

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.

Ian Pfelger

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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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:

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(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

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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 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).

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 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).

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

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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

www.pacelabs.com				p.	
ection A equired Client Information:	Section B Required Project Information	n:	Section C	00H90'	Page: 0 of 1
ompany Brenton and Logicitice	Report To: Nother	LaFfle	Attention: Andy Barber		1852123
ddress: 10 Airly Drive	Copy To: And the	urber	Company Name:	REGULATORY AGEN	
\$.u*te 200			Address: Support		
nail To: nehorte or the tone of willie on	Purchase Order No.:		Pace Quote Reference:		
517 21 81801 Fax:	Project Name: AIC	0	Pace Project Manager: Kelly Miller	Site Location	
quested Due Date/TAT: Standard TAT	Project Number: 136	8.001,001	Pace Profile #:		$\overline{\varphi}$
			Requeste	d Analysis Filtered (Y/N)	
	x Codes		Z		
Drinking W	Vater DW	COLLECTED			
Water Waste Wat	wT ੈੈ Ů ter WW ⊉ @ °	OMPOSITE COMPOSITE C START END/GRAB			
SAMPLE ID Oil	x Codes t=i (x CODE t=i vater DW WT coord SL ease OL (a) WD (b)	OMPOSITE COMPOSITE END/GRAB			Residual Chlorine (Y/N)
(A-Z, 0-9 / ,-) Air	WP U	ATO	CONTAINERS Seerved Beerved 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ine (
Sample IDs MUST BE UNIQUE Tissue Other		HE H	Intaine Breed Bis Tes Sis Tes		Chio
	MATRIX SAMPLE 1	PLE	# OF CONTAI Unpreserved H₂SO4 H103 HCI Na0H Na2S2O3 Methanol Other Cother Allwa, CC		Inal 0
	W S DAT	E TIME DATE TIME O	# OF CONT Unpreserve H ₂ SO ₄ HHO NaOH Na2S ₂ O ₃ Methanol Other I Analysis		
D-01-A	546	1 8/19 9:20	2 x	AR27915	Pace Project No./ Lab I.D.
D-01-B	51 6	8 15 9:25	2 x	ARATAIL	TC1P-\$260-\$27
D-02	566	8/19 9:30	2 x X X	AR27917	herb pest mat
D-03	<u> </u>	2/19 10:05	2 x ×	AR27919	ranular PCB
			┢──┾┼┾┼┾┼┼╢╎ <mark>─┼</mark> ┼┼	╈┼┽┾┼┽┾╸	
				┼┼┽┼┼┼	
ADDITIONAL COMMENTS					
ADDITIONAL COMMENTS		AFFILICTION DATE	TIME ACCEPTED BY / AFFILIATION	DATE TIME	SAMPLE CONDITIONS
	Multi-la	119	12:54 Mat MM	8/19/10:54	8.4 4 N 1
		le l			
Ω	RIGINAL	SAMPLER NAME AND SIGNATUR	<u> </u>		tact of c
C C	· · · · · · · · · · · · · · · · · · ·	PRINT Name of SAMPLER:	Marthan Graffich		Temp in °C Received on Ice (Y/N) Custody custody (Y/N) Samples Intact (Y/N)
		SIGNATURE of SAMPLER:	MARM (MM/DD/YY):	819/2014	Terr Terr
*Import. ce Analytical Services, Inc.	oting Pace's NET 30 day payment tern	is and agreeing to late charges of 1.5% per mont	ugusv Boyidus het paid within 30 days.	- i garg	F-ALL-Q-020rev. 1408189-2009ge 10 of 6

COURIER: FedEx D UPS D CI TRACKING # N/A	lient 🖌	Pace 🗆	Othe DY SEAL PR	r 🗆 E SENT : Yes 🗆	No	PROJE	T NAME:	lco	-A()		140313922
PACKING MATERIAL: Bubble Wrap THERMOMETER USED: #164	Bubble Ba un 03 □ No □	gsv∕	None 🗆 87967 🗆	Other 🗆	,	ICE US TEMPER Temp	ED: Wetra ATURE (6°	″ C):	No □ Blue □ <u>♀, ♀</u> reezing to 6	N/A None ⊑ 5°C	
Chain of Custody Present:	V ∕ Yes	□No		1.	COMMULI	N13.					
Chain of Custody Filled Out:	X Yes			2.					<u> </u>		
Chain of Custody Relinquished:	 Ø∱¥es			3.	<u>-</u>			· <u> </u>	<u> </u>		
Sampler Name / Signature on COC:	√⊈Yes		<u>-</u>	4.		<u> </u>			·		
amples Arrived within Hold Time:	Y Yes		· · · · · · · · · · · · · · · · · · ·	5.	·				,,	<u> </u>	
hort Hold Time Analysis (<72hr):	□Yes			6.		<u></u>			· · · · · · · · · · · · · · · · · · ·		
ush Turn Around Time Requested:	Yes			7.			······			•	
ufficient Volume:	' Yes			8.							
orrect Containers Used:	∭Yes			9.			·	·			
- Pace Containers Used:	1 Sixes										
ontainers Intact:	YAYes			10.	<u> </u>		· · · · · · · · · · · · · · · · · · ·	,	· · · · · · · · · · · · · · · · · · ·		
ltered volume received for Dissolved tests	: 🛛 Yes			11.				<u></u>		<u></u>	
mple Labels match COC: - Includes date/time/ID/Analysis	A Yes			12.				τ		· <u> </u>	
All containers needing preservation have been checked:	□Yes	□No	DIN/A	13.				<u> </u>			
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	□Yes	⊡No	Ş âva	Initial when	A 1		Lot		ded preserv	ative:	
adspace in VOA Vials (>6mm):				completed:	<u>r n</u>			NA			
p Blank Present:	Yes	□ No	₩ĴN/A	14.							
p Blank Custody Seals Present:	□Yes	□No —	X N/A	15.							
	□Yes	ΠNο	(XIN/A								
LOC SCUR FORM 052914 Rev01		Line-Out Log In (In	(Includes Co cludes notif	pying Shippin ying PM of an anning Bottles	y discrepad	cies and c	locumentir	ng in Ll	MS):	AN 8 IJB 8 AN 81	119/19 119/19 19/19

LOC SCUR_FORM_052914_Rev01_01

Colonic

Maximum Concentration of Contaminates





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	Testing Methodology L _i	Lah Level Deg Land	- Loved
Metals			
. Arsenic	TCLP EPA Method 6010		E
2. Barium	TCLP EPA Method 6010	00.6	
3. Cadmium	TCLP EPA Method 6010	00.001	
4. Chromium	TCLP EPA Method 6010	1.00 5 00	
5. Lead	TCLP EPA Method 6010	00.5	
6. Mercury	TCLP EPA Method 7470		
Selenium	TCLP EPA Method 6010	07:0	
8. Silver	TCLP EPA Method 6010	00.1	
Volatiles			
I. Benzene	TCLP EPA Method 8260		G
2. Carbon Tetrachloride	TCLP EPA Method 8260	05.0	
3. Chlorobenzene	TCLP EPA Method 8260	0.50	
4. Chloroform	TCLP EPA Method 8760	100.00	。
5. 1,2 Dichloroethane	TCLP EPA Method 8260	6.00	
6. 1,1 Dichloroethylene	TCLP EPA Method 8260	0.50	
7. Methyl ethyl ketone	TCLP EPA Method 8260	0./0	
8. Tetrachloroethylene	TCLP EPA Method 8260	200.00	。
Trichloroethylene	TCLP EPA Method 8260	0.70	
10. Vinyl Chloride	TCLP EPA Method 8260	0.50	
Semi Volatiles		0.20	
l o-Cresol		(mg/L)	6
7 m_freed	1CLP EPA Method 8270	200.00	
Crand (Total)	ICLP EPA Method 8270	200.00	
3. CIESUI (1 0181)	TCLP EPA Method 8270	200.00	
4. 1,4-Dichlorobenzene	TCLP EPA Method 8270	7 50	
5. 2,4-Dinitrotoluene	TCLP EPA Method 8270		
6. Hexachlorobenzene	TCLP EPA Method 8270		
/. Hexachlorobutadiene	TCLP EPA Method 8270	05.0	
8. Hexachloroethane	TCLP EPA Method 8270	00.0	
9. Nitrobenzene	TCLP EPA Method 8270	00.0	
10. Pentrachlorophenol	TCLP EPA Method 8270		
11. Pyridine	TCLP EPA Method 8270	5 00	
12. 2,4,5-Trichlorophenol	TCLP EPA Method 8270	0.00	
13. 2,4,6-Trichlorophenol	TCLP EPA Method 8270	00.004	
Pesticides & Herbicides		2.00	
1. Chlordane	TCLP EPA Method 8081	(mg/L)	
2. Endrin	TCLP EPA Method 8081	0.03	
3. Heptachlor	TCI D EDA Mathial 0001	0.02	
4. Heptachlor Epoxide		0.008	
5. Lindane (Gamma-BHC)	TCI D EDA Mathad 8081	0.008	
6. Methoxychlor	TCI P FDA Method 0001	0.40	
7. Toxaphene (Chlorocamphene)	TCI D EDA Mathad 9081	10.00	
8. 2,4 - D	TCI D EDA Mathad 0161	0.50	
9. 2,4,5 – TP (Silvex)		10.00	
Polychlorinated Rinhenvle		1.0	
		COA Limit (µg/Kg)	g/Kg)
1. Aroclor 1016	EPA Method 8082		lungua.
2. Aroclor 1221	EPA Method 8082	IUd>	
3. Aroclor 1232	EPA Method 8082		
Aroclor 1242	EPA Method 8082		
5. Aroclor 1248	EPA Method 8082		
6. Aroclor 1254	EPA Method 8082	TOT	
7 Araclar 1260			
	EPA Method 8082		



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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 SHIPPING ID: N. SHAFFER/ BAR-ALB NUMBER OF COOLERS: 1 CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED TEMPERATURE(S): ⁵8.4 °C

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,}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 REQUE
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)	

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.

²The pH preservation check of audicus of the state of t

is not possible for the laboratory to perform the test in that time. Sample Certificates of Analysis reports are noted as such. 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.

⁵All 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

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SAMPLE RECEIPT REPORT 14081392

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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 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

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GC/MS Volatiles



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. F	inal Vol.	Column
Analysis 1:	MS10-216-28	EPA 8260C - TCLP-ZHE SW-846 1	311 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-Dichloro	oethene	75-35-4	ND	10.0	10.0	U	MS10-216-28
1,2-Dichloro	oethane	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 Tetr	achloride	56-23-5	ND	10.0	10.0	U	MS10-216-28
Chlorobenze	ene	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
Tetrachloroe	thene	127-18-4	ND	10.0	10.0	U	MS10-216-28
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-216-28
Vinyl Chlor	de	75-01-4	ND	10.0	10.0	U	MS10-216-28
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(0)	\mathbf{Q}^{1}	File ID
4-Bromoflue	orobenzene	460-00-4	93.7	76.0	-128		MS10-216-28
Dibromoflue	oromethane	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-Dichloro		17060-07-0	106		-120		MS10-216-28
1Qualifier colun	in where '*' denotes	value outside the control limits or 'D' of	lenotes value was diluted out	t.			

ND: Denotes analyte not detected at a concentration greater than the PQL.

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



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 13	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 Facto	or Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-216-29
1,2-Dichloro	ethane	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 Tetra	chloride	56-23-5	ND	10.0	10.0	U	MS10-216-29
Chlorobenzer	ne	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
Tetrachloroet	hene	127-18-4	ND	10.0	10.0	U	MS10-216-29
Trichloroethe	ene	79-01-6	ND	10.0	10.0	U	MS10-216-29
Vinyl Chlorid	le	75-01-4	ND	10.0	10.0	U	MS10-216-29
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	b)	\mathbf{Q}^{1}	File ID
4-Bromofluo	robenzene	460-00-4	93.3	76.0	-128		MS10-216-29
Dibromofluo	romethane	1868-53-7	103	73.6	-132		MS10-216-29
Toluene-d8		2037-26-5	102	84.4	-115		MS10-216-29
1,2-Dichloro		17060-07-0 value outside the control limits or 'D' de	107	79.9	-120		MS10-216-29

ND: Denotes analyte not detected at a concentration greater than the PQL.

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



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 13	11 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 Fact	or Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-216-30
1,2-Dichloro	ethane	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 Tetra	achloride	56-23-5	ND	10.0	10.0	U	MS10-216-30
Chlorobenze	ne	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
Tetrachloroe	thene	127-18-4	ND	10.0	10.0	U	MS10-216-30
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-216-30
Vinyl Chlori	de	75-01-4	ND	10.0	10.0	U	MS10-216-30
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	Ď)	\mathbf{Q}^1	File ID
4-Bromofluo	orobenzene	460-00-4	98.5	76.0	-128		MS10-216-30
Dibromoflue	oromethane	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-Dichloro	ethane	17060-07-0	107	79.9	-120		MS10-216-30

ND: Denotes analyte not detected at a concentration greater than the PQL.

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



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 13	811 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 Facto	or Flags	File ID
1,1-Dichloro	oethene	75-35-4	ND	10.0	10.0	U	MS10-216-31
1,2-Dichloro	oethane	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 Tetr	achloride	56-23-5	ND	10.0	10.0	U	MS10-216-31
Chlorobenze	ene	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
Tetrachloroe	ethene	127-18-4	ND	10.0	10.0	U	MS10-216-31
Trichloroeth	nene	79-01-6	ND	10.0	10.0	U	MS10-216-31
Vinyl Chlor	ide	75-01-4	ND	10.0	10.0	U	MS10-216-31
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	Ď)	\mathbf{Q}^{1}	File ID
4-Bromoflu	orobenzene	460-00-4	96.6	76.0	-128		MS10-216-31
Dibromoflu	oromethane	1868-53-7	102	73.6	-132		MS10-216-31
Toluene-d8		2037-26-5	101	84.4	-115		MS10-216-31
1,2-Dichloro		17060-07-0	104		-120		MS10-216-31
1 Qualifier colun	nn where '*' denotes	value outside the control limits or 'D' de	enotes value was diluted out	t.			

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



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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 M	ethod 131 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 Fact	or Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-377-45
2,4,5-Trichlo	orophenol	95-95-4	ND	50.0	1.00	U	MS09-377-45
2,4,6-Trichlo	orophenol	88-06-2	ND	50.0	1.00	U	MS09-377-45
2,4-Dinitroto	oluene	121-14-2	ND	50.0	1.00	U	MS09-377-45
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-377-45
Hexachlorob	outadiene	87-68-3	ND	50.0	1.00	U	MS09-377-45
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS09-377-45
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-45
Nitrobenzen	~	98-95-3	ND	50.0	1.00	U	MS09-377-45
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS09-377-45
Pentachlorop		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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^{1}	File ID
2,4,6-Tribro	mophenol	118-79-6	112	22.8	-161		MS09-377-45
2-Fluorobiph	nenyl	321-60-8	81.3	26.3			MS09-377-45
2-Fluoropher		367-12-4	46.1	10.0-			MS09-377-45
Terphenyl-d		1718-51-0	105	33.7			MS09-377-45
Nitrobenzen	e-d5	4165-60-0	73.0	12.7			MS09-377-45
Phenol-d6		13127-88-3 value outside the control limits or 'D' o	32.0	10.0-	-87.4		MS09-377-45

ND: Denotes analyte not detected at a concentration greater than the PQL.

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



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 M	ethod 131 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 Facto	or Flags	File ID
1,4-Dichloro	obenzene	106-46-7	ND	50.0	1.00	U	MS09-377-46
2,4,5-Trichl	orophenol	95-95-4	ND	50.0	1.00	U	MS09-377-46
2,4,6-Trichle	orophenol	88-06-2	ND	50.0	1.00	U	MS09-377-46
2,4-Dinitrot	oluene	121-14-2	ND	50.0	1.00	U	MS09-377-46
Hexachlorol	penzene	118-74-1	ND	50.0	1.00	U	MS09-377-46
Hexachlorol	outadiene	87-68-3	ND	50.0	1.00	U	MS09-377-46
Hexachloroe	ethane	67-72-1	ND	50.0	1.00	U	MS09-377-46
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-46
Nitrobenzen	e	98-95-3	ND	50.0	1.00	U	MS09-377-46
o-Methylph	enol	95-48-7	ND	50.0	1.00	U	MS09-377-46
Pentachloro	phenol	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
2,4,6-Tribro	mophenol	118-79-6	108	22.8	-161		MS09-377-46
2-Fluorobip		321-60-8	75.6	26.3			MS09-377-46
2-Fluorophe		367-12-4	41.1		-86.4		MS09-377-46
Terphenyl-d		1718-51-0	109		-154		MS09-377-46
Nitrobenzen	e-d5	4165-60-0	65.5		-139		MS09-377-46
Phenol-d6		13127-88-3 value outside the control limits or 'D' of	30.0		-87.4		MS09-377-46

¹Qualifier 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:	MS09-377-47	SW-846 8270D/TCLP Extraction M	ethod 131 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 Fact	or Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-377-47
2,4,5-Trichlo	orophenol	95-95-4	ND	50.0	1.00	U	MS09-377-47
2,4,6-Trichlo	orophenol	88-06-2	ND	50.0	1.00	U	MS09-377-47
2,4-Dinitroto	oluene	121-14-2	ND	50.0	1.00	U	MS09-377-47
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-377-47
Hexachlorob	utadiene	87-68-3	ND	50.0	1.00	U	MS09-377-47
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS09-377-47
m&p-Methyl	lphenol	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-Methylphe	nol	95-48-7	ND	50.0	1.00	U	MS09-377-47
Pentachlorop		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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
2,4,6-Tribror	nophenol	118-79-6	108	22.8	-161		MS09-377-47
2-Fluorobiph		321-60-8	77.2	26.3			MS09-377-47
2-Fluoropher		367-12-4	43.2	10.0-			MS09-377-47
Terphenyl-d		1718-51-0	104	33.7			MS09-377-47
Nitrobenzene	e-d5	4165-60-0	68.8	12.7			MS09-377-47
Phenol-d6		13127-88-3 value outside the control limits or 'D' o	31.1	10.0-	.87.4		MS09-377-47

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 M	ethod 131 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 Fact	or Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-377-48
2,4,5-Trichlo	orophenol	95-95-4	ND	50.0	1.00	U	MS09-377-48
2,4,6-Trichlo	orophenol	88-06-2	ND	50.0	1.00	U	MS09-377-48
2,4-Dinitroto	oluene	121-14-2	ND	50.0	1.00	U	MS09-377-48
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-377-48
Hexachlorob	outadiene	87-68-3	ND	50.0	1.00	U	MS09-377-48
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS09-377-48
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-48
Nitrobenzen	~	98-95-3	ND	50.0	1.00	U	MS09-377-48
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS09-377-48
Pentachlorop		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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^{1}	File ID
2,4,6-Tribro	mophenol	118-79-6	87.0	22.8	-161		MS09-377-48
2-Fluorobiph	nenyl	321-60-8	52.5	26.3	-121		MS09-377-48
2-Fluoropher		367-12-4	28.5	10.0-			MS09-377-48
Terphenyl-d		1718-51-0	101	33.7			MS09-377-48
Nitrobenzen	e-d5	4165-60-0	46.0	12.7			MS09-377-48
Phenol-d6		13127-88-3 value outside the control limits or 'D' o	20.1	10.0-	-87.4		MS09-377-48

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 - PCB



Job Number: 14081392

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 Fact	tor 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	()	\mathbf{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

¹Qualifier 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.



Job Number: 14081392

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-1174-4	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 Fact	tor 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	()	\mathbf{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

¹Qualifier 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.



Job Number: 14081392

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-1174-5	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 Fact	tor 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	()	\mathbf{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

¹Qualifier 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.



Job Number: 14081392

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-1174-5	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 Fact	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	()	\mathbf{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

¹Qualifier 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 - Pesticides



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/TCLF	Extraction M08/25/2014 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 Fact	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	()	\mathbf{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

¹Qualifier 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.



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 M08/25/2014 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 Fact	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%		\mathbf{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

ND: Denotes analyte not detected at a concentration greater than the PQL.

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



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 I	D Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC19F-20	47-29 SW-846 8081B, Pesticides/TCLF	P Extraction M08/25/2014 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 Fact	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(0)	\mathbf{Q}^{1}	File ID
Tetrachloro-meta-xylen	e 877-09-8	111	60.0	-140		GC19F-2047-29
Decachlorobiphenyl	2051-24-3	89.6	60.0	-140		GC19F-2047-29

¹Qualifier 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.



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 II	D Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC19F-204	7-30 SW-846 8081B, Pesticides/TCLF	P Extraction M08/25/2014 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 Fact	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	6)	\mathbf{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

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 - Herbicides



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/TCLI	P Method 1308/25/2014 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 Fact	tor Flags	File ID
2,4,5-TP,SII	LVEX	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	()	\mathbf{Q}^{1}	File ID
2 4-DB		94-82-6	99.9	60.0	-140		GC16-237-8

¹Qualifier 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.



	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	
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	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-237-9	EPA 1978 pg.115 Herbicides/TCLP	Method 1308/25/2014 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 Fact	tor Flags	File ID
2,4,5-TP,SIL	VEX	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	b)	\mathbf{Q}^{T}	File ID
2 4-DB		94-82-6	101	60.0	-140		GC16-237-9

¹Qualifier 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.



Client: BARTON AND LOGUIDICE	Collection Date: 08/19/2014 09:30
Project: ALCO	Sample Matrix: SOIL(TCLP)
Client Sample ID: D-02	Received Date: 08/19/2014 12:54
Lab Sample ID: 14081392-03 (AR27917)	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 1308/25/2014 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 Fact	or Flags	File ID
2,4,5-TP,SII	LVEX	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	ó)	\mathbf{Q}^{I}	File ID
2 4-DB		94-82-6	96.6	60.0	-140		GC16-237-10

¹Qualifier 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.



Client: BARTON AND LOGUIDICE	Collection Date: 08/19/2014 10:05
Project: ALCO	Sample Matrix: SOIL(TCLP)
Client Sample ID: D-03	Received Date: 08/19/2014 12:54
Lab Sample ID: 14081392-04 (AR27918)	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/TCLF	P Method 1308/25/2014 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 Fact	or Flags	File ID
2,4,5-TP,SI	LVEX	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	()	\mathbf{Q}^{1}	File ID
2 4-DB		94-82-6	94.5	60.0	-140		GC16-237-11

¹Qualifier 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.

Mercury



Project: A Client San	Client: BARTON AND LOGUIDICECollection Date: 08/19/2014 09:20Project: ALCOSample Matrix: SOIL(TCLP)Client Sample ID: D-01-AReceived Date: 08/19/2014 12:54Lab Sample ID: 14081392-01 (AR27915)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 Fact	tor 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.



Project: A Client San	nple ID: D-01-		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 Fact	tor 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.



Project: A Client San	Client: BARTON AND LOGUIDICECollection Date: 08/19/2014 09:30Project: ALCOSample Matrix: SOIL(TCLP)Client Sample ID: D-02Received Date: 08/19/2014 12:54Lab Sample ID: 14081392-03 (AR27917)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 Fact	tor 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.



Project: Al Client Sam	ARTON AND LO LCO nple ID: D-03 le ID: 14081392		Collection Date: 08/19/2014 10:05 Sample Matrix: SOIL(TCLP) Received Date: 08/19/2014 12:54 Percent Solid: N/A				
	Batch ID M	ethod	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	A 7470A	08/25/2014 09:16	CYC	4.00 mL	40.0 mL	NA
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	or 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.

Metals - ICP

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Analytical Sample Results

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 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 Fact	tor 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.



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 Fact	or 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.



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 Fact	or 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.



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 Fact	tor 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)



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

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	5 SW-846 8081B, Pesticides/TCLP I	Extraction M08/25/2014 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 Fact	or 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 Epo	oxide	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

		Sample	Added	MS	MS	1	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	(ug/L)	% Rec.	Q	(%)	
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	

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

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{I} 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

¹Qualifier 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.

Quality Control Samples (Lab)



Quality Control Results Method Blank Job Number: 14081392

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 1	311 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 Fact	or Flags	File ID	
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-216-22	
1,2-Dichloro	ethane	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 Tetra	achloride	56-23-5	ND	10.0	10.0	U	MS10-216-22	
Chlorobenze	ne	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	
Tetrachloroe	thene	127-18-4	ND	10.0	10.0	U	MS10-216-22	
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-216-22	
Vinyl Chlori	de	75-01-4	ND	10.0	10.0	U	MS10-216-22	
				Lin	nits			
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^{1}	File ID	
4-Bromofluo	orobenzene	460-00-4	93.9	76.0	-128		MS10-216-22	
Dibromofluc	oromethane	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-Dichloro		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.



