.00	98.8						80	120	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504I97-003A

RunID: 74053 SeqNo 1610898 Units: mg/L

Analysis Date: 4/29/2015 12:48:06 AM Analyst: CGZ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Rec	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	Low Limit	High Limit	Qual
Arsenic	0	1.000	1.20	120	75	125								
Barium	2.340	1.000	< 10.0	111	75	125								
Cadmium	.003400	1.000	0.987	98.4	75	125								
Chromium	.002200	1.000	1.01	101	75	125								
Lead	.004380	1.000	1.08	107	75	125								
Selenium	0002694	1.000	1.21	121	75	125								
Silver	0006894	1.000	1.11	111	75	125								

Method Blank

RunID: 74005 SeqNo 1609966 Units: ug/L

Analysis Date: 4/28/2015 12:16:19 PM Analyst: JL

Analyte	Result	Rep Limit	Rep Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
S	Spike Recovery outside accepted recovery limits		

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Quality Control Report

PACE ANALYTICAL

10478

Analysis: MERCURY, TCLP Leached **WorkOrder:** 1504H69

Method: 1311_HG **Lab Batch ID:** 49642

Method Blank

RunID: 74005 SeqNo 1609966 Units: ug/L

Analysis Date: 4/28/2015 12:16:19 PM Analyst: JL

Analyte	Result	Rep Limit	Rep Qual
Mercury	< 0.200	0.200	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504I75-001B

RunID: 74005 SeqNo 1609970 Units: ug/L

Analysis Date: 4/28/2015 1:11:42 PM Analyst: JL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Rec	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	Low Limit	High Limit	Qual
Mercury	0.01060	1.000	0.993	98.2	80	120								

Method Blank

RunID: 74239 SeqNo 1614688 Units: mg/L

Analysis Date: 4/30/2015 7:16:49 PM Analyst: JS

Analyte	Result	Rep Limit	Rep Qual
gamma-BHC	< 0.00020	0.00020	
Heptachlor	< 0.00020	0.00020	
Heptachlor epoxide	< 0.00020	0.00020	
Endrin	< 0.00040	0.00040	
Methoxychlor	< 0.0020	0.0020	
Toxaphene	< 0.020	0.020	
Chlordane	< 0.0040	0.0040	
Surr: Tetrachloro-m-xylene	0.00035	0	
Surr: Decachlorobiphenyl	0.00033	0	

Laboratory Control Sample (LCS/LFB)

RunID: 74239 SeqNo 1614689 Units: mg/L

Analysis Date: 4/30/2015 7:31:31 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	0.0008000	0.00068	85.4						27	146	
Heptachlor	0.0008000	0.00061	76.0						10	148	
Heptachlor epoxide	0.0008000	0.00067	83.2						28	144	
Endrin	0.0008000	0.00069	86.7						22	152	
Methoxychlor	0.0008000	< 0.0020	88.4						19	146	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
S	Spike Recovery outside accepted recovery limits		

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Quality Control Report

PACE ANALYTICAL

10478

Analysis: PESTICIDES, TCLP Leached **WorkOrder:** 1504H69

Method: 1311_P **Lab Batch ID:** 49694

Laboratory Control Sample (LCS/LFB)

RunID: 74239 SeqNo 1614689 Units: mg/L

Analysis Date: 4/30/2015 7:31:31 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Surr: Tetrachloro-m-xylene	0.0004000	0.00032	80.3						30	150	
Surr: Decachlorobiphenyl	0.0004000	0.00031	76.4						30	150	

Laboratory Control Sample (LCS/LFB)

RunID: 74239 SeqNo 1614690 Units: mg/L

Analysis Date: 4/30/2015 7:46:17 PM Analyst: JS

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Toxaphene	0.04000	0.036	88.9						46	168	E
Surr: Tetrachloro-m-xylene	0.0004000	0.00033	82.5						30	150	
Surr: Decachlorobiphenyl	0.0004000	0.00033	82.3						30	150	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504j54-001a

RunID: 74239 SeqNo 1614694 Units: mg/L

Analysis Date: 4/30/2015 8:45:05 PM Analyst: JS

Analyte	Sample Result	MS Spike Added	MS Result	MS % Rec	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	Low Limit	High Limit	Qual
Toxaphene	0	0.04000	0.033	81.8	50	150								
Surr: Tetrachloro-m-xylene		0004000	0.00031	77.4	30	150								
Surr: Decachlorobiphenyl		0004000	0.00034	85.8	30	150								

Method Blank

RunID: 74250 SeqNo 1615043 Units: mg/L

Analysis Date: 5/1/2015 9:34:00 AM Analyst: SH

Analyte	Result	Rep Limit	Rep Qual
Pyridine	< 0.0100	0.0100	
1,4-Dichlorobenzene	< 0.0100	0.0100	
2-Methylphenol	< 0.0100	0.0100	
3-Methylphenol/4-Methylphenol	< 0.0100	0.0100	
Hexachloroethane	< 0.0100	0.0100	
Nitrobenzene	< 0.0100	0.0100	
Hexachlorobutadiene	< 0.0100	0.0100	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
S	Spike Recovery outside accepted recovery limits		

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Quality Control Report

PACE ANALYTICAL

10478

Analysis: SEMIVOLATILES, TCLP Leac **WorkOrder:** 1504H69

Method: 1311_B **Lab Batch ID:** 49710

Method Blank

RunID: 74250 SeqNo 1615043 Units: mg/L

Analysis Date: 5/1/2015 9:34:00 AM Analyst: SH

Analyte	Result	Rep Limit	Rep Qual
2,4,6-Trichlorophenol	< 0.0100	0.0100	
2,4,5-Trichlorophenol	< 0.0250	0.0250	
2,4-Dinitrotoluene	< 0.0100	0.0100	
Hexachlorobenzene	< 0.0100	0.0100	
Pentachlorophenol	< 0.0250	0.0250	
Surr: 2-Fluorophenol	0.0182	0	
Surr: Nitrobenzene-d5	0.0351	0	
Surr: Phenol-d5	0.0124	0	
Surr: 2,4,6-Tribromophenol	0.0685	0	
Surr: 2-Fluorobiphenyl	0.0331	0	
Surr: 4-Terphenyl-d14	0.0569	0	
Surr: 2-Chlorophenol-d4	0.0404	0	
Surr: 1,2-Dichlorobenzene-d4	0.0271	0	

Laboratory Control Sample (LCS/LFB)

RunID: 74250 SeqNo 1615044 Units: mg/L

Analysis Date: 5/1/2015 10:04:00 AM Analyst: SH

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Pyridine	0.05000	0.0147	29.4						12	81.6	
1,4-Dichlorobenzene	0.05000	0.0271	54.2						38	116	
2-Methylphenol	0.05000	0.0287	57.4						27	141	
3-Methylphenol/4-Methylphenol	0.1000	0.0500	50.0						15	141	
Hexachloroethane	0.05000	0.0245	49.0						39	111	
Nitrobenzene	0.05000	0.0404	80.8						39	129	
Hexachlorobutadiene	0.05000	0.0230	46.0						49	115	S
2,4,6-Trichlorophenol	0.05000	0.0437	87.4						37	133	
2,4,5-Trichlorophenol	0.05000	0.0447	89.4						16	148	
2,4-Dinitrotoluene	0.05000	0.0478	95.5						46	118	
Hexachlorobenzene	0.05000	0.0480	96.1						55	127	
Pentachlorophenol	0.05000	0.0503	101						13	123	
Surr: 2-Fluorophenol	0.07500	0.0212	28.2						21	110	
Surr: Nitrobenzene-d5	0.05000	0.0398	79.5						35	114	
Surr: Phenol-d5	0.07500	0.0151	20.1						10	110	
Surr: 2,4,6-Tribromophenol	0.07500	0.0736	98.1						10	123	
Surr: 2-Fluorobiphenyl	0.05000	0.0355	71.0						43	116	
Surr: 4-Terphenyl-d14	0.05000	0.0575	115						33	141	
Surr: 2-Chlorophenol-d4	0.07500	0.0474	63.2						33	110	
Surr: 1,2-Dichlorobenzene-d4	0.05000	0.0273	54.7						16	110	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504K97-001A

RunID: 74250 SeqNo 1615047 Units: mg/L

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
S	Spike Recovery outside accepted recovery limits		

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Quality Control Report

PACE ANALYTICAL

10478

Analysis: SEMIVOLATILES, TCLP Leac **WorkOrder:** 1504H69

Method: 1311_B **Lab Batch ID:** 49710

Laboratory Control Sample (LCS/LFB)

RunID: 74250 SeqNo 1615044 Units: mg/L

Analysis Date: 5/1/2015 11:34:00 AM Analyst: SH

Analyte	Sample Result	MS Spike Added	MS Result	MS % Rec	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	Low Limit	High Limit	Qual
Pyridine	0	0.05000	0.0155	31.0	12	81.6								
1,4-Dichlorobenzene	0	0.05000	0.0235	47.0	38	116								
2-Methylphenol	0	0.05000	0.0263	52.6	27	141								
3-Methylphenol/4-Methylphenol	0	0.1000	0.0463	46.3	15	141								
Hexachloroethane	0	0.05000	0.0222	44.4	39	111								
Nitrobenzene	0	0.05000	0.0392	78.3	39	129								
Hexachlorobutadiene	0	0.05000	0.0211	42.3	49	115								
2,4,6-Trichlorophenol	0	0.05000	0.0428	85.6	37	133								
2,4,5-Trichlorophenol	0	0.05000	0.0443	88.5	16	148								
2,4-Dinitrotoluene	0	0.05000	0.0467	93.4	46	118								
Hexachlorobenzene	0	0.05000	0.0447	89.5	55	127								
Pentachlorophenol	0	0.05000	0.0522	104	13	123								
Surr: 2-Fluorophenol		0.07500	0.0214	28.6	21	110								
Surr: Nitrobenzene-d5		0.05000	0.0393	78.6	35	114								
Surr: Phenol-d5		0.07500	0.0149	19.9	10	110								
Surr: 2,4,6-Tribromophenol		0.07500	0.0719	95.8	10	123								
Surr: 2-Fluorobiphenyl		0.05000	0.0338	67.6	43	116								
Surr: 4-Terphenyl-d14		0.05000	0.0586	117	33	141								
Surr: 2-Chlorophenol-d4		0.07500	0.0466	62.1	33	110								
Surr: 1,2-Dichlorobenzene-d4		0.05000	0.0259	51.8	16	110								

Method Blank

RunID: 73858 SeqNo 1607209 Units: mg/L

Analysis Date: 4/24/2015 10:02:00 AM Analyst: MF

Analyte	Result	Rep Limit	Rep Qual
Vinyl chloride	< 0.010	0.010	
1,1-Dichloroethene	< 0.010	0.010	
2-Butanone	< 0.010	0.010	
Chloroform	< 0.010	0.010	
1,2-Dichloroethane	< 0.010	0.010	
Carbon tetrachloride	< 0.010	0.010	
Benzene	< 0.010	0.010	
Trichloroethene	< 0.010	0.010	

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
S	Spike Recovery outside accepted recovery limits		

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Quality Control Report

PACE ANALYTICAL

10478

Analysis: VOLATILES, TCLP Leached **WorkOrder:** 1504H69

Method: 1311_V **Lab Batch ID:** R73858

Method Blank

RunID: 73858 SeqNo 1607209 Units: mg/L

Analysis Date: 4/24/2015 10:02:00 AM Analyst: MF

Analyte	Result	Rep Limit	Rep Qual
Tetrachloroethene	< 0.010	0.010	
Chlorobenzene	< 0.010	0.010	
1,4-Dichlorobenzene	< 0.010	0.010	
Surr: 1,2-dichloroethane-d4	0.053	0	
Surr: 4-Bromofluorobenzene	0.057	0	
Surr: Toluene-d8	0.055	0	

Laboratory Control Sample (LCS/LFB)

RunID: 73858 SeqNo 1607210 Units: mg/L

Analysis Date: 4/24/2015 10:22:00 AM Analyst: MF

Analyte	LCS Spike Added	LCS Result	LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
Vinyl chloride	0.05000	0.035	70.0						14	152	
1,1-Dichloroethene	0.05000	0.051	103						58	112	
2-Butanone	0.05000	0.055	110						14	166	
Chloroform	0.05000	0.052	105						75	119	
1,2-Dichloroethane	0.05000	0.054	107						52	133	
Carbon tetrachloride	0.05000	0.046	91.7						64	126	
Benzene	0.05000	0.056	111						50	127	
Trichloroethene	0.05000	0.049	97.3						57	115	
Tetrachloroethene	0.05000	0.043	86.9						59	133	
Chlorobenzene	0.05000	0.047	94.5						72	124	
1,4-Dichlorobenzene	0.05000	0.042	84.9						60	140	
Surr: 1,2-dichloroethane-d4	0.05000	0.056	112						53	183	
Surr: 4-Bromofluorobenzene	0.05000	0.058	115						52	124	
Surr: Toluene-d8	0.05000	0.056	112						60	135	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504C49-001A

RunID: 73858 SeqNo 1607225 Units: mg/L

Analysis Date: 4/24/2015 3:29:00 PM Analyst: MF

Analyte	Sample Result	MS Spike Added	MS Result	MS % Rec	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	Low Limit	High Limit	Qual
Vinyl chloride	0	0.05000	0.11	218	14	152								
1,1-Dichloroethene	0	0.05000	0.053	106	58	112								
2-Butanone	.001080	0.05000	0.047	90.9	14	166								
Chloroform	0	0.05000	0.052	104	75	119								
1,2-Dichloroethane	0	0.05000	0.050	99.7	52	133								
Carbon tetrachloride	0	0.05000	0.037	73.4	64	126								
Benzene	0	0.05000	0.053	107	50	127								

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
S	Spike Recovery outside accepted recovery limits		

5/1/2015 4:14:10 PM

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Quality Control Report

PACE ANALYTICAL

10478

Analysis: VOLATILES, TCLP Leached **WorkOrder:** 1504H69

Method: 1311_V **Lab Batch ID:** R73858

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 1504C49-001A

RunID: 73858 SeqNo 1607225 Units: mg/L

Analysis Date: 4/24/2015 3:29:00 PM Analyst: MF

Analyte	Sample Result	MS Spike Added	MS Result	MS % Rec	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	Low Limit	High Limit	Qual
Trichloroethene	0	0.05000	0.042	84.6	57	115								
Tetrachloroethene	0	0.05000	0.029	57.1	59	133								
Chlorobenzene	0	0.05000	0.033	67.0	72	124								
1,4-Dichlorobenzene	0	0.05000	0.026	51.7	60	140								
Surr: 1,2-dichloroethane-d4		0.05000	0.054	109	53	183								
Surr: 4-Bromofluorobenzene		0.05000	0.059	117	52	124								
Surr: Toluene-d8		0.05000	0.055	111	60	135								

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Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	N	Tentatively identified compounds
ND	Not Detected at the Reporting Limit	O	RSD is greater than RSDlimit
S	Spike Recovery outside accepted recovery limits		

PACE ANALYTICAL
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Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name: **PACE-NY** Date and Time Received: **4/22/2015 9:40:00 PM**

Work Order Number: **1504H69** RcptNo: **1** Received by: **Ajay Singh**

Completed by: Reviewed by:

Completed Date: 5/1/2015 9:08:02 AM Reviewed Date: 4/30/2015 9:06:41 PM

Carrier name: PACE Pickup

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To	3 °
Water - Were bubbles absent in VOC vials?	Yes	☐	No	☐	No Vials	☑
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☐	No	☐	No Water	☑
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☑	No	☐		
Airbill or Sticker?	Air Bill	☐	Sticker	☐	Not Present	☑
Airbill No:						

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☑ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

7

Pace Analytical
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TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1504H69

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

Pace - LI

CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.pacelabs.com

LRF # 15040327
(LAB USE ONLY)

DISPOSAL REQUIREMENTS: (To be filled in by Client)
- ○ RETURN TO CLIENT
- ● DISPOSAL BY RECEIVING LAB
- ○ ARCHIVAL BY RECEIVING LAB

Additional charges incurred for disposal (if hazardous) or archival.
Call for details.