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

Project: ALCOSample Matrix: TCLPClient Sample ID: Lab Control Sample (AR28101L)Received Date: N/ALab Sample ID: LCS-08Percent Solid: N/A
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	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.	1	imits (%)	
1,1-Dichloroethene	75-35-4	40.0	41.1	103	7	0.0-130	
1,2-Dichloroethane	107-06-2	40.0	40.1	100	7	0.0-130	
2-Butanone	78-93-3	40.0	38.4	96.1	7	0.0-130	
Benzene	71-43-2	40.0	41.0	102	7	0.0-130	
Carbon Tetrachloride	56-23-5	40.0	41.2	103	7	0.0-130	
Chlorobenzene	108-90-7	40.0	40.5	101	7	0.0-130	
Chloroform	67-66-3	40.0	39.9	99.7	7	0.0-130	
Tetrachloroethene	127-18-4	40.0	38.9	97.1	7	0.0-130	
Trichloroethene	79-01-6	40.0	41.2	103	7	0.0-130	
Vinyl Chloride	75-01-4	40.0	37.3	93.3	7	0.0-130	

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.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{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

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14081392

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

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

Collection Date: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-377-38	SW-846 8270D/TCLP Extraction M		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 Fact	or Flags	File ID
1,4-Dichlor	obenzene	106-46-7	ND	50.0	1.00	U	MS09-377-38
2,4,5-Trichl	orophenol	95-95-4	ND	50.0	1.00	U	MS09-377-38
2,4,6-Trichl	orophenol	88-06-2	ND	50.0	1.00	U	MS09-377-38
2,4-Dinitrot	oluene	121-14-2	ND	50.0	1.00	U	MS09-377-38
Hexachloro	benzene	118-74-1	ND	50.0	1.00	U	MS09-377-38
Hexachloro	butadiene	87-68-3	ND	50.0	1.00	U	MS09-377-38
Hexachloro	ethane	67-72-1	ND	50.0	1.00	U	MS09-377-38
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-377-38
Nitrobenzer	ne	98-95-3	ND	50.0	1.00	U	MS09-377-38
o-Methylph	enol	95-48-7	ND	50.0	1.00	U	MS09-377-38
Pentachloro	phenol	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^{1}	File ID
2,4,6-Tribro	mophenol	118-79-6	88.4	22.8	-161		MS09-377-38
2-Fluorobip		321-60-8	77.6	26.3			MS09-377-38
2-Fluorophe		367-12-4	45.9		-86.4		MS09-377-38
Terphenyl-o		1718-51-0	98.6	33.7			MS09-377-38
Nitrobenzer	ne-d5	4165-60-0	72.2	12.7			MS09-377-38
Phenol-d6		13127-88-3	31.6		-87.4		MS09-377-38

¹Qualifier 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

Client: BARTON AND LOGUIDICECollection Date: N/AProject: ALCOSample Matrix: TCLPClient Sample ID: Lab Control Sample (AR27121L)Received Date: N/ALab Sample ID: LCS-05Percent 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 13	31 108/26/2014 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.	\mathbf{O}^{1}	Limits (%)	
• •		(8)	,		Q	< ,	
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	

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

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{T} 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

¹Qualifier 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 Method Blank Job Number: 14081392

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 Fact	or 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 Amo	ount > RL	1336-36-3	ND		1.00	U	GC10F-1174-46
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	b)	\mathbf{Q}^{1}	File ID
Tetrachloro-me	ta-xylene	877-09-8	88.5	60.0	-140		GC10F-1174-46
Decachlorobiph		2051-24-3	101	60.0	-140		GC10F-1174-46

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 Results Lab Control Sample (LCS) Job Number: 14081392

lethod	Dat	e	Amalant				
-846 8082A (PCB) A 3545A	08/21/2014 08/20/2014	22:54	Analyst JKA MBG	N	/t./Vol. A 3 g	Final Vol. NA 25.0 mL	Column Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm NA
CAS No.	Added (ug/g)	(ug/	/g) %	Rec.	\mathbf{Q}^1 ((%)	
	53469-21-9	CAS No. (ug/g) 53469-21-9 1.21	CAS No. (ug/g) (ug 53469-21-9 1.21 1.08	CAS No.(ug/g)(ug/g)%53469-21-91.211.088outside the control limits. Note: RPD criteria does not apply if either the sar	CAS No. (ug/g) (ug/g) % Rec. 53469-21-9 1.21 1.08 89.3	CAS No.(ug/g)(ug/g)% Rec.Q153469-21-91.211.0889.370outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample	CAS No.(ug/g)(ug/g)% Rec.Q1(%)53469-21-91.211.0889.370.0-130outside the control limits. Note: RPD criteria does not apply if either the sample and duplicate sample are not detect

Surrogate	CAS No.	% Recovery	(%)	\mathbf{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

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14081392

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

	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
C19F-2047-24	SW-846 8081B, Pesticides/TCLP E	xtraction M08/25/2014 18:59	MCA	NA	NA	Phenomenex, Zebron ZB-1, 30 m, 0.25 mm ID, 0.25 µm
8066	EPA 3535A	08/21/2014 15:20	KEN	200 mL	10.0 mL	NA
	CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
	57-74-9	ND	2.50	1.00	U	GC19F-2047-24
	72-20-8	ND	0.0500	1.00	U	GC19F-2047-24
	58-89-9	ND	0.0500	1.00	U	GC19F-2047-24
	76-44-8	ND	0.0500	1.00	U	GC19F-2047-24
tide	1024-57-3	ND	0.0500	1.00	U	GC19F-2047-24
	72-43-5	ND	0.0500	1.00	U	GC19F-2047-24
	8001-35-2	ND	5.00	1.00	U	GC19F-2047-24
			Lin	nits		
	CAS No.	% Recovery	(%	b)	\mathbf{Q}^{1}	File ID
a-xylene	877-09-8	97.3	60.0	-140		GC19F-2047-24
enyl	2051-24-3	79.5	60.0	-140		GC19F-2047-24
a	ide -xylene nyl	CAS No. 57-74-9 72-20-8 58-89-9 76-44-8 1024-57-3 72-43-5 8001-35-2 CAS No. xylene 877-09-8 nyl 2051-24-3	CAS No. Result (ug/L) 57-74-9 ND 72-20-8 ND 58-89-9 ND 76-44-8 ND 1024-57-3 ND 72-43-5 ND 8001-35-2 ND CAS No. % Recovery -xylene 877-09-8 nyl 2051-24-3	CAS No. Result (ug/L) PQL 57-74-9 ND 2.50 72-20-8 ND 0.0500 58-89-9 ND 0.0500 76-44-8 ND 0.0500 1024-57-3 ND 0.0500 72-43-5 ND 0.0500 8001-35-2 ND 5.00 Lin CAS No. % Recovery Lin xylene 877-09-8 97.3 60.0	CAS No. Result (ug/L) PQL Dilution Fact 57-74-9 ND 2.50 1.00 72-20-8 ND 0.0500 1.00 58-89-9 ND 0.0500 1.00 76-44-8 ND 0.0500 1.00 72-43-5 ND 0.0500 1.00 72-43-5 ND 0.0500 1.00 8001-35-2 ND 5.00 1.00 Limits CAS No. % Recovery (%) xylene 877-09-8 97.3 60.0-140 nyl 2051-24-3 79.5 60.0-140	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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 Results Lab Control Sample (LCS) Job Number: 14081392

Client: BARTON AND LOGUIDICECollection Date: N/AProject: ALCOSample Matrix: TCLPClient Sample ID: Lab Control Sample (AR27915L)Received Date: N/ALab Sample ID: LCS-81Percent 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	M08/25/2014 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

		Added	LCS (ug/L)	LCS	1	Limits	
Analyte Spiked	CAS No.	(ug/L)		% Rec.	Q	(%)	
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	

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

			Limits			
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{T}	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	

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¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14081392

Client: BARTON AND LOGUIDICECollection Date: N/AProject: ALCOSample Matrix: TCLPClient Sample ID: Method Blank (AR27915B)Received Date: N/ALab Sample ID: HBLK-72Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-237-6	EPA 1978 pg.115 Herbicides/TCL	P Method 1308/25/2014 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 Fact	or Flags	File ID
2,4,5-TP,SII	LVEX	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	b)	\mathbf{Q}^{I}	File ID
2 4-DB		94-82-6	91.8	60.0	-140		GC16-237-6

¹Qualifier 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.



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

Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Lab Control Sample (AR27915L) Lab Sample ID: LCS-72				Sample Receive	on Date: N/A Matrix: TCLP d Date: N/A 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 Metho		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 Sniked CAS No.		Added LC		1	mits		

Analyte Spikeu	CAS NO.	(ug/L)	(ug/L)	70 Kec.	Q (70)		
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		
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							

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 (%)	\mathbf{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.



Quality Control Results Method Blank Job Number: 14081392

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 Fact	tor 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.



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

Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Lab Control Sample (AR27121L) Lab Sample ID: LCS-12)	S: R	ollection E ample Mat eceived Da ercent Soli	trix: T(CLP		
Analysis 1: Prep 1:	Batch ID MER1-1660-17 4903	Method SW-846 7470/TCLP 1311 EPA 7470A	Date 08/26/2014 14 08/25/2014 09	4:23 C	YC	it Wt./V NA 4.00 mL	ol. Final Vol. NA 40.0 mL	Column NA NA
Analyte Sp Mercury	piked	CAS No. 7439-97-6	() /	LCS (mg/L)	LCS % Rec.	\mathbf{Q}^1	Limits (%)	

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14081392

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 Fact	tor 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.



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

Client: BARTON AND LOGUIDICE	Collection Date: N/A
Project: ALCO	Sample Matrix: TCLP
Client Sample ID: Lab Control Sample (AR27121L)	Received Date: N/A
Lab Sample ID: LCS-10	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

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	% Rec.	\mathbf{Q}^{T}	(%)	
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	

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.



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

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.

Jan Pfelger

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

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 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).

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 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).

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

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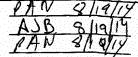
<14081747P1> IN-OF-CUSTODY / Analytical Request Document

www.pacelabs.com	•••			1408174	71													2	a_					
Section A Required Client Information:	Section Require		et Info	mation					Sectio								ÐÔĈ	jight	Pag	le;	1	of	1	
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Requested Due Date/TAJ: Standard TAT	Project N	umber	17	368	<u>001.</u>	001			Pace Prof	ile #:		2					STATE	5, ,	NY	<u>/</u>				
		1	T I						C T						Reques	ted Analy	sis Filt	ered (Y/N)					
Section D Matrix (Required Client Information MATRIX /		o left)	(dWb)		COLL	ECTED				P	Preser	/atives		INIX										
Drinking Wat Water	WT	vatid codes to left)	C=COMP)		0.177			NO		Π					DE									
Waste Water Product	WW P SL		RAB	COMPO STAR		COMPC END/G		COLLECTION							A Par					Ĩ				
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(A-Z, 0-9 / ,-) Air Sample IDs MUST BE UNIQUE Tissue	AR TS OT	CODE	TYPE					MP A	raini	3				s Test	priz Priz					hlori				
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D-01-A		54	6	j		DATE 219	TIME 9:20	Ť	2 x	井			20	-	XAD3	2038 A	0 2-	19	15		Pac	e Projec	t No./ Lab	1.D.
D-01-B		51	6			85	9:25		2 ×	t					X	A	RA	34	1L		TC	1-8	261-8	27
D-02		SL					9:30		2 X						X		Ra		17		her	10.0	est u	Je
D-03		S.	6		<u> </u>	\$ 19	10:05		2 x	Ц	44				\times		(Ra	m 9	18		rai	shit	PCB	
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				L		SIGNATUR			1	A	Í	\mathbb{P}^{4}	\leq		DATE Signe (MM/DD/YY)	8	91	201	4	Ter	Rec	ŏ	0	
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Pace Analytical Services, Inc.

Pace Anal			Sa	mple Conditior	n Upon Recei	pt	<u><14081392P2</u>
1					CLIENT NAME		140513922
•					PROJECT :	ALCO	
TRACKING # <u>N/A</u> PACKING MATERIAL: Bubble Wrap D THERMOMETER USED: #164 /4 IR Gu	Bubble Bags n 03 🗆	¥ #122087		SENT: Yes 🗆 No Other 🗆	INTACT: ICE USED: Wet R TEMPERATURE (🛫 🛛 Blue 🗆	N/A★ None □
BIOLOGICAL TISSUE IS FROZEN: Yes 🗆	No 🗆	N/A g _		COMM			
Chain of Custody Present:	√ Z]Yes	□No		1.			
Chain of Custody Filled Out:	XYes	□No		2.			
Chain of Custody Relinquished:	Érres			3.			
Sampler Name / Signature on COC:	Yes	□ No		4.			
Samples Arrived within Hold Time:	Yes	□ No		5.			
Short Hold Time Analysis (<72hr):	□Yes	XNO		6.			
Rush Turn Around Time Requested:	□Yes	1X No		7.			
Sufficient Volume:	Yes			8.			
Correct Containers Used:	X Yes			9			
- Pace Containers Used:	T Xes						
Containers Intact:	¥ Yes	□ No		10.			
Filtered volume received for Dissolved tests:	□Yes	□ No	- SENIA	11.			
Sample Labels match COC: - Includes date/time/ID/Analysis	r∰ves	⊡n₀		12.			
All containers needing preservation have been checked:	□Yes	⊡No	D ² N/A	13.			
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	□Yes	⊡no	ŞANA	Initial when completed: <u>P</u> A		Lot # of added preser	vative:
Headspace in VOA Vials (>6mm):	□Yes	No		14.			
Trip Blank Present:	Yes	□No	XQN/A	15.			
Trip Blank Custody Seals Present: Pace Trip Blank Lot #:	Yes	□No)SIN/A	opying Shipping Docu			PAN 2/19/14

Log In (Includes Copying Shipping Documents and Verrying sample pri). Log In (Includes notifying PM of any discrepacies and documenting in LIMS): Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):



Maximum Concentratio	n of Contaminates	
<u>Contaminant</u>	Regulatory Limit (mg/L)	
Arsenic	5.00	
Barium	100.00	140913923
Benzene	0.50 -	
Cadmium	1.00 -	13923
Carbon Tetrachloride	0.50	- P
Chlordane	0.03 -	~
Chlorobenzene	100.00 ~	
Chloroform	6.00 —	
Chromium	5.00 -	
o-Cresol	200.00 -	
m-Cresol	200.00 —	
p-Cresol	200.00 -> 1	AMON
Cresol	200.00 -	PUTERLAX
2,4 - D	10.00 -	- Manual
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 -	081747P3>
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	

September 02, 2014	

		Lab Level	Reg. Level
Constituent	Testing Methodology	Lau Deter	(mg/L)
1etals	1/010	in the second	5.00
Arsenic	TCLP EPA Method 6010		100.00
Barium	TCLP EPA Method 6010		1.00
Cadmium	TCLP EPA Method 6010		5.00
. Chromium	TCLP EPA Method 6010		5.00
5. Lead	TCLP EPA Method 6010		0.20
6. Mercury	TCLP EPA Method 7470		1.00
7. Selenium	TCLP EPA Method 6010		5.00
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			(ma/T)
1. o-Cresol	TCLP EPA Method 8270		<u>(mg/L)</u> 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		0.13
8. Hexachloroethane	TCLP EPA Method 8270		and the second
9. Nitrobenzene	TCLP EPA Method 8270	-	3.00
10. Pentrachlorophenol	TCLP EPA Method 8270		2.00
11. Pyridine	TCLP EPA Method 8270		100.00
12. 2,4,5-Trichlorophenol	TCLP EPA Method 8270		5.00
13. 2,4,6-Trichlorophenol	TCLP EPA Method 8270		400.00
Pesticides & Herbicides			2.00
1. Chlordane	TCLP EPA Method 8081	+	<u>(mg/L)</u>
2. Endrin	TCLP EPA Method 8081		0.03
3. Heptachlor	TCLP EPA Method 8081	-	0.02
4. Heptachlor Epoxide	TCLP EPA Method 8081	+	0.008
5. Lindane (Gamma-BHC)	TCLP EPA Method 8081	-	0.008
6. Methoxychlor	TCLP EPA Method 8081		0.40
7. Toxaphene (Chlorocamphene)	TCLP EPA Method 8081		10.00
8. 2,4 - D	TCLP EPA Method 8151		0.50
9. 2,4,5 – TP (Silvex)	TCLP EPA Method 8151		10.00
Polychlorinated Biphenyls			1.0
1. Aroclor 1016	EDA Mada 10000		COA Limit (µg/Kg) (based on dry weight
2. Aroclor 1221	EPA Method 8082		<pql< td=""></pql<>
3. Aroclor 1232	EPA Method 8082		<pql< td=""></pql<>
4. Aroclor 1242	EPA Method 8082		<pql< td=""></pql<>
5. Aroclor 1248	EPA Method 8082		<pql< td=""></pql<>
5. Aroclor 1254	EPA Method 8082		<pql< td=""></pql<>
Arocior 1260	EPA Method 8082		<pql< td=""></pql<>
	EPA Method 8082		<pql< td=""></pql<>

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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			8/19/2014 12:54	SAMPLE SI ESERVED PER METHO	EALS INTACT: NA
PROJECT: ALCO LRF: 14081747 REPORT: ANALYTICAL REPORT			SHAFFER-BAR-ALB	³ SAMPLES REC'D IN	
EDD: YES LRF TAT: *1 DAY*		CUSTODY SEAL I COOLER STATUS TEMPERATURE(S	: CHILLED	COC D	ISCREPANCY: NO
COMMENTS:			,,		
	4 DAT	E-TIME		TEST	QC
CLIENT ID (LAB ID) TA	T-DUE Date SAN	APLED MATRIX	METHOD	DESCRIPTION	REOUE

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

¹The 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. ²The 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. ³Samples 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. 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.

⁵All 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

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2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055

GC - PCB



Analytical Sample Results

Job Number: 14081747

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-1185-4	7 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 Fact	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(0)	\mathbf{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

 Decachlorobiphenyl
 2051-24-3
 83.2

 ¹Qualifier 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.

Quality Control Samples (Lab)



Quality Control Results Method Blank Job Number: 14081747

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-1185-4	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 Facto	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	ó)	\mathbf{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

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 Results Lab Control Sample (LCS) Job Number: 14081747

Project: Al Client San	ARTON AND LCO 1ple ID: Lab (1e ID: LCS-	Collection Date: N/A Sample Matrix: SOIL Received Date: N/A Percent Solid: N/A							
Analysis 1: Prep 1:	Batch ID GC10F-1185-46 28198	Method 5 SW-846 8082A (PCB) EPA 3545A	Dat 09/01/2014 08/31/2014	4 03:36	Analys AMB KFM	t Ini	it Wt./V NA 10.2 g	ol. Final Vol. NA 25.0 mL	Column Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm NA
Analyte Sp	iked	CAS No.	Added (ug/g)	LC (ug/		LCS 5 Rec.	\mathbf{Q}^{1}	Limits (%)	
Aroclor 1242 ¹ Qualifier colum	n where '*' denotes	53469-21-9 value outside the control limits. Note: RPD	1.22 criteria does no	1.00 t apply it	f either the s	82.2 ample ar	nd duplicate	70.0-130 e sample are not detec	ted.

Surrogate	CAS No.	% Recovery	(%)	\mathbf{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 11.1		

¹Qualifier 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 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)

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.

Jan Pfelger

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

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.

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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 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).

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 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).

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

September 30, 2014



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.



Section A Required Client Information:	Section					Sectio																						Page	e: 1	of	· · · · · · · · · · · · · · · ·	1
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Chain of Custody Present:	XYes		······································	1.	COMMENT			
Chain of Custody Filled Out:	Žives			2.				
Chain of Custody Relinquished:	ZN es			3.				
Sampler Name / Signature on COC:	XYes			4.				
Samples Arrived within Hold Time:	Aves			5.				
Short Hold Time Analysis (<72hr):	□Yes			6.		· · · · · · · · · · · · · · · · · · ·		
Rush Turn Around Time Requested:		NO NO		7.		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
Sufficient Volume:	XYes			8.				
Correct Containers Used:	Z Yes			9.	·····			
- Pace Containers Used:	XYes					and the station of the state of		
Containers Intact:	XYes			10.				
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Sample Labels match COC:	Yes	□No		12.				
- Includes date/time/ID/Analysis	· •							
All containers needing preservation have been checked:	□Yes	□No	XN/A	13.		<u> </u>		
All containers needing preservation are in compliance with EPA recommendation:	□Yes	□No	Ø N/A	Initial wher	·	Lot	# of added preservat	ive:
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Headspace in VOA Vials (>6mm):	□Yes	□No	XXN/A	14.				
Frip Blank Present:	□Yes			15.		• • · · · · · · · · · · · · · · · · · ·	······································	
Frip Blank Custody Seals Present: Pace Trip Blank Lot #:	□Yes		XIN/A					
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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 SHIPPING ID: N. SHAFFER- B&L NUMBER OF COOLERS: 1 CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED **TEMPERATURE(S):** ⁵5.9, 4.5 °C

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,}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)	

¹The 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.

²The pH preservation check of audious (include root) is performed until after the analysis of the sample to committain are not included in this report. ³Samples 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. 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.

⁵All 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)	EPA 8081B - Pesticide Analysis (TCLP) - (ug/L)	EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)
2,4,5-TP,SILVEX	Chlordane	1,1-Dichloroethene
2,4-D	Endrin	1,2-Dichloroethane
	gamma-BHC	2-Butanone
EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)	Heptachlor	Benzene
Arsenic	Heptachlor Epoxide	Carbon Tetrachloride
Barium	Methoxychlor	Chlorobenzene
Cadmium	Toxaphene	Chloroform
Chromium		Tetrachloroethene
Lead	EPA 8082A - PCB Analysis - (ug/g)	Trichloroethene
Selenium	Aroclor 1016	Vinyl Chloride
Silver	Aroclor 1221	
	Aroclor 1232	
EPA 7470A - Mercury Analysis (TCLP) - (mg/L)	Aroclor 1242	
Mercury	Aroclor 1248	
	Aroclor 1254	
	Aroclor 1260	
	Total PCB Amount > RL	

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SAMPLE RECEIPT REPORT 14090613

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4

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

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2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055

GC/MS Volatiles



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 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. F	inal Vol.	Column
Analysis 1:	MS10-250-9	EPA 8260C - TCLP-ZHE SW-846 1	311 09/25/2014 10:54	ТЈН	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-Dichloro	oethene	75-35-4	ND	10.0	10.0	U	MS10-250-9
1,2-Dichloro	oethane	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 Tetr	achloride	56-23-5	ND	10.0	10.0	U	MS10-250-9
Chlorobenze	ene	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
Tetrachloroe	ethene	127-18-4	ND	10.0	10.0	U	MS10-250-9
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-250-9
Vinyl Chlor	ide	75-01-4	ND	10.0	10.0	U	MS10-250-9
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	Ď)	\mathbf{Q}^{1}	File ID
4-Bromoflue	orobenzene	460-00-4	91.3	76.0	-128		MS10-250-9
Dibromoflue	oromethane	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-Dichloro	oethane	17060-07-0	101	79.9	-120		MS10-250-9
Qualifier colun	nn where '*' denotes	value outside the control limits or 'D' d	enotes 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.



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-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 13	11 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 Fact	or Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-250-10
1,2-Dichloro	ethane	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 Tetra	achloride	56-23-5	ND	10.0	10.0	U	MS10-250-10
Chlorobenze	ene	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
Tetrachloroe	thene	127-18-4	ND	10.0	10.0	U	MS10-250-10
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-250-10
Vinyl Chlori	de	75-01-4	ND	10.0	10.0	U	MS10-250-10
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	b)	\mathbf{Q}^{1}	File ID
4-Bromoflue	orobenzene	460-00-4	92.9	76.0	-128		MS10-250-10
Dibromoflue	promethane	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-Dichloro	oethane	17060-07-0	102	79.9	-120		MS10-250-10

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



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 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 M	ethod 131109/29/2014 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 Fact	or Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-406-10
2,4,5-Trichlo	orophenol	95-95-4	ND	50.0	1.00	U	MS09-406-10
2,4,6-Trichlo	orophenol	88-06-2	ND	50.0	1.00	U	MS09-406-10
2,4-Dinitroto	oluene	121-14-2	ND	50.0	1.00	U	MS09-406-10
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-406-10
Hexachlorob	outadiene	87-68-3	ND	50.0	1.00	U	MS09-406-10
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS09-406-10
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-406-10
Nitrobenzen	-	98-95-3	ND	50.0	1.00	U	MS09-406-10
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS09-406-10
Pentachlorop		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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
2,4,6-Tribro	mophenol	118-79-6	85.6	22.8	-161		MS09-406-10
2-Fluorobiph		321-60-8	61.4	26.3			MS09-406-10
2-Fluoropher		367-12-4	39.9	10.0-			MS09-406-10
Terphenyl-d		1718-51-0	94.6	33.7			MS09-406-10
Nitrobenzen	e-d5	4165-60-0	66.5	12.7			MS09-406-10
Phenol-d6		13127-88-3 value outside the control limits or 'D' o	30.2		-87.4		MS09-406-10

ND: Denotes analyte not detected at a concentration greater than the PQL.

PQL (Practical Quantitation Limit). Denotes lowest analyte concentration reportable for the 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-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 M	ethod 131109/29/2014 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	or Flags	File ID
1,4-Dichloro	obenzene	106-46-7	ND	50.0	1.00	U	MS09-406-11
2,4,5-Trichl	orophenol	95-95-4	ND	50.0	1.00	U	MS09-406-11
2,4,6-Trichl	orophenol	88-06-2	ND	50.0	1.00	U	MS09-406-11
2,4-Dinitrot	oluene	121-14-2	ND	50.0	1.00	U	MS09-406-11
Hexachlorol	benzene	118-74-1	ND	50.0	1.00	U	MS09-406-11
Hexachlorol	outadiene	87-68-3	ND	50.0	1.00	U	MS09-406-11
Hexachloroe	ethane	67-72-1	ND	50.0	1.00	U	MS09-406-11
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-406-11
Nitrobenzen	e	98-95-3	ND	50.0	1.00	U	MS09-406-11
o-Methylpho	enol	95-48-7	ND	50.0	1.00	U	MS09-406-11
Pentachloro	phenol	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	()	\mathbf{Q}^1	File ID
2,4,6-Tribro	mophenol	118-79-6	87.1	22.8	-161		MS09-406-11
2-Fluorobip	henyl	321-60-8	67.2	26.3			MS09-406-11
2-Fluorophe		367-12-4	46.4		-86.4		MS09-406-11
Terphenyl-d		1718-51-0	98.5		-154		MS09-406-11
Nitrobenzen	le-d5	4165-60-0	70.5		-139		MS09-406-11
Phenol-d6		13127-88-3 value outside the control limits or 'D' of	32.8		-87.4		MS09-406-11

¹Qualifier 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 - PCB



Analytical Sample Results

Job Number: 14090613

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 I	D Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC20F-20	16-8 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 Fac	tor 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 > R	L 1336-36-3	ND		1.00	U	GC20F-2016-8
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	6)	\mathbf{Q}^1	File ID
Tetrachloro-meta-xylen	e 877-09-8	108	60.0	0-140		GC20F-2016-8
Decachlorobiphenvl	2051-24-3	104	60.0)-140		GC20F-2016-8

¹Qualifier 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.



Analytical Sample Results

Job Number: 14090613

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 I	ID Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC20F-20	016-9 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 08:4	44 MH	10.2 g	25.0 mL	NA
Analyte	CAS No.	Result (ug/g)	PQL	Dilution Fac	tor 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 $> R$	RL 1336-36-3	ND		1.00	U	GC20F-2016-9
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	6)	\mathbf{Q}^{1}	File ID
Tetrachloro-meta-xylen	ne 877-09-8	92.1	60.0	-140		GC20F-2016-9
Decachlorobiphenyl	2051-24-3	97.8	60.0	-140		GC20F-2016-9

¹Qualifier 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 - Pesticides



Job Number: 14090613

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-	1 SW-846 8081B, Pesticides/TCLP	Extraction M09/27/2014 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 Fact	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	6)	\mathbf{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

ND: Denotes analyte not detected at a concentration greater than the PQL.

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



Job Number: 14090613

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-	2 SW-846 8081B, Pesticides/TCLP	Extraction M09/27/2014 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 Facto	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	()	\mathbf{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

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 - Herbicides



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/TCL	P Method 1309/29/2014 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 Fact	tor Flags	File ID
2,4,5-TP,SII	LVEX	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	()	\mathbf{Q}^1	File ID
2 4-DB		94-82-6	82.5	60.0	-140		GC16-245-7

¹Qualifier 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.



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/TCL	P Method 1309/29/2014 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 Fact	or Flags	File ID
2,4,5-TP,SII	. VEX	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	b)	\mathbf{Q}^{1}	File ID
2 4-DB		94-82-6	102	60.0	-140		GC16-245-9

¹Qualifier 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.

Mercury



Job Number: 14090613

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 Fact	tor 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.



Job Number: 14090613

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 Fac	tor 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.

Metals - ICP



Job Number: 14090613

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 Fact	or 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.



Job Number: 14090613

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 Fact	tor 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)



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	0 SW-846 8081B, Pesticides/TCLP	Extraction M09/27/2014 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 Fact	or 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 Ep	ooxide	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

Analyse Spilled	CASNo	Sample	Added	MS	MS % Dee	\mathbf{O}^{1}	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	(ug/L)	% Rec.	Q	(%)	
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	

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

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{I} 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

¹Qualifier 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.



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 1309/29/2014 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 Fact	tor Flags	File ID
Analyte 2,4,5-TP,SIL	VEX	CAS No. 93-72-1	Result (ug/L) 10.4	PQL 5.00	Dilution Fact	tor Flags	File ID GC16-245-8

Analyte Spiked		Sample (ug/L)	Added (ug/L)	MS (ug/L)	MS % Rec.	\mathbf{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		· · · ·	1 10 14		1 1 1 .	1 . 1 1	

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

	Limits							
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{T}	File ID			
2 4-DB	94-82-6	104	60.0-140		GC16-245-8			

¹Qualifier 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.



Project: AI Client Sam	.CO ple ID: D-04-	LOGUIDICE -A MS 0613-01M (AR33586	Collection Date: N/A Sample Matrix: SOIL(TCLP) Received Date: N/A Percent Solid: N/A							
Analysis 1: Prep 1:	Batch ID MER1-1692-26 5001	Method SW-846 7470/TCLP 1311 EPA 7470A		Dat 09/25/2014 09/25/2014	16:25	analyst CYC CYC	Init Wt. NA 4.00 m		nal Vol. NA 40.0 mL	Column NA NA
Analyte		CAS No.]	Result (mg/L	.) I	PQL	Dilutio	n Factor	Flags	File ID
Mercury		7439-97-6		0.0304	(0.0200	1.0	0		MER1-1692-26
Analyte Spi	ked	CAS No.	Samp (mg/L)		MS (mg/L)	MS % R		Limit (%)	S	
Mercury		7439-97-6		0.0300	0.0304	101		75.0-12	25	

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.