CLIENT (REPORTS TO BE SENT TO): PACE	PROJECT#/PROJECT NAME: 15040327
PROJECT MANAGER: Chelsea Farmer	LOCATION (CITY/STATE) ADDRESS: NY
Project: ALCO	REQUIRED TURN AROUND TIME: 5/1/2015
Notes:	NAME OF COURIER (IF USED):

ELECTRONIC RESULTS	Chelsea.Farmer@pacelabs.com
ELECTRONIC RESULTS	Nicole.Johnson@pacelabs.co

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE KEY: 0 - ICE; 1 - HCL; 2 - HNO3; 3 - H2SO4; 4 - NaOH; 5 - Zn. Acetate; 6 - MeOH; 7 - NaHSO4; 8 - Other (Na2SO3)

SAMPLE ID	DATE	TIME	MATRIX	GRAB/ COMP	LAB SAMPLE ID (LAB USE ONLY)	NUMBER OF CONTAINERS	E8260C-TCLP	E8270D-TCLP	E8151A-TCLP	E7470A-TCLP	E6010C-TCLP	E8081		REMARKS
						PRESERVATIVE CODE:								
						BOTTLE TYPE:								
						BOTTLE SIZE:								
D-10	4/22/15	12:30	S	COMP	AS07772	3	X	X	X	X	X	X		1504H69-001A → 001B

AMBIENT OR CHILLED: TEMP: 3.0°C
COC TAPE: (Y) N
PROPERLY PRESERVED: Y N
OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DB

RECEIVED BROKEN OR LEAKING: Y (N)
COC DISCREPANCIES: Y N
RECVD W/I HOLDING TIMES: Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: C Pelow	SIGNATURE: Calvin Murray	SIGNATURE: Calvin Murray	SIGNATURE: Ajay Singh	SIGNATURE	SIGNATURE
PRINTED NAME: C Pelow	PRINTED NAME: Calvin Murray	PRINTED NAME: Calvin Murray	PRINTED NAME: Ajay Singh	PRINTED NAME	PRINTED NAME
COMPANY: Pace	COMPANY: Pace Labs	COMPANY: Pace Labs	COMPANY:	COMPANY	COMPANY
DATE/TIME: 4/22/15	DATE/TIME: 4-22-15	DATE/TIME: 4-	DATE/TIME: 04/22/15	DATE/TIME	DATE/TIME

S:\LOGIN\MDLCOCS

9:40 PM

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2190 Technology Dr.
Schenectady, NY 12308
(518) 346-4592

<15040327P1>
150403271

-CUSTODY / Analytical Request Document

ody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Barton and Loguidice DPC	Report To: Andy Barber	Attention: Accounts Payable
Address: 10 Airline Drive, Suite 200	Copy To: Nathan Shaffer	Company Name: Barton and Loguidice, DPC
Albany, NY 12205	Rosemary McComick	Address: 290 Elwood Davis Road, Box 3107 Syracuse NY, 13220
Email To: rmccormick@bartonandloguidice.c	Purchase Order No.:	Pace Quote Reference: 00014909
Phone: 518-218-1801 Fax: 518-218-1805	Project Name: ALCO	Pace Project Manager: Nicholas Nicholas
Requested Due Date/TAT: Standard	Project Number: 1368.001.001	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION ☐ GA ☐ IL ☐ N ☐ WI ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER____

Filtered (Y/N)

Requested Ana

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	* Colonie Landfill	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.	* TCLP - 8260, 8270, herbicides, pesticides, metals, and mercury. Regular PCB's
1	0-10	SL	C	4/22	12:30	—	—		4	X								X		AS07772	
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Standard Deliverables	[signature] / BL	4/22	13:04	[signature]	4/22/15	13:04	15.4

SAMPLE CONDITIONS	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	15.4	Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [redacted] Rosemary McCormick

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 4/22/15

e-File(ALLQ020rev.4,29Mar06)22Jun2005

<15040327PZ>

150403272

Pace Analytical — ple Condition Upon Receipt

CLIENT NAME: Bac Alb

PROJECT : ALCO

COURIER: FedEx ☐ UPS ☐ Client ☑ Pace ☐ Other ☐

CUSTODY SEAL PRESENT: Yes ☐ No ☑ INTACT: Yes ☐ No ☐ N/A ☑

TRACKING # N/A ICE USED: Wet ☑ Blue ☐ None ☐

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other ☐

THERMOMETER USED: #164 ☑ IR Gun 03 ☐ #122087967 ☐ COOLER TEMPERATURE (°C): 15.4

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☑ Temp should be above freezing to 6°C

COMMENTS:

Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name / Signature on COC:	☑Yes	☐No		4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☐No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume:	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
- Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No		12.
- Includes date/time/ID/Analysis				
All containers needing preservation have been checked:	☐Yes	☐No	☑N/A	13.
All containers needing preservation are in compliance with EPA recommendation:	☐Yes	☐No	☑N/A	Initial when completed: AJB / Lot # of added preservative: N/A
- Exceptions that are not checked: VOA				
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	14.
Trip Blank Present:	☐Yes	☐No	☑N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot #: WA				

Sample Receipt form filled in: AJB 4/22/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH): AJB 4/22/15

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): AW 4/22/15

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): AJB 4/22/15

Date Issued: September 15, 2015

Pace Analytical e-Report

Report prepared for:
BARTON AND LOGUIDICE
10 AIRLINE DRIVE
ALBANY, NY 12205
CONTACT: ANDY BARBER

Project ID: ALCO
Sampling Date(s): September 09, 2015
Lab Report ID: 15090224
Client Service Contact: Chelsea Farmer (518) 346-4592 ext. 3843

Analysis Included:
PCB Analysis
TCLP VOCs by GCMS - SUB Phoenix
TCLP SVOCs by GCMS - SUB Phoenix
Herbicides (TCLP) - Sub
TCLP Mercury - Sub PHOENIX
TCLP Metals - Sub PHOENIX
Pesticides (TCLP) - Sub

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith
Technical Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

CASE NARRATIVE

September 15, 2015

CASE NARRATIVE

This data package (SDG ID: 15090224) consists of 1 soil sample received on 09/09/2015. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AS27496	D-101	09/09/2015 14:30

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via DROP OFF delivery service on 09/09/2015.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) All samples were received at the laboratory properly preserved, if applicable.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. Samples were extracted by Accelerated Solvent Extraction (EPA Method 3545A). The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see the Phoenix lab report for quality assurance details regarding the TCLP analysis.

Respectfully submitted,

Jill Grygas
Project Manager

QUALIFIERS

Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Adjusted Method Detection Limit.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.

RL - Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

Pace Analytical
www.pacelabs.com

New York Office
2190 Technology Dr.
Schenectady, NY 12308
(518) 346-4592

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed <15090224P1>

150902241

Page: 1 of 1

Section A
Required Client Information:

Company:	Barton and Loguidice DPC
Address:	10 Airline Drive, Suite 200
	Albany, NY 12205
Email To:	nshaffer@bartonandloguidice.com
Phone:	518-218-1801 Fax: 518-218-1805
Requested Due Date/TAT:	~~Standard~~ ASAP

Section B
Required Project Information:

Report To:	Andy Barber
Copy To:	Nathan Shaffer
Purchase Order No.:	
Project Name:	ALCO
Project Number:	1368.001.001

Section C
Invoice Information:

Attention:	Accounts Payable
Company Name:	Barton and Loguidice, DPC
Address:	290 Elwood Davis Road, Box 3107 Syracuse NY, 13220
Pace Quote Reference:	00014909
Pace Project Manager:	~~Kelly Miller~~ Chris Farmer
Pace Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER_____

SITE LOCATION: GA IL N MI JC OH SC MI OTHER____

Section D
Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis	Residual Chlorine (Y/N)	Pace Project No. Lab I.D.
1	D-101	SL	G	1		9/9	2:30		2	X								X	X		AS27496
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Town of Colonie landfill disposal (PCB) Full TCLP 8260, 8270 Pest herb, metals Reg PCBs

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Not Cat B ASAP		9/9/15	16:25		9/9/15	16:25

SAMPLE CONDITIONS

5.4°C	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER:	Nathan Shaffer		Temp in °C	Received on Ice
SIGNATURE of SAMPLER:		DATE Signed (MM / DD / YY): 9/9/2015	Custody Sealed Cooler	Samples Intact

<15090224P2>

150902242

Sample Condition Upon Receipt

CLIENT NAME: Bar - Alb

PROJECT : AICO

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐

TRACKING # NA

CUSTODY SEAL PRESENT: Yes ☐ No ☒ INTACT: Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ☐ ICE USED: Wet ☒ Blue ☐ None ☐

THERMOMETER USED: #164 ☐ IR Gun 03 ☒ #122087967 ☐ COOLER TEMPERATURE (°C): 5.8 (IR)

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒ Temp should be above freezing to 6°C

COMMENTS: Temperature is Acceptable? ☒Yes ☐No

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☒Yes	☐No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☒Yes	☐No		7. ASAP
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☒Yes	☐No		12.
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: TOC, VOA, Subcontract Analyses	☐Yes	☐No	☒N/A	Initial when completed: NA Lot # of added preservative: NA
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: NA				

Sample Receipt form filled in: KAC 9/10/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH): MW 9/10/15

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): AJB 9/10/15

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): MW 9/10/15

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
15090224

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE
PROJECT: ALCO
LRF: 15090224
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: *3 DAY*

RECEIVED DATE: 09/09/2015 16:25
SHIPPED VIA: DROP OFF [1,2]
SHIPPING ID: N. SHAFFER/ BAR-ALB
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: CHILLED
TEMPERATURE(S): [5] 5.8 (IR) °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
[3] **SAMPLES REC'D IN HOLDTIME:** YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date [4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-101 (AS27496)	*3 DAY* 09-15-15	09/09/2015 14:30	Soil	EPA 8082A	PCB Analysis	
	3 DAY 09-15-15	09/09/2015 14:30	Soil	EPA 8260C - TCLP	TCLP VOCs by GCMS - SUB Phoenix	
	3 DAY 09-15-15	09/09/2015 14:30	Soil	EPA 8270 - TCLP	TCLP SVOCs by GCMS - SUB Phoenix	
	3 DAY 09-15-15	09/09/2015 14:30	Soil	SW-846 8081/1311	Pesticides (TCLP) - Sub	
	3 DAY 09-15-15	09/09/2015 14:30	Soil	SW-846 8151/1311	Herbicides (TCLP) - Sub	
	3 DAY 09-15-15	09/09/2015 14:30	Soil	TCLP Mercury	TCLP Mercury - Sub PHOENIX	
	3 DAY 09-15-15	09/09/2015 14:30	Soil	TCLP Metals	TCLP Metals - Sub PHOENIX	

4

[1] The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.
[2] The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3] Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4] Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.
The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5] All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.
[6] Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

Reporting Parameters and Lists

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB Amount > RL

GC - PCB

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-101
Lab Sample ID: 15090224-01 (AS27496)

Collection Date: 09/09/2015 14:30
Sample Matrix: SOIL
Received Date: 09/09/2015 16:25
Percent Solid: 87.8 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC21F-2626-7	SW-846 8082A (PCB)	09/11/2015 14:21	SWC	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	32201	EPA 3545A	09/10/2015 15:07	NJB	10.3 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0551	1.00	U	GC21F-2626-7
Aroclor 1221	11104-28-2	ND	0.0551	1.00	U	GC21F-2626-7
Aroclor 1232	11141-16-5	ND	0.0551	1.00	U	GC21F-2626-7
Aroclor 1242	53469-21-9	ND	0.0551	1.00	U	GC21F-2626-7
Aroclor 1248	12672-29-6	ND	0.0551	1.00	U	GC21F-2626-7
Aroclor 1254	11097-69-1	ND	0.0551	1.00	U	GC21F-2626-7
Aroclor 1260	11096-82-5	ND	0.0551	1.00	U	GC21F-2626-7
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC21F-2626-7

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	120	47.0-123		GC21F-2626-7
Decachlorobiphenyl	2051-24-3	115	35.0-153		GC21F-2626-7

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

5

Quality Control Samples (Lab)

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AS27496B)
Lab Sample ID: PBLK-42

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC21F-2626-5	SW-846 8082A (PCB)	09/11/2015 13:55	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	32201	EPA 3545A	09/10/2015 15:04	NJB	10.4 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC21F-2626-5
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC21F-2626-5
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC21F-2626-5
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC21F-2626-5
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC21F-2626-5
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC21F-2626-5
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC21F-2626-5
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC21F-2626-5

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	117	47.0-123		GC21F-2626-5
Decachlorobiphenyl	2051-24-3	117	35.0-153		GC21F-2626-5

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 15090224

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AS27496L)
Lab Sample ID: LCS-42

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC21F-2626-6	SW-846 8082A (PCB)	09/11/2015 14:08	JKA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	32201	EPA 3545A	09/10/2015 15:05	NJB	10.1 g	25.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/g)	LCS (ug/g)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	1.24	1.25	101		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	106	47.0-123		GC21F-2626-6
Decachlorobiphenyl	2051-24-3	119	35.0-153		GC21F-2626-6

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

6

Subcontract Analysis

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

September 15, 2015

FOR: Attn: Ms. Chelsea Farmer
Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/09/15	14:30
Location Code:	NEASTANY	Received by:	LB	09/10/15	18:11
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	15090224				