Quality Control Results Duplicate Sample Job Number: 14090613

Project: A Client San	nple ID: D-04-			Sample Receive	on Date: N/A Matrix: SOIL(d Date: N/A Solid: N/A	TCLP)				
Analysis 1: Prep 1:	Batch ID MER1-1692-25 5001	Method SW-846 7470/TCLP 1311 EPA 7470A	Date 09/25/2014 16:23 09/25/2014 09:26	Analyst CYC CYC	Init Wt./Vol. NA 4.00 mL	Final N. 40.0	A	(Column NA NA	
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact		lags	File	ID	
Mercury		7439-97-6	ND	0.0200	1.00		U	MER1-	1692-25	
			Dural	• • • • •		F	Sample	Prec	ision	Limits
Analyte		CAS No.	Dupl (mg				(mg/L)	RPD	\mathbf{Q}^1	(%)
Mercury		7439-97-6	ND				ND			20

¹Qualifier 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.



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 Fact	tor 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

		Sample	Added	MS	MS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	(mg/L)	% Rec.	Q	(%)	
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	

¹Qualifier 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.



Quality Control Results Duplicate Sample Job Number: 14090613

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.	(Columr	1
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 Fact	or Flags	File	ID	
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1	312-92	
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1	312-92	
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1	312-92	
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1	312-92	
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1	312-92	
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1	312-92	
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1	312-92	
							Prec	ision	
			Dupl	icate		Sam	ole		Limits
Analyte		CAS No.	(mg			(mg/	L) RPD	\mathbf{Q}^{I}	(%)
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

¹Qualifier 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.

Quality Control Samples (Lab)



Quality Control Results Method Blank Job Number: 14090613

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 1	311 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	PQL Dilution Facto		File ID	
1,1-Dichloro	oethene	75-35-4	ND	10.0	10.0	U	MS10-250-5	
1,2-Dichloro	bethane	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 Tetr	achloride	56-23-5	ND	10.0	10.0	U	MS10-250-5	
Chlorobenze	ene	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	
Tetrachloroe	ethene	127-18-4	ND	10.0	10.0	U	MS10-250-5	
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-250-5	
Vinyl Chlor	ide	75-01-4	ND	10.0	10.0	U	MS10-250-5	
				Lin	nits			
Surrogate		CAS No.	% Recovery	(%	(0)	\mathbf{Q}^{1}	File ID	
4-Bromoflue	orobenzene	460-00-4	95.5	76.0	-128		MS10-250-5	
Dibromoflue	oromethane	1868-53-7	103	73.6	-132		MS10-250-5	
Toluene-d8	Coluene-d8 2037-26-5		101	84.4-115			MS10-250-5	
	1,2-Dichloroethane 17060-07-0		102	79.9-120			MS10-250-5	
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.



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

Lab Sample ID: LCS-03 Percent Solid: N/A	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	
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	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.	1	mits %)
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

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

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{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

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14090613

Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Method Blank (AR33800B) Lab Sample ID: SBLK-63

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

Collection Date: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-406-5	SW-846 8270D/TCLP Extraction M		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 Fact	or Flags	File ID
1,4-Dichloro	obenzene	106-46-7	ND	50.0	1.00	U	MS09-406-5
2,4,5-Trichl	orophenol	95-95-4	ND	50.0	1.00	U	MS09-406-5
2,4,6-Trichl	orophenol	88-06-2	ND	50.0	1.00	U	MS09-406-5
2,4-Dinitrot	oluene	121-14-2	ND	50.0	1.00	U	MS09-406-5
Hexachlorol	penzene	118-74-1	ND	50.0	1.00	U	MS09-406-5
Hexachlorol	outadiene	87-68-3	ND	50.0	1.00	U	MS09-406-5
Hexachloro	ethane	67-72-1	ND	50.0	1.00	U	MS09-406-5
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-406-5
Nitrobenzen	-	98-95-3	ND	50.0	1.00	U	MS09-406-5
o-Methylph	enol	95-48-7	ND	50.0	1.00	U	MS09-406-5
Pentachloro	phenol	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^{1}	File ID
2,4,6-Tribro	mophenol	118-79-6	68.3	22.8	-161		MS09-406-5
2-Fluorobip		321-60-8	62.6	26.3			MS09-406-5
2-Fluorophe		367-12-4	42.0		-86.4		MS09-406-5
Terphenyl-d	.14	1718-51-0	87.4	33.7			MS09-406-5
Nitrobenzen	e-d5	4165-60-0	74.8	12.7			MS09-406-5
Phenol-d6		13127-88-3 value outside the control limits or 'D' o	30.4		-87.4		MS09-406-5

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 Results Lab Control Sample (LCS) Job Number: 14090613

Client: BARTON AND LOGUIDICECollection Date: N/AProject: ALCOSample Matrix: TCLPClient Sample ID: Lab Control Sample (AR33800L)Received Date: N/ALab Sample ID: LCS-63Percent 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 131	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.	\mathbf{O}^{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	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	1	34.0-119	
o-Methylphenol	95-48-7	500	306	61.2	-	26.0-128	
Pentachlorophenol	87-86-5	500	381	76.2	4	4.00-113	
Pyridine	110-86-1	500	149	29.8		1.00-105	

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

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{T} 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

¹Qualifier 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



Quality Control Results Method Blank Job Number: 14090613

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 Fact	or 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 Am	ount > RL	1336-36-3	ND		1.00	U	GC20F-2016-6
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	6)	\mathbf{Q}^1	File ID
Tetrachloro-me	ta-xylene	877-09-8	99.2	60.0	-140		GC20F-2016-6
Decachlorobiph		2051-24-3	122	60.0	-140		GC20F-2016-6

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 Results Lab Control Sample (LCS) Job Number: 14090613

Project: Al Client San	LCO	LOGUIDICE Control Sample (AR33586L) 82			Samp Recei	ole Ma ived Da	Date: N/. trix: SC ate: N/A id: N/A	DIL	
Analysis 1: Prep 1:	Batch ID GC20F-2016-7 28697	Method SW-846 8082A (PCB) EPA 3545A	Dat 09/29/2014 09/29/2014	19:52	Analy KEB MH	st In	it Wt./V NA 10.3 g	ol. Final Vol. NA 25.0 mL	Column Phenomenex, Zebron ZB-IMS, 20 m, 0.18 mm ID, 0.18 μm NA
Analyte Sp	iked	CAS No.	Added (ug/g)	LC (ug/		LCS % Rec.	\mathbf{Q}^{1}	Limits (%)	
Aroclor 1242 Qualifier column	n where '*' denotes	53469-21-9 value outside the control limits. Note: RPD	1.21 criteria does not	1.15 t apply if		95.2 sample a	nd duplicate	70.0-130 e sample are not detec	ted.

			Linnis	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{I} 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

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14090613

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 E	xtraction M09/27/2014 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 Fact	or 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 Ep	oxide	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^{1}	File ID
Tetrachloro-m	eta-xylene	877-09-8	94.7	60.0	-140		GC19B-2191-8
Decachlorobip	henyl	2051-24-3	102	60.0	-140		GC19B-2191-8

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 Results Lab Control Sample (LCS) Job Number: 14090613

Client: BARTON AND LOGUIDICECollection Date: N/AProject: ALCOSample Matrix: TCLPClient Sample ID: Lab Control Sample (AR33586L)Received Date: N/ALab Sample ID: LCS-86Percent 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	M09/27/2014 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

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	\mathbf{Q}^{T}	(%)	
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	

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

			Limits			
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{T}	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	
10.10						

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¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14090613

	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/TCL	P Method 1309/29/2014 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 Fact	or Flags	File ID
2,4,5-TP,SIL	VEX	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	ó)	\mathbf{Q}^{I}	File ID
2 4-DB		94-82-6	89.3	60.0	-140		GC16-245-5

¹Qualifier 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.



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

Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Lab Control Sample (AR33586L) Lab Sample ID: LCS-80		L)	Collection Date: N/A Sample Matrix: TCLP Received Date: N/A Percent Solid: N/A						
Analysis 1: Prep 1:	Batch ID GC16-245-6 28675	Method EPA 1978 pg.115 Herbicides/TCLF EPA 3510C	Date P Method 1309/29/2014 02: 09/28/2014 07:	35 JE	EB	it Wt./Vc NA 200 mL	DI. Final Vol. NA 5.00 mL	Column Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 μm NA	
Analyte Sp 2,4,5-TP,SILV 2,4-D		CAS No. 93-72-1 94-75-7	(ug/L) (12.5 9.	LCS (ug/L) 64).0	LCS % Rec. 77.1 80.3	\mathbf{Q}^{1}	Limits (%) 70.0-130 70.0-130		

¹Qualifier 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 (%)	\mathbf{Q}^{1}	File ID	
2 4-DB	94-82-6	89.3	60.0-140		GC16-245-6	
¹ Qualifier column where '*' den	otes value outside the control limits or 'l	D' denotes value was diluted o	ut.			

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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Quality Control Results Method Blank Job Number: 14090613

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 Fact	tor 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.



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

Project: A Client Sar	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					
Analysis 1:	Batch ID MER1-1692-21	Method SW-846 7470/TCLP 1311	Date 09/25/2014	16:16	Analyst CYC		Wt./V	NA	Column
Prep 1:	5001	EPA 7470A	09/25/2014		CYC		4.00 mL	40.0 mL	NA
Analyte Sp	oiked	CAS No.	Added (mg/L)	LC (mg/	L) %	CS Rec.	\mathbf{Q}^{1}	Limits (%)	
Mercury		7439-97-6	0.0300	0.030	4 1	01		80.0-120	

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14090613

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 Fact	or 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.



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

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		Added (mg/L)	LCS (mg/L)	LCS % Rec.	\mathbf{Q}^{1}	Limits	
	CAS No.					(%)	
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	

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.



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.

Ian Pfelger

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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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.

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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 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).

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 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).

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



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.





	tion A	Section B			Secti	on C																						L	Pa	age:	1	of	1
	uired Client Information:	Required Proje				Informatio																						⊥			_	_	
Con	npany: Barton and Loguidice DPC	Report To: And	dy Bar	ber	Attent	ion:	Ac	count	is Pay	yable												R	EG	ULA	ATC)RY	Ά(GEI	NC)	Ý			
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ITEM #	DRINKING WATER WATER WASTE WATER	stoates MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOS START	ITE CON ENI	1POSITE D/GRAB	SAMPLE TEMP A	# OF CONTAINERS	Unpreserved				e.	Methanol Other		naiys	is:		7.7 											(of the second sec	ual Childhine (VIN)	Paci	Project No.
E		13	<u> </u>	DATE TI			<u> </u>			H ₂ SO ₄ HNO ₃	Ϋ́	Na(Na ₃	Metha			' /	4	4	'-{-	4	4	4	4	4	[]	4	4	4	<i>⁸</i>	<u> </u>		Lab I.D.
1	D-05	SL	- C		- 9/23	10:45		2	X		-			· · ·			入_							A	n u	3	14	13	3				
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				PRI	INT Name o	f SAMPLE	R:																						Temoin '		Received in Ice	Custody Sealed Cooler	Samples Intact
				SIG	NATURE of	SAMPLE	R:										D	ATE S	Signed	Ni I								-	Ten		Rec	Seale	Sa Sa

Pace Analy	Aica	a/ [°]	Sa	ample Cor	dition U	Jpon Receipt		<14090712P2>
						CLIENT NAME:	Bar-ALD	
TRACKING #	nt¥–			SENT: Yes 🗆	No 👳		No Blue	N/A.A None □
•	Bubble Ba n 03(X No ⊡	ag⊗2 #122087 N/A⊘∕	None □ ′967 □	Other 🗆		EMPERATURE (°C): _ Temp should be ab	8.5	
Chain of Custody Present:	V ZYes	□No		1.				
Chain of Custody Filled Out:	X Yes	□ No		2.				
Chain of Custody Relinquished:	ZiYes	□No		3.				
Sampler Name / Signature on COC:	□Yes	DXNo		4.			- 	· · · · · · · · · · · · · · · · · · ·
Samples Arrived within Hold Time:	Xxes	□No		5.				
Short Hold Time Analysis (<72hr):	□Yes	□No		6.				
Rush Turn Around Time Requested:	□Yes	5×No		7.			· · · · · · · · · · · · · · · · · · ·	
Sufficient Volume:	X Yes	/ No		8.		<u> </u>		
Correct Containers Used:	Yes	□No		9.		<u></u>	. <u>.</u>	
- Pace Containers Used:	XYes	□ No					<u></u>	
Containers Intact:	Yes			10.	,			
Filtered volume received for Dissolved tests:	□Yes	□ No	X N/A	11.	<u></u>	- · ·		
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	ΠNο	X N/A	Initial whe completed		Lot #	t of added preser んの	vative:
Headspace in VOA Vials (>6mm):	□Yes	□No	XN/A	14.				
Trip Blank Present:	□Yes	□No	ĺ ∑ N/A	15.				
Trip Blank Custody Seals Present: Pace Trip Blank Lot #:	□Yes	□No	XN/A					
Sample Receipt form filled in:i{J?		Log In (I	ncludes not	tifying PM of a	iny discrepa	nts and verifying san cies and documentin ring LAB IDs into pH	ng in LIMS):	1172 9/23/14 15 9/23/14 1(3P 9/23/14

3

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 SHIPPING ID: BAR ALB NUMBER OF COOLERS: 1 CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED TEMPERATURE(S): ⁵8.5 °C

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,}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)	

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.

²The 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. ³Samples 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. 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.

⁵All 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)	EPA 8082A - PCB Analysis - (ug/g)	EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)
2,4,5-TP,SILVEX	Aroclor 1016	1,4-Dichlorobenzene
2,4-D	Aroclor 1221	2,4,5-Trichlorophenol
	Aroclor 1232	2,4,6-Trichlorophenol
EPA 6010C - Metals by ICP (TCLP- RCRA) - (mg/L)	Aroclor 1242	2,4-Dinitrotoluene
Arsenic	Aroclor 1248	Hexachlorobenzene
Barium	Aroclor 1254	Hexachlorobutadiene
Cadmium	Aroclor 1260	Hexachloroethane
Chromium	Total PCB Amount > RL	m&p-Methylphenol
Lead		Nitrobenzene
Selenium	EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)	o-Methylphenol
Silver	1,1-Dichloroethene	Pentachlorophenol
	1,2-Dichloroethane	Pyridine
EPA 7470A - Mercury Analysis (TCLP) - (mg/L)	2-Butanone	
Mercury	Benzene	
	Carbon Tetrachloride	
EPA 8081B - Pesticide Analysis (TCLP) - (ug/L)	Chlorobenzene	
Chlordane	Chloroform	
Endrin	Tetrachloroethene	
gamma-BHC	Trichloroethene	
Heptachlor	Vinyl Chloride	
Heptachlor Epoxide		
Methoxychlor		
Toxaphene		

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GC/MS Volatiles



Job Number: 14090712

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 1	311 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 Facto	r Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-255-20
1,2-Dichloro	ethane	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 Tetra	achloride	56-23-5	ND	10.0	10.0	U	MS10-255-20
Chlorobenze	ne	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
Tetrachloroe	thene	127-18-4	ND	10.0	10.0	U	MS10-255-20
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-255-20
Vinyl Chlori	de	75-01-4	ND	10.0	10.0	U	MS10-255-20
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(0)	\mathbf{Q}^1	File ID
4-Bromofluc	orobenzene	460-00-4	95.0	76.0	-128		MS10-255-20
Dibromofluc	oromethane	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-Dichloro	ethane	17060-07-0	104	79.9	-120		MS10-255-20
¹ Qualifier colum	n where '*' denotes	value outside the control limits or 'D' of	lenotes 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



Job Number: 14090712

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 M	ethod 131109/30/2014 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 Facto	or Flags	File ID
1,4-Dichloro	obenzene	106-46-7	ND	50.0	1.00	U	MS09-412-22
2,4,5-Trichle	orophenol	95-95-4	ND	50.0	1.00	U	MS09-412-22
2,4,6-Trichle	orophenol	88-06-2	ND	50.0	1.00	U	MS09-412-22
2,4-Dinitrote	oluene	121-14-2	ND	50.0	1.00	U	MS09-412-22
Hexachlorot	benzene	118-74-1	ND	50.0	1.00	U	MS09-412-22
Hexachlorot	outadiene	87-68-3	ND	50.0	1.00	U	MS09-412-22
Hexachloroe	ethane	67-72-1	ND	50.0	1.00	U	MS09-412-22
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-412-22
Nitrobenzen	e	98-95-3	ND	50.0	1.00	U	MS09-412-22
o-Methylpho	enol	95-48-7	ND	50.0	1.00	U	MS09-412-22
Pentachloro	phenol	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^{1}	File ID
2,4,6-Tribro	mophenol	118-79-6	99.1	22.8	-161		MS09-412-22
2-Fluorobip	henyl	321-60-8	75.3	26.3			MS09-412-22
2-Fluorophe		367-12-4	49.6	10.0-			MS09-412-22
Terphenyl-d		1718-51-0	99.9	33.7			MS09-412-22
Nitrobenzen	le-d5	4165-60-0	74.7	12.7			MS09-412-22
Phenol-d6		13127-88-3 value outside the control limits or 'D' of	35.1		-87.4		MS09-412-22

¹Qualifier 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



Analytical Sample Results

Job Number: 14090712

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 Fact	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	b)	\mathbf{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

¹Qualifier 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 - Pesticides



Job Number: 14090712

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 M09/28/2014 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 Fact	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	ó)	\mathbf{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

¹Qualifier 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 - Herbicides



Job Number: 14090712

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/TC	LP Method 1309/30/2014 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 Fact	tor Flags	File ID
2,4,5-TP,SI	LVEX	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	()	\mathbf{Q}^{1}	File ID
2 4-DB		94-82-6	94.5	60.0	-140		GC16-246-7

¹Qualifier 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.

Mercury



Job Number: 14090712

Project: Al Client Sam	LCO ple ID: D-05	LOGUIDICE 0712-01 (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 Fact	tor 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.

Metals - ICP

October 02, 2014

11



Job Number: 14090712

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 Fact	or 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)



Quality Control Results Matrix Spike Sample (MS) Job Number: 14090712

Client: BA Project: AI Client Sam Lab Sampl				Sam Rec	ple Ma	Date: N/ trix: SC ate: N/A id: N/A	DIL(TCI	LP)				
Analysis 1: Prep 1:	Batch ID MER1-1696-18 5010	Method SW-846 7470/TCLP 1311 EPA 7470A			Date 09/29/2014 09/29/2014	15:19	Anal CYC CYC		i <mark>t Wt./V</mark> NA 4.00 mL		nal Vol. NA 40.0 mL	Column NA NA
Analyte		CAS No.		Res	sult (mg/L)	PQI	D D	ilution	Factor	Flags	File ID
Mercury		7439-97-6			0.0300		0.02	00	1.00		_	MER1-1696-18
Analyte Spi	ked	CAS No.	Samj (mg/]		Added (mg/L)	M (mg		MS % Rec.	\mathbf{Q}^{1}	Limits (%)	S	
Mercury		7439-97-6			0.0300	0.030	0	100		75.0-12	5	

¹Qualifier 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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Quality Control Results Duplicate Sample Job Number: 14090712

Project: A Client San	nple ID:D-05			Collection Date: N/A Sample Matrix: SOIL(TCLP) Received Date: N/A Percent Solid: N/A							
Analysis 1: Prep 1:	Batch ID MER1-1696-17 5010	Method SW-846 7470/TCLP 1311 EPA 7470A	Date 09/29/2014 15:17 09/29/2014 09:31	Analyst CYC CYC	Init Wt./Vol. NA 4.00 mL	Final N 40.0		(Column NA NA		
Analyte		CAS No.	Result (mg/L)	PQL	Dilution Fact	or I	Flags	File	ID		
Mercury		7439-97-6	ND	0.0200	1.00		U	MER1-	1696-17		
						[Prec	ision		
Analyte		CAS No.	Duplicate Sample (mg/L) Compared to the second seco						Limits (%)		
Mercury		7439-97-6	ND				ND			20	

¹Qualifier 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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Quality Control Results Matrix Spike Sample (MS) Job Number: 14090712

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 Fact	tor 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

		Sample	Added	MS	MS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	(mg/L)	% Rec.	Q	(%)	
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	

¹Qualifier 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.



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	ı
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	or Flags	File	ID	
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1	318-39	
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1	318-39	
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1	318-39	
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1	318-39	
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1	318-39	
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1	318-39	
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1	318-39	
							Prec	ision	
			Dup	licate		Sample			Limits
Analyte		CAS No.				(mg/L)	RPD	\mathbf{Q}^{1}	(%)
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

¹Qualifier 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.

Quality Control Samples (Lab)



Quality Control Results Lab Control Sample (LCS) Job Number: 14090712

Client Sample ID: Lab Control Sample (AR33572L)Received Date: N/ALab Sample ID: LCS-94Percent 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.	\mathbf{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	

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

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{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

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14090712

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 13	311 09/29/2014 11:41	ТЈН	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
1,1-Dichloro	oethene	75-35-4	ND	10.0	10.0	U	MS10-255-7
1,2-Dichloro	oethane	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 Tetra	achloride	56-23-5	ND	10.0	10.0	U	MS10-255-7
Chlorobenze	ene	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
Tetrachloroe	thene	127-18-4	ND	10.0	10.0	U	MS10-255-7
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-255-7
Vinyl Chlori	de	75-01-4	ND	10.0	10.0	U	MS10-255-7
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
4-Bromofluc	orobenzene	460-00-4	99.8	76.0	-128		MS10-255-7
Dibromoflue	oromethane	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-Dichloro		17060-07-0	103		-120		MS10-255-7
¹ Qualifier colum	n where '*' denotes	value outside the control limits or 'D' d	enotes value was diluted ou	t.			

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 Results Method Blank Job Number: 14090712

Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Method Blank (AR34535B) Lab Sample ID: SBLK-71

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

Collection Date: N/A

			D (T . TTT. /TT 1	D' 177 1	
	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-412-18	SW-846 8270D/TCLP Extraction M		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 Fact	or 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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%)		\mathbf{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

¹Qualifier 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



Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Lab Control Sample (AR34535L) Lab Sample ID: LCS-71

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

Collection Date: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-412-19	SW-846 8270D/TCLP Extraction Method 131	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

Analyta Spillad	CAS No.	Added	LCS	LCS	\mathbf{Lin}		
Analyte Spiked	CAS NO.	(ug/L)	(ug/L)	% Rec.	Q (%	<i>)</i>	
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	

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

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{T} 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

¹Qualifier 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



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

Ba	tch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC2	21F-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: 2873	32	EPA 3545A	09/30/2014 19:04	KFM	10.2 g	25.0 mL	NA
Analyte		CAS No.	Result (ug/g)	PQL	Dilution Fact	or 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	t > RL	1336-36-3	ND		1.00	U	GC21F-2338-23
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	b)	\mathbf{Q}^{1}	File ID
Tetrachloro-meta-x	xylene	877-09-8	101	60.0	-140		GC21F-2338-23
Decachlorobipheny	yl	2051-24-3	108		-140		GC21F-2338-23
Decachlorobipheny	yl		108	60.0			

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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Project: Al Client Sam	LCO	LOGUIDICE Control Sample (AR34433L) 03			Samp Recei	le Ma ved Da	Date: N// trix: SC ate: N/A id: N/A	IL	
Analysis 1: Prep 1:	Batch ID GC21F-2338-24 28732	Method 4 SW-846 8082A (PCB) EPA 3545A	Dat 10/01/2014 09/30/2014	14:57	Analys JEB KFM	st In	it Wt./V NA 10.0 g	ol. Final Vol. NA 25.0 mL	Column Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm NA
Analyte Sp	iked	CAS No.	Added (ug/g)	LC (ug/		LCS 6 Rec.	\mathbf{Q}^{1}	Limits (%)	
Aroclor 1242 ¹ Qualifier column	n where '*' denotes	53469-21-9 value outside the control limits. Note: RPD	1.25 criteria does not	1.23 t apply if		99.1 sample a	nd duplicate	70.0-130 sample are not detec	ted.

Surrogate	CAS No.	% Recovery	(%)	\mathbf{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

¹Qualifier 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: Method Blank (AR34444B) Lab Sample ID: TBLK-87

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

Batch	h ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC19F-	-2074-7	SW-846 8081B, Pesticides/TCLP E	xtraction M09/28/2014 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 Fact	or 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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^{1}	File ID
Tetrachloro-meta-xyl	lene	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 v	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.



Client: BARTON AND LOGUIDICE Project: ALCO	Collection Date: N/A Sample Matrix: TCLP	
Client Sample ID: Lab Control Sample (AR34444L)	Received Date: N/A	
Lab Sample ID: LCS-87	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	n M09/28/2014 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

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(ug/L)	(ug/L)	% Rec.	\mathbf{Q}^{T}	(%)	
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	

¹Qualifier 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 (%)	\mathbf{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

¹Qualifier 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.



Client: BARTON AND LOGUIDICECollection Date: N/AProject: ALCOSample Matrix: TCLPClient Sample ID: Method Blank (AR34433B)Received Date: N/ALab Sample ID: HBLK-81Percent Solid: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	GC16-246-5	EPA 1978 pg.115 Herbicides/TCL	P Method 1309/30/2014 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 Fact	or Flags	File ID
2,4,5-TP,SIL	VEX	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	()	\mathbf{Q}^{I}	File ID
2 4-DB		94-82-6	75.0	60.0	-140		GC16-246-5

¹Qualifier 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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Project: A Client San	LCO	DEOGUIDICE Control Sample (AR3443) -81	BL)	Sample Receive	on Date: Matrix: d Date: N Solid: N	TCLP J/A		
Analysis 1: Prep 1:	Batch ID GC16-246-6 28676	Method EPA 1978 pg.115 Herbicides/TCL EPA 3510C	Date P Method 1309/30/2014 10:01 09/28/2014 10:00	Analyst _{JEB} MH	Init Wt. NA 200 m		Final Vol. NA 5.00 mL	Column Phenomenex, Zebron ZB-5, 30 m, 0.25 mm ID, 0.25 μm NA
Analyte Sp		CAS No. 93-72-1		, ,	S Rec. Q	(imits (%)	

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

12.5

Surrogate	CAS No.	% Recovery	Limits (%)	\mathbf{Q}^{1}	File ID	
2 4-DB	94-82-6	103	60.0-140		GC16-246-6	
¹ Qualifier column where '*' den	otes value outside the control limits or 'D' d	lenotes value was diluted	out.			

11.4

90.9

70.0-130

94-75-7

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.

2,4-D

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Project: A Client San	LCO	LOGUIDICE od Blank (AR34433B) -91					
	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 Fac	tor 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.



Project: A Client San	ontrol Sample (AR34433L)	1						
Analysis 1: Prep 1:	Method SW-846 7470/TCLP 1311 EPA 7470A	Date 09/29/2014 1 09/29/2014 0	5:14	Analyst CYC CYC		Wt./V NA .00 mL	ol. Final Vol. NA 40.0 mL	Column NA NA
Analyte Sp	CAS No.	Added (mg/L)	LCS (mg/L	5 LC L) %1	ZS Rec.	\mathbf{Q}^1	Limits (%)	
Mercurv	7439-97-6	0.0300	0.0303	10)1		80.0-120	

¹Qualifier 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.



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 Fact	or 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.



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

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	% Rec.	\mathbf{Q}^{T}	(%)	
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	

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.



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.

Jan Pfelger

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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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 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).

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 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).