Laboratory Data

SDG ID: GBJ90329
Phoenix ID: BJ90329

Project ID: 15090224
Client ID: D-101

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
TCLP Silver	< 0.10	0.10	mg/L	1	09/11/15	EK	SW6010C	
TCLP Arsenic	< 0.10	0.10	mg/L	1	09/11/15	EK	SW6010C	
TCLP Barium	0.82	0.10	mg/L	1	09/11/15	EK	SW6010C	B
TCLP Cadmium	< 0.050	0.050	mg/L	1	09/11/15	EK	SW6010C	
TCLP Chromium	< 0.10	0.10	mg/L	1	09/11/15	EK	SW6010C	
TCLP Mercury	< 0.0002	0.0002	mg/L	1	09/11/15	RS	SW7470A	
TCLP Lead	0.10	0.10	mg/L	1	09/11/15	EK	SW6010C	
TCLP Selenium	< 0.10	0.10	mg/L	1	09/11/15	EK	SW6010C	
TCLP Metals Digestion	Completed				09/11/15	I/I	SW3005A	
TCLP Digestion Mercury	Completed				09/11/15	I/I	SW7470A	
TCLP Herbicides Extraction	Completed				09/11/15	W/D	SW8150 MOD	
TCLP Extraction for Metals	Completed				09/10/15	I	SW1311	
TCLP Extraction for Organics	Completed				09/14/15	I	SW1311	
TCLP Pesticides Extraction	Completed				09/15/15	W/W	SW3510C	
TCLP Semi-Volatile Extraction	Completed				09/11/15	LT/T	SW3510C	
TCLP Extraction Volatiles	Completed				09/10/15	Y	SW1311	
TCLP Herbicides								
2,4,5-TP (Silvex)	ND	4.2	ug/L	10	09/14/15	BB	SW8151A	
2,4-D	ND	4.2	ug/L	10	09/14/15	BB	SW8151A	
QA/QC Surrogates								
% DCAA	59		%	10	09/14/15	BB	30 - 150 %	
TCLP Pesticides								
4,4' -DDD	ND	1.0	ug/L	10	09/15/15	CE	SW8081B	
4,4' -DDE	ND	1.0	ug/L	10	09/15/15	CE	SW8081B	
4,4' -DDT	ND	1.0	ug/L	10	09/15/15	CE	SW8081B	
a-BHC	ND	0.50	ug/L	10	09/15/15	CE	SW8081B	

Project ID: 15090224
Client ID: D-101

Phoenix I.D.: BJ90329

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Alachlor	ND	0.50	ug/L	10	09/15/15	CE	SW8081B	1
Aldrin	ND	0.50	ug/L	10	09/15/15	CE	SW8081B	
b-BHC	ND	0.50	ug/L	10	09/15/15	CE	SW8081B	
Chlordane	ND	5.0	ug/L	10	09/15/15	CE	SW8081B	
d-BHC	ND	0.50	ug/L	10	09/15/15	CE	SW8081B	
Dieldrin	ND	1.0	ug/L	10	09/15/15	CE	SW8081B	
Endosulfan I	ND	0.50	ug/L	10	09/15/15	CE	SW8081B	
Endosulfan II	ND	1.0	ug/L	10	09/15/15	CE	SW8081B	
Endosulfan Sulfate	ND	1.0	ug/L	10	09/15/15	CE	SW8081B	
Endrin	ND	1.0	ug/L	10	09/15/15	CE	SW8081B	
Endrin Aldehyde	ND	1.0	ug/L	10	09/15/15	CE	SW8081B	
g-BHC (Lindane)	ND	0.50	ug/L	10	09/15/15	CE	SW8081B	
Heptachlor	ND	0.50	ug/L	10	09/15/15	CE	SW8081B	
Heptachlor epoxide	ND	0.50	ug/L	10	09/15/15	CE	SW8081B	
Methoxychlor	ND	0.50	ug/L	10	09/15/15	CE	SW8081B	
Toxaphene	ND	20	ug/L	10	09/15/15	CE	SW8081B	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	77		%	10	09/15/15	CE	30 - 150 %	
%TCMX (Surrogate Rec)	100		%	10	09/15/15	CE	30 - 150 %	
TCLP Volatiles								
1,1-Dichloroethene	ND	25	ug/L	5	09/13/15	MH	SW8260C	
1,2-Dichloroethane	ND	25	ug/L	5	09/13/15	MH	SW8260C	
Benzene	ND	25	ug/L	5	09/13/15	MH	SW8260C	
Carbon tetrachloride	ND	25	ug/L	5	09/13/15	MH	SW8260C	
Chlorobenzene	ND	25	ug/L	5	09/13/15	MH	SW8260C	
Chloroform	ND	25	ug/L	5	09/13/15	MH	SW8260C	
Methyl ethyl ketone	ND	25	ug/L	5	09/13/15	MH	SW8260C	
Tetrachloroethene	ND	25	ug/L	5	09/13/15	MH	SW8260C	
Trichloroethene	ND	25	ug/L	5	09/13/15	MH	SW8260C	
Vinyl chloride	ND	25	ug/L	5	09/13/15	MH	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	102		%	5	09/13/15	MH	70 - 130 %	
% Bromofluorobenzene	96		%	5	09/13/15	MH	70 - 130 %	
% Dibromofluoromethane	99		%	5	09/13/15	MH	70 - 130 %	
% Toluene-d8	98		%	5	09/13/15	MH	70 - 130 %	
TCLP Acid/Base-Neutral								
1,4-Dichlorobenzene	ND	130	ug/L	1	09/14/15	DD	SW8270D	
2,4,5-Trichlorophenol	ND	130	ug/L	1	09/14/15	DD	SW8270D	
2,4,6-Trichlorophenol	ND	130	ug/L	1	09/14/15	DD	SW8270D	
2,4-Dinitrotoluene	ND	130	ug/L	1	09/14/15	DD	SW8270D	
2-Methylphenol (o-cresol)	ND	130	ug/L	1	09/14/15	DD	SW8270D	
3&4-Methylphenol (m&p-Cresol)	ND	130	ug/L	1	09/14/15	DD	SW8270D	
Hexachlorobenzene	ND	130	ug/L	1	09/14/15	DD	SW8270D	
Hexachlorobutadiene	ND	130	ug/L	1	09/14/15	DD	SW8270D	
Hexachloroethane	ND	130	ug/L	1	09/14/15	DD	SW8270D	
Nitrobenzene	ND	130	ug/L	1	09/14/15	DD	SW8270D	
Pentachlorophenol	ND	130	ug/L	1	09/14/15	DD	SW8270D	
Pyridine	ND	130	ug/L	1	09/14/15	DD	SW8270D	

Project ID: 15090224
Client ID: D-101

Phoenix I.D.: BJ90329

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% 2,4,6-Tribromophenol	85		%	1	09/14/15	DD	15 - 110 %
% 2-Fluorobiphenyl	80		%	1	09/14/15	DD	30 - 130 %
% 2-Fluorophenol	59		%	1	09/14/15	DD	15 - 110 %
% Nitrobenzene-d5	75		%	1	09/14/15	DD	30 - 130 %
% Phenol-d5	49		%	1	09/14/15	DD	15 - 110 %
% Terphenyl-d14	89		%	1	09/14/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected
BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
September 15, 2015

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Sample Criteria Exceedences Report

GBJ90329 - NEASTANY

Criteria: None

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Phoenix
Temp 7 on ice DW

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

Pace Analytical Services, Inc.
2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.pacelabs.com

LRF # 15090224
(LAB USE ONLY)

DISPOSAL REQUIREMENTS: (To be filled in by Client)
- ○ RETURN TO CLIENT
- ● DISPOSAL BY RECEIVING LAB
- ○ ARCHIVAL BY RECEIVING LAB

Additional charges incurred for disposal (if hazardous) or archival. Call for details.

CLIENT (REPORTS TO BE SENT TO):	PROJECT#/PROJECT NAME:
PACE	15090224
PROJECT MANAGER:	LOCATION (CITY/STATE) ADDRESS:
Chelsea Farmer	NY
Project: 1368.001	REQUIRED TURN AROUND TIME: 9/15/2015
Notes:	NAME OF COURIER (IF USED):
ELECTRONIC RESULTS: Chelsea.Farmer@pacelabs.com; Nicole.Johnson@pacelabs.com	

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE KEY: 0 - ICE; 1 - HCL; 2 - HNO3; 3 - H2SO4; 4 - NaOH; 5 - Zn Acetate; 6 - MeOH; 7 - NaHSO4; 8 - Other (Na2S2O3)

SAMPLE ID	DATE	TIME	MATRIX	GRAB/ COMP	LAB SAMPLE ID (LAB USE ONLY)	NUMBER OF CONTAINERS	8260C - TCLP	8270 - TCLP	TCLP HERB	TCLP Mercury	TCLP RCRA Metals	TCLP PEST		REMARKS
PRESERVATIVE CODE														
BOTTLE TYPE:														
BOTTLE SIZE:														
D-101	9/8/15	14:30	S	GRAB	AS27496	2	X	X	X	X	X	X		90329

AMBIENT OR CHILLED | TEMP. | COC TAPE Y N | PROPERLY PRESERVED Y N | OTHER NOTES: Analytical Report [LEVEL 2] EDD: EQUIS-DECADE
RECEIVED BROKEN OR LEAKING: Y N | COC DISCREPANCIES: Y N | RECVD W/HOLDING TIMES Y N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: [signature]	SIGNATURE: [signature]	SIGNATURE: [signature]	SIGNATURE: [signature]	SIGNATURE: [signature]	SIGNATURE:
PRINTED NAME: A. Bitting	PRINTED NAME: Gregory Whittle	PRINTED NAME: Gregory Whittle	PRINTED NAME: Brad Lagger	PRINTED NAME: Brad Lagger	PRINTED NAME:
COMPANY: PACE	COMPANY: Phoenix Environmental	COMPANY: Phoenix Environmental	COMPANY: Phoenix ENVIR	COMPANY: Phoenix Enviro	COMPANY:
DATE/TIME: 9/10/15 13:30	DATE/TIME: 9/10/15 13:30	DATE/TIME: 9/10/15 16:16	DATE/TIME: 9-10-15 16:16	DATE/TIME:	DATE/TIME: 9/10/15 18:11

gb 90329

Analytical Services Request

P.O. Number: SRS-806

Pace Analytical Services, Inc.
2190 Technology Dr.
Schenectady, NY 12308
Phone: (518) 346-4592

Pace Project No:	15090224
Date Prepared:	9/10/2015
ANALYSIS DUE DATE:	9/15/2015
Report to:	Chelsea.Farmer@pacelabs.com
Invoice to:	Suzanne.McLaughlin@pacelabs.co

Subcontract Lab	PHOENIX ENV.	Sending Project Mgr.	Chelsea Farmer
Address	587 East Middle Turnpike Manchester 06040	Certification Required	NY
Contact	SARAH BELL	QC Deliverable	LEVEL-2NYS DEC EQUIS EDD

All questions should be addressed to sending project manager.

Type of Work: Analytical [X] Other (Identify)

Requested Reportable Units: Report Wet or Dry Weight?

WORK REQUESTED

Analysis / Method	Container Type (w/size volume)	Quantity of containers	Preservative	Quantity of Samples	Unit Price	Amount
EPA 8260C - TCLP				1	$ -	$ -
EPA 8270 - TCLP				1	$ -	$ -
TCLP Herbicides				1	$ -	$ -
TCLP Mercury				1	$ -	$ -
TCLP Metals				1	$ -	$ -
TCLP Pesticides				1	$ -	$ -
						$ -
						$ -
						$ -
					Unit Price Total:	$ -
					Discount/Surcharge Factors:	
					Total:	$ -

Special Requirements / Notes:

FOR ANALYTICAL WORK COMPLETE THIS SECTION ALSO

Chain of Custody Included: [x] Yes [ ] No Return Samples to Pace: [ ] Yes [x] No

Matrix: [x] Soil [ ] Water [ ] Air [ ] Other (identify)

CONFIRMATION OF WORK COMPLETED

Date Completed: Receiving Project Manager:

Date Issued: October 28, 2015

Pace Analytical e-Report

Report prepared for:
BARTON AND LOGUIDICE
10 AIRLINE DRIVE
ALBANY, NY 12205
CONTACT: ANDY BARBER

Project ID: ALCO
Sampling Date(s): October 21, 2015
Lab Report ID: 15100544
Client Service Contact: Chelsea Farmer (518) 346-4592 ext. 3843

Analysis Included:
PCB Analysis
EPA Method 8260C TCLP - Sub - Pace-LI
EPA Method 8270D TCLP Sub - Pace-LI
Herbicides (TCLP) - Sub - Pace-LI
Mercury TCLP- Sub - Pace-LI
ICP Metals (TCLP 6010C) - Sub - Pace-LI
TCLP Pesticides - Sub - Pace-LI

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith
Technical Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (1884)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

CASE NARRATIVE

October 28, 2015

CASE NARRATIVE

This data package (SDG ID: 15100544) consists of 1 soil sample received on 10/21/2015. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AS33401	D-102	10/21/2015 15:30

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via DROP OFF delivery service on 10/21/2015.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) All samples were received at the laboratory properly preserved with any exceptions listed below:
Sample was received outside of temperature limits. See sample receipt for details.

PCB Aroclor Analysis

Analysis for PCB Aroclors was performed by method SW-846 8082A. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see Pace Long Island lab report for quality assurance details. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,

Chelsea L. Farmer
Project Manager

S:\Lims Data\1510\15100544\Package\CN_15100544_Rev00.doc

QUALIFIERS

Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Adjusted Method Detection Limit.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.

RL - Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical® www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<15100544P1>

151005441

Page: of

1882119

Section A Required Client Information:

Company:	B+L
Address:	10 Airline drive Albany NY,
Email To:	nshaffer@bartonandloguidice.com
Phone:	518 218 1801
Fax:	
Requested Due Date/TAT:	ASAP (24hr?)

Section B Required Project Information:

Report To:	Nathan Shaffer
Copy To:	Andy Barber, Rosendo McCormick
Purchase Order No.:	
Project Name:	ALCO
Project Number:	1368.001.001

Section C Invoice Information:

Attention:	Billing Accounts Receivable
Company Name:	Barton and Loguidice
Address:	Syracuse
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER | UST | RCRA | OTHER

Site Location STATE: NY

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS (4 @ 2)	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	Albany landfill list	Full TCLP	PCB, Pest, Herb	metals etc.								Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-102	SL	C	10/21	15:30	—			4	X									X	X	X	X			AS33401					(call with any questions)
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	10/21/15	16:21	[signature]	10/21/15	16:21	20.2	N	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nathan Shaffer

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 10/21/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

CLIENT NAME: Bas A16
PROJECT : ALCO

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐
TRACKING # N/A
CUSTODY SEAL PRESENT: Yes ☐ No ☒ INTACT: Yes ☐ No ☐ N/A ☒
PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ☐ ICE USED: Wet ☐ Blue ☐ None ☒
THERMOMETER USED: #164 ☐ IR Gun 03 ☒ #122087967 ☐ COOLER TEMPERATURE (°C): 20.7°C
BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒ Temp should be above freezing to 6°C
COMMENTS: Temperature is Acceptable? ☐Yes ☒No

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☒Yes	☐No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☒Yes	☐No		7. ASAP
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☒Yes	☐No		12.
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation:	☐Yes	☐No	☒N/A	Initial when completed: N/A Lot # of added preservative: N/A
- Exceptions that are not checked: TOC, VOA, Subcontract Analyses				
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: N/A				

Sample Receipt form filled in: KAC 10/22/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH): KAC 10/22/15
Log In (Includes notifying PM of any discrepacies and documenting in LIMS): AJB 10/22/15
Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): KAC 10/22/15

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
15100544

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE
PROJECT: ALCO
LRF: 15100544
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: *4 DAY*

RECEIVED DATE: 10/21/2015 16:21
SHIPPED VIA: DROP OFF [1,2]
SHIPPING ID: N. SHAFFER/ BAR-ALB
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: AMBIENT
TEMPERATURE(S): [5] 20.7 (IR) °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: NO
[3] **SAMPLES REC'D IN HOLDTIME:** YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:
UPON RECEIPT AT THE LAB, SAMPLE TEMPERATURE WAS GREATER THAN 6C. NO ICE WAS PRESENT.

CLIENT ID (LAB ID)	TAT-DUE Date [4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D-102 (AS33401)	*4 DAY* 10-28-15	10/21/2015 15:30	Soil	E6010C-TCLP	ICP Metals (TCLP 6010C) - Sub - Pace-LI	
	4 DAY 10-28-15	10/21/2015 15:30	Soil	E7470A-TCLP	Mercury TCLP- Sub - Pace-LI	
	4 DAY 10-28-15	10/21/2015 15:30	Soil	E8081-TCLP	TCLP Pesticides - Sub - Pace-LI	
	4 DAY 10-28-15	10/21/2015 15:30	Soil	E8151A-TCLP	Herbicides (TCLP) - Sub - Pace-LI	
	4 DAY 10-28-15	10/21/2015 15:30	Soil	E8260C-TCLP	EPA Method 8260C TCLP - Sub - Pace-LI	
	4 DAY 10-28-15	10/21/2015 15:30	Soil	E8270D-TCLP	EPA Method 8270D TCLP Sub - Pace-LI	
	4 DAY 10-28-15	10/21/2015 15:30	Soil	EPA 8082A	PCB Analysis	

4

[1] The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.
[2] The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3] Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4] Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.
The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5] All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.
[6] Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

Reporting Parameters and Lists

EPA 8082A - PCB Analysis - (ug/g)

Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB Amount > RL

GC - PCB

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: D-102
Lab Sample ID: 15100544-01 (AS33401)

Collection Date: 10/21/2015 15:30
Sample Matrix: SOIL
Received Date: 10/21/2015 16:21
Percent Solid: 91.5 - Results are based on dry weight unless otherwise noted.

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1565-18	SW-846 8082A (PCB)	10/25/2015 14:26	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	32646	EPA 3546	10/23/2015 14:25	LMB	10.0 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0545	1.00	U	GC10F-1565-18
Aroclor 1221	11104-28-2	ND	0.0545	1.00	U	GC10F-1565-18
Aroclor 1232	11141-16-5	ND	0.0545	1.00	U	GC10F-1565-18
Aroclor 1242	53469-21-9	ND	0.0545	1.00	U	GC10F-1565-18
Aroclor 1248	12672-29-6	ND	0.0545	1.00	U	GC10F-1565-18
Aroclor 1254	11097-69-1	ND	0.0545	1.00	U	GC10F-1565-18
Aroclor 1260	11096-82-5	ND	0.0545	1.00	U	GC10F-1565-18
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1565-18

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	89.6	47.0-123		GC10F-1565-18
Decachlorobiphenyl	2051-24-3	95.1	35.0-153		GC10F-1565-18

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.
Sample temperature was outside of method acceptance limits at the time of receipt.

Quality Control Samples (Lab)

Pace Analytical®

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Quality Control Results
Method Blank

Job Number: 15100544

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Method Blank (AS33401B)
Lab Sample ID: PBLK-50

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1565-16	SW-846 8082A (PCB)	10/25/2015 14:00	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	32646	EPA 3546	10/23/2015 14:24	LMB	10.1 g	25.0 mL	NA

Analyte	CAS No.	Result (ug/g)	PQL	Dilution Factor	Flags	File ID
Aroclor 1016	12674-11-2	ND	0.0500	1.00	U	GC10F-1565-16
Aroclor 1221	11104-28-2	ND	0.0500	1.00	U	GC10F-1565-16
Aroclor 1232	11141-16-5	ND	0.0500	1.00	U	GC10F-1565-16
Aroclor 1242	53469-21-9	ND	0.0500	1.00	U	GC10F-1565-16
Aroclor 1248	12672-29-6	ND	0.0500	1.00	U	GC10F-1565-16
Aroclor 1254	11097-69-1	ND	0.0500	1.00	U	GC10F-1565-16
Aroclor 1260	11096-82-5	ND	0.0500	1.00	U	GC10F-1565-16
Total PCB Amount > RL	1336-36-3	ND		1.00	U	GC10F-1565-16

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	91.0	47.0-123		GC10F-1565-16
Decachlorobiphenyl	2051-24-3	104	35.0-153		GC10F-1565-16

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

Pace Analytical®

Quality Control Results
Lab Control Sample (LCS)
Job Number: 15100544

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

Client: BARTON AND LOGUIDICE
Project: ALCO
Client Sample ID: Lab Control Sample (AS33401L)
Lab Sample ID: LCS-50

Collection Date: N/A
Sample Matrix: SOIL
Received Date: N/A
Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC10F-1565-17	SW-846 8082A (PCB)	10/25/2015 14:13	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm
Prep 1:	32646	EPA 3546	10/23/2015 14:24	LMB	10.1 g	25.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/g)	LCS (ug/g)	LCS % Rec.	Q[1]	Limits (%)
Aroclor 1242	53469-21-9	1.24	1.06	85.3		70.0-130

[1]Qualifier column where '*' denotes value outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detected.

Surrogate	CAS No.	% Recovery	Limits (%)	Q[1]	File ID
Tetrachloro-meta-xylene	877-09-8	91.7	47.0-123		GC10F-1565-17
Decachlorobiphenyl	2051-24-3	105	35.0-153		GC10F-1565-17

[1]Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.

ND: Denotes analyte not detected at a concentration greater than the PQL.
PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the sample.

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Subcontract Analysis

Pace Analytical
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NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 10/21/2015 3:30:00 PM
Received : 10/22/2015
Collected By : CLIENT

Lab No. : 1510H16-001
Client Sample ID: D-102

AS33401 *Samples received out of temperature at Schenectady lab

Sample Information:
Type : Soil

Origin:

Analytical Method: SW1311/8270D : Prep Method: 3510C Prep Date: 10/26/2015 5:27:17 PM Analyst: SH

Prep Comments: ambient room temperature exceeded range

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
1,4-Dichlorobenzene	< 0.0100		1	mg/L			10/27/2015 7:09 PM	Container-01 of 04
2,4,5-Trichlorophenol	< 0.0250		1	mg/L			10/27/2015 7:09 PM	Container-01 of 04
2,4,6-Trichlorophenol	< 0.0100		1	mg/L			10/27/2015 7:09 PM	Container-01 of 04
2,4-Dinitrotoluene	< 0.0100		1	mg/L			10/27/2015 7:09 PM	Container-01 of 04
2-Methylphenol	< 0.0100		1	mg/L			10/27/2015 7:09 PM	Container-01 of 04
3-Methylphenol/4-Methylphenol	< 0.0100		1	mg/L			10/27/2015 7:09 PM	Container-01 of 04
Hexachlorobenzene	< 0.0100		1	mg/L			10/27/2015 7:09 PM	Container-01 of 04
Hexachlorobutadiene	< 0.0100	S	1	mg/L			10/27/2015 7:09 PM	Container-01 of 04
Hexachloroethane	< 0.0100		1	mg/L			10/27/2015 7:09 PM	Container-01 of 04
Nitrobenzene	< 0.0100		1	mg/L			10/27/2015 7:09 PM	Container-01 of 04
Pentachlorophenol	< 0.0250		1	mg/L			10/27/2015 7:09 PM	Container-01 of 04
Pyridine	< 0.0100		1	mg/L			10/27/2015 7:09 PM	Container-01 of 04
Surr: 1,2-Dichlorobenzene-d4	25.3		1	%REC	Limit	16-110	10/27/2015 7:09 PM	Container-01 of 04
Surr: 2,4,6-Tribromophenol	53.1		1	%REC	Limit	10-123	10/27/2015 7:09 PM	Container-01 of 04
Surr: 2-Chlorophenol-d4	31.3	S	1	%REC	Limit	33-110	10/27/2015 7:09 PM	Container-01 of 04
Surr: 2-Fluorobiphenyl	33.4	S	1	%REC	Limit	43-116	10/27/2015 7:09 PM	Container-01 of 04
Surr: 2-Fluorophenol	13.9	S	1	%REC	Limit	21-110	10/27/2015 7:09 PM	Container-01 of 04
Surr: 4-Terphenyl-d14	88.3		1	%REC	Limit	33-141	10/27/2015 7:09 PM	Container-01 of 04
Surr: Nitrobenzene-d5	35.1		1	%REC	Limit	35-114	10/27/2015 7:09 PM	Container-01 of 04
Surr: Phenol-d5	8.81	S	1	%REC	Limit	10-110	10/27/2015 7:09 PM	Container-01 of 04

NOTES:
Surrogate recovery low. Low recovery due to matrix confirmed by matrix spike.

Analytical Method: SW1311/8151A : Prep Method: SW1311/8151 Prep Date: 10/26/2015 9:43:49 AM Analyst: MJM

Prep Comments: ambient room temperature exceeded range

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
2,4,5-TP (Silvex)	< 0.0025		1	mg/L			10/27/2015 6:58 PM	Container-01 of 04
2,4-D	< 0.0050		1	mg/L			10/27/2015 6:58 PM	Container-01 of 04
Surr: DCAA	56.9		1	%REC	Limit	36-121	10/27/2015 6:58 PM	Container-01 of 04

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Caitlin Panzarella
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 10/28/2015

Pace Analytical
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NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 10/21/2015 3:30:00 PM
Received : 10/22/2015
Collected By : CLIENT

Lab No. : 1510H16-001
Client Sample ID: D-102

AS33401 *Samples received out of temperature at Schenectady lab

Sample Information:
Type : Soil

Origin:

Analytical Method: SW1311/7470A : Prep Method: SW7470 Prep Date: 10/27/2015 7:00:00 AM Analyst: MF
Prep Comments: ambient room temperature exceeded range

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Mercury	< 0.200		1	ug/L	10/27/2015 1:15 PM	Container-01 of 04

Analytical Method: SW1311/6010C : Prep Method: SW3005A Prep Date: 10/26/2015 1:30:00 PM Analyst: CGZ
Prep Comments: ambient room temperature exceeded range

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Arsenic	< 1.00		1	mg/L	10/27/2015 3:32 AM	Container-01 of 04
Barium	< 10.0		1	mg/L	10/27/2015 3:32 AM	Container-01 of 04
Cadmium	< 0.100		1	mg/L	10/27/2015 3:32 AM	Container-01 of 04
Chromium	< 1.00		1	mg/L	10/27/2015 3:32 AM	Container-01 of 04
Lead	< 1.00		1	mg/L	10/27/2015 3:32 AM	Container-01 of 04
Selenium	< 0.100		1	mg/L	10/27/2015 3:32 AM	Container-01 of 04
Silver	< 1.00		1	mg/L	10/27/2015 3:32 AM	Container-01 of 04

Analytical Method: SW1311/8081B : Prep Method: 3510C Prep Date: 10/26/2015 5:19:55 PM Analyst: JS
Prep Comments: ambient room temperature exceeded range

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Chlordane	< 0.0020		1	mg/L			10/27/2015 3:06 PM	Container-01 of 04
Endrin	< 0.00020		1	mg/L			10/27/2015 3:06 PM	Container-01 of 04
gamma-BHC	< 0.00010		1	mg/L			10/27/2015 3:06 PM	Container-01 of 04
Heptachlor	< 0.00010		1	mg/L			10/27/2015 3:06 PM	Container-01 of 04
Heptachlor epoxide	< 0.00010		1	mg/L			10/27/2015 3:06 PM	Container-01 of 04
Methoxychlor	< 0.0010		1	mg/L			10/27/2015 3:06 PM	Container-01 of 04
Toxaphene	< 0.010		1	mg/L			10/27/2015 3:06 PM	Container-01 of 04
Surr: Decachlorobiphenyl	82.4		1	%REC	Limit	30-150	10/27/2015 3:06 PM	Container-01 of 04
Surr: Tetrachloro-m-xylene	79.5		1	%REC	Limit	30-150	10/27/2015 3:06 PM	Container-01 of 04

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Caitlin Panzarella
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 10/28/2015

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LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 10/21/2015 3:30:00 PM
Received : 10/22/2015
Collected By : CLIENT

Lab No. : 1510H16-001
Client Sample ID: D-102

AS33401 *Samples received out of temperature at Schenectady lab

Sample Information:
Type : Soil

Origin:

Analytical Method: SW1311/8260C : Prep Date: 10/23/2015 3:11:46 PM Analyst: MF

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
1,1-Dichloroethene	< 0.010		1	mg/L			10/27/2015 9:56 AM	Container-01 of 04
1,2-Dichloroethane	< 0.010		1	mg/L			10/27/2015 9:56 AM	Container-01 of 04
1,4-Dichlorobenzene	< 0.010		1	mg/L			10/27/2015 9:56 AM	Container-01 of 04
2-Butanone	< 0.010		1	mg/L			10/27/2015 9:56 AM	Container-01 of 04
Benzene	< 0.010		1	mg/L			10/27/2015 9:56 AM	Container-01 of 04
Carbon tetrachloride	< 0.010		1	mg/L			10/27/2015 9:56 AM	Container-01 of 04
Chlorobenzene	< 0.010		1	mg/L			10/27/2015 9:56 AM	Container-01 of 04
Chloroform	< 0.010		1	mg/L			10/27/2015 9:56 AM	Container-01 of 04
Tetrachloroethene	< 0.010		1	mg/L			10/27/2015 9:56 AM	Container-01 of 04
Trichloroethene	< 0.010		1	mg/L			10/27/2015 9:56 AM	Container-01 of 04
Vinyl chloride	< 0.010		1	mg/L			10/27/2015 9:56 AM	Container-01 of 04
Surr: 1,2-dichloroethane-d4	127		1	%REC	Limit	53-183	10/27/2015 9:56 AM	Container-01 of 04
Surr: 4-Bromofluorobenzene	103		1	%REC	Limit	52-124	10/27/2015 9:56 AM	Container-01 of 04
Surr: Toluene-d8	96.4		1	%REC	Limit	60-135	10/27/2015 9:56 AM	Container-01 of 04

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Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
H = Received/analyzed outside of analytical holding time
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method
c = Calibration acceptability criteria exceeded for this analyte
R = Reporting limit below calibration range. Value estimated.
J = Estimated value - below calibration range
S = Recovery exceeded control limits for this analyte
N = Indicates presumptive evidence of compound

Caitlin Panzarella
Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 10/28/2015

PACE ANALYTICAL
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Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1510H16**

28-Oct-15

Client: Pace Analytical Services Inc.
Project: 15100544 - B&L ALCO **BatchID:** **52644**

Sample ID: **mb-52644**	SampType: **mblk**	TestCode: **1311_h**	Units: **mg/L**	Prep Date: **10/26/2015**	RunNo: **85937**
Client ID: **PBW**	Batch ID: **52644**	TestNo: **SW1311/8151**	**SW1311/8151**	Analysis Date: **10/27/2015**	SeqNo: **1862908**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D	< 0.0050	0.0050									
2,4,5-TP (Silvex)	< 0.0025	0.0025									
Surr: DCAA	0.084		0.1000		83.7	36	121				