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



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>

	tion A uired Client Information:	Section Required		ect Info	ormation:		Sectio	n C Informatic	-n-																					Page	e: 1	of	1	
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Face Analy	∕tic.	al	Sa	ample Con	-	роп Receipt client name: В ргојест : Асс	1	<14100601P2>
, 7 ★	ent	Pace 🗆	Other	```	-		********	
TRACKING # r^{1}/A				SENT: Yes	No 🗆	INTACT: Yes 🗹	No 🗆	N/A 🗆
PACKING MATERIAL: Bubble Wrap	Bubble E	0	None	Other 🗆		ICE USED: Wet	Blue \Box	None 🗆
1-	n 03 🗆	#122087	/96/ 🗆			MPERATURE (°C):		
BIOLOGICAL TISSUE IS FROZEN: Yes 🗆	No 🗆	N/A-5×			COMMENT	Temp should be abov c.	e freezing to 6	L .
		,			CONNIVIENT	5:		
Chain of Custody Present:	X es	□No		1.				
Chain of Custody Filled Out:	Tyes	□No		2.				
Chain of Custody Relinquished:	Yes	□ No		3.				
Sampler Name / Signature on COC:	Yes	No		4.				
Samples Arrived within Hold Time:	XYes	□ No		5.				
Short Hold Time Analysis (<72hr):	□Yes	<u>No</u>		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. Sample	10 on co	c " \$-05" does n times/dates mate	not match c	lient labels
- Includes date/time/ID/Analysis				"D-06"	. Collectio	in times/dates mate	ch CoC.	
All containers needing preservation have been checked:	□Yes	□No	⊠în/A	13. 50,1 5 method	amples for 5035 guild	8260 analysis no Jance.	ot preserved	per collection
All containers needing preservation are in	□Yes	ΠNο	MN/A					
compliance with EPA recommendation:				Initial when		Lot # of	added preserv	ative:
- Exceptions that are not checked: VOA				completed:	AJB		NA	
Headspace in VOA Vials (>6mm):	□Yes	□No		14.				
Trip Blank Present:	□Yes	□No	DIN/A	15.				
Trip Blank Custody Seals Present:	□Yes	□No	XIN/A					
Pace Trip Blank Lot #:N /A								
Sample Receipt form filled in: $AJB 10/18/10$	<u>_</u> 14	Log In (Ir	icludes noti	fying PM of an	y discrepacie	ts and verifying sampl es and documenting in ng LAB IDs into pH log	n LIMS):	AJB 10/18/14 CDC 10/17/14 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 SHIPPING ID: R.MCCORMICK/ B&L NUMBER OF COOLERS: 1 CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED TEMPERATURE(S): ⁵10.5 °C

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,}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.

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	

¹The 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.

²The 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. ³Samples 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. 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.

⁵All 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)	EPA 8260C - VOCs by GCMS - (ug/kg)	EPA 8260C - VOCs by GCMS - (ug/kg)
Antimony	1,1,1,2-Tetrachloroethane	Bromodichloromethane
Arsenic	1,1,1-Trichloroethane	Bromoform
Barium	1,1,2,2-Tetrachloroethane	Bromomethane
Beryllium	1,1,2-Trichloroethane	Carbon Disulfide
Cadmium	1,1-Dichloroethane	Carbon Tetrachloride
Chromium	1,1-Dichloroethene	Chlorobenzene
Lead	1,1-Dichloropropene	Chloroethane
Nickel	1,2,3-Trichlorobenzene	Chloroform
Selenium	1,2,3-Trichloropropane	Chloromethane
Silver	1,2,4-Trichlorobenzene	cis-1,2-Dichloroethene
Thallium	1,2,4-Trimethylbenzene	cis-1,3-Dichloropropene
Vanadium	1,2-Dibromo-3-chloropropane	Dibromochloromethane
Zinc	1,2-Dibromoethane	Dibromomethane
	1,2-Dichlorobenzene	Dichlorodifluoromethane
EPA 7471B - Mercury Analysis - (mg/kg)	1,2-Dichloroethane	Ethylbenzene
Mercury	1,2-Dichloropropane	Hexachlorobutadiene
	1,3,5-Trimethylbenzene	Isopropylbenzene
	1,3-Dichlorobenzene	m&p-Xylene
	1,3-Dichloropropane	Methylene Chloride
	1,4-Dichlorobenzene	Methyl-tert-butyl-ether (MTBE)
	2,2-Dichloropropane	Naphthalene
	2-Butanone	n-Butylbenzene
	2-Chlorotoluene	n-Propylbenzene
	2-Hexanone	o-Xylene
	4-Chlorotoluene	sec-Butylbenzene
	4-Isopropyltoluene	Styrene
	4-Methyl-2-pentanone	tert-Butylbenzene
	Acetone	Tetrachloroethene
	Benzene	Toluene
	Bromobenzene	Total Xylenes
	Bromochloromethane	trans-1,2-Dichloroethene

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SAMPLE RECEIPT REPORT 14100601

Pace Analytical Services, Inc. 2190 Technology Drive Schenectady, NY 12308 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

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Page 2 of 2

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GC/MS Volatiles



Analytical Sample Results

Job Number: 14100601

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		Final Vol.	Column
Analysis 1: MS10-284-10	EPA Method 8260C	10/22/2014 14:51	ТЈН	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 μm
Prep 1: 2477	ЕРА 5035А-Н	10/22/2014 13:39	RF	4.90 g	10.0 mL	NA
Analyte	CAS No.	Result (ug/kg)	PQL	Dilution Factor	r 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-chloropropa	ne 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	Ū	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	Ū	MS10-284-10
Benzene	71-43-2	ND	125	50.0	Ū	MS10-284-10
Bromobenzene	108-86-1	ND	125	50.0	Ū	MS10-284-10
Bromochloromethane	74-97-5	ND	125	50.0	Ū	MS10-284-10
Bromodichloromethane	75-27-4	ND	125	50.0	Ŭ	MS10-284-10
Bromoform	75-25-2	ND	125	50.0	Ŭ	MS10-284-10
Bromomethane	74-83-9	ND	125	50.0	Ŭ	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 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 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 MS10-284-10
Dibromomethane	74-95-3	ND	125	50.0	U	MS10-284-10 MS10-284-10
Diotomoniculane	/4-93-3	ND	123	50.0	U	WIS10-204-10



Analytical Sample Results

Job Number: 14100601

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	ЕРА 5035А-Н	10/22/2014 13:39	RF	4.90 g	10.0 mL	NA
Analyte		CAS No.	Result (ug/kg)	PQL	Dilution Fact	tor Flags	File ID
Dichlorodiflu	ioromethane	75-71-8	ND	125	50.0	U	MS10-284-10
Ethylbenzene	e	100-41-4	174	125	50.0		MS10-284-10
Hexachlorob	utadiene	87-68-3	ND	125	50.0	U	MS10-284-10
Isopropylben	zene	98-82-8	796	125	50.0		MS10-284-10
m&p-Xylene	;	136777-61-2	228	125	50.0		MS10-284-10
Methylene C	hloride	75-09-2	ND	125	50.0	U	MS10-284-10
-	outyl-ether (MT	TBE) 1634-04-4	ND	125	50.0	U	MS10-284-10
Naphthalene	-	91-20-3	1040	125	50.0		MS10-284-10
n-Butylbenze	ene	104-51-8	1690	125	50.0		MS10-284-10
n-Propylbenz		103-65-1	1400	125	50.0		MS10-284-10
o-Xylene		95-47-6	148	125	50.0		MS10-284-10
sec-Butylben	zene	135-98-8	1420	125	50.0		MS10-284-10
Styrene		100-42-5	ND	125	50.0	U	MS10-284-10
tert-Butylben	izene	98-06-6	ND	125	50.0	U	MS10-284-10
Tetrachloroet		127-18-4	ND	125	50.0	U	MS10-284-10
Toluene		108-88-3	ND	125	50.0	U	MS10-284-10
Total Xylene	S	1330-20-7	376	125	50.0		MS10-284-10
trans-1,2-Dic		156-60-5	ND	125	50.0	U	MS10-284-10
	hloropropene	10061-02-6	ND	125	50.0	U	MS10-284-10
Trichloroethe		79-01-6	ND	125	50.0	U	MS10-284-10
Trichlorofluc		75-69-4	ND	125	50.0	Ū	MS10-284-10
Vinyl Acetat		108-05-4	ND	125	50.0	Ū	MS10-284-10
Vinyl Chlori		75-01-4	ND	125	50.0	Ū	MS10-284-10
-				.	•.		
Surrogate		CAS No.	% Recovery	Lin (%		\mathbf{Q}^1	File ID
Bromofluoro	hanzana	460-00-4	128	<u>`````````````````````````````````````</u>	-171	<u> </u>	MS10-284-10
Dibromofluo		460-00-4 1868-53-7	128 99.6		-133		MS10-284-10 MS10-284-10
toluene-d8	ioniculatic	2037-26-5	99.5		-117		MS10-284-10 MS10-284-10
1.2-Dichloro	ethane-d4	17060-07-0	98.8		-117		MS10-284-10

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



Analytical Sample Results

Job Number: 14100601

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 Fact	tor Flags	File ID

ND: Denotes analyte not detected at a concentration greater than the PQL.

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

Metals - ICP



Analytical Sample Results

Job Number: 14100601

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	or 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.

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 (AR38080B) Lab Sample ID: VBLK-91

Collection Date: N/A	ł
Sample Matrix: SO	IL
Received Date: N/A	
Percent Solid: N/A	

	Method	Date	Analyst		inal Vol.	Column
5	PA Method 8260C	10/22/2014 12:30	ТЈН	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
Prep 1: 2477 E	РА 5035А-Н	10/22/2014 11:31	ТЈН	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	Ū	MS10-284-5
4-Chlorotoluene	106-43-4	ND	102	50.0	Ū	MS10-284-5
4-Isopropyltoluene	99-87-6	ND	102	50.0	Ū	MS10-284-5
4-Methyl-2-pentanone	108-10-1	ND	511	50.0	Ŭ	MS10-284-5
Acetone	67-64-1	ND	1020	50.0	Ŭ	MS10-284-5
Benzene	71-43-2	ND	102	50.0	Ŭ	MS10-284-5
Bromobenzene	108-86-1	ND	102	50.0	Ŭ	MS10-284-5
Bromochloromethane	74-97-5	ND	102	50.0	Ŭ	MS10-284-5
Bromodichloromethane	75-27-4	ND	102	50.0	Ŭ	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 MS10-284-5
Chloroform	67-66-3	ND	102	50.0	U	MS10-284-5 MS10-284-5
Chloromethane	74-87-3	ND	102	50.0	U	MS10-284-5 MS10-284-5
cis-1,2-Dichloroethene	156-59-2	ND	102	50.0	U	MS10-284-5 MS10-284-5
cis-1,2-Dichloropropene	10061-01-5	ND	102	50.0	U	MS10-284-5 MS10-284-5
Dibromochloromethane	124-48-1	ND	102	50.0	U U	MS10-284-5 MS10-284-5
Dibromoentoromethane	74-95-3		102	50.0		
Dioromomemane	/4-73-3	ND	102	30.0	U	MS10-284-5



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 (AR38080B) Lab Sample ID: VBLK-91

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

	Batch ID	Method	Date	Analyst		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	ЕРА 5035А-Н	10/22/2014 11:31	TJH	4.89 g	10.0 mL	NA
Analyte		CAS No.	Result (ug/kg)	PQL	Dilution Facto	r Flags	File ID
Dichlorodif	luoromethane	75-71-8	ND	102	50.0	U	MS10-284-5
Ethylbenzer	ne	100-41-4	ND	102	50.0	U	MS10-284-5
Hexachloro	butadiene	87-68-3	ND	102	50.0	U	MS10-284-5
sopropylbe	nzene	98-82-8	ND	102	50.0	U	MS10-284-5
n&p-Xylen	e	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 (M	TBE) 1634-04-4	ND	102	50.0	U	MS10-284-5
Vaphthalen	9	91-20-3	ND	102	50.0	U	MS10-284-5
n-Butylbenz		104-51-8	ND	102	50.0	U	MS10-284-5
n-Propylber		103-65-1	ND	102	50.0	U	MS10-284-5
-Xylene		95-47-6	ND	102	50.0	U	MS10-284-5
ec-Butylbe	nzene	135-98-8	ND	102	50.0	U	MS10-284-5
Styrene		100-42-5	ND	102	50.0	U	MS10-284-5
ert-Butylbe	nzene	98-06-6	ND	102	50.0	U	MS10-284-5
[fetrachloro		127-18-4	ND	102	50.0	U	MS10-284-5
Foluene		108-88-3	ND	102	50.0	U	MS10-284-5
Fotal Xylen	es	1330-20-7	ND	102	50.0	U	MS10-284-5
-	chloroethene	156-60-5	ND	102	50.0	U	MS10-284-5
	chloropropene	10061-02-6	ND	102	50.0	U	MS10-284-5
Frichloroeth		79-01-6	ND	102	50.0	U	MS10-284-5
	oromethane	75-69-4	ND	102	50.0	U	MS10-284-5
Vinyl Aceta		108-05-4	ND	102	50.0	U	MS10-284-5
Vinyl Chlor		75-01-4	ND	102	50.0	U	MS10-284-5
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^{1}	File ID
Bromofluor		460-00-4	92.9	39.5			MS10-284-5
	oromethane	1868-53-7	100		-133		MS10-284-5
oluene-d8	.1 14	2037-26-5	100	82.5			MS10-284-5
1,2-Dichlor		17060-07-0 s value outside the control limits or '	95.2		-117		MS10-284-5

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: Lab Control Sample (AR38080L) Lab Sample ID: LCS-91

Sample Matrix	: SOII
Received Date	N/A
Percent Solid:	N/A

Collection Date: 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	ЕРА 5035А-Н	10/22/2014 11:31	TJH	4.76 g	10.0 mL	NA

	CACN	Added	LCS	LCS	\mathbf{a}^{1}	Limits	
Analyte Spiked	CAS No.	(ug/kg)	(ug/kg)	% Rec.	Q	(%)	
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	4010	93.3 105		70.0-130	
	99-87-6	4210	4410	103		70.0-130	
4-Isopropyltoluene							
4-Methyl-2-pentanone	108-10-1	4210	4250	101	*	70.0-130	
Acetone	67-64-1	4210	2060	49.1	T	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	



Client: BARTON AND LOGUIDICE	Collection Date: N/A
Project: ALCO	Sample Matrix: SOIL
Client Sample ID: Lab Control Sample (AR38080L)	Received Date: N/A
Lab Sample ID: LCS-91	Percent Solid: N/A

B	atch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: MS	S10-284-3	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: 24'	77	ЕРА 5035А-Н	10/22/2014 11:31	ТЈН	4.76 g	10.0 mL	NA

Analyte Spiked	CAS No.	Added (ug/kg)	LCS (ug/kg)	LCS % Rec.	\mathbf{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	

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

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{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

¹Qualifier 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.



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 Fac	tor 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.



Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Lab Control Sample (AR40181L) Lab Sample ID: LCS-72			2)	Co Sai Re Pei				
Analysis 1: Prep 1:	Batch ID MER1-1728-14 5101	Method SW-846 7471B EPA 7471B	Date 10/23/2014 14 10/22/2014 11	:52 CY	C	Wt./Vol. NA 0.201 g	Final Vol. NA 40.0 mL	Column NA NA
Analyte Sp Mercury	iked	CAS No. 7439-97-6	(mg/kg)	LCS (mg/kg)	LCS % Rec. 98.9	\mathbf{Q}^{1} (imits %) .2-129	

¹Qualifier 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.



Quality Control ResultsPace AnalyticalLab Control Sample - Duplicate (LCSD)Job Number: 14100601

Project: A Client San	LCO	LOGUIDICE Control Sample - Duplica D-72	nte (AR40181S)	S: R	ollection D ample Mat eceived Da ercent Soli						
Analysis 1: Prep 1:	Batch ID MER1-1728-15 5101	Method SW-846 7471B EPA 7471B	Date 10/23/2014 14: 10/22/2014 11:	:53 0	CYC	t Wt./ NA 0.197 g	N	Vol. IA) mL	(Columr NA NA	1
Analyte Sp	viked	CAS No.		LCSD mg/kg)	LCSD % Rec.	\mathbf{Q}^{1}	Limits (%)	LCS % Rec.	Prec RPD	ision Q ¹	Limits (%)
Mercury		7439-97-6	5.76 5.	.29	91.8		71.2-129	98.9	7.45		20

¹Qualifier 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.



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

Col	lection Date: N/A
San	nple Matrix: SOIL
Rec	ceived Date: N/A
Per	cent 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 Fact	or 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.



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	Collection Date: N/A
Project: ALCO	Sample Matrix: SOIL
Client Sample ID: Lab Control Sample (AR40181L)	Received Date: N/A
Lab Sample ID: LCS-73	Percent Solid: N/A

	Batch l	D Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Anal	ysis 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.	\mathbf{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	

¹Qualifier 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.



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	Dat	te Ar	nalyst Ini	t Wt./V	'ol. Final	Vol.	(Colum	1
Analysis 1:	ICP2-1360-29	SW-846 6010C	10/27/2014 12:12 LM		MS	NA	N	IA		NA	
Prep 1:	5102	EPA 3050B	10/22/2014	4 11:21 C	YC	0.494 g	50.0) mL		NA	
									Prec	ision	
Analyte Sp	oiked	CAS No.	Added (mg/kg)	LCSD (mg/kg)	LCSD % Rec.	\mathbf{Q}^{1}	Limits (%)	LCS % Rec.	RPD	\mathbf{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

¹Qualifier 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.



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)

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.

Ian Pfelger

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

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.

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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.

Subcontract Analysis

(1.) Please see Pace NY-LI laboratory report for quality assurance details.

Respectfully submitted,

Kelly A. miller

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 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 – 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



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 414120155P1>

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December 17, 2014

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Pace Ana	lytica	af ^a	Sa	mple Conditio	n Upon Receipt		14120155P2>
TRACKING # <u>N</u> /A PACKING MATERIAL: Bubble Wrap 🗆	Client∳ Bubble Bag Gun 03★ No □			SENT: Yes 🗆 No Other 🗆	PROJECT : A CO INTACT: Yes D ICE USED: Wet A R TEMPERATURE (°C): Temp should be above f	No \Box N/A $\&$ Blue \Box None \Box $2, 2(\Box_{\Omega})$ reezing to 6°C	`
Chain of Custody Present:	Yes	□No		1.			
Chain of Custody Filled Out:	□Yes	~] 27No		2. m.35:ra	Sander		
Chain of Custody Relinquished:	Tres	□ No		3.	a		
Sampler Name / Signature on COC:	□Yes	1/ No		4.			3
Samples Arrived within Hold Time:	AYes	□No		5.		• • • • • • • • • • • • • • • • •	· ·
Short Hold Time Analysis (<72hr):	□Yes	<u>X</u> No		6.			
Rush Turn Around Time Requested:	□Yes			7.		· · ·	
Sufficient Volume:	XiYes			8.			
Correct Containers Used:	ĭ⊻Yes	ΠNo		9.			
- Pace Containers Used:	Yes	□No					
Containers Intact:	Yes	□No		10.			
Filtered volume received for Dissolved te	sts: □ _{Yes}	No	∭ N/A	11.			
Sample Labels match COC: - Includes date/time/ID/Analysis	Yes	□No		12.			
All containers needing preservation have be checked:	en 🛛 Yes	□No	M/A	13.			
All containers needing preservation are ir compliance with EPA recommendation: - Exceptions that are not checked: VOA	n □Yes	□No	∑n/A	Initial when completed:/	Lot # of ad	ded preservative:	
Headspace in VOA Vials (>6mm):	□Yes	□No	XIN/A	14.			
Trip Blank Present:	□Yes	□No	KIN/A	15.			
Trip Blank Custody Seals Present: Pace Trip Blank Lot #:N /A	□Yes	□No					
Sample Receipt form filled in: <u>AJB 12</u>	[B/14]	Log In (i	ncludes notif	ying PM of any discre	ments and verifying sample p pacies and documenting in L tering LAB IDs into pH logboo	IMS): <u>AJB 12</u>	15/14



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



al Request Document

fields must be completed accurately.

Section A Required Client Information:	Section B Required Pro	viect Info	mation:		Sectior												•							Pa	ge:	1 o	f	1
	Report To: A				Attentio			ourna		un			'n						RE	GUL	ATC	DRY A	٩GE	NCY				
Address: 10 Airline Drive, Suite 200	Copy To: N	athan S	haffer		Compan	y Name:	Bar	ton a	nd Lo	oguid	ice, I	DPC			NF	DES	-	GR	DUND						WAT	ER		
Albany, NY 12205					Address	s:		lwood use NY		Road, E	lox 31	07			Π U:	ST		RCF	RA			<u> </u>	THEF	۲		_		
Email To: nshaffer@bartonandloguidice.com	Purchase Order No.:				Pace Quio	te Referer		0001					-			S	ITE				GA	· / · · ·	IL	N	,	NI (***	1C	
Phone: 518-218-1801 Fax: 518-218-1805	Project Name	: ALC	0		Pace Proj	ect Manag	jer:	Kelly	Mille	er						LOC	ATI	NC		Γ.	он	error. E	SC	Γ _N	1	OTHER		
Requested Standard Due Date/TAT:	Project Number	1368	8.001.001		Pace Pro	ofile #:								F	iltered	(Y/N)	. /	//	77	77	77	77	77	7	77	777	1	
Section D Valid Matrix Codes	ODE			0011	ECTED			6		~				R	eques	ted g	5	11	11	11.	17	77	7	+	11.	///	·	
DRINKING WATER WATER	DW WT			COLL			MP A ION	INER	\vdash		esen	atives		┥ѧ	nalysi	s:	¥ /	.	///	[]]		[]]	///	[[]		3		
SAMPLE ID PRODUCT SOLUSOLID	WW P SL OL	MALKIN CODE SAMPLE TYPE G=GRAB. C=COMP	COMP	POSITE	COMPO END/C	OSITE GRAB	LE TE LECT	CONTAINERS	eq												//	[]]	//			(X) ou		
Sample IDs MUST BE UNIQUE	WP AR OT	SAN SAN G=GR					SAMP	# OF 0	Unpreserved	3		NaOH Na.S.O.	Methanol	7		\$/			.//	[]]			//		(ual Chi	/- Pi	ace Proje	ct No
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						CLIENT NAME:		5+L	
TRACKING # <u>N</u> /A PACKING MATERIAL: Bubble Wrap 🗆	ent g Bubble Ba In 03 g No 🗆	gs 🗆	Other c DY SEAL PRES None & 37967 🗆			ICE USED: Wet a EMPERATURE (°C Temp should be	/es□ s Blu c):4,2.*		N/A b₅ None □ ℃
Chain of Custody Present:	Yes	□No		1.		`````````````````````````````			
Chain of Custody Filled Out:	Yes	□ No		2		3			
Chain of Custody Relinquished:	S Yes			3.			•		
Sampler Name / Signature on COC:	X Yes	□No	<u> </u>	4.					
Samples Arrived within Hold Time:	¶ ∭Yes	□ No	······································	5.	<u>a 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 </u>	i	·.	;	
Short Hold Time Analysis (<72hr):	□Yes	1 No		6.	-				
Rush Turn Around Time Requested:	□Yes	M NO		7.					,
Sufficient Volume:	Yes	□ No		8.					
Correct Containers Used:	Yes	ΠNο		9.					
- Pace Containers Used:	Yes	M No		<u></u>					
Containers Intact:	Yes	□No		10.					
Filtered volume received for Dissolved tests:	□ Yes			11.				 	
Sample Labels match COC: - Includes date/time/ID/Analysis	□Yes	200		CoC	a volume f	a "0-07" i	s labeled) "D-C)7-A" on new
All containers needing preservation have been checked:	□Yes	□ No	M/A	13.					
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	□Yes	□No	15 N/A	Initial whe completed	• (/) 1	Lo	ot # of adder	d preserv	/ative:
Headspace in VOA Vials (>6mm):	□Yes	□ No		14.	·····				
Trip Blank Present:	□Yes	No	XIN/A	15.					
Trip Blank Custody Seals Present: Pace Trip Blank Lot #:/	Yes	□No							
Sample Receipt form filled in: <u>AJB 12/</u>	9/14	Log In (Includes notify	ing PM of a	iny discrepac	nts and verifying ies and documer ing LAB IDs into p	nting in LIMS	s):	(JB 12/9/14 AJB 12/9/14 AJB 12/9/14

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3

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 SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,}SAMPLES PRESERVED PER METHOD GUIDANCE: YES SHIPPING ID: R. MCCORMICK/ B & L ³ SAMPLES REC'D IN HOLDTIME: YES NUMBER OF COOLERS: 1 **DISPOSAL:** BY LAB (45 DAYS) CUSTODY SEAL INTACT: NA COC DISCREPANCY: NO COOLER STATUS: CHILLED TEMPERATURE(S): ⁵7.7 (IR) °C

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	

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.

²The 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. ³Samples 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. 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.

⁵All 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)	EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)
Arsenic	1,1-Dichloroethene
Barium	1,2-Dichloroethane
Cadmium	2-Butanone
Chromium	Benzene
Lead	Carbon Tetrachloride
Selenium	Chlorobenzene
Silver	Chloroform
	Tetrachloroethene
EPA 7470A - Mercury Analysis (TCLP) - (mg/L)	Trichloroethene
Mercury	Vinyl Chloride
EPA 8082A - PCB Analysis - (ug/g)	EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)
Aroclor 1016	1,4-Dichlorobenzene
Aroclor 1221	2,4,5-Trichlorophenol
Aroclor 1232	2,4,6-Trichlorophenol
Aroclor 1242	2,4-Dinitrotoluene
Aroclor 1248	Hexachlorobenzene
Aroclor 1254	Hexachlorobutadiene
Aroclor 1260	Hexachloroethane
Total PCB Amount > RL	m&p-Methylphenol
	Nitrobenzene
	o-Methylphenol
	Pentachlorophenol
	Pyridine

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2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055

GC/MS Volatiles



Job Number: 14120155

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 1	311 12/11/2014 16:38	ТЈН	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Facto	r Flags	File ID
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-318-21
1,2-Dichloro	ethane	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 Tetra	achloride	56-23-5	ND	10.0	10.0	U	MS10-318-21
Chlorobenze	ne	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
Tetrachloroe	thene	127-18-4	ND	10.0	10.0	U	MS10-318-21
Trichloroethe	ene	79-01-6	ND	10.0	10.0	U	MS10-318-21
Vinyl Chlori	de	75-01-4	ND	10.0	10.0	U	MS10-318-21
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	o)	\mathbf{Q}^1	File ID
4-Bromofluo	orobenzene	460-00-4	100	76.0	-128		MS10-318-21
Dibromofluo	oromethane	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-Dichloro		17060-07-0	108	79.9	-120		MS10-318-21
¹ Qualifier colum	n where '*' denotes	value outside the control limits or 'D' d	enotes 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.

GC/MS Semivolatiles



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 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

					T . TTT, /TT 1	F' 117 1	
	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-495-6	SW-846 8270D/TCLP Extraction M		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 Fact	tor Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS09-495-6
2,4,5-Trichlo	orophenol	95-95-4	ND	50.0	1.00	U	MS09-495-6
2,4,6-Trichlo	orophenol	88-06-2	ND	50.0	1.00	U	MS09-495-6
2,4-Dinitroto	oluene	121-14-2	ND	50.0	1.00	U	MS09-495-6
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS09-495-6
Hexachlorob	utadiene	87-68-3	ND	50.0	1.00	U	MS09-495-6
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS09-495-6
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-495-6
Nitrobenzene	e	98-95-3	ND	50.0	1.00	U	MS09-495-6
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS09-495-6
Pentachlorop	ohenol	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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^{1}	File ID
2,4,6-Tribroi	mophenol	118-79-6	117	22.8	-161		MS09-495-6
2-Fluorobiph	nenyl	321-60-8	83.3	26.3	-121		MS09-495-6
2-Fluoropher		367-12-4	47.4	10.0-	-86.4		MS09-495-6
Terphenyl-d		1718-51-0	113	33.7	-154		MS09-495-6
Nitrobenzene	e-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 colum	n where '*' denotes	value outside the control limits or 'D' of	lenotes 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.

GC - PCB



Analytical Sample Results

Job Number: 14120155

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 Fact	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%		\mathbf{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

ND: Denotes analyte not detected at a concentration greater than the PQL.

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

Mercury



Analytical Sample Results

Job Number: 14120155

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 Fact	tor 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.