Sample ID: **lfb-52644**	SampType: **lfb**	TestCode: **1311_h**	Units: **mg/L**	Prep Date: **10/26/2015**	RunNo: **85937**
Client ID: **ZZZZZZ**	Batch ID: **52644**	TestNo: **SW1311/8151**	**SW1311/8151**	Analysis Date: **10/27/2015**	SeqNo: **1862909**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D	0.017	0.0050	0.02000	0	86.6	47	152				
2,4,5-TP (Silvex)	0.0092	0.0025	0.01000	0	92.3	44	157				
Surr: DCAA	0.075		0.1000		74.7	36	121				

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Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
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Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1510H16**

28-Oct-15

Client: Pace Analytical Services Inc.
Project: 15100544 - B&L ALCO **BatchID:** **52650**

Sample ID: **MB-52650** SampType: **MBLK** TestCode: **1311_M** Units: **mg/L** Prep Date: **10/26/2015** RunNo: **85862**
Client ID: **PBW** Batch ID: **52650** TestNo: **SW1311/6010 SW3010A** Analysis Date: **10/27/2015** SeqNo: **1860576**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 1.00	1.00									
Barium	< 10.0	10.0									
Cadmium	< 0.100	0.100									
Chromium	< 1.00	1.00									
Lead	< 1.00	1.00									
Selenium	< 0.100	0.100									
Silver	< 1.00	1.00									

Sample ID: **LCS-52650** SampType: **LCS** TestCode: **1311_M** Units: **mg/L** Prep Date: **10/26/2015** RunNo: **85862**
Client ID: **LCSW** Batch ID: **52650** TestNo: **SW1311/6010 SW3010A** Analysis Date: **10/27/2015** SeqNo: **1860578**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 1.00	1.00	0.5000	0	103	80	120				
Barium	< 10.0	10.0	2.500	0	98.0	80	120				
Cadmium	2.46	0.100	2.500	0	98.4	80	120				
Chromium	2.41	1.00	2.500	0	96.6	80	120				
Lead	< 1.00	1.00	0.5000	0	96.9	80	120				
Selenium	0.497	0.100	0.5000	0	99.5	80	120				
Silver	< 1.00	1.00	1.000	0	94.7	80	120				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1510H16**

28-Oct-15

Client: Pace Analytical Services Inc.
Project: 15100544 - B&L ALCO **BatchID:** **52654**

Sample ID: **mb-52654** SampType: **mblk** TestCode: **1311_p** Units: **mg/L** Prep Date: **10/26/2015** RunNo: **85910**
Client ID: **PBW** Batch ID: **52654** TestNo: **SW1311/8081 SW3510C** Analysis Date: **10/27/2015** SeqNo: **1861844**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
gamma-BHC	< 0.00010	0.00010									
Heptachlor	< 0.00010	0.00010									
Heptachlor epoxide	< 0.00010	0.00010									
Endrin	< 0.00020	0.00020									
Methoxychlor	< 0.0010	0.0010									
Toxaphene	< 0.010	0.010									
Chlordane	< 0.0020	0.0020									
Surr: Tetrachloro-m-xylene	0.00028		0.0004000		70.8	30	150				
Surr: Decachlorobiphenyl	0.00030		0.0004000		74.3	30	150				

Sample ID: **lfb-52654** SampType: **lfb** TestCode: **1311_p** Units: **mg/L** Prep Date: **10/26/2015** RunNo: **85910**
Client ID: **ZZZZZZ** Batch ID: **52654** TestNo: **SW1311/8081 SW3510C** Analysis Date: **10/27/2015** SeqNo: **1861845**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
gamma-BHC	0.00068	0.00010	0.0008000	0	85.4	27	146				
Heptachlor	0.00062	0.00010	0.0008000	0	77.7	10	148				
Heptachlor epoxide	0.00068	0.00010	0.0008000	0	85.3	28	144				
Endrin	0.00063	0.00020	0.0008000	0	78.7	22	152				
Methoxychlor	< 0.0010	0.0010	0.0008000	0	79.6	19	146				
Surr: Tetrachloro-m-xylene	0.00030		0.0004000		74.0	30	150				
Surr: Decachlorobiphenyl	0.00030		0.0004000		75.8	30	150				

7

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1510H16**

28-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100544 - B&L ALCO **BatchID:** **52654**

Sample ID: **lfb3-52654** SampType: **lfb** TestCode: **1311_p** Units: **mg/L** Prep Date: **10/26/2015** RunNo: **85910**

Client ID: **ZZZZZZ** Batch ID: **52654** TestNo: **SW1311/8081 SW3510C** Analysis Date: **10/27/2015** SeqNo: **1861846**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toxaphene	0.035	0.010	0.04000	0	88.7	46	168				E
Surr: Tetrachloro-m-xylene	0.00033		0.0004000		82.1	30	150				
Surr: Decachlorobiphenyl	0.00039		0.0004000		98.1	30	150				

7

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

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QC SUMMARY REPORT

WO#: **1510H16**

28-Oct-15

Client: Pace Analytical Services Inc.
Project: 15100544 - B&L ALCO **BatchID:** **52655**

Sample ID: **MB-52655** SampType: **MBLK** TestCode: **1311_B** Units: **mg/L** Prep Date: **10/26/2015** RunNo: **85972**
Client ID: **PBW** Batch ID: **52655** TestNo: **SW1311/8270 SW3520C** Analysis Date: **10/27/2015** SeqNo: **1863413**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyridine	< 0.0100	0.0100									
1,4-Dichlorobenzene	< 0.0100	0.0100									
2-Methylphenol	< 0.0100	0.0100									
3-Methylphenol/4-Methylphenol	< 0.0100	0.0100									
Hexachloroethane	< 0.0100	0.0100									
Nitrobenzene	< 0.0100	0.0100									
Hexachlorobutadiene	< 0.0100	0.0100									
2,4,6-Trichlorophenol	< 0.0100	0.0100									
2,4,5-Trichlorophenol	< 0.0250	0.0250									
2,4-Dinitrotoluene	< 0.0100	0.0100									
Hexachlorobenzene	< 0.0100	0.0100									
Pentachlorophenol	< 0.0250	0.0250									
Surr: 2-Fluorophenol	0.0170		0.07500		22.7	21	110				
Surr: Nitrobenzene-d5	0.0294		0.05000		58.8	35	114				
Surr: Phenol-d5	0.0106		0.07500		14.1	10	110				
Surr: 2,4,6-Tribromophenol	0.0597		0.07500		79.6	10	123				
Surr: 2-Fluorobiphenyl	0.0295		0.05000		59.0	43	116				
Surr: 4-Terphenyl-d14	0.0497		0.05000		99.4	33	141				
Surr: 2-Chlorophenol-d4	0.0377		0.07500		50.3	33	110				
Surr: 1,2-Dichlorobenzene-d4	0.0236		0.05000		47.2	16	110				

Sample ID: **LFB-52655** SampType: **LFB** TestCode: **1311_B** Units: **mg/L** Prep Date: **10/26/2015** RunNo: **85972**
Client ID: **ZZZZZZ** Batch ID: **52655** TestNo: **SW1311/8270 SW3520C** Analysis Date: **10/27/2015** SeqNo: **1863414**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1510H16**

28-Oct-15

Client: Pace Analytical Services Inc.

Project: 15100544 - B&L ALCO **BatchID:** **52655**

Sample ID: **LFB-52655** SampType: **LFB** TestCode: **1311_B** Units: **mg/L** Prep Date: **10/26/2015** RunNo: **85972**

Client ID: **ZZZZZZ** Batch ID: **52655** TestNo: **SW1311/8270 SW3520C** Analysis Date: **10/27/2015** SeqNo: **1863414**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyridine	0.0120	0.0100	0.05000	0	23.9	12	81.6				
1,4-Dichlorobenzene	0.0227	0.0100	0.05000	0	45.3	38	116				
2-Methylphenol	0.0198	0.0100	0.05000	0	39.7	27	141				
3-Methylphenol/4-Methylphenol	0.0350	0.0100	0.1000	0	35.0	15	141				
Hexachloroethane	0.0202	0.0100	0.05000	0	40.4	39	111				
Nitrobenzene	0.0329	0.0100	0.05000	0	65.8	39	129				
Hexachlorobutadiene	0.0189	0.0100	0.05000	0	37.8	49	115				S
2,4,6-Trichlorophenol	0.0391	0.0100	0.05000	0	78.1	37	133				
2,4,5-Trichlorophenol	0.0381	0.0250	0.05000	0	76.2	16	148				
2,4-Dinitrotoluene	0.0361	0.0100	0.05000	0	72.3	46	118				
Hexachlorobenzene	0.0472	0.0100	0.05000	0	94.3	55	127				
Pentachlorophenol	0.0400	0.0250	0.05000	0	80.0	13	123				
Surr: 2-Fluorophenol	0.0194		0.07500		25.9	21	110				
Surr: Nitrobenzene-d5	0.0341		0.05000		68.2	35	114				
Surr: Phenol-d5	0.0114		0.07500		15.2	10	110				
Surr: 2,4,6-Tribromophenol	0.0579		0.07500		77.2	10	123				
Surr: 2-Fluorobiphenyl	0.0321		0.05000		64.3	43	116				
Surr: 4-Terphenyl-d14	0.0549		0.05000		110	33	141				
Surr: 2-Chlorophenol-d4	0.0434		0.07500		57.8	33	110				
Surr: 1,2-Dichlorobenzene-d4	0.0246		0.05000		49.2	16	110				

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

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Melville, NY 11747
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Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1510H16**

28-Oct-15

Client: Pace Analytical Services Inc.
Project: 15100544 - B&L ALCO **BatchID:** **52666**

Sample ID: **MB-52666**	SampType: **MBLK**	TestCode: **1311_HG**	Units: **ug/L**	Prep Date: **10/27/2015**	RunNo: **85888**
Client ID: **PBW**	Batch ID: **52666**	TestNo: **SW1311/7470** **SW7470**		Analysis Date: **10/27/2015**	SeqNo: **1861306**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.200	0.200									

Sample ID: **MB1-52666**	SampType: **MBLK**	TestCode: **1311_HG**	Units: **ug/L**	Prep Date:	RunNo: **85888**
Client ID: **PBW**	Batch ID: **52666**	TestNo: **SW1311/7470** **SW7470**		Analysis Date: **10/27/2015**	SeqNo: **1861307**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.200	0.200									

Sample ID: **LCS-52666**	SampType: **LCS**	TestCode: **1311_HG**	Units: **ug/L**	Prep Date: **10/27/2015**	RunNo: **85888**
Client ID: **LCSW**	Batch ID: **52666**	TestNo: **SW1311/7470** **SW7470**		Analysis Date: **10/27/2015**	SeqNo: **1861308**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.970	0.200	1.000	0	97.0	80	120				

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Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

Sample Receipt Checklist

Client Name: **PACE-NY** Date and Time Received: **10/22/2015**

Work Order Number: **1510H16** RcptNo: **1** Received by: **Paige Doherty**

Completed by: Paige Doherty Reviewed by: Caitlin Panzarella

Completed Date: 10/22/2015 10:54:48 PM Reviewed Date: 10/23/2015 11:25:12 AM

Carrier name: PACE Pickup

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To 3.3 °	
Water - Were bubbles absent in VOC vials?	Yes	☐	No	☐	No Vials	☑
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☐	No	☐	No Water	☑
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☑	No	☐		
Airbill or Sticker?	Air Bill	☐	Sticker	☐	Not Present	☑

Airbill No:

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☑ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

Upon receipt at Schenectady lab, sample temperature was greater than 6C. No ice was present.

CorrectiveAction:

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1510H16

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

PACE - L1

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

Pace Analytical Services, Inc.
2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.pacelabs.com

LRF # 15100544
(LAB USE ONLY)

DISPOSAL REQUIREMENTS: (To be filled in by Client)
- ○ RETURN TO CLIENT
- ● DISPOSAL BY RECEIVING LAB
- ○ ARCHIVAL BY RECEIVING LAB

Additional charges incurred for disposal (if hazardous) or archival.
Call for details.

CLIENT (REPORTS TO BE SENT TO): **PACE**

PROJECT#/PROJECT NAME: **15100544**

LOCATION (CITY/STATE) ADDRESS: **NY**

PROJECT MANAGER: **Chelsea Farmer**

Project: **1368.001**

REQUIRED TURN AROUND TIME: ~~10/27/2015~~ RUSH 10/28/15 CMP 10/25/15

Notes:

NAME OF COURIER (IF USED):

ELECTRONIC RESULTS: Chelsea.Farmer@pacelabs.com; Nicole.Johnson@pacelabs.com

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE KEY: 0 - ICE; 1 - HCL; 2 - HNO3; 3 - H2SO4; 4 - NaOH; 5 - Zn. Acetate; 6 - MeOH; 7 - NaHSO4; 8 - Other (Na2SO3)

SAMPLE ID	DATE	TIME	MATRIX	GRAB/ COMP	LAB SAMPLE ID (LAB USE ONLY)	NUMBER OF CONTAINERS	TCLP 8260	TCLP 8270	TCLP HERB	TCLP MERCURY	TCLP RCRA METALS	TCLP PEST		REMARKS
PRESERVATIVE CODE:														
BOTTLE TYPE:														
BOTTLE SIZE:														
D-102	10/21/15	15:30	S	COMP	AS33401	4	X	X	X	X	X	X		1510H16

AMBIENT OR CHILLED: TEMP: 3.3 — COC TAPE: (Y) N — PROPERLY PRESERVED: (Y) N — OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DE

RECEIVED BROKEN OR LEAKING: Y (N) — COC DISCREPANCIES: Y (N) — RECVD W/I HOLDING TIMES: (Y) N

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE: L. Butler	SIGNATURE: [signature]	SIGNATURE: [signature]	SIGNATURE: [signature]	SIGNATURE:	SIGNATURE:
PRINTED NAME: L. Butler	PRINTED NAME: C. Murray	PRINTED NAME: C. Murray	PRINTED NAME: Mary Doherty	PRINTED NAME:	PRINTED NAME:
COMPANY: PACE	COMPANY: Pace Lab	COMPANY: Pace Lab	COMPANY: Pace-LF	COMPANY:	COMPANY:
DATE/TIME: 10/22/15	DATE/TIME: 10-22-15	DATE/TIME: 10-22-15	DATE/TIME: 10/22/15	DATE/TIME:	DATE/TIME:

S:\LOGIN\MDLCOCS

9:17 am

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

<15100544P1>
151005441

Section A Required Client Information:
- Company: B+L
- Address: 10 Airline Drive, Albany NY,
- Email To: nshaffer@bartonandloguidice.com
- Phone: 518 218 1801 Fax:
- Requested Due Date/TAT: ASAP (24hr?)

Section B Required Project Information:
- Report To: Nathan Shaffer
- Copy To: Andy Barber, Rosendo? McCormick
- Purchase Order No.:
- Project Name: ALCO
- Project Number: 1768.001.001

Section C Invoice Information:
- Attention: Billing Accounts Receivable
- Company Name: Barton and Loguidice
- Address: Syracuse
- Pace Quote Reference:
- Pace Project Manager:
- Pace Profile #:

Page: of 1882119

REGULATORY AGENCY
- NPDES
- GROUND WATER
- DRINKING WATER
- UST
- RCRA
- OTHER

Site Location STATE: NY

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

Analysis Test: Albany landfill (TCL?) list; Full TCLP; PCB, Pest, Herb; metals etc.

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS (2oz?)	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Albany landfill list	Full TCLP	PCB, Pest, Herb	metals etc.		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D-102	SL	C	10/21	15:30	—	—		4	X								X	X	X	X	A533401		(call with any questions)
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	10/21/15	16:21	[signature]	10/21/15	16:21	20.2	N	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
- PRINT Name of SAMPLER: Nathan Shaffer
- SIGNATURE of SAMPLER: [signature]
- DATE Signed (MM/DD/YY): 10/21/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

7

<15100544P2>

151305442

Sample Condition Upon Receipt

CLIENT NAME: Bas A16

PROJECT : ALCO

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐

TRACKING # NA

CUSTODY SEAL PRESENT: Yes ☐ No ☒ INTACT: Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ☐

ICE USED: Wet ☐ Blue ☐ None ☒

THERMOMETER USED: #164 ☐ IR Gun 03 ☒ #122087967 ☐

COOLER TEMPERATURE (°C): 20.5°C

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒

Temp should be above freezing to 6°C

COMMENTS:

Temperature is Acceptable? ☐Yes ☒No

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☒Yes	☐No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☒Yes	☐No		7. ASAP
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☒Yes	☐No		12.
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation:	☐Yes	☐No	☒N/A	Initial when completed: NIA — Lot # of added preservative: NIA
- Exceptions that are not checked: TOC, VOA, Subcontract Analyses				
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: NIA				

Sample Receipt form filled in: KAC 10/22/15

Line-Out (Includes Copying Shipping Documents and verifying sample pH): KAC 10/22/15

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): AJB 10/22/15

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): KAC 10/22/15

Date Issued: July 01, 2016

Pace Analytical e-Report

Report prepared for:
BARTON AND LOGUIDICE
10 AIRLINE DRIVE
ALBANY, NY 12205
CONTACT: ANDY BARBER

Project ID: ALCO
Sampling Date(s): June 27, 2016
Lab Report ID: 16060565
Client Service Contact: Nick Nicholas (518) 346-4592

Analysis Included:
PCBs E8082A - Sub Pace LI
TCLP VOCs E1311/E8260C - Sub Pace LI
TCLP SVOCs E1311/E8270D - Sub Pace LI
TCLP Herbicide E1311/E8151A - Sub Pace LI
TCLP Mercury E1311/E7470A - Sub Pace LI
TCLP Metals E1311/E6010C - Sub Pace LI
TCLP Pesticide E1311/E8081 - Sub Pace LI

Test results meet all National Environmental Laboratory Accreditation Conference (NELAC) requirements unless noted in the case narrative. The results contained within this document relate only to the samples included in this report. Pace Analytical is responsible only for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

Roy Smith
Technical Director

Certifications: New York (EPA: NY00906, ELAP: 11078), New Jersey (NY026), Connecticut (PH-0337), Massachusetts (M-NY906), Virginia (460241)

Pace Analytical Services, Inc.| 2190 Technology Drive | Schenectady, NY 12308
Phone: 518.346.4592 | internet: www.pacelabs.com

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Table of Contents

CASE NARRATIVE

July 01, 2016

CASE NARRATIVE

This data package (SDG ID: 16060565) consists of 1 soil sample received on 06/27/2016. The sample is from Project Name: ALCO.

This sample delivery group consists of the following samples:

Lab Sample ID	Client ID	Collection Date
AT15893	D103	06/27/2016 11:00

Sample Delivery and Receipt Conditions

(1.) All samples were delivered to the laboratory via DROP OFF delivery service on 06/27/2016.

(2.) All samples were received at the laboratory intact and within holding times.

(3.) All samples were received at the laboratory properly preserved, if applicable.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to PCB analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to TCLP Volatile Organic Compound analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to TCLP Semi Volatile Organic Compound analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to TCLP Herbicide analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to TCLP Mercury analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to TCLP Metals analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Subcontract Analysis

Please see the Pace Analytical Services Long Island laboratory report for method and quality assurance details pertaining to TCLP Pesticide analysis. The following technical and administrative items were noted for the analysis:

(1.) All quality assurance parameters were met for this analysis, unless otherwise noted.

Respectfully submitted,

Chelsea L. Farmer
Project Manager

1

S:\Lims Data\1606\16060565\Package\CN_16060565_Rev00.doc

QUALIFIERS

Definitions

B - Denotes analyte observed in associated method blank or extraction blank. Analyte concentration should be considered as estimated.

D - Surrogate was diluted. The analysis of the sample required a dilution such that the surrogate concentration was diluted outside the laboratory acceptance criteria.

E - Denotes analyte concentration exceeded calibration range of instrument. Sample could not be reanalyzed at secondary dilution due to insufficient sample amount, quick turn-around request, sample matrix interference or hold time excursion. Concentration result should be considered as estimated.

J - Denotes an estimated concentration. The concentration result is greater than or equal to the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL).

MDL – Adjusted Method Detection Limit.

P - Indicates relative percent difference (RPD) between primary and secondary gas chromatograph (GC) column analysis exceeds 40 % or indicates percent difference (PD) between primary and secondary gas chromatograph (GC) column analysis exceeds 25 %.

PQL – Practical Quantitation Limit. PQLs are adjusted for sample weight/volume and dilution factors.

RL - Reporting Limit Denotes lowest analyte concentration reportable for the sample based on regulatory or project specific limits.

U - Denotes analyte not detected at concentration greater than the Practical Quantitation Limit (PQL) or the Reporting Limit (RL) or the Method Detection Limit (MDL) as applicable.

Z - Chromatographic interference due to polychlorinated biphenyl (PCB) co-elution.

* - Value not within control limits.

SAMPLE CHAIN OF CUSTODY

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical®
www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

16060565P1>
16060565

Page:
1882621

Section A
Required Client Information:

Company:	Barton And Loguidice Inc
Address:	10 Airline Drive Suite 200, Albany NY 12205
Email To:	nshaffe@bartonandloguidice
Phone: 5182181801	Fax: 5182181805
Requested Due Date/TAT:	ASAP

Section B
Required Project Information:

Report To:	Andy Barber
Copy To:	Nathan Shaffer
Purchase Order No.:	
Project Name:	A/CO
Project Number:	1368.001.001

Section C
Invoice Information:

Attention:	Accounts Payable
Company Name:	Barton And Loguidice Inc
Address:	443 Electronics Parkway Liverpool NY 13088
Pace Quote Reference:	
Pace Project Manager:	Cathy Chen
Pace Profile #:	

REGULATORY AGENCY

- NPDES
- GROUND WATER
- DRINKING WATER
- UST
- RCRA
- OTHER ____

Site Location STATE: NY

Section D
Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	* Town of Colonie Landfill parameters	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D103	SL	C	6/27/16	10:50	6/27	11:00												X		AT15893
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

*TCLP-8260-8270 Herbicides, Pesticides metals, mercury Regular PCBs

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Standard Deliverables	[signature]	6/27/16	11:54	[signature] / Pace	6/27/16	11:54	4.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nathan Shaffer

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/27/2016

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

CLIENT NAME: B+L

PROJECT : APC6

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐

TRACKING # _____

CUSTODY SEAL PRESENT: Yes ☐ No ☒ INTACT: Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ☐ ICE USED: Wet ☒ Blue ☐ None ☐

THERMOMETER USED: #164 ☐ IR Gun 03 ☒ #160239773 ☐ #160239773-PRB ☐ COOLER TEMPERATURE (°C): 4.6 (IR)

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒

COMMENTS: Temperature is Acceptable? ☒Yes ☐No

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☒Yes	☐No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☒Yes	☐No		7. ASAP
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No		12.
- Includes date/time/ID/Analysis				
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation:	☐Yes	☐No	☒N/A	Initial when completed: N/A Lot # of added preservative: N/A
- Exceptions that are not checked: TOC, VOA, Subcontract Analyses				
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: N/A				

Sample Receipt form filled in: CLF

Line-Out (Includes Copying Shipping Documents and verifying sample pH): CLF 6/27/16

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): CLF 6/27/16

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): CLF 6/27/16

SAMPLE RECEIPT

SAMPLE RECEIPT REPORT
16060565

Pace Analytical Services, Inc.
2190 Technology Drive
Schenectady, NY 12308
Phone: 518.346.4592
Fax: 518.381.6055

CLIENT: BARTON AND LOGUIDICE
PROJECT: ALCO
LRF: 16060565
REPORT: ANALYTICAL REPORT
EDD: YES
LRF TAT: *72 HOUR*

RECEIVED DATE: 06/27/2016 11:54
SHIPPED VIA: DROP OFF [1,2]
SHIPPING ID:
NUMBER OF COOLERS: 1
CUSTODY SEAL INTACT: NA
COOLER STATUS: CHILLED
TEMPERATURE(S): [5] 4.6 (IR) °C

SAMPLE SEALS INTACT: NA
SAMPLES PRESERVED PER METHOD GUIDANCE: YES
[3] SAMPLES REC'D IN HOLDTIME: YES
DISPOSAL: BY LAB (45 DAYS)
COC DISCREPANCY: NO

COMMENTS:

CLIENT ID (LAB ID)	TAT-DUE Date [4]	DATE-TIME SAMPLED	MATRIX	METHOD	TEST DESCRIPTION	QC REQUEST
D103 (AT15893)	*72 HOUR* 06-30-16	06/27/2016 11:00	Soil	PCBs E8082A	PCBs E8082A - Sub Pace LI	
	72 HOUR 06-30-16	06/27/2016 11:00	Soil	TCLP Herb. E1311/E8151A	TCLP Herbicide E1311/E8151A - Sub Pace	
	72 HOUR 06-30-16	06/27/2016 11:00	Soil	TCLP Mercury E1311/E747(	TCLP Mercury E1311/E7470A - Sub Pace I	
	72 HOUR 06-30-16	06/27/2016 11:00	Soil	TCLP Metals E1311/E6010C	TCLP Metals E1311/E6010C - Sub Pace LI	
	72 HOUR 06-30-16	06/27/2016 11:00	Soil	TCLP Pest E1311/E8081	TCLP Pesticide E1311/E8081 - Sub Pace LI	
	72 HOUR 06-30-16	06/27/2016 11:00	Soil	TCLP SVOCs E1311/E8270I	TCLP SVOCs E1311/E8270D - Sub Pace L	
	72 HOUR 06-30-16	06/27/2016 11:00	Soil	TCLP VOCs E1311/E8260C	TCLP VOCs E1311/E8260C - Sub Pace LI	

[1]The pH preservation check of Oil and Grease (Method 1664) and Total Organic Carbon (Method 5310B) are performed as soon as possible after sample receipt and may not be included in this report.
[2]The pH preservation check of aqueous volatile samples is not performed until after the analysis of the sample to maintain zero headspace and is not included in this report.
[3]Samples received for pH analysis are not marked as a hold time exceedance here. SW-846 methods suggests analysis to be done within 15 minutes of sample collection. Because of transportation time it is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such.
[4]Samples arriving at the laboratory after 4:00 pm are assigned a due date as if they arrived the following business day unless other arrangements have been made.
The due date represents the date the lab report is expected to be completed on or before 5:00 pm (EST) for the date specified.
[5]All samples which require thermal preservation shall be considered acceptable when received greater than 6 degrees Celsius if they are collected on the same day as received and there is evidence that the chilling process has begun, such as arrival on ice.Control limits are between 0-6 Degrees Celsius. Control limits do not apply for metals analysis.
[6]Samples requesting analysis for Orthophosphate (SM 4500-P E-99,-11) require the samples to be filtered in the field within 15 minutes of the sampling event. Samples that are received unfiltered will be noted as not method compliant on the Certificates of Analysis.

Reporting Parameters and Lists

Subcontract Analysis

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 6/27/2016 11:00:00 AM
Received : 6/28/2016 10:05:00 AM AT15893
Collected By CLIENT

Lab No. : 1606Q70-001
Client Sample ID: D103

Sample Information:
Type : Soil

Origin:

Analytical Method: SW8082A : Prep Method: SW3545A Prep Date: 6/28/2016 12:46:54 PM Analyst: JS

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Aroclor 1016	< 37		1	µg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Aroclor 1221	< 75		1	µg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Aroclor 1232	< 37		1	µg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Aroclor 1242	< 37		1	µg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Aroclor 1248	< 37		1	µg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Aroclor 1254	< 37		1	µg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Aroclor 1260	< 37		1	µg/Kg-dry			06/30/2016 11:33 AM	Container-01 of 01
Surr: Decachlorobiphenyl	80.9		1	%Rec	Limit	30-150	06/30/2016 11:33 AM	Container-01 of 01
Surr: Tetrachloro-m-xylene	58.5		1	%Rec	Limit	30-150	06/30/2016 11:33 AM	Container-01 of 01

Analytical Method: D2216 : Analyst: RL

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Percent Moisture	11.2		1	wt%	06/28/2016 3:08 PM	Container-01 of 01

5

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
c = Calibration acceptability criteria exceeded for this analyte.Value estimated
H = Received/analyzed outside of analytical holding time
J = Estimated value - below calibration range
M-, M+ = Matrix Spike recovery below / above control limit
N = Indicates presumptive evidence of compound
P = Duplicate RPD outside of control limit
r = Reporting limit below calibration range. Value estimated.
S = Recovery outside of control limits for this analyte
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Caitlin Panzarella
Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/1/2016

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

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The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 6/27/2016 11:00:00 AM
Received : 6/28/2016 10:05:00 AM
Collected By CLIENT

Lab No. : 1606Q70-002
Client Sample ID: D103
AT15893 (TCLP)

Sample Information:
Type : Soil
Origin:

Analytical Method: SW1311/8270D : Prep Method: SW3510C Prep Date: 6/29/2016 6:14:43 PM Analyst: EAG

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
1,4-Dichlorobenzene	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
2,4,5-Trichlorophenol	< 0.0250		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
2,4,6-Trichlorophenol	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
2,4-Dinitrotoluene	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
2-Methylphenol	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
3-Methylphenol/4-Methylphenol	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Hexachlorobenzene	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Hexachlorobutadiene	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Hexachloroethane	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Nitrobenzene	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Pentachlorophenol	< 0.0250		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Pyridine	< 0.0100		1	mg/L			06/30/2016 8:09 AM	Container-01 of 03
Surr: 1,2-Dichlorobenzene-d4	33.4		1	%Rec	Limit	16-110	06/30/2016 8:09 AM	Container-01 of 03
Surr: 2,4,6-Tribromophenol	70.3		1	%Rec	Limit	10-123	06/30/2016 8:09 AM	Container-01 of 03
Surr: 2-Chlorophenol-d4	35.3		1	%Rec	Limit	33-110	06/30/2016 8:09 AM	Container-01 of 03
Surr: 2-Fluorobiphenyl	41.9	S	1	%Rec	Limit	43-116	06/30/2016 8:09 AM	Container-01 of 03
Surr: 2-Fluorophenol	20.6	S	1	%Rec	Limit	21-110	06/30/2016 8:09 AM	Container-01 of 03
Surr: 4-Terphenyl-d14	65.4		1	%Rec	Limit	33-141	06/30/2016 8:09 AM	Container-01 of 03
Surr: Nitrobenzene-d5	38.4		1	%Rec	Limit	35-114	06/30/2016 8:09 AM	Container-01 of 03
Surr: Phenol-d5	15.1		1	%Rec	Limit	10-110	06/30/2016 8:09 AM	Container-01 of 03