Metals - ICP



Analytical Sample Results

Job Number: 14120155

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 Fact	or 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)



Quality Control Results Matrix Spike Sample (MS) Job Number: 14120155

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

Analysis 1.	Batch ID	Method	Date	Analyst		Final Vol.	Column
Analysis 1:	MS09-495-7	SW-846 8270D/TCLP Extraction M		RMS	NA 200 J	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 Facto	or Flags	File ID
1,4-Dichloro	benzene	106-46-7	276	50.0	1.00		MS09-495-7
2,4,5-Trichlo	rophenol	95-95-4	458	50.0	1.00		MS09-495-7
2,4,6-Trichlo	rophenol	88-06-2	419	50.0	1.00		MS09-495-7
2,4-Dinitroto	luene	121-14-2	436	50.0	1.00		MS09-495-7
Hexachlorob	enzene	118-74-1	401	50.0	1.00		MS09-495-7
Hexachlorob	utadiene	87-68-3	292	50.0	1.00		MS09-495-7
Hexachloroet	thane	67-72-1	269	50.0	1.00		MS09-495-7
m&p-Methyl	phenol	108-39-4/106-44-5	630	50.0	1.00	Е	MS09-495-7
Nitrobenzene	e	98-95-3	356	50.0	1.00		MS09-495-7
o-Methylphe	nol	95-48-7	473	50.0	1.00		MS09-495-7
Pentachlorop	henol	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	~ . ~	nple Added g/L) (ug/L)	MS (ug/L)	MS % Rec.	$\mathbf{Q}^{1} \begin{array}{c} \mathbf{Limits} \\ \mathbf{(\%)} \end{array}$	
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	

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.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{T} 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

¹Qualifier 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.



Quality Control Results Matrix Spike Sample (MS) Job Number: 14120155

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						
Analysis 1: Prep 1:	Batch ID MER1-1799-19 5281	Method SW-846 7470/TCLP 1311 EPA 7470A		Da 12/15/201 12/12/201	4 14:52	Analyst CYC CYC		it Wt./Vol NA 4.00 mL		al Vol. NA).0 mL	Column NA NA	
Analyte		CAS No.		Result (mg/I	L)	PQL	Di	ilution Fa	ctor	Flags	File ID	
Mercury		7439-97-6		0.0356		0.0200		1.00			MER1-1799-19	
Analyte Spi	ked	CAS No.	Samp (mg/L		M (mg/		1S Rec.	1	Limits (%)			
Mercury		7439-97-6		0.0300	0.035	6	119		75.0-125	;		

¹Qualifier 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.



Quality Control Results Duplicate Sample Job Number: 14120155

ND

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							
Analysis 1: Prep 1:	Batch ID MER1-1799-18 5281	R1-1799-18 SW-846 7470/TCLP 1311 12/15/2014 14:50 CYC NA NA					Column NA NA					
Analyte	Analyte CAS No.		Result (mg/L)	PQL	Dilution Factor Flags		gs	File ID				
Mercury		7439-97-6	ND	0.0200 1.00		U		MER1-	1799-18	3		
Analyte		CAS No.	Duplicate (mg/L)				ample (mg/L)	Prec RPD	ision Q ¹	Limits (%)		

ND

¹Qualifier 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.

Mercury

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

7439-97-6

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Quality Control Results Matrix Spike Sample (MS) Job Number: 14120155

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 Fact	tor 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

		Sample	Added	MS	MS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	(mg/L)	% Rec.	\mathbf{Q}^{T}	(%)	
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	

¹Qualifier 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.



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:	ICP2-1428-147	EPA 6010C/TCLP 1311	12/12/2014 16:17	LMS	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 Fact	or Flags	File		
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1	428-147	
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1	428-147	
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1	428-147	
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1	428-147	
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1	428-147	
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1	428-147	
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1	428-147	
							Prec	ision	
			Dupl	icate		Sample			Limits
Analyte		CAS No.	(mg			(mg/L)	RPD	\mathbf{Q}^{1}	(%)
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

¹Qualifier 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.

Quality Control Samples (Lab)



Quality Control Results Method Blank Job Number: 14120155

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 13	11 12/11/2014 09:49	ТЈН	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
1,1-Dichloro	oethene	75-35-4	ND	10.0	10.0	U	MS10-318-6
1,2-Dichloro	oethane	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 Tetr	achloride	56-23-5	ND	10.0	10.0	U	MS10-318-6
Chlorobenze	ene	108-90-7	ND	10.0	0.0 10.0		MS10-318-6
Chloroform		67-66-3	ND	10.0	10.0	U	MS10-318-6
Tetrachloroe	ethene	127-18-4	ND	10.0	10.0	U	MS10-318-6
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-318-6
Vinyl Chlor	ide	75-01-4	ND	10.0	10.0	U	MS10-318-6
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(0)	\mathbf{Q}^1	File ID
4-Bromoflue	orobenzene	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-Dichloro	oethane-d4	17060-07-0	98.1	79.9-120			MS10-318-6
Qualifier colun	nn where '*' denotes	s value outside the control limits or 'D' de	enotes 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.



Quality Control Results Lab Control Sample (LCS) Job Number: 14120155

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	
	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.	$\mathbf{Q}^{1} \begin{array}{l} \mathbf{Limits} \\ \mathbf{Q}^{0} (\mathbf{\%}) \end{array}$	
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)

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

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{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

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14120155

Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Method Blank (AR47021B) Lab Sample ID: SBLK-04

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

Collection Date: N/A

$\begin{array}{c c c c c c c c c c c c c c c c c c c $				-				
Prep I: 2974 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 2,4-5-Trichlorophenol 88-06-2 ND 50.0 1.00 U MS09-495-4 2,4-5-Trichlorophenol 88-06-2 ND 50.0 1.00 U MS09-495-4 4,exachlorobenzene 121-14-2 ND 50.0 1.00 U MS09-495-4 Hexachlorobutadiene 87-68-3 ND 50.0 1.00 U MS09-495-4 Hexachlorobutadiene 67-72-1 ND 50.0 1.00 U MS09-495-4 Nitrobenzene 98-95-3 ND </td <td></td> <td>Batch ID</td> <td>Method</td> <td>Date</td> <td>Analyst</td> <td>Init Wt./Vol.</td> <td>Final Vol.</td> <td>Column</td>		Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
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 4.xachlorobenzene 118-74-1 ND 50.0 1.00 U MS09-495-4 Hexachlorobenzene 118-74-1 ND 50.0 1.00 U MS09-495-4 Hexachlorobenzene 87-68-3 ND 50.0 1.00 U MS09-495-4 Hexachlorobutadiene 67-72-1 ND 50.0 1.00 U MS09-495-4 Mcxachloroethane 67-72-1 ND 50.0 1.00 U MS09-495-4 Nitrobenzene 98-95-3 ND	2							
1.4-Dichlorobenzene106-46-7ND 50.0 1.00 UMS09-495-42,4,5-Trichlorophenol95-95-4ND 50.0 1.00 UMS09-495-42,4-Dinitrotoluene121-14-2ND 50.0 1.00 UMS09-495-42,4-Dinitrotoluene121-14-2ND 50.0 1.00 UMS09-495-4Hexachlorobenzene118-74-1ND 50.0 1.00 UMS09-495-4Hexachlorobutadiene87-68-3ND 50.0 1.00 UMS09-495-4Hexachlorobthadiene67-72-1ND 50.0 1.00 UMS09-495-4Mchorlylphenol108-39-4/106-44-5ND 50.0 1.00 UMS09-495-4Nitrobenzene98-95-3ND 50.0 1.00 UMS09-495-4Nitrobenzene98-95-3ND 50.0 1.00 UMS09-495-4Pentachlorophenol87-86-5ND 50.0 1.00 UMS09-495-4Pyridine110-86-1ND 50.0 1.00 UMS09-495-42.4.6-Tribromophenol118-79-6122 $22.8-161$ MS09-495-42.4.6-Tribromophenol367-12-446.3 $10.0-86.4$ MS09-495-42.Fluorobiphenyl321-60-8 90.2 $26.3-121$ MS09-495-42.Fluorophenol367-12-446.3 $10.0-86.4$ MS09-495-42.Fluorophenol367-12-446.3 $10.0-86.4$ MS09-495-42.Fluorophenol367-12-446.3	Prep 1:	29746	EPA 3510C	12/12/2014 09:00	KEN	200 mL	1.00 mL	NA
2,4,5-Trichlorophenol $95-95-4$ ND 50.0 1.00 UMS09-495-4 $2,4,6$ -Trichlorophenol $88-06-2$ ND 50.0 1.00 UMS09-495-4 $2,4$ -Dinitrotoluene $121-14-2$ ND 50.0 1.00 UMS09-495-4Hexachlorobenzene $118-74-1$ ND 50.0 1.00 UMS09-495-4Hexachlorobutadiene $87-68-3$ ND 50.0 1.00 UMS09-495-4Hexachlorobthane $67-72-1$ ND 50.0 1.00 UMS09-495-4Mcbrothylphenol $108-39-4/106-44-5$ ND 50.0 1.00 UMS09-495-4Nitrobenzene $98-95-3$ ND 50.0 1.00 UMS09-495-4o-Methylphenol $95-48-7$ ND 50.0 1.00 UMS09-495-4o-Methylphenol $95-48-7$ ND 50.0 1.00 UMS09-495-4Pentachlorophenol $87-86-5$ ND 50.0 1.00 UMS09-495-4Pyridine $110-86-1$ ND 50.0 1.00 UMS09-495-42,4,6-Tribromophenol $118-79-6$ 122 $22.8-161$ $MS09-495-4$ 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-Fluorobiphenyl $321-60-8$ 90.2 $26.3-121$ $MS09-495-4$ 2-Fluorobiphenyl $367-12-4$ 46.3 $10.0-86.4$ $MS09-495-4$ <td< td=""><td>Analyte</td><td></td><td>CAS No.</td><td>Result (ug/L)</td><td>PQL</td><td>Dilution Fact</td><td>or Flags</td><td>File ID</td></td<>	Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID
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 2,4,6-Tribromophenol 118-79-6 122 22.8-161 MS09-495-4 2-Fluorobiphenyl 321-60-8 90.2 26.3-121 MS09-4	1,4-Dichloro	obenzene	106-46-7	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 Hexachlorobutadiene 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 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	2,4,5-Trichle	orophenol	95-95-4	ND	50.0	1.00	U	MS09-495-4
Hexachlorobenzene118-74-1ND 50.0 1.00 UMS09-495-4Hexachlorobutadiene $87-68-3$ ND 50.0 1.00 UMS09-495-4Hexachloroethane $67-72-1$ ND 50.0 1.00 UMS09-495-4m&p-Methylphenol $108-39-4/106-44-5$ ND 50.0 1.00 UMS09-495-4Nitrobenzene $98-95-3$ ND 50.0 1.00 UMS09-495-4o-Methylphenol $95-48-7$ ND 50.0 1.00 UMS09-495-4Pentachlorophenol $87-86-5$ ND 50.0 1.00 UMS09-495-4Pyridine $110-86-1$ ND 50.0 1.00 UMS09-495-42,4,6-Tribromophenol $118-79-6$ 122 $22.8-161$ MS09-495-42-Fluorobiphenyl $321-60-8$ 90.2 $26.3-121$ MS09-495-42-Fluorobiphenyl $321-60-8$ 90.2 $26.3-121$ MS09-495-42-Fluorobiphenyl $367-12-4$ 46.3 $10.0-86.4$ MS09-495-42-Fluorobiphenyl $367-12-4$ 46.3 $10.0-86.4$ MS09-495-4Nitrobenzene-d5 $4165-60-0$ 91.4 $12.7-139$ MS09-495-4	2,4,6-Trichle	orophenol	88-06-2	ND	50.0	1.00	U	MS09-495-4
Hexachlorobutadiene $87-68-3$ ND 50.0 1.00 UMS09-495-4Hexachloroethane $67-72-1$ ND 50.0 1.00 UMS09-495-4m&p-Methylphenol $108-39-4/106-44-5$ ND 50.0 1.00 UMS09-495-4Nitrobenzene $98-95-3$ ND 50.0 1.00 UMS09-495-4o-Methylphenol $95-48-7$ ND 50.0 1.00 UMS09-495-4Pentachlorophenol $87-86-5$ ND 50.0 1.00 UMS09-495-4Pyridine $110-86-1$ ND 50.0 1.00 UMS09-495-42,4,6-Tribromophenol $118-79-6$ 122 $22.8-161$ MS09-495-42-Fluorobiphenyl $321-60-8$ 90.2 $26.3-121$ MS09-495-42-Fluorophenol $367-12-4$ 46.3 $10.0-86.4$ MS09-495-42-Fluorophenol $367-12-4$ 46.3 $10.0-86.4$ MS09-495-4Nitrobenzene-d5 $4165-60-0$ 91.4 $12.7-139$ MS09-495-4	2,4-Dinitrote	oluene	121-14-2	ND	50.0	1.00	U	MS09-495-4
Hexachloroethane $67-72-1$ ND 50.0 1.00 UMS09-495-4m&p-Methylphenol $108-39-4/106-44-5$ ND 50.0 1.00 UMS09-495-4Nitrobenzene $98-95-3$ ND 50.0 1.00 UMS09-495-4o-Methylphenol $95-48-7$ ND 50.0 1.00 UMS09-495-4Pentachlorophenol $87-86-5$ ND 50.0 1.00 UMS09-495-4Pyridine $110-86-1$ ND 50.0 1.00 UMS09-495-4Limits 2,4,6-Tribromophenol $118-79-6$ 122 $22.8-161$ MS09-495-42,4,6-Tribromophenol $118-79-6$ 90.2 $26.3-121$ MS09-495-42-Fluorobiphenyl $321-60-8$ 90.2 $26.3-121$ MS09-495-42-Fluorophenol $367-12-4$ 46.3 $10.0-86.4$ MS09-495-4Terphenyl-d14 $1718-51-0$ 123 $33.7-154$ MS09-495-4Nitrobenzene-d5 $4165-60-0$ 91.4 $12.7-139$ MS09-495-4	Hexachlorob	penzene	118-74-1	ND	50.0	1.00	U	MS09-495-4
m&p-Methylphenol $108-39-4/106-44-5$ ND 50.0 1.00 UMS09-495-4Nitrobenzene $98-95-3$ ND 50.0 1.00 UMS09-495-4o-Methylphenol $95-48-7$ ND 50.0 1.00 UMS09-495-4Pentachlorophenol $87-86-5$ ND 50.0 1.00 UMS09-495-4Pyridine $110-86-1$ ND 50.0 1.00 UMS09-495-4LimitsSurrogateCAS No.% Recovery(%)Q ¹ File ID $2,4,6$ -Tribromophenol $118-79-6$ 122 $22.8-161$ MS09-495-4 $2,Fluorobiphenyl321-60-890.226.3-121MS09-495-42-Fluorophenol367-12-446.310.0-86.4MS09-495-42-Fluorophenol367-12-446.310.0-86.4MS09-495-4Nitrobenzene-d54165-60-091.412.7-139MS09-495-4$	Hexachlorob	outadiene	87-68-3	ND	50.0	1.00	U	MS09-495-4
Nirobenzer98-95-3ND 50.0 1.00 UMS09-495-4o-Methylphenol95-48-7ND 50.0 1.00 UMS09-495-4Pentachlorophenol87-86-5ND 50.0 1.00 UMS09-495-4Pyridine110-86-1ND 50.0 1.00 UMS09-495-4LimitsSurrogateCAS No.% Recovery(%)Q ¹ File ID2,4,6-Tribromophenol118-79-612222.8-161MS09-495-42-Fluorobiphenyl321-60-890.226.3-121MS09-495-42-Fluorophenol367-12-446.310.0-86.4MS09-495-42-Fluorophenol367-12-446.310.0-86.4MS09-495-4Terphenyl-d141718-51-012333.7-154MS09-495-4Nitrobenzene-d54165-60-091.412.7-139MS09-495-4	Hexachloroe	ethane	67-72-1	ND	50.0	1.00	U	MS09-495-4
Nitrobenzene $98-95-3$ ND 50.0 1.00 UMS09-495-4o-Methylphenol $95-48-7$ ND 50.0 1.00 UMS09-495-4Pentachlorophenol $87-86-5$ ND 50.0 1.00 UMS09-495-4Pyridine $110-86-1$ ND 50.0 1.00 UMS09-495-4LimitsSurrogateCAS No.% Recovery(%)Q ¹ File ID $2,4,6$ -Tribromophenol $118-79-6$ 122 $22.8-161$ MS09-495-4 $2-Fluorobiphenyl321-60-890.226.3-121MS09-495-42-Fluorophenol367-12-446.310.0-86.4MS09-495-4Terphenyl-d141718-51-012333.7-154MS09-495-4Nitrobenzene-d54165-60-091.412.7-139MS09-495-4$	m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-495-4
Pentachlorophenol $87-86-5$ ND 50.0 1.00 UMS09-495-4Pyridine $110-86-1$ ND 50.0 1.00 UMS09-495-4SurrogateCAS No.% Recovery(%)Q ¹ File ID $2,4,6$ -Tribromophenol $118-79-6$ 122 $22.8-161$ MS09-495-4 $2-Fluorobiphenyl321-60-890.226.3-121MS09-495-42-Fluorophenol367-12-446.310.0-86.4MS09-495-4Terphenyl-d141718-51-012333.7-154MS09-495-4Nitrobenzene-d54165-60-091.412.7-139MS09-495-4$	Nitrobenzen	e	98-95-3	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 (%) 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 2-Fluorophenol 367-12-4 46.3 10.0-86.4 MS09-495-4 Yerphenyl-d14 1718-51-0 123 33.7-154 MS09-495-4 Nitrobenzene-d5 4165-60-0 91.4 12.7-139 MS09-495-4	o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS09-495-4
SurrogateCAS No.% Recovery(%)Q1File ID2,4,6-Tribromophenol118-79-612222.8-161MS09-495-42-Fluorobiphenyl321-60-890.226.3-121MS09-495-42-Fluorophenol367-12-446.310.0-86.4MS09-495-42-Fluorophenol367-12-446.310.0-86.4MS09-495-4Terphenyl-d141718-51-012333.7-154MS09-495-4Nitrobenzene-d54165-60-091.412.7-139MS09-495-4	Pentachloro	ohenol	87-86-5	ND	50.0	1.00	U	MS09-495-4
SurrogateCAS No.% Recovery(%)Q1File ID2,4,6-Tribromophenol118-79-612222.8-161MS09-495-42-Fluorobiphenyl321-60-890.226.3-121MS09-495-42-Fluorophenol367-12-446.310.0-86.4MS09-495-4Terphenyl-d141718-51-012333.7-154MS09-495-4Nitrobenzene-d54165-60-091.412.7-139MS09-495-4	Pyridine	•	110-86-1	ND	50.0	1.00	U	MS09-495-4
SurrogateCAS No.% Recovery(%)Q1File ID2,4,6-Tribromophenol118-79-612222.8-161MS09-495-42-Fluorobiphenyl321-60-890.226.3-121MS09-495-42-Fluorophenol367-12-446.310.0-86.4MS09-495-4Terphenyl-d141718-51-012333.7-154MS09-495-4Nitrobenzene-d54165-60-091.412.7-139MS09-495-4					Lin	nits		
2-Fluorobiphenyl321-60-890.226.3-121MS09-495-42-Fluorophenol367-12-446.310.0-86.4MS09-495-4Terphenyl-d141718-51-012333.7-154MS09-495-4Nitrobenzene-d54165-60-091.412.7-139MS09-495-4	Surrogate		CAS No.	% Recovery			\mathbf{Q}^{1}	File ID
2-Fluorophenol367-12-446.310.0-86.4MS09-495-4Terphenyl-d141718-51-012333.7-154MS09-495-4Nitrobenzene-d54165-60-091.412.7-139MS09-495-4	2,4,6-Tribro	mophenol	118-79-6	122	22.8	-161		MS09-495-4
Terphenyl-d141718-51-012333.7-154MS09-495-4Nitrobenzene-d54165-60-091.412.7-139MS09-495-4								
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		e-d5						
Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.	Phenol-d6		13127-88-3	33.3	10.0-87.4			MS09-495-4

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 Results Lab Control Sample (LCS) Job Number: 14120155

Client: BARTON AND LOGUIDICECollection Date: N/AProject: ALCOSample Matrix: TCLPClient Sample ID: Lab Control Sample (AR47021L)Received Date: N/ALab Sample ID: LCS-04Percent 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	131112/15/2014 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.	\mathbf{Q}^{1} (%)	
· 1		(8)	,		- ()	
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	

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

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{T} 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

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14120155

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 Fact	or 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 Am	ount > RL	1336-36-3	ND		1.00	U	GC10F-1296-4
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	b)	\mathbf{Q}^{1}	File ID
Tetrachloro-me	eta-xylene	877-09-8	88.8	60.0	-140		GC10F-1296-4
Decachlorobip		2051-24-3	90.9	60.0	-140		GC10F-1296-4

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 Results Lab Control Sample (LCS) Job Number: 14120155

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	Dat	e	Analy	vst In	it Wt./Vo	ol. Final Vol.	Column
Analysis 1: Prep 1:	GC10F-1296-5 29769	SW-846 8082A (PCB) EPA 3545A	12/17/2014 12/16/2014		JKA DSD		NA 10.5 g	NA 25.0 mL	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm NA
Analyte Sp	oiked	CAS No.	Added (ug/g)	LC (ug		LCS % Rec.	\mathbf{Q}^{1}	Limits (%)	
Aroclor 1242 53469-21-9 Qualifier column where '*' denotes value outside the control limits. Note: RPE			1.19 Criteria does no	1.10			nd duplicate	70.0-130	ted
Quanner coluin	in where denotes	value outside the control limits, Note. Ki E	ernerna does no	i appiy i		Limits		sample are not detee	

			Limits	1						
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{I} 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 val	Qualifier column where '*' denotes value outside the control limits or 'D' denotes value was diluted.									

Quantier column where a denotes value outside the control minus of D denotes value was di

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 Results Method Blank Job Number: 14120155

Project: Al Client Sam	LCO	LOGUIDICE od Blank (AR47021B) -54		Sample Receive	on Date: N/A Matrix: TCLP d Date: N/A 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 Fact	tor 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.



Quality Control Results Lab Control Sample (LCS) Job Number: 14120155

Project: A Client Sar		Control Sample (AR47021L)		Collection Date: N/A Sample Matrix: TCLP Received Date: N/A Percent Solid: N/A					
Analysis 1:	Batch ID MER1-1799-17	Method SW-846 7470/TCLP 1311	Date 12/15/2014	-	Analyst CYC	Init	t Wt./V	Vol. Final Vol. NA	Column
Prep 1:	5281	EPA 7470A	12/12/2014	09:46	CYC	2	4.00 mL	40.0 mL	NA
Analyte S	piked	CAS No.	Added (mg/L)	LC (mg/		CS Rec.	\mathbf{Q}^{1}	Limits (%)	
Mercury		7439-97-6	0.0300	0.036	5 1	22	*	80.0-120	

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14120155

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 Fact	or 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.



Quality Control Results Lab Control Sample (LCS) Job Number: 14120155

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
Ar	nalysis 1:	ICP2-1428-144	EPA 6010C/TCLP 1311	12/12/2014 16:09	LMS	NA	NA	NA
Pro	ep 1:	5280	EPA 3005A	12/12/2014 10:34	CYC	10.0 mL	50.0 mL	NA

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	% Rec.	\mathbf{Q}^{T}	(%)	
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	

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

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575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

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

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.

Lab No. : 1412665-001

Client Sample ID: D-07

Sample Information:

Type : Soil

Origin:

Analytical Method:	SW1311/8151A :	Prep Method:	SW1311/8151		Prep I	<u>Date:</u> 12/12/2014 11:16:34 AM	Analyst: MJM
Parameter(s)	<u>Results</u> <u>C</u>	<u>ualifier</u> <u>D.F.</u>	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 I	Date: 12/15/2014 2:15:17 PM	Analyst: JS
Parameter(s)	<u>Results</u> C	<u>ualifier</u> <u>D.F.</u>	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: Decachlorobipl	nenyl 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

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

Date Reported : 12/16/2014

addin Attchingon

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.

Page 1 of 7

Pace Analytical Services, Inc.



575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

						10478							
Analysis:	HERBICID	ES, TCLI	P Leach	ned					١	VorkOrder		141266	5
Method:	1311_H								L	ab Batch	ID:	47406	
	Method	Blank											
RunID: 66432	SeqN	lo 14436	605	Units:	mg/L								
Analysis Date: 12/	4/2014 6:54	:34 PM		Analy	st: MJM								
Analyte)	Resu	lt Rep	p Limit	Rep Qua	al							
Surr: DCAA		0.0)57	0									
RunID: 66432	•	lo 14430		Units	mg/L st: MJM								
RunID: 66432	SeqN 4/2014 7:10	lo 14430		Units: Analy	st: MJM LCS % Recovery	LCSD Spike Added	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
RunID: 66432 Analysis Date: 12/	SeqN 4/2014 7:10	lo 14436):17 PM LCS Spike	606 LCS Re	Units: Analy	st: MJM LCS % Recovery	Spike					-	Limit	Qual
RunID: 66432 Analysis Date: 12/ Analyte Surr: DCAA <u>Matrix Spike (1</u> Sample Spiked: 1	SeqN 4/2014 7:10 MS) / Matrix 1411H45-00	lo 14436 D:17 PM LCS Spike Added 0.1000	LCS Re	Units: Analy esult .053	st: MJM LCS % Recovery 52.9	Spike					Limit	Limit	Qual
RunID: 66432 Analysis Date: 12/ Analyte Surr: DCAA	SeqN 4/2014 7:10 MS) / Matrix 1411H45-00 SeqN	lo 14436):17 PM LCS Spike Added 0.1000 (CSpike D) 3C lo 14436	LCS Re	Units: Analy esult 5.053 e (MSD Units:	st: MJM LCS % Recovery 52.9	Spike					Limit	Limit	Qual

Analyte	Sample Result	-	MS Result	MS % Recovery	Low Limit	High Limit	MSD Spike Added	 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	В	Analyte detected in the associated Method Blank
	D	Dilution was required.	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	М	Manual Integration used to determine area response	Ν	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	0	RSD is greater than RSDlimit
	PL	Permit Limit	RL	Reporting Detection Limit



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 % 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 Result	MS % Recovery	Low Limit	High Limit	MSD Spike Added	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							

Qualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	D	Dilution was required.	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	М	Manual Integration used to determine area response	Ν	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	0	RSD is greater than RSDlimit
	PL	Permit Limit	RL	Reporting Detection Limit



575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: PESTICIDES, TCLP Leach		ed		WorkOrder:				1412665			
Method:		1311_P							Lab Batch ID:	47605	
		Method Bl	ank_								
RunID:	66888	SeqNo	1454394	Units:	mg/L						
Analysis	Date: 12	/15/2014 7:49:2	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	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

- D Dilution was required.
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- PL Permit Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit
- RL Reporting Detection Limit

12



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

Matr	ix Spike	(MS) / Matrix S	pike Duplic	ate (MSD)	
Sample	Spiked:	1412840-001a			
RunID [.]	66888	SeaNo	1454401	Units:	r

RunID:	66888	SeqNo	1454401	Units:	mg/L
Analysis	Date: 12/	/15/2014 10:16	:58 PM	Analyst:	JS

Analyte	Sample Result			MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	0	0008000	0.00052	65.0	58	124							
Heptachlor	0	008000	0.00053	66.4	61	110							
Heptachlor epoxide	0	008000	0.00057	71.6	52	131							
Endrin	0	008000	0.00063	79.1	57	147							
Methoxychlor	0	008000	0.0020	92.9	51	124							
Surr: Tetrachloro-m-xylene		004000	0.00033	81.8	30	150							
Surr: Decachlorobiphenyl		004000	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	-	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	В	Analyte detected in the associated Method Blank
	D	Dilution was required.	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	М	Manual Integration used to determine area response	Ν	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	0	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: <u>www.pacelabs.com</u>

Sample Receipt Checklist

1		Website.	<u>n n n.p</u> t	<u>acertaos.com</u>		
Client Name PACE-NY				Date and	Time Received:	12/9/2014 11:00:00 AM
Work Order Number: 141	2665 RcptNo: 1			Received	by: Jamie Sper	0
Completed by:	win for		Revi	ewed by:	Jempy	ar
Completed Date: <u>12/</u>	9/2014 12:33:19 PM		Revi	ewed Date:	<u>12/14/2014</u>	10:14:07 PM
Carrier name: FedEx						
Chain of custody present? Chain of custody signed who	en relinquished and received?	Yes Yes	✓	No 🗌 No 🗌		
Chain of custody agrees wit Are matrices correctly identi	•	Yes Yes	✓	No 🗌 No 🗌		
Is it clear what analyses were Custody seals intact on same	•	Yes Yes		No 🗌 No 🗌	Not Present	
Samples in proper container Were correct preservatives	used and noted?	Yes Yes		No 🗌 No 🗌	NA	
Preservative added to bottle Sample Condition? Sufficient sample volume fo Were container labels comp	r indicated test? lete (ID, Pres, Date)?	Intact Yes Yes		Broken D No D No D	Leaking	
All samples received within Was an attempt made to co All samples received at a te	ol the samples? mp. of > 0° C to 6.0° C?	Yes Yes Yes	✓ ✓ ✓	No 🗌 No 🗍 No 🗌	NA NA	
Response when temperatur Sample Temp. taken and re Water - Were bubbles abse Water - Was there Chlorine Water - pH acceptable upor Are Samples considered ac	corded upon receipt? nt in VOC vials? Present? receipt?	Yes Yes Yes Yes Yes		No No No No	To 5 No Vials NA No Water	3° ▼ ▼
Custody Seals present? Airbill or Sticker? Airbill No:		Yes Air Bill 62314		No 🗹 Sticker 🗌	Not Present	
Case Number:	SDG:		S	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:		Cor	ntacted By:	
Regarding:				
Comments:				
CorrectiveAction:				



575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

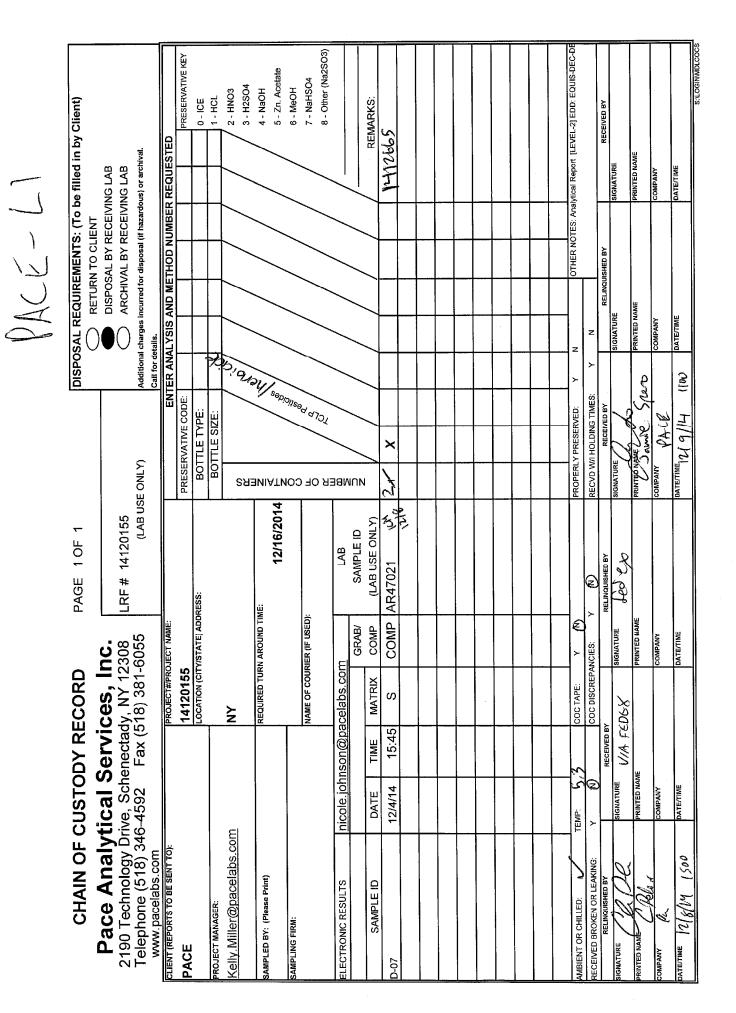
WorkOrder :

1412665

Certifications

S TATE	CERTIFICATION #
NEW YOR K	10478
NEWJERSEY	NY1 58
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS ETTS	M-NY026
NEW HAMPS HIRE	2987
R HODE IS LAND	LAO00340
PENNS YLVANIA	68-00350

Page 7 of 7



12



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)

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.