Analytical Method: SW1311/8151A : Prep Method: SW1311/8151 Prep Date: 6/29/2016 9:36:55 AM Analyst: MJM

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
2,4,5-TP (Silvex)	< 0.0025		1	mg/L			07/01/2016 4:40 AM	Container-01 of 03
2,4-D	< 0.0050		1	mg/L			07/01/2016 4:40 AM	Container-01 of 03
Surr: DCAA	65.9		1	%Rec	Limit	36-121	07/01/2016 4:40 AM	Container-01 of 03

Analytical Method: SW1311/7470A : Prep Method: SW7470 Prep Date: 6/29/2016 5:30:19 PM Analyst: AG

Parameter(s)	Results	Qualifier	D.F.	Units	Analyzed:	Container:
Mercury	< 0.200		1	ug/L	06/30/2016 12:16 PM	Container-01 of 03

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
c = Calibration acceptability criteria exceeded for this analyte.Value estimated
H = Received/analyzed outside of analytical holding time
J = Estimated value - below calibration range
M-, M+ = Matrix Spike recovery below / above control limit
N = Indicates presumptive evidence of compound
P = Duplicate RPD outside of control limit
r = Reporting limit below calibration range. Value estimated.
S = Recovery outside of control limits for this analyte
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Caitlin Panzarella
Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/1/2016

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 6/27/2016 11:00:00 AM
Received : 6/28/2016 10:05:00 AM
Collected By CLIENT

Lab No. : 1606Q70-002
Client Sample ID: D103
AT15893 (TCLP)

Sample Information:
Type : Soil
Origin:

Analytical Method: SW1311/6010C : Prep Method: SW3005A Prep Date: 6/29/2016 2:30:00 PM Analyst: CGZ

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Arsenic	< 1.00		1	mg/L			06/30/2016 5:45 AM	Container-01 of 03
Barium	< 10.0		1	mg/L			06/30/2016 5:45 AM	Container-01 of 03
Cadmium	< 0.100		1	mg/L			06/30/2016 5:45 AM	Container-01 of 03
Chromium	< 1.00		1	mg/L			06/30/2016 5:45 AM	Container-01 of 03
Lead	< 1.00		1	mg/L			06/30/2016 5:45 AM	Container-01 of 03
Selenium	< 0.100		1	mg/L			06/30/2016 5:45 AM	Container-01 of 03
Silver	< 1.00		1	mg/L			06/30/2016 5:45 AM	Container-01 of 03

Analytical Method: SW1311/8081B : Prep Method: SW3510C Prep Date: 6/29/2016 6:08:32 PM Analyst: JS

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
Chlordane	< 0.0020		1	mg/L			06/29/2016 10:44 PM	Container-01 of 03
Endrin	< 0.00020		1	mg/L			06/29/2016 10:44 PM	Container-01 of 03
gamma-BHC	< 0.00010		1	mg/L			06/29/2016 10:44 PM	Container-01 of 03
Heptachlor	< 0.00010		1	mg/L			06/29/2016 10:44 PM	Container-01 of 03
Heptachlor epoxide	< 0.00010		1	mg/L			06/29/2016 10:44 PM	Container-01 of 03
Methoxychlor	< 0.0010		1	mg/L			06/29/2016 10:44 PM	Container-01 of 03
Toxaphene	< 0.010		1	mg/L			06/29/2016 10:44 PM	Container-01 of 03
Surr: Decachlorobiphenyl	68.7		1	%Rec	Limit	30-150	06/29/2016 10:44 PM	Container-01 of 03
Surr: Tetrachloro-m-xylene	71.4		1	%Rec	Limit	30-150	06/29/2016 10:44 PM	Container-01 of 03

5

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
c = Calibration acceptability criteria exceeded for this analyte.Value estimated
H = Received/analyzed outside of analytical holding time
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M-, M+ = Matrix Spike recovery below / above control limit
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r = Reporting limit below calibration range. Value estimated.
S = Recovery outside of control limits for this analyte
+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Caitlin Panzarella
Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/1/2016

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

LABORATORY RESULTS

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The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Pace Analytical Services Inc.
2190 Technology Drive
Schenectady, NY 12308
Attn To : William A. Kotas
Collected : 6/27/2016 11:00:00 AM
Received : 6/28/2016 10:05:00 AM
Collected By CLIENT

Lab No. : 1606Q70-002
Client Sample ID: D103
AT15893 (TCLP)

Sample Information:
Type : Soil
Origin:

Analytical Method: SW1311/8260C : Prep Date: 6/28/2016 8:28:08 PM Analyst: MF

Parameter(s)	Results	Qualifier	D.F.	Units			Analyzed:	Container:
1,1-Dichloroethene	< 0.010		1	mg/L			06/30/2016 12:26 PM	Container-01 of 03
1,2-Dichloroethane	< 0.010		1	mg/L			06/30/2016 12:26 PM	Container-01 of 03
1,4-Dichlorobenzene	< 0.010		1	mg/L			06/30/2016 12:26 PM	Container-01 of 03
2-Butanone	< 0.010		1	mg/L			06/30/2016 12:26 PM	Container-01 of 03
Benzene	< 0.010		1	mg/L			06/30/2016 12:26 PM	Container-01 of 03
Carbon tetrachloride	< 0.010		1	mg/L			06/30/2016 12:26 PM	Container-01 of 03
Chlorobenzene	< 0.010		1	mg/L			06/30/2016 12:26 PM	Container-01 of 03
Chloroform	< 0.010		1	mg/L			06/30/2016 12:26 PM	Container-01 of 03
Tetrachloroethene	< 0.010		1	mg/L			06/30/2016 12:26 PM	Container-01 of 03
Trichloroethene	< 0.010		1	mg/L			06/30/2016 12:26 PM	Container-01 of 03
Vinyl chloride	< 0.010		1	mg/L			06/30/2016 12:26 PM	Container-01 of 03
Surr: 1,2-dichloroethane-d4	81.1		1	%Rec	Limit	53-183	06/30/2016 12:26 PM	Container-01 of 03
Surr: 4-Bromofluorobenzene	88.5		1	%Rec	Limit	63-140	06/30/2016 12:26 PM	Container-01 of 03
Surr: Toluene-d8	84.8		1	%Rec	Limit	60-135	06/30/2016 12:26 PM	Container-01 of 03

5

Qualifiers: E = Value above quantitation range, Value estimated.
B = Found in Blank
D.F. = Dilution Factor D = Results for Dilution
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H = Received/analyzed outside of analytical holding time
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M-, M+ = Matrix Spike recovery below / above control limit
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Caitlin Panzarella
Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

Date Reported : 7/1/2016

PACE ANALYTICAL
575 Broad Hollow Road
Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
Website: www.pacelabs.com

QC SUMMARY REPORT

WO#: **1606Q70**

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** **56778**

Sample ID **mb-56778**	SampType: **mblk**	TestCode: **8082_s**	Units: **µg/Kg**	Prep Date: **6/28/2016**	RunNo: **100928**
Client ID: **PBS**	Batch ID: **56778**	TestNo: **SW8082**	**SW3545**	Analysis Date: **6/29/2016**	SeqNo: **2220922**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	< 33	33									
Aroclor 1221	< 67	67									
Aroclor 1232	< 33	33									
Aroclor 1242	< 33	33									
Aroclor 1248	< 33	33									
Aroclor 1254	< 33	33									
Aroclor 1260	< 33	33									
Surr: Tetrachloro-m-xylene	9.0		13.33		67.4	30	150				
Surr: Decachlorobiphenyl	11		13.33		79.8	30	150				

Sample ID **lfb2-56778**	SampType: **lfb**	TestCode: **8082_s**	Units: **µg/Kg**	Prep Date: **6/28/2016**	RunNo: **100928**
Client ID: **ZZZZZZ**	Batch ID: **56778**	TestNo: **SW8082**	**SW3545**	Analysis Date: **6/29/2016**	SeqNo: **2220923**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	120	33	166.7	0	70.8	50	136				
Aroclor 1260	130	33	166.7	0	80.5	45	154				
Surr: Tetrachloro-m-xylene	9.4		13.33		70.7	30	150				
Surr: Decachlorobiphenyl	11		13.33		81.0	30	150				

5

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified		

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QC SUMMARY REPORT

WO#: **1606Q70**

01-Jul-16

Client: Pace Analytical Services Inc.
Project: 16060565 - 1368.001 **BatchID:** **56778**

Sample ID **mb-56778**	SampType: **mblk**	TestCode: **8082_s**	Units: **µg/Kg**	Prep Date: **6/28/2016**	RunNo: **100819**
Client ID: **PBS**	Batch ID: **56778**	TestNo: **SW8082**	**SW3545**	Analysis Date: **6/29/2016**	SeqNo: **2219696**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	< 33	33									
Aroclor 1221	< 67	67									
Aroclor 1232	< 33	33									
Aroclor 1242	< 33	33									
Aroclor 1248	< 33	33									
Aroclor 1254	< 33	33									
Aroclor 1260	< 33	33									
Surr: Tetrachloro-m-xylene	7.3		13.33		54.4	30	150				
Surr: Decachlorobiphenyl	8.7		13.33		65.5	30	150				

Sample ID **LFB2-56778**	SampType: **lfb**	TestCode: **8082_s**	Units: **µg/Kg**	Prep Date: **6/28/2016**	RunNo: **100819**
Client ID: **ZZZZZZ**	Batch ID: **56778**	TestNo: **SW8082**	**SW3545**	Analysis Date: **6/29/2016**	SeqNo: **2219697**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	120	33	166.7	0	69.4	50	136				
Aroclor 1260	120	33	166.7	0	70.7	45	154				
Surr: Tetrachloro-m-xylene	8.3		13.33		62.2	30	150				
Surr: Decachlorobiphenyl	10		13.33		75.4	30	150				

5

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified		

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QC SUMMARY REPORT

WO#: **1606Q70**

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** **56801**

Sample ID **mb-56801**	SampType: **mblk**	TestCode: **1311_h**	Units: **mg/L**	Prep Date: **6/29/2016**	RunNo: **101041**
Client ID: **PBW**	Batch ID: **56801**	TestNo: **SW1311/8151**	**SW1311/8151**	Analysis Date: **7/1/2016**	SeqNo: **2223552**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D	< 0.0050	0.0050									
2,4,5-TP (Silvex)	< 0.0025	0.0025									
Surr: DCAA	0.059		0.1000		58.5	36	121				

Sample ID **lfb-56801**	SampType: **lfb**	TestCode: **1311_h**	Units: **mg/L**	Prep Date: **6/29/2016**	RunNo: **101041**
Client ID: **ZZZZZZ**	Batch ID: **56801**	TestNo: **SW1311/8151**	**SW1311/8151**	Analysis Date: **7/1/2016**	SeqNo: **2223553**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D	0.012	0.0050	0.02000	0	61.9	47	152				
2,4,5-TP (Silvex)	0.0063	0.0025	0.01000	0	63.3	44	157				
Surr: DCAA	0.033		0.1000		32.7	36	121				S

Sample ID **METHCHK-56801**	SampType: **lfb**	TestCode: **1311_h**	Units: **mg/L**	Prep Date: **6/29/2016**	RunNo: **101041**
Client ID: **ZZZZZZ**	Batch ID: **56801**	TestNo: **SW1311/8151**	**SW1311/8151**	Analysis Date: **7/1/2016**	SeqNo: **2223554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-D	0.017	0.0050	0.02000	0	87.4	47	152				
2,4,5-TP (Silvex)	0.0083	0.0025	0.01000	0	82.9	44	157				
Surr: DCAA	0.081		0.1000		80.7	36	121				

5

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified		

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QC SUMMARY REPORT

WO#: **1606Q70**

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** **56815**

Sample ID **MB-56815**	SampType: **MBLK**	TestCode: **1311_M**	Units: **mg/L**	Prep Date: **6/29/2016**	RunNo: **100932**
Client ID: **PBW**	Batch ID: **56815**	TestNo: **SW1311/6010 SW3010A**		Analysis Date: **6/30/2016**	SeqNo: **2220904**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 1.00	1.00									
Barium	< 10.0	10.0									
Cadmium	< 0.100	0.100									
Chromium	< 1.00	1.00									
Lead	< 1.00	1.00									
Selenium	< 0.100	0.100									
Silver	< 1.00	1.00									

Sample ID **LCS-56815**	SampType: **LCS**	TestCode: **1311_M**	Units: **mg/L**	Prep Date: **6/29/2016**	RunNo: **100932**
Client ID: **LCSW**	Batch ID: **56815**	TestNo: **SW1311/6010 SW3010A**		Analysis Date: **6/30/2016**	SeqNo: **2220910**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	< 1.00	1.00	0.5000	0	108	80	120				
Barium	< 10.0	10.0	2.500	0	113	80	120				
Cadmium	2.68	0.100	2.500	0	107	80	120				
Chromium	2.76	1.00	2.500	0	110	80	120				
Lead	< 1.00	1.00	0.5000	0	110	80	120				
Selenium	0.548	0.100	0.5000	0	110	80	120				
Silver	< 1.00	1.00	1.000	0	99.3	80	120				

5

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified		

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QC SUMMARY REPORT

WO#: **1606Q70**

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** **56817**

Sample ID	**MB-56817**	SampType:	**MBLK**	TestCode:	**1311_HG**	Units:	**ug/L**	Prep Date:	**6/29/2016**	RunNo:	**100940**
Client ID:	**PBW**	Batch ID:	**56817**	TestNo:	**SW1311/7470**	**SW7470**		Analysis Date:	**6/30/2016**	SeqNo:	**2220982**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	< 0.200	0.200									

Sample ID	**LCS-56817**	SampType:	**LCS**	TestCode:	**1311_HG**	Units:	**ug/L**	Prep Date:	**6/29/2016**	RunNo:	**100940**
Client ID:	**LCSW**	Batch ID:	**56817**	TestNo:	**SW1311/7470**	**SW7470**		Analysis Date:	**6/30/2016**	SeqNo:	**2220985**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.992	0.200	1.000	0	99.2	80	120				

5

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified		

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QC SUMMARY REPORT

WO#: **1606Q70**

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** **56822**

Sample ID **mb-56822**	SampType: **mblk**	TestCode: **1311_p**	Units: **mg/L**	Prep Date: **6/29/2016**	RunNo: **100948**
Client ID: **PBW**	Batch ID: **56822**	TestNo: **SW1311/8081 SW3510C**		Analysis Date: **6/29/2016**	SeqNo: **2221155**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
gamma-BHC	< 0.00010	0.00010									
Heptachlor	< 0.00010	0.00010									
Heptachlor epoxide	< 0.00010	0.00010									
Endrin	< 0.00020	0.00020									
Methoxychlor	< 0.0010	0.0010									
Toxaphene	< 0.010	0.010									
Chlordane	< 0.0020	0.0020									
Surr: Tetrachloro-m-xylene	0.00030		0.0004000		75.0	30	150				
Surr: Decachlorobiphenyl	0.00037		0.0004000		91.8	30	150				

Sample ID **lfb-56822**	SampType: **lfb**	TestCode: **1311_p**	Units: **mg/L**	Prep Date: **6/29/2016**	RunNo: **100948**
Client ID: **ZZZZZZ**	Batch ID: **56822**	TestNo: **SW1311/8081 SW3510C**		Analysis Date: **6/29/2016**	SeqNo: **2221156**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
gamma-BHC	0.00075	0.00010	0.0008000	0	93.7	27	146				
Heptachlor	0.00076	0.00010	0.0008000	0	94.5	10	148				
Heptachlor epoxide	0.00076	0.00010	0.0008000	0	94.4	28	144				
Endrin	0.00075	0.00020	0.0008000	0	94.2	22	152				
Methoxychlor	< 0.0010	0.0010	0.0008000	0	103	19	146				
Surr: Tetrachloro-m-xylene	0.00031		0.0004000		78.6	30	150				
Surr: Decachlorobiphenyl	0.00037		0.0004000		92.8	30	150				

5

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
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QC SUMMARY REPORT

WO#: **1606Q70**

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** **56822**

Sample ID	**lfb3-56822**	SampType:	**lfb**	TestCode:	**1311_p**	Units:	**mg/L**	Prep Date:	**6/29/2016**	RunNo:	**100948**
Client ID:	**ZZZZZZ**	Batch ID:	**56822**	TestNo:	**SW1311/8081 SW3510C**			Analysis Date:	**6/29/2016**	SeqNo:	**2221157**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toxaphene	0.026	0.010	0.04000	0	64.5	46	168				E
Surr: Tetrachloro-m-xylene	0.00032		0.0004000		80.4	30	150				
Surr: Decachlorobiphenyl	0.00040		0.0004000		101	30	150				

5

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified		

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QC SUMMARY REPORT

WO#: **1606Q70**

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** **56823**

Sample ID **MB-56823**	SampType: **MBLK**	TestCode: **1311_B**	Units: **mg/L**	Prep Date: **6/29/2016**	RunNo: **100912**
Client ID: **PBW**	Batch ID: **56823**	TestNo: **SW1311/8270 SW3520C**		Analysis Date: **6/30/2016**	SeqNo: **2220348**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyridine	< 0.0100	0.0100									
1,4-Dichlorobenzene	< 0.0100	0.0100									
2-Methylphenol	< 0.0100	0.0100									
3-Methylphenol/4-Methylphenol	< 0.0100	0.0100									
Hexachloroethane	< 0.0100	0.0100									
Nitrobenzene	< 0.0100	0.0100									
Hexachlorobutadiene	< 0.0100	0.0100									
2,4,6-Trichlorophenol	< 0.0100	0.0100									
2,4,5-Trichlorophenol	< 0.0250	0.0250									
2,4-Dinitrotoluene	< 0.0100	0.0100									
Hexachlorobenzene	< 0.0100	0.0100									
Pentachlorophenol	< 0.0250	0.0250									
Surr: 2-Fluorophenol	0.0159		0.07500		21.2	21	110				
Surr: Nitrobenzene-d5	0.0255		0.05000		51.1	35	114				
Surr: Phenol-d5	0.0116		0.07500		15.4	10	110				
Surr: 2,4,6-Tribromophenol	0.0441		0.07500		58.7	10	123				
Surr: 2-Fluorobiphenyl	0.0235		0.05000		47.1	43	116				
Surr: 4-Terphenyl-d14	0.0349		0.05000		69.8	33	141				
Surr: 2-Chlorophenol-d4	0.0319		0.07500		42.5	33	110				
Surr: 1,2-Dichlorobenzene-d4	0.0218		0.05000		43.6	16	110				

Sample ID **LFB-56823**	SampType: **LFB**	TestCode: **1311_B**	Units: **mg/L**	Prep Date: **6/29/2016**	RunNo: **100912**
Client ID: **ZZZZZZ**	Batch ID: **56823**	TestNo: **SW1311/8270 SW3520C**		Analysis Date: **6/30/2016**	SeqNo: **2220349**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified		

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QC SUMMARY REPORT

WO#: **1606Q70**

01-Jul-16

Client: Pace Analytical Services Inc.

Project: 16060565 - 1368.001 **BatchID:** **56823**

Sample ID **LFB-56823**	SampType: **LFB**	TestCode: **1311_B**	Units: **mg/L**	Prep Date: **6/29/2016**	RunNo: **100912**
Client ID: **ZZZZZZ**	Batch ID: **56823**	TestNo: **SW1311/8270 SW3520C**		Analysis Date: **6/30/2016**	SeqNo: **2220349**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyridine	0.0170	0.0100	0.05000	0	34.1	12	81.6				
1,4-Dichlorobenzene	0.0262	0.0100	0.05000	0	52.5	38	116				
2-Methylphenol	0.0200	0.0100	0.05000	0	40.0	27	141				
3-Methylphenol/4-Methylphenol	0.0339	0.0100	0.1000	0	33.9	15	141				
Hexachloroethane	0.0234	0.0100	0.05000	0	46.9	39	111				
Nitrobenzene	0.0337	0.0100	0.05000	0	67.4	39	129				
Hexachlorobutadiene	0.0257	0.0100	0.05000	0	51.5	49	115				
2,4,6-Trichlorophenol	0.0385	0.0100	0.05000	0	76.9	37	133				
2,4,5-Trichlorophenol	0.0423	0.0250	0.05000	0	84.5	16	148				
2,4-Dinitrotoluene	0.0364	0.0100	0.05000	0	72.8	46	118				
Hexachlorobenzene	0.0366	0.0100	0.05000	0	73.2	55	127				
Pentachlorophenol	0.0415	0.0250	0.05000	0	82.9	13	123				
Surr: 2-Fluorophenol	0.0141		0.07500		18.8	21	110				S
Surr: Nitrobenzene-d5	0.0297		0.05000		59.4	35	114				
Surr: Phenol-d5	0.00973		0.07500		13.0	10	110				
Surr: 2,4,6-Tribromophenol	0.0537		0.07500		71.6	10	123				
Surr: 2-Fluorobiphenyl	0.0280		0.05000		56.0	43	116				
Surr: 4-Terphenyl-d14	0.0401		0.05000		80.1	33	141				
Surr: 2-Chlorophenol-d4	0.0342		0.07500		45.5	33	110				
Surr: 1,2-Dichlorobenzene-d4	0.0228		0.05000		45.5	16	110				

5

Qualifiers:

*	Value exceeds Maximum Contaminant Level	D	Dilution was required.	E	Value above quantitation range
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O	RSD is greater than RSDlimit	P	Second column confirmation exceeds	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified		

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Sample Receipt Checklist

Client Name **PACE-NY** Date and Time Received: **6/28/2016 10:05:00 AM**

Work Order Number: **1606Q70** RcptNo: **1** Received by **Paige Doherty**

Completed by: Paige Doherty Reviewed by: Caitlin Panzarella

Completed Date: 6/28/2016 10:33:51 AM Reviewed Date: 6/30/2016 2:32:28 PM

Carrier name: FedEx

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☐	No	☑		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Are matrices correctly identified on Chain of custody?	Yes	☑	No	☐		
Is it clear what analyses were requested?	Yes	☑	No	☐		
Custody seals intact on sample bottles?	Yes	☐	No	☐	Not Present	☑
Samples in proper container/bottle?	Yes	☑	No	☐		
Were correct preservatives used and noted?	Yes	☑	No	☐	NA	☐
Preservative added to bottles:						
Sample Condition?	Intact	☑	Broken	☐	Leaking	☐
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
Were container labels complete (ID, Pres, Date)?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
Was an attempt made to cool the samples?	Yes	☑	No	☐	NA	☐
All samples received at a temp. of > 0° C to 6.0° C?	Yes	☑	No	☐	NA	☐
Response when temperature is outside of range:						
Sample Temp. taken and recorded upon receipt?	Yes	☑	No	☐	To	2.4 °
Water - Were bubbles absent in VOC vials?	Yes	☐	No	☐	No Vials	☑
Water - Was there Chlorine Present?	Yes	☐	No	☐	NA	☑
Water - pH acceptable upon receipt?	Yes	☐	No	☐	No Water	☑
Are Samples considered acceptable?	Yes	☑	No	☐		
Custody Seals present?	Yes	☑	No	☐		
Airbill or Sticker?	Air Bil	☑	Sticker	☐	Not Present	☐
Airbill No:	6903 0826 2085					

Case Number: SDG: SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? ☐ Yes ☐ No ☑ NA Person Contacted:

Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

5

Pace Analytical
575 Broad Hollow Road , Melville, NY 11747
TEL: (631) 694-3040 FAX: (631) 420-8436
NYSDOH ID#10478 www.pacelabs.com

WorkOrder :
1606Q70

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

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Pace-LI

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

Pace Analytical Services, Inc.

2190 Technology Drive, Schenectady, NY 12308
Telephone (518) 346-4592 Fax (518) 381-6055
www.pacelabs.com

LRF # 16060565
(LAB USE ONLY)

DISPOSAL REQUIREMENTS: (To be filled in by Client)
- ○ RETURN TO CLIENT
- ● DISPOSAL BY RECEIVING LAB
- ○ ARCHIVAL BY RECEIVING LAB

Additional charges incurred for disposal (if hazardous) or archival.
Call for details.

CLIENT (REPORTS TO BE SENT TO): **PACE**

PROJECT MANAGER: **Nick Nicholas**

Project: **1368.001**

Notes:

PROJECT#/PROJECT NAME: **16060565**

LOCATION (CITY/STATE) ADDRESS: **NY**

REQUIRED TURN AROUND TIME: ~~6/30/2016~~ 7/1/16 CNP 6/30/16

NAME OF COURIER (IF USED):

ELECTRONIC RESULTS: nicholas.nicholas@pacelabs.com; Nicole.Johnson@pacelabs.com

ENTER ANALYSIS AND METHOD NUMBER REQUESTED

PRESERVATIVE KEY: 0 - ICE; 1 - HCL; 2 - HNO3; 3 - H2SO4; 4 - NaOH; 5 - Zn. Acetate; 6 - MeOH; 7 - NaHSO4; 8 - Other (Na2SO3)

SAMPLE ID	DATE	TIME	MATRIX	GRAB/ COMP	LAB SAMPLE ID (LAB USE ONLY)	NUMBER OF CONTAINERS	PCBs E8082A	TCL VOCs E1311/E	TCL SVOCs E1311/E	TCL Herb. E1311/E	TCLP RCRA 8	TCLP Pest E1311/E8081		REMARKS
D103	6/27/16	11:00	S	COMP	AT15893	4	X	X	X	X	X	X		16060670

PRESERVATIVE CODE / BOTTLE TYPE / BOTTLE SIZE:

AMBIENT OR CHILLED: TEMP: 2.4
RECEIVED BROKEN OR LEAKING: Y (N)
COC TAPE: (Y) N
COC DISCREPANCIES: Y (N)
PROPERLY PRESERVED: (Y) N
RECVD W/I HOLDING TIMES: (Y) N
OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DE

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
SIGNATURE:	SIGNATURE:	SIGNATURE:	SIGNATURE:	SIGNATURE:	SIGNATURE:
PRINTED NAME: Nelson L. Farmer	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:	PRINTED NAME:
COMPANY: Pace	COMPANY:	COMPANY:	COMPANY: Pace-LI	COMPANY:	COMPANY:
DATE/TIME: 6/27/16 10:00	DATE/TIME:	DATE/TIME:	DATE/TIME: 6/28/16 10:05	DATE/TIME:	DATE/TIME:

S:\LOGIN\MDLCOCS

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

16060565

Section A Required Client Information:

Company:	Barton And Loguidice
Address:	10 Airline Drive Suite 200, Albany NY 12205
Email To:	nshaff@bartonandloguidice
Phone:	518 218 1801
Fax:	518 218 1805
Requested Due Date/TAT:	ASAP

Section B Required Project Information:

Report To:	Andy Barber
Copy To:	Nathan Shaff
Purchase Order No.:	
Project Name:	A/CO
Project Number:	1368.001.001

Section C Invoice Information:

Attention:	Accounts Payable
Company Name:	Barton and Loguidice Inc
Address:	443 Electronics Parkway Liverpool NY 13088
Pace Quote Reference:	
Pace Project Manager:	Cathy Chen
Pace Profile #:	

Page: 1882621

REGULATORY AGENCY

- NPDES
- GROUND WATER
- DRINKING WATER
- UST
- RCRA
- OTHER

Site Location STATE: NY

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	* Town of Colonie landfill parameters							Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	D103	SL	C	6/27/16	10:50	6/27	11:00												X						AT15893		*TCLP-8260-8270 Herbicides, Pesticides Metals, mercury Regular PCBs
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Standard Deliverables	[signature]	6/27/16	11:54	[signature] / Pace	6/27/16	11:54	4.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nathan Shaff

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/27/2016

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms...

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<16060565P2>

160605652

Sample Condition Upon Receipt

CLIENT NAME: B+L

PROJECT : Alco

COURIER: FedEx ☐ UPS ☐ Client ☒ Pace ☐ Other ☐

TRACKING # _____ CUSTODY SEAL PRESENT: Yes ☐ No ☒ INTACT: Yes ☐ No ☐ N/A ☒

PACKING MATERIAL: Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other ☐ ICE USED: Wet ☒ Blue ☐ None ☐

THERMOMETER USED: #164 ☐ IR Gun 03 ☒ #160239773 ☐ #160239773-PRB ☐ COOLER TEMPERATURE (°C): 4.6 (IR)

BIOLOGICAL TISSUE IS FROZEN: Yes ☐ No ☐ N/A ☒

COMMENTS: Temperature is Acceptable? ☒Yes ☐No

Chain of Custody Present:	☒Yes	☐No		1.
Chain of Custody Filled Out:	☒Yes	☐No		2.
Chain of Custody Relinquished:	☒Yes	☐No		3.
Sampler Name / Signature on COC:	☒Yes	☐No		4.
Samples Arrived within Hold Time:	☒Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No		6.
Rush Turn Around Time Requested:	☒Yes	☐No		7. ASAP
Sufficient Volume:	☒Yes	☐No		8.
Correct Containers Used:	☒Yes	☐No		9.
- Pace Containers Used:	☒Yes	☐No		
Containers Intact:	☒Yes	☐No		10.
Filtered volume received for Dissolved tests:	☐Yes	☐No	☒N/A	11.
Sample Labels match COC: - Includes date/time/ID/Analysis	☒Yes	☐No		12.
All containers needing preservation have been checked:	☐Yes	☐No	☒N/A	13.
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: TOC, VOA, Subcontract Analyses	☐Yes	☐No	☒N/A	Initial when completed: ____ Lot # of added preservative: ____
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☒N/A	14.
Trip Blank Present:	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present:	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot #: _____				

Sample Receipt form filled in: CLF

Line-Out (Includes Copying Shipping Documents and verifying sample pH): CLF 6/27/16

Log In (Includes notifying PM of any discrepacies and documenting in LIMS): CLF 6/27/16

Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook): CLF 6/27/16