Ian Pfelger

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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Section 6: GC/MS Semivolatiles	
Section 7: GC - PCB	
Section 8: Mercury	
Section 9: Metals - ICP	
Section 10: Quality Control Samples (Field)	
Section 11: Quality Control Samples (Lab)	
Section 12: Subcontract Analysis	

12

3

4

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:

S:\Lims Data\1412\14120180\Package\CN_14120180_Rev00.doc

(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

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 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 – 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



New York Offic 2190 Technolo Schenectady, I (518) 346-45



alytical Request Document

Section A Required Client Information:	Section B Required Proj	ect info	rmation:		Section	C										•								age:	1	of	1
Company: Barton and Loguidice DPC	Report To: Ar				Attentio		ccoun	ts P	ayable	•			7						REG	JLA [.]	TOF	RY AG	ENC	Ϋ́			
Address: 10 Airline Drive, Suite 200	Copy To: Na	than S	haffer		Compan	y Name: B	arton	and	Logui	dice,	DPC	;	1	-	NPDE	s	G	ROUN				DF	_		TER		
Albany, NY 12205					Address				is Road,	Box 3	107		┥		UST		E RC	CRA				П этн	ER				
Email To: nshaffer@bartonandloguidice.com	Purchase				Pace Quo	te Reference:	racuse 1 000	0149					-			SITE				G				N			
Phone: 518-218-1801 Fax: 518-218-1805	Order No.: Project Name:	ALC	0		Pace Proje	ect Manager:	Kel	ly Mi	iller				1		1 I	OCAT				- o					т этн		
Requested Standard Due Date/TAT:	Project Number:	1368	3.001.001		Pace Pro	file #:		-						Filte	red (Y/			///	17	$\overline{7}$	77	77	77	$\overline{7}$	777	17.	
Section D Valid Matrix Codes Required Client Information MATRIX C	ODE	đ		COLL	ECTED	Ļ	ss		~	Prese	rvative	s		Req	uested	(iii)	1//	f/	17	17	77	+	//	\uparrow	///	7	
Contraction Contracti	DW TAN P SI O DY AN AN AN AN AN AN AN AN AN AN AN AN AN	SAMPLE TYPE G=GRAB C=COMP	COM ST	APOSITE ART	COMPC END/G		# OF CONTAINERS	Unpreserved						Anal	lysis:			 		 					Chlonine (YN)	/	
Sample IDs MUST BE UNIQUE AR TISSUE	TS		DATE	TIME	DATE				H ₂ SO ₄	Ê I	NaOH	Na ₂ S ₂ O ₃ Methanol	Other	1	* //	[]]	[[4	[]				[[Residu	/	Pace	Project No. Lab I.D.
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8										-				•								Π			Re	asl	et
9					•																	\square			He	rbt	set
10																								·			
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																			-						٨ï٧	N) X	Ν'λ
				PRINT	Name of S	AND SIGN	ATUR De	E H	a	_ <	$\overline{\mathcal{D}}$	M	4-	Ľ	ð				/	Δ				Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
				SIGNAT	URE of S	AMPLER:	1L	À	X	Ĺ	-0				DA (M	TE Sign M / DD /	ed YY): /	'2	8/	2	22,	Z		e e	Re	Seal	Ś

Pace Anal	vtica	d [°]	Sa	mple Co	ndition L	lpon Recei	ipt	141201002	
A CONTRACT OF A CONTRACTACT OF A CONTRACT OF A						CLIENT NAME		B+L	
•						PROJECT :		ALCO	
TRACKING # <u>N/A</u> PACKING MATERIAL: Bubble Wrap D	ent କ୍ଟ Bubble Bag in 03ୀକ୍ଷ No 🗆		Other DY SEAL PRES None 중 7967 ㅁ		No br COOLER TE COMMENT	ICE USED: We MPERATURE (Temp should b	to "C):	No ロ Blue ロ ムノン・ム ve freezing to (N/A 🗟 None 🗆
ol i Custado Bracanti			·	1.			<u></u>		<u> </u>
Chain of Custody Present:	K Yes	<u>□</u> No		2. ~		,			
Chain of Custody Filled Out:	NYes .	No					·····		<u> </u>
Chain of Custody Relinquished:	Yes	N₀		3.				· · · · · · · · · · · · · · · · · · ·	
Sampler Name / Signature on COC:	X Yes	□No		4. r		· · · · · · · · · · · · · · · · · · ·		*	*
Samples Arrived within Hold Time:	Yes	□ No		5.				. 1	
Short Hold Time Analysis (<72hr):	Yes	IN NO	`	6.					
Rush Turn Around Time Requested:	□ Yes	10 No	·	7.					
Sufficient Volume:	Yes	□No		8.	·····				······································
Correct Containers Used:	Yes		<u> </u>	9.					······································
- Pace Containers Used:	∷⊡Yes	TO NO							
Containers Intact:	Yes			10.					· · · · · · · · · · · · · · · · · · ·
Filtered volume received for Dissolved tests	□Yes	□ No		11.	<u></u>				
Sample Labels match COC: - Includes date/time/ID/Analysis	□Yes	□No		12.	•	· · · ·			
All containers needing preservation have been checked:	Yes	□ No	M/A	13.					
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	Yes	□No	KIN/A	Initial whe completed		<u>·</u>	Lot # c	of added prese	rvative:
Headspace in VOA Vials (>6mm):			B N/A	14.					
rip Blank Present:	□Yes □Yes			15.				<u></u>	-
Trip Blank Custody Seals Present: Pace Trip Blank Lot #: /	⊡ Yes								. • •
Sample Receipt form filled in: <u>ASB 12</u>	9/19	Log in (i	ncludes notif	ying PM of a	ny discrepac	nts and verifyin ties and docum ing LAB IDs inte	enting	in LIMS):	AJB 12/9/ AJB 12/9/ AJB 12/9/1

Pace Analyor http://www.FORM_052914_Rev01_01

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<u><14120180P2></u>

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 SHIPPING ID: N. SHAFFER/ B&L NUMBER OF COOLERS: 1 CUSTODY SEAL INTACT: NA COOLER STATUS: CHILLED TEMPERATURE(S): ⁵4.2 (IR) °C

SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,}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	

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.

²The 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. ³Samples 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. 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.

⁵All 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)	EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)
Arsenic	1,1-Dichloroethene
Barium	1,2-Dichloroethane
Cadmium	2-Butanone
Chromium	Benzene
Lead	Carbon Tetrachloride
Selenium	Chlorobenzene
Silver	Chloroform
	Tetrachloroethene
EPA 7470A - Mercury Analysis (TCLP) - (mg/L)	Trichloroethene
Mercury	Vinyl Chloride
EPA 8082A - PCB Analysis - (ug/g)	EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)
Aroclor 1016	1,4-Dichlorobenzene
Aroclor 1221	2,4,5-Trichlorophenol
Aroclor 1232	2,4,6-Trichlorophenol
Aroclor 1242	2,4-Dinitrotoluene
Aroclor 1248	Hexachlorobenzene
Aroclor 1254	Hexachlorobutadiene
Aroclor 1260	Hexachloroethane
Total PCB Amount > RL	m&p-Methylphenol
	Nitrobenzene
	o-Methylphenol
	Pentachlorophenol

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Pyridine

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2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055

GC/MS Volatiles



Job Number: 14120180

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 1	311 12/11/2014 15:46	ТЈН	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm	
Analyte		CAS No./IUPAC	Result (ug/L)	PQL	Dilution Fact	or 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	
Trichloroethe	ene	79-01-6	ND	10.0	10.0	U	MS10-318-19	
Vinyl Chlorid	le	75-01-4	ND	10.0	10.0	U	MS10-318-19	
				Lin	nits			
Surrogate		CAS No.	% Recovery	(%	b)	\mathbf{Q}^1	File ID	
I-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 Qualifier column where '*' denotes		17060-07-0	112	79.9-120			MS10-318-19	

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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December 18, 2014

GC/MS Semivolatiles



Job Number: 14120180

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 M	lethod 131112/12/2014 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 Facto	or 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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%)		\mathbf{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 Qualifier column where '*' denotes		13127-88-3	29.9	10.0-87.4			MS09-490-45

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 - PCB



Analytical Sample Results

Job Number: 14120180

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.

Bate	h ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC10F	F-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 Fact	tor 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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	()	\mathbf{Q}^{1}	File ID
Tetrachloro-meta-xy	lene	877-09-8	82.4	60.0	-140		GC10F-1296-6
Decachlorobiphenyl		2051-24-3	80.6	60.0	-140		GC10F-1296-6

¹Qualifier 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.

Mercury



Job Number: 14120180

Project: A Client San	LCO nple ID: D-08	LOGUIDICE 0180-01 (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 Fact	tor 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.

Metals - ICP



Job Number: 14120180

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 Fact	tor 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)



Quality Control Results Matrix Spike Sample (MS) Job Number: 14120180

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 Fact	tor 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

		Sample	Added	MS	MS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	(mg/L)	% Rec.	\mathbf{Q}^{T}	(%)	
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	

¹Qualifier 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.



Quality Control Results Duplicate Sample Job Number: 14120180

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	l
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 Fact	or Flags	File	ID	
Arsenic		7440-38-2	ND	0.500	1.00	U	ICP2-1	428-29	
Barium		7440-39-3	ND	1.00	1.00	U	ICP2-1	428-29	
Cadmium		7440-43-9	ND	0.100	1.00	U	ICP2-1	428-29	
Chromium		7440-47-3	ND	0.500	1.00	U	ICP2-1	428-29	
Lead		7439-92-1	ND	0.500	1.00	U	ICP2-1	428-29	
Selenium		7782-49-2	ND	0.250	1.00	U	ICP2-1	428-29	
Silver		7440-22-4	ND	0.500	1.00	U	ICP2-1	428-29	
							Prec	ision	
			Dupl	icate		Sample			Limits
Analyte		CAS No.	(mg			(mg/L)	RPD	\mathbf{Q}^{I}	(%)
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

¹Qualifier 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.

Quality Control Samples (Lab)



Quality Control Results Method Blank Job Number: 14120180

Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Method Blank (AR47021B-ZHE) Lab Sample ID: VBLK-98

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

Collection Date: N/A

	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column	
Analysis 1:	MS10-318-6	EPA 8260C - TCLP-ZHE SW-846 1	311 12/11/2014 09:49	ТЈН	NA	NA	Restek, Rtx-VMS, 40 m, 0.18 mm ID, 1.00 µm	
Analyte		CAS No./IUPAC	Result (ug/L)	PQL	Dilution Fact	or Flags	File ID	
1,1-Dichloro	ethene	75-35-4	ND	10.0	10.0	U	MS10-318-6	
1,2-Dichloro	oethane	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 Tetra	achloride	56-23-5	ND	10.0	10.0	U	MS10-318-6	
Chlorobenze	ene	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	
Tetrachloroe	thene	127-18-4	ND	10.0	10.0	U	MS10-318-6	
Trichloroeth	ene	79-01-6	ND	10.0	10.0	U	MS10-318-6	
Vinyl Chlori	de	75-01-4	ND	10.0	10.0	U	MS10-318-6	
				Lin	nits			
Surrogate		CAS No.	% Recovery	(%	(0)	\mathbf{Q}^{1}	File ID	
4-Bromofluc	orobenzene	460-00-4	104	76.0	-128		MS10-318-6	
Dibromofluc	oromethane	1868-53-7	103	73.6	-132		MS10-318-6	
Toluene-d8		2037-26-5	104	84.4	-115		MS10-318-6	
1,2-Dichloro		17060-07-0	98.1	79.9	-120		MS10-318-6	
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.



Quality Control Results Lab Control Sample (LCS) Job Number: 14120180

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.	$\mathbf{Q}^{1} \begin{array}{c} \mathbf{Limits} \\ \mathbf{Q}^{0} \\ \mathbf{(\%)} \end{array}$	
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)

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.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{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

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14120180

Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Method Blank (AR47065B) Lab Sample ID: SBLK-01

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

Collection Date: N/A

T							
	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS09-490-41	SW-846 8270D/TCLP Extraction M	ethod 131112/12/2014 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 Fact	tor Flags	File ID
1,4-Dichlor	obenzene	106-46-7	ND	50.0	1.00	U	MS09-490-41
2,4,5-Trichl	orophenol	95-95-4	ND	50.0	1.00	U	MS09-490-41
2,4,6-Trichl	orophenol	88-06-2	ND	50.0	1.00	U	MS09-490-41
2,4-Dinitrot	oluene	121-14-2	ND	50.0	1.00	U	MS09-490-41
Hexachloro	benzene	118-74-1	ND	50.0	1.00	U	MS09-490-41
Hexachloro	butadiene	87-68-3	ND	50.0	1.00	U	MS09-490-41
Hexachloro	ethane	67-72-1	ND	50.0	1.00	U	MS09-490-41
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS09-490-41
Nitrobenzer	-	98-95-3	ND	50.0	1.00	U	MS09-490-41
o-Methylph	enol	95-48-7	ND	50.0	1.00	U	MS09-490-41
Pentachloro		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
				Lin	nite		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
2,4,6-Tribro	mophenol	118-79-6	85.3	22.8	-161		MS09-490-41
2-Fluorobip	henyl	321-60-8	78.2	26.3	-121		MS09-490-41
2-Fluorophe		367-12-4	47.5	10.0-	-86.4		MS09-490-41
Terphenyl-c		1718-51-0	97.2	33.7	-154		MS09-490-41
Nitrobenzer	ne-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

¹Qualifier 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.



Quality Control Results Lab Control Sample (LCS) Job Number: 14120180

Client: BARTON AND LOGUIDICE	Collection Date: N/A
Project: ALCO	Sample Matrix: TCLP
Client Sample ID: Lab Control Sample (AR47065L)	Received Date: N/A
Lab Sample ID: LCS-01	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 131	112/12/2014 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.	\mathbf{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	

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.

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{T} 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

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14120180

Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Method Blank (AR47093B) Lab Sample ID: PBLK-82

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

Collection Date: 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 µ
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 Fact	or 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 Ame	ount > RL	1336-36-3	ND		1.00	U	GC10F-1296-4
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	()	\mathbf{Q}^{1}	File ID
Tetrachloro-me	ta-xylene	877-09-8	88.8	60.0	-140		GC10F-1296-4
Decachlorobiph		2051-24-3	90.9	60.0	-140		GC10F-1296-4

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 Results Lab Control Sample (LCS) Job Number: 14120180

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						
Analysis 1: Prep 1:	Batch ID GC10F-1296-5 29769	Method SW-846 8082A (PCB) EPA 3545A	Dat 12/17/2014 12/16/2014	10:48	Anal JKA DSD	,	nit Wt./Vo NA 10.5 g	l. Final Vol. NA 25.0 mL	Column Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µm NA
Analyte Sp	iked	CAS No.	Added (ug/g)	L((ug		LCS % Rec	1	Limits (%)	
Aroclor 1242 ¹ Qualifier colum	n where '*' denotes	53469-21-9 value outside the control limits. Note: RPE	1.19 criteria does not	1.10 t apply i	f either th	92.8 e sample a		70.0-130 ample are not detec	ted.

			LIIIIIUS			
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{T}	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	

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14120180

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 Fac	tor 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.



Quality Control Results Lab Control Sample (LCS) Job Number: 14120180

Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Lab Control Sample (AR46988L) Lab Sample ID: LCS-47				Colle Samp Recei Perce				
	Batch ID	Method	Date	Analy	st Init	Wt./Vol.		Column
Analysis 1: Prep 1:	MER1-1795-21 5270	SW-846 7470/TCLP 1311 EPA 7470A	12/11/2014 15: 12/10/2014 11:		4	NA 4.00 mL	NA 40.0 mL	NA NA
Analyte Sj	piked	CAS No.			LCS % Rec.	1 -	Limits (%)	
Mercurv		7439-97-6	0.0300 0.	0309	103	8	0.0-120	

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 14120180

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 Fact	tor 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.



Quality Control Results Lab Control Sample (LCS) Job Number: 14120180

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

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	% Rec.	\mathbf{Q}^{T}	(%)	
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	

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

12



575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

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

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.

Lab No. : 1412840-001 Client Sample ID: D-08 Sample Information:

Type : Soil

Origin:

Analytical Method:	SW1311/8151A :	Prep	Prep Method: SW1311/8151			Prep Dat	<u>e:</u> 12/12/2014 11:16:34 AM	Analyst: MJM
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
2,4,5-TP (Silvex)	< 0.0025	5	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: SW	3510C		Prep Dat	<u>e:</u> 12/15/2014 2:15:17 PM	Analyst: JS
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>			Analyzed:	Container:
Chlordane	< 0.0040)	1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Endrin	< 0.0004	0	1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
gamma-BHC	< 0.0002	20	1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Heptachlor	< 0.0002	20	1	mg/L			12/15/2014 9:34 PM	Container-01 of 02
Heptachlor epoxide	< 0.0002	20	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: Decachlorobiph	nenyl 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

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

Date Reported : 12/17/2014

addin Attchingon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 1 of 6

Pace Analytical Services, Inc.



PACE ANALYTICAL

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Quality Control Report

PACE ANALYTICAL

10478

Analysis	5:	HERBICIDES	6, TCLP Lea	ched		WorkOrd	er: 1412840	
Method:		1311_H			Lab Batc	h ID: 47569		
		Method Bl	ank_					
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 % 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 Result	MS % Recovery	Low Limit	High Limit	MSD Spike Added	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							

Qualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	D	Dilution was required.	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	М	Manual Integration used to determine area response	Ν	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	0	RSD is greater than RSDlimit
	PL	Permit Limit	RL	Reporting Detection Limit



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Quality Control Report

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10478

Analysis:		PESTICIDES	STICIDES, TCLP Leached Work		
Method:		1311_P			
		Method B	lank		
RunID: 6	6888	SeqNo	1454394	Units:	mg/L
Analysis D	ate: 12/	15/2014 7:49:	29 PM	Analyst	: JS
	Analyte		Result	Rep Limit	Rep Qual

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 % 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 % 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: *	k	Value exceeds Maximum Contaminant Level
---------------	---	---

- D Dilution was required.
- H Holding times for preparation or analysis exceeded
- M Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- PL Permit Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- N Tentatively identified compounds
- O RSD is greater than RSDlimit
- RL Reporting Detection Limit



PACE ANALYTICAL

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Quality Control Report

PACE ANALYTICAL

10478

Analysis:	PESTICIDES, TCLP Leached	WorkOrder:	1412840
Method:	1311_P	Lab Batch ID:	47605

Matr	rix Spike	(MS) / Matrix S	pike Duplic	ate (MSD)	
Sample	Spiked:	1412840-001a			
RunID:	66888	SeqNo	1454401	Units:	r

 RunID:
 66888
 SeqNo
 1454401
 Units:
 mg/L

 Analysis Date:
 12/15/2014
 10:16:58 PM
 Analyst:
 JS

Analyte	Sample Result			MS % Recovery	Low Limit	High Limit	MSD Spike Added	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
gamma-BHC	0	0008000	0.00052	65.0	58	124							
Heptachlor	0	008000	0.00053	66.4	61	110							
Heptachlor epoxide	0	008000	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		004000	0.00033	81.8	30	150	1						
Surr: Decachlorobiphenyl		004000	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 Result	 RPD	RPD Limit	Low Limit	High Limit	Qual
Surr: DCAA	0.1000	0.11	106					36	121	

Qualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	D	Dilution was required.	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	М	Manual Integration used to determine area response	Ν	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	0	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

i	website: <u>1</u>	<u>www.p</u>	<u>acelabs.com</u>		
Client Name PACE-NY			Date and T	ime Received:	12/10/2014 11:15:00 AM
Work Order Number: 1412840 RcptNo:	1		Received b	ру	
Completed by: M - War		Revi	ewed by:	fempe	a
Completed Date: <u>12/11/2014 10:58:01 AM</u>		Revi	ewed Date:	12/17/201	4 4:33:06 PM
Carrier name: <u>FedEx</u>					
Chain of custody present?	Yes	\checkmark	No 🗌		
Chain of custody signed when relinquished and received?	Yes	\checkmark	No 🗌		
Chain of custody agrees with sample labels?	Yes	\checkmark	No 🗌		
Are matrices correctly identified on Chain of custody?	Yes	\checkmark	No 🗌		
Is it clear what analyses were requested?	Yes	\checkmark	No 🗌		
Custody seals intact on sample bottles?	Yes		No 🗌	Not Present	\checkmark
Samples in proper container/bottle?	Yes	\checkmark	No 🗌		
Were correct preservatives used and noted?	Yes	\checkmark		NA	
Preservative added to bottles:	103			NA	
Sample Condition?	Intact	\checkmark	Broken	Leaking	\Box
Sufficient sample volume for indicated test?	Yes			Leaking	
Were container labels complete (ID, Pres, Date)?	Yes				
All samples received within holding time?	Yes				
· · ·			_		
Was an attempt made to cool the samples?	Yes	\checkmark		NA	
All samples received at a temp. of > 0° C to 6.0° C?	Yes	V	No 🗌	NA	
Response when temperature is outside of range:	Vee	\checkmark			
Sample Temp. taken and recorded upon receipt?	Yes		No 🗔		.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	\checkmark	No 🗔		
Custody Seals present?	Yes		No 🗹		
Airbill or Sticker?	Air Bill	\checkmark	Sticker	Not Present	
Airbill No:					
Case Number: SDG:		S	SAS:		
Any No response should be detailed in the comments sec	tion below, if appl	icable			
Client Contacted?	Person Cont	acted:			
Contact Mode: Phone: Fax:	Email:		In Person:		
Client Instructions:					
Date Contacted: Co	intacted By:				
Regarding:	,				
Comments:					

CorrectiveAction:

 \equiv =



575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

WorkOrder :

1412840

Certifications

S TATE	CERTIFICATION #
NEW YOR K	10478
NEWJERSEY	NY1 58
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS ETTS	M-NY026
NEW HAMPS HIRE	2987
RHODE IS LAND	LAO00340
PENNS YLVANIA	68-00350

Page 6 of 6

								PACE-			
CHAIN OF CUSTODY RECORD	USTOD	/ RE	CORD		PAGE 1 OF 1		DISP		EQUIREMENTS: (To	DISPOSAL REQUIREMENTS: (To be filled in by Client)	Ţ.
Pace Analytical Services, Inc. 2190 Technology Drive, Schenectady, NY 12308 Telephone (518) 346-4592 Fax (518) 381-6055 www.pacelabs.com	ical Se /e, Schene -4592 Fa	ectady ax (51	, NY 12 , NY 12 (8) 381-		LRF # 14120180 (LAB US	1180 (LAB USE ONLY)	Additio	DISPOSAL BY RECEIVING LAB Additional charges incurred for disposal (if hazardous) or archival.	DISPOSAL BY RECEIVING LAB ARCHIVAL BY RECEIVING LAB neurred for disposal (if hazardous) or arcl	/ING LAB /ING LAB dous) or archival.	
CLIENT (REPORTS TO BE SENT TO):		<u>م</u>	PROJECT#/PROJECT NAME:	JECT NAME:			ENTER A	ENTER ANALYSIS AND METHOD NUMBER REQUESTED	ETHOD NUMBE	R REQUESTED	
PACE		<u></u>	14120180			PRESERVATIVE CODE:	E CODE:			PRES	PRESERVATIVE KEY
			OCATION (CIT	LOCATION (CITY/STATE) ADDRESS:	RESS:	BOTTLE TYPE:	ΥΡΕ:			0 - ICE	щ.
project manager: Kelly Miller			٨٧			BOTTLE SIZE:				2 - HOL 2 - HNO3 3 - H2SO	1 - HCL 2 - HNO3 3 - H2SO4
SAMPLED BY: (Please Print)		<u>~</u>	EQUIRED TUR	REQUIRED TURN AROUND TIME:	е: 12/18/2014	ΞΝΙΑΤΙ	9		/	5 - Zn. Ac	4 - NaOH 5 - Zn. Acetate
SAMPLING FIRM:				NAME OF COURTED //E LISED)		: CO/				6 - M	6 - MeOH
		2		uen (ir useu).			101 101			7-N 8-0	7 - NaHSO4 8 - Other (Na2SO3)
ELECTRONIC RESULTS					LAB	<u></u>	\ \	_	/		
FAXED RESULTS	FAX #:			GRAB/	SAMPLE ID		/	/	/		
SAMPLE ID	DATE TI	TIME	MATRIX	COMP	(LAB USE ONLY)	>				/ REMARKS:	i:
D-08	12/8/14 1	15:20	S	COMP	AR47093	2 X	×			1412840	
	-										
	TEMP:	0	COC TAPE:	z		PROPERLY PRESERVED:	RVED: Y	z	OTHER NOTES: An	OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DE	: Equis-dec-de
RECEIVED BROKEN OR LEAKING:	z ≻	<u>ں</u>	COC DISCREPANCIES:		z	RECVD W/I HOLDING TIMES:	IG TIMES: Y	z			
RELINQUISHED BY	REC	RECEIVED BY		SIGNATURE	RELINQUISHED BY	RECEI	RECEIVED BY	RELING	RELINQUISHED BY	RECEIVED BY	
DIGNATURE CULLIN	VCA	ft	eDEX		teren	- All					
PRINTED NAME C DC	PRINTED NAME			PRINTED NAME		PRINTEDNAME		PRINTED NAME		PRINTED NAME	
COMPANY Un	COMPANY			COMPANY		COMPANÝ		COMPANY		COMPANY	
DATETTIME P2/9/14 1500	DATE/TIME			DATE/TIME		PTSTICT	(js))	DATE/TIME		DATE/TIME	
							ale.l.				S:ILOGINMDLCOCS

12



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.

Koy Smo

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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Section 7: GC - PCB	
Section 8: Mercury	
Section 9: Metals - ICP	
Section 10: Quality Control Samples (Field)	
Section 11: Quality Control Samples (Lab)	
Section 12: Subcontract Analysis	

Pace Analytical Services, Inc.

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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.

S:\Lims Data\1501\15010580\Package\CN_15010580_Rev00.doc

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.

Subcontract Analysis

(1.) Please see Pace NY-LI lab report for quality assurance details.

Respectfully submitted,

Kelly A. miller

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 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 – 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

February 09, 2015



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 <15010580P1>



Section A Required Client Information:	Section B				Sectio															. 15	0105	801					Pag	e: 1	of		1
Company: Barton and Loguidice DPC	Required Proj Report To: An					Informatio																									
					Attenti					yable											RE	GU	LAT	OR	Y A(GEN	ICY				
Address: 10 Airline Drive, Suite 200	Copy To: Na	athan S	Shaffer		Compa	ny Name:	Ba	rton a	and L	ogui	dice	, DP	С		1	NP	DES		<u> </u>	GROU	JND	WA	ER		D	RINK	(ING)	VATER			
Albany, NY 12205					Addres	SS:			d Davis VY, 132	Road, 20	Box 3	107				US	эт		٦ ٦	CRA				ŝ	TC	HER_					
Email To: <u>nshaffer@bartonandloguidice.com</u>	Purchase Order No.:				Pace Qu	ote Referer			1490									SITE				j ^{ana}	GA	,	IL.				 NI (***	10	
Phone: 518-218-1801 Fax: 518-218-1805	Project Name:	ALC	0		Pace Project Manager: Kelly Miller					LO	САТ	10N				он	1	S			<u> </u>										
Requested Standard Due Date/TAT:	Project Number:	136	8.001.001		Pace Pr	rofile #:	^							-	Filte	ered	(Y/N)		77	/ /	7	77	77	77	77	77	77	77	7		
Section D Valid Matrix Codes	ODE																	-	\mathcal{H}	+	+	+	4	+	+	\vdash	4	44	++		
Required Client Information CRIMING WATER WATER	WI CODE TWW TWW WW XSL SL WP XSL WP XSL WP XSL WP XSL WP XSL WP XSL WP XSL WP XSL WF XSL	Ë	DATE	COLL APOSITE ART	COMP END/	OSITE GRAB	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Inpreserved	H ₂ SO ₄ HNO ₃		HOBN	Na ₂ S ₂ O ₃ Sõ	Other	Req Ana	uest	ed											Sidual Chonine (VAV)	Par	e Proje	
1 D-09	SL	C	1/25	5:45	1/29	5:45	1						4 2	210	+	f	ff	ſ	f f	+		Í		(1-	$\frac{1}{1}$			CLP - 82		b I.D. 70.
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			1	SIGNATI	URE of S	SAMPLEF	ર :	ivain	$\frac{1}{2}$	haffer		-	\vdash			1	DATE	Signe	d		1.	-7	<u></u>			-	Temp	Received o	Cust	Samples	
Pace Analytical Services, Inc.			L				F	ebruar	X 09,	2015	Þ	Ŧ			100 Bar (77 - 1		(MM /	DD / Y	Υ):	-4	2	4	2				,		ගී 0580 -		

e-File(ALLQ020rev.4.29Mar06)22.lun2005

Pace Analy	/tica	d.	Sai	mple Con		CLIEN.	Receipt t name: B ct: ALC	AR-,	ALB	I	<15010580	
TRACKING # / /A PACKING MATERIAL: Bubble Wrap □	eniy Bubble Bag n 03yd		Other PY SEAL PRES None 7967 7967 7967 7967 7967 7967 7967 7967 7967 7967 7967 700 7			ICE US	INTACT: Yes ED: Wet ATURE (°C): _	⊐ ľ , Blue	No 🗆 : 🗆	N/A 👳 None 🏹		
BIOLOGICAL TISSUE IS FROZEN: Yes	No 🗆	N/A 😿	307 -		COMMENT	Temp	should be abo		ng to 6°0			
Chain of Custody Present:	Yes	□No		1.								
Chain of Custody Filled Out:	XIYes	□ No		2.						,		_
Chain of Custody Relinquished:	XYes	□No		3.								3
Sampler Name / Signature on COC:	Bryes	□No		4.					-			
Samples Arrived within Hold Time:	Yes	□ No		5.								
Short Hold Time Analysis (<72hr):	□Yes	ANO		6.								
Rush Turn Around Time Requested:	□Yes			7.				· · ·				
Sufficient Volume:	Yes	No		8.								
Correct Containers Used:	Yes	□No		9.								
- Pace Containers Used:	Yes	□No										
Containers Intact:	V Yes	□No		10.								
Filtered volume received for Dissolved tests:	□Yes	□No	Øn/A	11.								
Sample Labels match COC: - Includes date/time/ID/Analysis	Yes	□No		12.						-		
All containers needing preservation have been checked:	□Yes	No	B N/A	13.			· · · ·					
All containers needing preservation are in compliance with EPA recommendation: - Exceptions that are not checked: VOA	□Yes	□No	Øn/a	Initial wher completed:			Lot #	of added N//		tive:		
Headspace in VOA Vials (>6mm):	□Yes	□No		14.		R <u>ann a na m</u>						
Trip Blank Present:	□Yes			15.								
Trip Blank Custody Seals Present: Pace Trip Blank Lot #: \underline{N}/A	□Yes	□No										
Sample Receipt form filled in: $ASB 1/29/$	15	Log In (Ir	cludes notify	pying Shippir ying PM of an anning Bottle	y discrepaci	ies and	documenting	g in LIMS)	: <u> </u>	35 1/3	29/15 29/15 9/15	

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 SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,}SAMPLES PRESERVED PER METHOD GUIDANCE: NO ³ SAMPLES REC'D IN HOLDTIME: YES SHIPPING ID: N. SHAFFER/ BAR-ALB NUMBER OF COOLERS: 0 **DISPOSAL:** BY LAB (45 DAYS) CUSTODY SEAL INTACT: NA COC DISCREPANCY: NO COOLER STATUS: AMBIENT **TEMPERATURE(S):** ⁵6.8 (IR) °C

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	

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.

²The 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. ³Samples 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. 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.

⁵All 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)	EPA 8260C - VOCs by GCMS (TCLP) - (ug/L)
Arsenic	1,1-Dichloroethene
Barium	1,2-Dichloroethane
Cadmium	2-Butanone
Chromium	Benzene
Lead	Carbon Tetrachloride
Selenium	Chlorobenzene
Silver	Chloroform
	Tetrachloroethene
EPA 7470A - Mercury Analysis (TCLP) - (mg/L)	Trichloroethene
Mercury	Vinyl Chloride
EPA 8082A - PCB Analysis - (ug/g)	EPA 8270D - SVOCs by GCMS (TCLP) - (ug/L)
Aroclor 1016	1,4-Dichlorobenzene
Aroclor 1221	2,4,5-Trichlorophenol
Aroclor 1232	2,4,6-Trichlorophenol
Aroclor 1242	2,4-Dinitrotoluene
Aroclor 1248	Hexachlorobenzene
Aroclor 1254	Hexachlorobutadiene
Aroclor 1260	Hexachloroethane
Total PCB Amount > RL	m&p-Methylphenol
	Nitrobenzene
	o-Methylphenol
	Pentachlorophenol
	Pyridine
	2

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Page 1 of 1

2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055

GC/MS Volatiles



Job Number: 15010580

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 13	01/30/2015 16:00	TJH	NA	NA	N/A	
Analyte		CAS No.	Result (ug/L)	PQL	Dilution Fact	tor Flags	File ID	
1,1-Dichloro	ethene	75-35-4	ND	1.00	1.00	U	MS11-22-13	
1,2-Dichloro	ethane	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 Tetra	chloride	56-23-5	ND	1.00	1.00	U	MS11-22-13	
Chlorobenze	ne	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	
Tetrachloroe	thene	127-18-4	ND	1.00	1.00	U	MS11-22-13	
Trichloroeth	ene	79-01-6	ND	1.00	1.00	U	MS11-22-13	
Vinyl Chlori	de	75-01-4	ND	1.00	1.00	U	MS11-22-13	
				Lin	nits			
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID	
4-Bromofluo	robenzene	460-00-4	101	76.0	-128		MS11-22-13	
Dibromofluc	romethane	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-Dichloro	ethane-d4	17060-07-0	91.8	79.9	-120		MS11-22-13	

ND: Denotes analyte not detected at a concentration greater than the PQL.

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

Sample temperature was outside of method acceptance limits at the time of receipt.

GC/MS Semivolatiles



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

ſ									
	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column		
Analysis 1:	MS07-1479-11	SW-846 8270D/TCLP Extraction M	ethod 131102/04/2015 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 Fact	or Flags	File ID		
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS07-1479-11		
2,4,5-Trichlo	orophenol	95-95-4	ND	50.0	1.00	U	MS07-1479-11		
2,4,6-Trichlo	orophenol	88-06-2	ND	50.0	1.00	U	MS07-1479-11		
2,4-Dinitroto	oluene	121-14-2	ND	50.0	1.00	U	MS07-1479-11		
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS07-1479-11		
Hexachlorob	outadiene	87-68-3	ND	50.0	1.00	U	MS07-1479-11		
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS07-1479-11		
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS07-1479-11		
Nitrobenzen	<u>^</u>	98-95-3	ND	50.0	1.00	U	MS07-1479-11		
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS07-1479-11		
Pentachlorop		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		
				Lin	nits				
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID		
2,4,6-Tribroi	mophenol	118-79-6	87.6	22.8	-161		MS07-1479-11		
2-Fluorobiph	nenyl	321-60-8	69.4	26.3	-121		MS07-1479-11		
2-Fluoropher		367-12-4	38.4	10.0-			MS07-1479-11		
Terphenyl-d		1718-51-0	67.6	33.7			MS07-1479-11		
Nitrobenzene	e-d5	4165-60-0	67.5	12.7			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.

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February 09, 2015

GC - PCB



Analytical Sample Results

Job Number: 15010580

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	h 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 Fact	or 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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	()	\mathbf{Q}^{1}	File ID
Tetrachloro-meta-xyl	lene	877-09-8	86.7	60.0	-140		GC20F-2114-7
Decachlorobiphenyl		2051-24-3	97.0	60.0	-140		GC20F-2114-7

¹Qualifier 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.

Mercury



Job Number: 15010580

Project: A Client San	LCO nple ID: D-09	LOGUIDICE 0580-01 (AS02427)		Sample Receive	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 Fact	tor 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.

Metals - ICP



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 Fact	tor 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)



Quality Control Results Matrix Spike Sample (MS) Job Number: 15010580

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 M	lethod 131102/04/2015 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 Fact	or Flags	File ID
1,4-Dichlorobe	nzene	106-46-7	251	50.0	1.00		MS07-1479-12
2,4,5-Trichloro	phenol	95-95-4	396	50.0	1.00		MS07-1479-12
2,4,6-Trichloro	phenol	88-06-2	354	50.0	1.00		MS07-1479-12
2,4-Dinitrotolu	ene	121-14-2	493	50.0	1.00		MS07-1479-12
Hexachloroben	zene	118-74-1	290	50.0	1.00		MS07-1479-12
Hexachlorobuta	adiene	87-68-3	237	50.0	1.00		MS07-1479-12
Hexachloroetha	ane	67-72-1	220	50.0	1.00		MS07-1479-12
m&p-Methylph	nenol	108-39-4/106-44-5	658	50.0	1.00	Е	MS07-1479-12
Nitrobenzene		98-95-3	315	50.0	1.00		MS07-1479-12
o-Methylpheno	1	95-48-7	273	50.0	1.00		MS07-1479-12
Pentachlorophe	enol	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	~ . ~	nple Added g/L) (ug/L)	MS (ug/L)	MS % Rec.	$\mathbf{Q}^{1} \begin{array}{c} \mathbf{Limits} \\ \mathbf{Q}^{0} (\mathbf{\%}) \end{array}$	
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	

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

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{T} 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

¹Qualifier 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)



Quality Control Results Lab Control Sample (LCS) Job Number: 15010580

Project: ALCOSClient Sample ID: Lab Control Sample (AS02132L)F	Collection Date: N/A ample Matrix: TCLP Received Date: N/A Percent Solid: N/A
--	--

Ba	tch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: MS1	11-22-4	EPA 8260C - TCLP-ZHE SW-846 1311	01/30/2015 11:20	ТЈН	NA	NA	N/A

Analyte Spiked	CAS No.	Added (ug/L)	LCS (ug/L)	LCS % Rec.	\mathbf{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	

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

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{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

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 15010580

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		Date	Analyst	Init Wt./Vol.	Final Vol.	Column	
Analysis 1: MS11-22				NA	NA	N/A	
Analyte	CAS No.	Result (ug/L)	PQL	Dilution Fact	or 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	
			Lin	nits			
Surrogate	CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID	
4-Bromofluorobenzene	460-00-4	100	76.0	-128		MS11-22-5	
Dibromofluoromethan	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 enotes value outside the control limits or 'E	98.2	79.9	-120		MS11-22-5	

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 Results Method Blank Job Number: 15010580

Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Method Blank (AS02427B) Lab Sample ID: SBLK-68

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

Collection Date: N/A

	Datah ID	Mathad	Data	A a 1	Luit W/t /Val	Einal Val	Calumn
<u></u>	Batch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1:	MS07-1479-9 30035	SW-846 8270D/TCLP Extraction M EPA 3510C	02/04/2015 16:15 02/04/2015 08:59	RMS KEN	NA 200 mL	NA 1.00 mL	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 Fact	or Flags	File ID
1,4-Dichloro	benzene	106-46-7	ND	50.0	1.00	U	MS07-1479-9
2,4,5-Trichle	orophenol	95-95-4	ND	50.0	1.00	U	MS07-1479-9
2,4,6-Trichlo	orophenol	88-06-2	ND	50.0	1.00	U	MS07-1479-9
2,4-Dinitroto	oluene	121-14-2	ND	50.0	1.00	U	MS07-1479-9
Hexachlorob	enzene	118-74-1	ND	50.0	1.00	U	MS07-1479-9
Hexachlorob	outadiene	87-68-3	ND	50.0	1.00	U	MS07-1479-9
Hexachloroe	thane	67-72-1	ND	50.0	1.00	U	MS07-1479-9
m&p-Methy	lphenol	108-39-4/106-44-5	ND	50.0	1.00	U	MS07-1479-9
Nitrobenzen	-	98-95-3	ND	50.0	1.00	U	MS07-1479-9
o-Methylphe	enol	95-48-7	ND	50.0	1.00	U	MS07-1479-9
Pentachlorop	ohenol	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
				Lin	nite		
Surrogate		CAS No.	% Recovery	(%		\mathbf{Q}^1	File ID
2,4,6-Tribro	mophenol	118-79-6	68.2	22.8	-161		MS07-1479-9
2-Fluorobipl		321-60-8	70.2	26.3	-121		MS07-1479-9
2-Fluorophe	nol	367-12-4	34.0	10.0-	-86.4		MS07-1479-9
Terphenyl-d		1718-51-0	65.3	33.7			MS07-1479-9
Nitrobenzen	e-d5	4165-60-0	66.7	12.7			MS07-1479-9
Phenol-d6		13127-88-3	24.2	10.0-	-87.4		MS07-1479-9
¹ Qualifier colum	in where '*' denotes	value outside the control limits or 'D' of	lenotes 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.



Quality Control Results Lab Control Sample (LCS) Job Number: 15010580

Client: BARTON AND LOGUIDICE	Collection Date: N/A
Project: ALCO	Sample Matrix: TCLP
Client Sample ID: Lab Control Sample (AS02427L)	Received Date: N/A
Lab Sample ID: LCS-68	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 13	1 102/04/2015 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.	1	imits %)	
1,4-Dichlorobenzene	106-46-7	500	281	56.2		7.0-123	
2,4,5-Trichlorophenol	95-95-4	500	372	74.4	30	0.0-128	
2,4,6-Trichlorophenol	88-06-2	500	343	68.6	37	7.0-144	
2,4-Dinitrotoluene	121-14-2	500	490	98.1	37	7.0-121	
Hexachlorobenzene	118-74-1	500	355	70.9	42	2.0-117	
Hexachlorobutadiene	87-68-3	500	243	48.5	31	.0-110	
Hexachloroethane	67-72-1	500	254	50.7	24	1.0-124	
m&p-Methylphenol	108-39-4/106-44-5	1000	699	69.9	22	2.0-139	
Nitrobenzene	98-95-3	500	313	62.7	34	1.0-119	
o-Methylphenol	95-48-7	500	293	58.6	26	5.0-128	
Pentachlorophenol	87-86-5	500	492	98.4	4.	00-113	
Pyridine	110-86-1	500	196	39.2	1.	00-105	

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

			Limits	
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{T} 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

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 15010580

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 Fact	or 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 Am	ount > RL	1336-36-3	ND		1.00	U	GC20F-2114-4
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(0)	\mathbf{Q}^{1}	File ID
Tetrachloro-me	eta-xylene	877-09-8	78.9	60.0	-140		GC20F-2114-4
Decachlorobip		2051-24-3	101	60.0	-140		GC20F-2114-4

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 Results Lab Control Sample (LCS) Job Number: 15010580

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						
Analysis 1: Prep 1:	Batch ID GC20F-2114-5 30025	Method SW-846 8082A (PCB) EPA 3545A	Dat 02/05/2015 02/03/2015	09:49	Anal JKA MH	yst In	nit Wt./Vo NA 10.4 g	ol. Final Vol. NA 25.0 mL	Column Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm NA
Analyte Sp	iked	CAS No.	Added (ug/g)	LC (ug/	(g)	LCS % Rec	$\cdot \mathbf{Q}^{1}$	Limits (%)	
Aroclor 1242 ¹ Qualifier colum	n where '*' denotes	53469-21-9 value outside the control limits. Note: RPD	1.21 O criteria does not	0.961 apply if		79.7 ne sample a	-	70.0-130 sample are not detec	ted.

Surrogate	CAS No.	% Recovery	(%)	\mathbf{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	

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 15010580

Project: Al Client San	LCO	LOGUIDICE od Blank (AS02121B) -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 Fact	tor Flags	File ID		
Mercury		7439-97-6	ND	0.0200	1.00	U	MER1-1845-47		

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 Results Lab Control Sample (LCS) Job Number: 15010580

Project: Al Client Sam	LCO	LOGUIDICE Control Sample (AS02121L 39)	Collection Date: N/A Sample Matrix: TCLP Received Date: N/A Percent Solid: N/A				
Analysis 1: Prep 1:	Batch ID MER1-1845-48 5384	Method SW-846 7470/TCLP 1311 EPA 7470A	Date 02/04/2015 15:1 02/03/2015 09:3		Init Wt./ NA 4.00 mL	NA	Column NA NA	
Analyte Sp Mercury	iked	CAS No. 7439-97-6		ng/L) %	$\begin{array}{c} \mathbf{CS} \\ \mathbf{Rec.} \mathbf{Q}^{1} \\ 12 \end{array}$	Limits (%) 80.0-120		

¹Qualifier 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.



Quality Control Results Method Blank Job Number: 15010580

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 Fact	or 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

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 Results Lab Control Sample (LCS) Job Number: 15010580

Client: BARTON AND LOGUIDICE	Collection Date: N/A
Project: ALCO	Sample Matrix: TCLP
Client Sample ID: Lab Control Sample (AS02070L)	Received Date: N/A
Lab Sample ID: LCS-36	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

		Added	LCS	LCS	1	Limits	
Analyte Spiked	CAS No.	(mg/L)	(mg/L)	% Rec.	\mathbf{Q}^{T}	(%)	
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	

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

12



575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc. 2190 Technology Drive Schenectady, NY 12308

Received

Attn To : William A. Kotas

Collected : 1/29/2015 9:45:00 AM 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.

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 : 1/30/2015 11:00:00 AM Collected By CLIENT

, -									
Analytical Method:	SW1311/8151A :	Pre	ep Method: SW	1311/8151		Prep D	oate: 2/4/2015 5:08:53 PM	Analyst: N	ЛJM
Parameter(s)	<u>Result</u>	<u>s</u> Qualifie	<u>r D.F.</u>	<u>Units</u>			Analyzed:	<u>Container</u>	<u>r:</u>
2,4,5-TP (Silvex)	< 0.00)25	1	mg/L			02/05/2015 11:44 PM	Container-0	1 of 02
2,4-D	< 0.00)50	1	mg/L			02/05/2015 11:44 PM	Container-0	1 of 02
Surr: DCAA	99.0		1	%REC	Limit	36-121	02/05/2015 11:44 PM	Container-0	1 of 02
Analytical Method:	SW1311/8081B :	Pre	ep Method: SW3	3510C		Prep D	ate: 2/5/2015 8:24:58 PM	Analyst: J	IS
Parameter(s)	<u>Result</u>	<u>s</u> Qualifie	<u>r D.F.</u>	<u>Units</u>			Analyzed:	Container	<u>r:</u>
Chlordane	< 0.00)40	1	mg/L			02/06/2015 3:32 AM	Container-0	1 of 02
Endrin	< 0.00	040	1	mg/L			02/06/2015 3:32 AM	Container-0	1 of 02
gamma-BHC	< 0.00	020	1	mg/L			02/06/2015 3:32 AM	Container-0	1 of 02
Heptachlor	< 0.00	020	1	mg/L			02/06/2015 3:32 AM	Container-0	1 of 02
Heptachlor epoxide	< 0.00	020	1	mg/L			02/06/2015 3:32 AM	Container-0	1 of 02
Methoxychlor	< 0.00)20	1	mg/L			02/06/2015 3:32 AM	Container-0	1 of 02
Toxaphene	< 0.02	20	1	mg/L			02/06/2015 3:32 AM	Container-0	1 of 02
Surr: Decachlorobiph	nenyl 101		1	%REC	Limit	30-150	02/06/2015 3:32 AM	Container-0	1 of 02
Surr: Tetrachloro-m-	xylene 185	S	1	%REC	Limit	30-150	02/06/2015 3:32 AM	Container-0	1 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 2/8/2015

Date Reported :

radein Attchingon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 1 of 6

Pace Analytical Services, Inc.

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PACE ANALYTICAL

575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis:		HERBICIDES	6, TCLP Lead	WorkOrder:	1501H35				
Method	:	1311_H					Lab Batch ID:	48324	
		Method Bl	ank_						
RunID:	69355	SeaNo	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		-	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:	6935	5 SeqN	lo	1507745	Units:	mg/L
Analysis	Date:	2/6/2015 12:16	6:21	AM	Analyst:	MJM

Analyte	Sample Result	-		MS % Recovery	Low Limit	High Limit	MSD Spike Added	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	В	Analyte detected in the associated Method Blank
	D	Dilution was required.	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	М	Manual Integration used to determine area response	Ν	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	0	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

				IAUL	10478	11107	~					
Analysis:	PESTICID	ES, TCLP	Leached					w	orkOrde	ər:	1501H3	5
Method:	1311_P							La	ab Batch	n ID:	48360	
	Method	Blank										
RunID: 69351	SeqN	No 15076	77 Uni	ts: mg/L								
Analysis Date: 2/	6/2015 2:29:	03 AM	Ana	alyst: JS								
Analyt	e	Result	Rep Lim	it Rep Qu	al							
gamma-BHC		< 0.000	20 0.000	20								
Heptachlor		< 0.000	20 0.000	20								
Heptachlor epoxid	е	< 0.000	20 0.000	20								
Endrin		< 0.000	40 0.000	40								
Methoxychlor		< 0.00	20 0.00	20								
Toxaphene		< 0.0	20 0.0	20								
Chlordane		< 0.00	40 0.00	40								
Surr: Tetrachlor	o-m-xylene	0.000	37	0								
Surr: Decachlor	obiphenyl	0.000	43	0								
<u>Laborate</u> RunID: 69351	ory Control SeqN	Sample (L No 15076		ts: mg/L								
Analysis Date: 2/	6/2015 2:50:	04 AM	Ana	alyst: 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	1					10	148	
Heptachlor epoxid	e	.0008000	0.00075	93.7	1					28	144	
Endrin		.0008000	0.00078	97.1	1					22	152	
Methoxychlor		.0008000	< 0.0020	109	1					19	146	
Surr: Tetrachlor	o-m-xylene	.0004000	0.00036	90.5	1					30	150	

	.0006000	0.00074	92.0
eptachlor	.0008000	0.00069	86.3
eptachlor epoxide	.0008000	0.00075	93.7
ndrin	.0008000	0.00078	97.1
ethoxychlor	.0008000	< 0.0020	109
Surr: Tetrachloro-m-xylene	.0004000	0.00036	90.5
Surr: Decachlorobiphenyl	.0004000	0.00046	114

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 % 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	

* Value exceeds Maximum Contaminant Level **Qualifiers:**

- D Dilution was required.
- Η Holding times for preparation or analysis exceeded
- М Manual Integration used to determine area response
- ND Not Detected at the Reporting Limit
- PL Permit Limit

Analyte detected in the associated Method Blank В

30

150

- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Ν Tentatively identified compounds
- 0 RSD is greater than RSDlimit
- RL Reporting Detection Limit



PACE ANALYTICAL

575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

					10478									
Analysis: PESTIC	IDES, TCL	P Leach	ned						WorkOrder:		1501H35			
Method: 1311_P									Lab Batch II	D :	48360			
Matrix Spike (MS) / Ma	trix Spike	Duplicat	te (MSD)										_	
Sample Spiked: 1501h35-	001a													
RunID: 69351 Se	eqNo 150	7683	Units:	mg/L										
Analysis Date: 2/6/2015 4:	35:23 AM		Analy	st: JS										
Analyte	Sample 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	008000	0.00077	86.1	58	124	1	1			I			
Heptachlor	0	008000	0.00082	102	61	110								
Heptachlor epoxide	0001296	008000	0.00089	95.6	52	131								
Endrin	0001480	008000	0.00079	97.3	57	147								
Methoxychlor	0	008000	: 0.0020	125	51	124								
Surr: Tetrachloro-m-xyler	e	008000	0.00084	105	30	150								
Surr: Decachlorobiphenyl		004000	0.00041	102	30	150]							

Qualifiers:	*	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	D	Dilution was required.	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	М	Manual Integration used to determine area response	Ν	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	0	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 FAX: (631) 420-8436 Website: <u>www.pacelabs.com</u>

Sample Receipt Checklist

		Website: <u>1</u>	vww.p	acelabs.com		
Client Name PACE-NY				Date	and Time Received:	1/30/2015 11:00:00 AM
Work Order Number: 1501H35	RcptNo: 1			Rece	ived by: Jamie Sper	о
Completed by:	An		Rev	iewed by:	Caidlin ¢	telepinron
Completed Date: <u>1/30/2015 11:15:47 Al</u>	M		Rev	iewed Date:	<u>2/4/201</u>	<u>5 5:27:10 PM</u>
Carrier name: <u>FedEx</u>						
Chain of custody present?		Yes	\checkmark	No 🗌]	
Chain of custody signed when relinquished and	1 received?	Yes	\checkmark	No 🗌		
Chain of custody agrees with sample labels?		Yes	\checkmark	No 🗌		
Are matrices correctly identified on Chain of cu	stody?	Yes	~	No 🗌]	
Is it clear what analyses were requested?		Yes	✓	No		_
Custody seals intact on sample bottles?		Yes		No 🗌	Not Present	\checkmark
Samples in proper container/bottle?		Yes	\checkmark	No 🗌		
Were correct preservatives used and noted?		Yes	\checkmark	No 🗌	NA	
Preservative added to bottles:				F	-	
Sample Condition?		Intact		Broken		
Sufficient sample volume for indicated test?	-) 0	Yes	✓	No 🗌	-	
Were container labels complete (ID, Pres, Date	3)?	Yes	✓	No L	7	
All samples received within holding time?		Yes		No 🗌		
Was an attempt made to cool the samples?		Yes		No 🗌	-	
All samples received at a temp. of $> 0^{\circ}$ C to 6.0		Yes	\checkmark	No	NA	
Response when temperature is outside of rang				N [⁻	
Sample Temp. taken and recorded upon receip)t?	Yes		No 🗌		4.1 °
Water - Were bubbles absent in VOC vials?		Yes		No 🗆	_	
Water - Was there Chlorine Present?		Yes		No L	-	
Water - pH acceptable upon receipt?		Yes		No 🗆	7	
Are Samples considered acceptable?		Yes	✓	No 🗆	_	
Custody Seals present?		Yes		No 🗌		
Airbill or Sticker?		Air Bill		Sticker L	Not Present	
Airbill No:		632146	58903	99		
Case Number: SDG:			5	SAS:		
Any No response should be detailed in the cor	nments section	below, if appl	icable) .		
			= = :	:		
Client Contacted?	NA	Person Cont	acted			
Contact Mode: Phone:	Fax:	Email:		In Pers	on:	
Client Instructions:						
Date Contacted:	Contac	ted By:				
Regarding:						
Comments:						
SAMPLES RECEIVED AT SCHENECTADY	LAB OUT OF T	EMPERATUR	RE RA	ANGE		

CorrectiveAction:



575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

WorkOrder : 1501H35

Certifications

S TATE	CERTIFICATION #
NEW YOR K	10478
NEWJERSEY	NY1 58
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS ETTS	M-NY026
NEW HAMPS HIRE	2987
RHODE IS LAND	LAO00340
PENNS YLVANIA	68-00350

Page 6 of 6

					·	PACE		
CHAIN OF CUSTODY RECORD		RECORD		PAGE 1 OF 1			DISPOSAL REQUIREMENTS: (To be filled in by Client)	in by Client)
Pace Analytical Services, Inc. 2190 Technology Drive, Schenectady, NY 12308 Telephone (518) 346-4592 Fax (518) 381-6055	Schenects 592 Fax	1CeS, 1 ady, NY 12 (518) 381-		LRF # 15010580 (LABUS)580 11 AB USE ONI Y)		DISPOSAL BY RECEIVING LAB Additional charges incurred for discosal (if hazardwis) or archival	er.i
www.pacelabs.com						Call for details.		
CLIENT (REPORTS TO BE SENT TO):			OJECT NAME:		E	TER ANALYSIS AND M	ENTER ANALYSIS AND METHOD NUMBER REQUESTED	- 1
PACE		15010580	15010580		PRESERVATIVE CODE:			PRESERVATIVE KEY
PROJECT MANAGER:			IY/SIAIE) AUUI	KESSC:	BOTTLE TYPE: BOTTLE SIZE			0 - ICE 1 - HCI
Kelly.Miller@PACELABS.COM	5	λ			SE			2 - HNO3
SAMPLED BY: (Please Print)		REQUIRED TUI	REQUIRED TURN AROUND TIME:		IJNIA.			4 - NaOH
SAMPLING, FIRM:				9102/6/2	LNO	sepio,		6 - Zn. Acetate
Samples were received a Schundroy led out of temp. (ange .	(a) Schneder Je :		NAME OF COURIER (IF USED):		R OF C	LOLP PESH		7 - NaHSO4 8 - Other (Na2SO3)
ELECTRONIC RESULTS NIC	NICOLE.JOHNSON@PACELABS.CO	<u>ON@PACEI</u>	LABS.COI	LAB	<u> </u>		_/ /	
SAMPLE ID	DATE TIME	MATRIX	GRAB/ COMP	SAMPLE IU (LAB USE ONLY)	<u>м</u>			REMARKS.
	1/29/15 9:45	5 S	COMP /	AS02427	2 X X			501H35
AMBIENT OR CHILLED: TEMP:	Н.	COC TAPE:	Z S		PROPERLY PRESERVED:	N Y	OTHER NOTES: Analytical Report	OTHER NOTES: Analytical Report [LEVEL-2] EDD: EQUIS-DEC-DE
RECEIVED BROKEN OR LEAKING: Y	*z	COC DISCREPANCIÉS:	ANICIÉS: Y		RECVD W/I HOLDING TIMES:	N Y		
	RECEIVED BY	DBY CCDAX	SIGNATURE	Ler 2 V			RELINQUISHED BY SIGNATURE	RECEIVED BY
	PRINTED NAME		PRINTED NAME	5	PRINTED NAME		PRINTED NAME	ME
COMPANY	COMPANY		COMPANY		COMPANY DACE	COMPANY	COMPANY	
DATE/TIME [29/(5 1500 DA	DATE/TIME		DATE/TIME		DATE/TIME 1130/15		DATE/TIME	
				623146896399	6399			S:NOGINIMDI COCS

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	Page: 1 of 1	JCY	DRINKING WATER		N N	THER	$\left \right $			inal Citionina	·	* TCLP - 8230, 8270, herbicides. pesticides	metals, and mercury.	Kegular PCB's										ŭ	6.9 2 2 3	N/A		p in °C	Sealed Sealed Sealed	29Mar06122.iun2005
CHANNOF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed 315010580P1>	150105801	REGULATORY AGENCY			GA	ON T OH 7 SC					///////////////////////////////////////	CCPEOSA												DATE TIME	1/24/15/10:21/	-			ned 1/25/15	d-File(ALLO020rev.4.29Mar06)22.iun2005
ical Reque			WPDES	L UST		LOC/	Filtered (Y/N)	Requested	Ant	COPULIE TEL		×												Ϋ́	(BC)	·			DATE Signed (MM / DD / YY):	
HAN OCTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed <51501058	•	Accounts Payable	and Loguidice, DPC	290 Elwood Davis Road, Box 3107 Svranuse NY 13220	De: 00014909	Kelly Miller		Presenvatives		O ³ !O" !Co"	N ^{B2} N ^{BC} HCI H ³ S	×													10:20 × 1utt			Nathan Shaffer	1 mart	
	Section C	Attention: Accou	Company Name: Barton and Loguidice, DPC	Address: 290 Elwo Svrause	Pace Quote Reference: 00	Pace Project Manager: Ke	Pace Profile #	CTED	ECTION TEMP			1/25 5.45 4	,												1/24/15 10	-		AN No	SIGNATURE of SAMPLER:	
DUPL 2 2 2 3 08	Section B Required Project Information:	Report To: Andy Barber	Nathan Shaffer				tber: 1368.001.001			AMA2 IARD=D	DATE	SL & 1/2 5:45									-				1 HTM			PRINT N	SIGNAT	
New York Office 2190 Technology Dr. Schenectady, NY 12308 56 (518) 346-4592	Section B Required P		Copy To:		oguidice.com Purchase	Fax: 518-218-1805 Project Name:	Project Number.	ol of		OIL OL OL WIFE VMP VMP AR NIFE OL TISSUE TISSUE TISSUE TISSUE TIS																		•		
Pace Analytical	Section A Required Client Information:	Company: Barton and Loguidice DPC	Address: 10 Airline Drive, Suite 200	Albany, NY 12205	Email To: nshaffer@bartonandloguidice.com	8-218-1801	ed Standard ⊮TAT:	Section D Required Client Information	SAMPLE ID	IQUE		D-09											SEMBILIARY STREET	Standard Dafiverables						
- A Contraction of the second s	Section A Required C	Compa	Addres	Albany,	Email T	Phone:	Requested Due Date/TAT:	<u> </u>	·····	ٽ EW#.	11		N	е	ষ	Ŋ	g	7	a)	G	10	Ę	12	Standard		-				

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	DUPLICATE	CATE		unla Con		Samula Condition I Inon Paraint		<1501.0580D7~	
Pace Analytical	vtica	i i i i i i i i i i i i i i i i i i i	201						
a contraction of the second			·			CLIENT NAME: BAR-ALD PROJECT : ALDO	R-ALB	150105802	
COURIER: FedExUPSClie TRACKING #/A	Client	Pace D CUSTODY	Other Othes V SEAL PRESENT: Yes	ENT: Yes 🗆		INTACT: Yes \square	ON	N/AN	
/rap 🗆	Bubble Bags 🗆		None	Other 🗆	D	•	/ Blue D	None	
THERMOMETER USED: #164 a IR Gu	IR Gun 03첫 Mon	#122087967 D	967 🗆		COOLER TEM	COOLER TEMPERATURE (°C): C	0.0		
	2				COMMENTS:	reinp shound be above rreezing to o c			
Chain of Custody Present:	A Yes	°N D		1.					
Chain of Custody Filled Out:	X)Yes	OND		2.					
Chain of Custody Relinquished:	B Yes	on D		3.					
Sampler Name / Signature on COC:	T res	°N D		4.			-		
Samples Arrived within Hold Time:	W Yes	0No		5.					
Short Hold Time Analysis (<72hr):	 □Yes	DNo DNo		6.		:			
Rush Turn Around Time Requested:	⊡Yes	K No		7.					
Sufficient Volume:	Wes	DNG		8.					
Correct Containers Used:	-Eg Yes	on D	I	9.					
- Pace Containers Used:	-Edves	on							
Containers Intact:	M ^{ees}	0NO		10.					
Filtered volume received for Dissolved tests:	□Yes	ONO	DINA	11.					
Sample Labels match COC:	A Ves	on		12.					
 Includes date/time/ID/Analysis 									
Ail containers needing preservation have been checked:	Dyes	°N III	ANA	13.	·		·		
All containers needing preservation are in	□Yes	DNC	DINA						
compliance with EPA recommendation:				Initial when	V / V	Lot # of	Lot # of added preservative:	itive:	
- Exceptions that are not checked: VOA				completed:	z		N/A		
Headspace in VOA Vials (>6mm):	□ Yes	oN□	DINA	14.					
Trip Blank Present:	□ Yes	on D	DINA	15.				•	
Trip Blank Custody Seals Present:	□ Yes	°N L	ANA			·		·	
Sample Receipt form filled in: A30 1/29 /	2	Line-Out (Includes Cop	ying Shippin	g Documents	Line-Out (Includes Copying Shipping Documents and verifying sample pH):	e pH):	21 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
)	Log In (Inc Labeling (cludes notify Includes Scar	ing PM of an nning Bottles	/ discrepacies and entering	Log In (Includes notifying PM of any discrepacies and documenting in LIMS): Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):	n LIMS): A	<u>JB 1/29/15</u> JB 1/29/15	
LOGIN_SCUR_FORM_052914_Rev01_01	01							-	

15010580 - Page 46 of 46

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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.

Koy Sme

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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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,

Julian Briggers

Jill Grygas 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 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 – 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



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



-CUSTODY / Analytical Request Document

dy is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Secti Requi	on A red Client Information:	v ⁻¹	Section I Required		t Infor	mation:	· · ·	Section Invoice I	n C nformatio	n:	e4*								1	i.									Page:	1	of	1
Comp	any: Barton and Loguidice	DPC	Report To:	And	y Bar	ber	ŵ	Attentic	n:	Acc	ounts	s Pa	yable	,			$\left \right $						RE	GU	LAT	٥R١	Y AG	GEN(CY			
Addre	ss: 10 Airline Drive, Suite 200		Copy To:	Nath	nan S	haffer		Compan	y Name:	Bar	ton a	nd L	.oguid	ice,	DPC	2	1.	Ē	NPD	ES	Г	GR	OUND	WA ⁻	FER	Г	DF	rinki	NG W/	ATER		
Albany	/, NY 12205		Rosemary	McCo	mick			Addres	S:		lwood E cuse NY		Road, B 20	ox 31	07			E	UST	Г	Г	RCF	RA			٢	тотн	HER_		·		
Email	To: rmccormick@bartona	andloguidice.	Purchase Order No.:					Pace Quo	te Referen	ce:	0001	490	9							S	ΤE			Г	GA	Г	- IL	Γ	N	E vi l		;
hone	518-218-1801 Fax: 51	8-218-1805	Project Na	me:	ALCO	0		Pace Proj	ect Manag	er:	Nich	olas	Nicho	olas						LOC	ATIC	ΟN		Г	ОН	F	- so		WI	Г отне	R	<u> </u>
leques due Da	sted Standard		Project Num	ber:	1368	8.001.001		Pace Pro	ofile #:									Filte	red (\	r/N)		//	77	77	77	7	77	77	77	777	7	
-	Section D Required Client Information	Valid Matrix Codes MATRIX 0	CODE				COLU	ECTED		F	ŝ		. Þ	reser	vative	e		Req	ueste	d /	1].	17	77.	17	7/	17	77	7	17		/	
#	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	DRINKING WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER	DW WT SL OL WP AR OT	MATRIX CODE	SAMPLE TYPE S=GRAB C=COMP	CON ST	IPOSITE ART	COMP END/C	OSITE	SAMPLE TEMP A COLLECTION	# OF CONTAINERS	Jupreserved						An	Colonie											al Chome (VN)	Pace P	Irolaat
ITEM		TISSUE	TS			DATE	TIME	DATE	TIME			-	H ₂ SO ₄ HNO ₃	Ē	NaOH	Na ₂ 5203 Methanol	Other		17	//	//	4	///	//	[[4	//	[[Resid	/		Lab
1	0-10		×	SL.	C	4/22	12:30				4	X	_						×			+	+		AS	6T	777	74	-	* TCLP herbicide metals,	es, pes and m	sticide nercury
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<u><13040321PZ></u>

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ple Condition Upon Receipt

		.					Bar Alb	· · · · · · · · · · · · · · · · · · ·
TRACKING # $N A$	nt∕∕		Othe DY SEAL PRE	SENT: Yes 🗆	No 'Ħ			N/A Z
	Bubble Ba	•	None	Other 🗆				None 🗆
THERMOMETER USED: #164			3 7967 🗆	÷	COOLER I	EMPERATURE (°C) : Temp should be a	• 1	
BIOLOGICAL TISSUE IS FROZEN: Yes 🗆	No 🗆	N/A)B	N		COMMEN	•		
Chain of Custody Present:	Yes	□No		1.	-			
Chain of Custody Filled Out:	Yes	No		2.		-	х.	
Chain of Custody Relinquished:	Yes	□No		3.				
Sampler Name / Signature on COC:	VEYes	□No	. ¹	4.		<u> </u>	÷	
Samples Arrived within Hold Time:	Aves	□ No		5.				
Short Hold Time Analysis (<72hr):	□Yes	No		6.	<u></u>		·	
Rush Turn Around Time Requested:	□ Yes	No No		7.			· · ·	
Sufficient Volume:	VIYes	□ No		8.				
Correct Containers Used:	Øves	No		9.				<u> </u>
- Pace Containers Used:	Yes	□No				î.		·
Containers Intact:	Tyes	□ No	¥	10.				
iltered volume received for Dissolved tests:	□Yes	□ No	"AN/A	11.				
Sample Labels match COC: - Includes date/time/ID/Analysis	Ves	□No	•	12.				
All containers needing preservation have been checked:	□Yes	□no	XN/A	13.				
All containers needing preservation are in compliance with EPA recommendation:	Yes	□No	'Ş'N/A	Initial whe	n A D	Lot	# of added preser	vative:
- Exceptions that are not checked: VOA				completed	1: <u>AJP</u>	<u></u>	A/A	
leadspace in VOA Vials (>6mm):	` □Yes	□ No		14.				-
rip Blank Present:	□Yes	□ No	Æ N/A	15.				
Trip Blank Custody Seals Present: Pace Trip Blank Lot #:	□Yes	□No				<u> </u>		
Sample Receipt form filled in: <u>AJB 4/JA</u>	5	Log In (Includes not	ifying PM of a	ny discrepa	nts and verifying sa cies and documenti	ng in LIMS): 4	AJB 4/22/15 1AW 4/22/15 AJB 4/22/15

Pace Analytical Services, Inc.

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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 SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ¹SAMPLES PRESERVED PER METHOD GUIDANCE: YES SHIPPING ID: R. MCCORMICK-BAR AL ³ SAMPLES REC'D IN HOLDTIME: YES NUMBER OF COOLERS: 1 DISPOSAL: BY LAB (45 DAYS) CUSTODY SEAL INTACT: NA COC DISCREPANCY: NO COOLER STATUS: CHILLED TEMPERATURE(S): ⁵15.4 °C

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	

¹The 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. ²The 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. ³Samples 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

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.

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.

⁵All 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.

6Samples 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

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Page 1 of 1

2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055

GC - PCB



Analytical Sample Results

Job Number: 15040327

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-2492-2	5 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 Fact	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	(0)	\mathbf{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

¹Qualifier 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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Quality Control Samples (Lab)



Quality Control Results Method Blank Job Number: 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 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 Fact	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	Ď)	\mathbf{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

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: 15040327

Project: A Client San	LCO	DECOUIDICE Control Sample (AS07772L) -51			Collecti Sample Receive Percent	Matrix d Date:	: SOIL N/A	,	
Analysis 1: Prep 1:	Batch ID GC21F-2492-2- 30531	Method 4 SW-846 8082A (PCB) EPA 3545A	Dat 04/27/2015 04/24/2015	5 15:02	Analyst MCA MH	N	Vt./Vol. A 3 g	Final Vol. NA 25.0 mL	Column Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm NA
Analyte Sp	iked	CAS No.	Added (ug/g)	LC (ug/			1	Limits (%)	
Aroclor 1242 ¹ Qualifier colum	n where '*' denotes	53469-21-9 value outside the control limits. Note: RPE	1.21 criteria does no	0.988 t apply if	either the same	1.6 nple and du nits		0.0-130 nple are not detec	ted.

Surrogate	CAS No.	% Recovery	(%)	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 val	ue 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



575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

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 :

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.

Lab No. : 1504H69-001 Client Sample ID: D-10 Sample Information:

Type: Soil

Origin:

Analytical Method: SW1311/827	OD: Prep	Method: SW	/3520C		Prep Date:	4/30/2015 8:00:00 PM	Analyst: SH
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			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: SW1311/815	i1A: Prep	Method: SW	/1311/8151		Prep Date:	4/27/2015 12:29:27 PM	Analyst: MJM
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			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: SW1311/747	'0A : <u>Prep</u>	Method: SW	/7470		Prep Date:	4/28/2015 7:45:00 AM	Analyst: JL
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>			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

 ${\sf c}$ = Calibration acceptability criteria exceeded for this analyte

- Penerting limits MPL and < LOO. Value estimated.

J = Estimated value - below calibration range

S = Recovery exceeded control limits for this analyte N = Indicates presumptive evidence of compound Date Reported

radelin Atachingon

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Page 1 of 14

Pace Analytical"

 575 Broad Hollow Road , Melville, NY 11747

 TEL: (631) 694-3040
 FAX: (631) 420-8436

 NYSDOH ID#10478
 www.pacelabs.com

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 :

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.

Lab No. : 1504H69-001 Client Sample ID: D-10 Sample Information:

Type: Soil

Origin:

Analytical Method:	SW1311/6010C :	Prep M	<u>Method:</u> SW	/3005A	Prep Date: 4/28/2015 7:30:00 AM	Analyst: CGZ
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	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 M	Method: SW	/3510C	Prep Date: 4/30/2015 3:30:00 PM	Analyst: JS
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	Analyzed:	Container:
Chlordane	< 0.0040	C	1	mg/L	04/30/2015 9:29 PM	Container-01 of 02
Endrin	< 0.0004	40	1	mg/L	04/30/2015 9:29 PM	Container-01 of 02
gamma-BHC	< 0.0002	20	1	mg/L	04/30/2015 9:29 PM	Container-01 of 02
Heptachlor	< 0.0002	20	1	mg/L	04/30/2015 9:29 PM	Container-01 of 02
Heptachlor epoxide	< 0.0002	20	1	mg/L	04/30/2015 9:29 PM	Container-01 of 02
Methoxychlor	< 0.0020	D	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
Toxaphene	< 0.020	1	mg/L		04/30/2015 9:29 PM
Surr: Decachlorobiphenyl	60.4	1	%REC	Limit 30-150	04/30/2015 9:29 PM
Surr: Tetrachloro-m-xylene	86.8	1	%REC	Limit 30-150	04/30/2015 9:29 PM

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
- $\ensuremath{\mathsf{c}}$ = 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

Date Reported : 5/1/2015

radein Statchinson

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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Container-01 of 02

Container-01 of 02

Container-01 of 02

ace Analytical

575 Broad Hollow Road, Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 www.pacelabs.com

Pace Analytical Services Inc. 2190 Technology Drive Schenectady, NY 12308

Attn To : William A. Kotas

Collected : 4/22/2015 12:30:00 PM AS07772 : 4/22/2015 9:40:00 PM Received

Collected By :

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.

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	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	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	с	1	mg/L	04/24/2015 2:29 PM	Container-01 of 01
Surr: 1,2-dichloroethar	ne-d4 115		1	%REC	Limit 53-183 04/24/2015 2:29 PM	Container-01 of 01
Surr: 4-Bromofluorobe	nzene 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

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 5/1/2015

Date Reported :

radein Statchinson

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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May 01, 2015



575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis:	HERBICID	ES, TCLP I	.eached							We	orkOrd	er:	15	04H6	9
Method:	1311_H									La	b Batcl	n ID:	49	550	
D ID 70000	Method														
RunID: 73828	SeqN	lo 160626	4 Un	its: m	ng/L										
Analysis Date:	4/24/2015 10:4	1:04 AM	An	alyst: N	1JM										
Ana	lyte	Result	Rep Lin	•	o Qua	Ι									
Surr: DCAA		0.07	3	0											
Labor	atory Control	Sample (LC	S/LFB)												
RunID: 73828	SeqN	lo 160626	9 Un	its: m	ng/L										
Analysis Date:	4/24/2015 11:2	8:28 AM	An	alyst: N	1JM										
Analy	/te	LCS L Spike Added	CS Result	LCS Recov	ery	LCSD Spike Added	LCSD Result	LCS Reco		RPD	RPD Limit	Low Limi		gh mit	Qual
Surr: DCAA		0.1000	0.058		58.2							:	36	121	
Matrix Spik	e (MS) / Matrix	x Spike Du	olicate (MS	<u>D)</u>											
Sample Spiked:	1504E43-002	2B													
RunID: 73828	SeqN	lo 160726	2 Un	its: m	ng/L										
Analysis Date:	4/24/2015 2:38	:06 PM	An	alyst: N	1JM										
Analy		Sample MS Result Spi Ado	ke Result	MS % Rec	Low Limit	High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit	Low Limit	High Limit	Qua	I
Surr: DCAA		0.1	000 0.058	58.5	36	121									
	<u>Method</u>	Blank													
RunID: 74001	SeqN	lo 160979	8 Un	its: m	ng/L										
Analysis Date:	4/28/2015 1:28	:32 PM	An	alyst: N	1JM										

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	В	Analyte detected in the associated Method Blank
	D	Dilution was required.	Е	Value above quantitation range
	Η	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	М	Manual Integration used to determine area response	Ν	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	0	RSD is greater than RSDlimit
	S	Spike Recovery outside accepted recovery limits		



Surr: DCAA

PACE ANALYTICAL

575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

0.073

0

PACE ANALYTICAL

10478

Analysis:	: HE	ERBICIDES	6, TCLP Le	eached	
Method:	13	511_H			
		Method B	lank		
RunID:	74073	SeqNo	1611477	Units:	mg/L
Analysis E	Date: 4/29/20	015 6:57:4	5 AM	Analys	st: MJM
	Analyte		Result	Rep Limit	Rep Qual
2,4-D			< 0.0050	0.0050	
2,4,5-TP	(Silvex)		< 0.0025	0.0025	

Qualifiers: * Value exceeds Maximum Contaminant Level В Analyte detected in the associated Method Blank D Dilution was required. Е Value above quantitation range J Analyte detected below quantitation limits

- Η Holding times for preparation or analysis exceeded
- Manual Integration used to determine area response М
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

5/1/2015 4:14:09 PM

Ν

0

Tentatively identified compounds

RSD is greater than RSDlimit

Page 5 of 14



575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

					10478							
Analysis:	HERBICI	DES, TCLI	P Leached					w	orkOrde	ər:	1504H6	9
Method:	1311_H							La	ab Batch	ID:	49628	
	Metho	d Blank										
RunID: 74	1073 Seq	No 1611	478 Uni	its: mg/L								
Analysis Date	e: 4/29/2015 7:1	3:30 AM	Ana	alyst: MJM								
	Analyte	Resu	It Rep Lim	it Rep Qua	al							
2,4-D	•	< 0.00	050 0.00	-								
2,4,5-TP (Sil	lvex)	< 0.00	025 0.00	25								
Surr: DCA	A	0.0	085	0								
<u>La</u>	aboratory Control	l Sample (LCS/LFB)									
RunID: 74	1001 Seq	No 1609	800 Uni	its: mg/L								
Analysis Date	e: 4/28/2015 2:0	0:07 PM	Ana	alyst: MJM								
Δ	nalyte	LCS	LCS Result	LCS %	LCSD	LCSD	LCSD %	RPD	RPD	Low	High	Qual
	lindigito	Spike	Loo Rooun	Recovery	Spike	Result	Recovery		Limit	Limit	Limit	quui
		Added		-	Added							
2,4-D		0.02000		93.9						47	152	
2,4,5-TP (Silve	,	0.01000		89.0						44	157	
Surr: DCAA		0.1000		71.5						36	121	
	boratory Control	No 1611		ite: ma/l								
				0								
Analysis Date	e: 4/29/2015 8:0	0:52 AM	Ana	alyst: MJM								
A	nalyte	LCS	LCS Result		LCSD	LCSD	LCSD %	RPD	RPD	Low	High	Qual
		Spike		Recovery	Spike	Result	Recovery		Limit	Limit	Limit	
					•	Result	Recovery		Linin			
		Added		_	Added	Result	Recovery		Linit			
,		Added 0.02000		97.2	•	Nesuit	Recovery		Linit	47	152	
2,4,5-TP (Silve		Added 0.02000 0.01000	0.0094	97.2 94.2	•	Nesun				47 44	152 157	
2,4,5-TP (Silve Surr: DCAA	l l	Added 0.02000 0.01000 0.1000	0.0094 0.076	97.2 94.2 76.1	•	Nesur				47	152	
2,4,5-TP (Silve Surr: DCAA <u>Matrix S</u>	Spike (MS) / Matr	Added 0.02000 0.01000 0.1000 ix Spike D	0.0094 0.076	97.2 94.2 76.1	•	Result	Recovery			47 44	152 157	
2,4,5-TP (Silve Surr: DCAA <u>Matrix S</u> Sample Spike	S pike (MS) / Matr ed: 1504175-00	Added 0.02000 0.01000 0.1000 ix Spike D 1B	0.0094 0.076 Duplicate (MS	97.2 94.2 76.1 D	•	rtesuit				47 44	152 157	
2,4,5-TP (Silve Surr: DCAA <u>Matrix S</u> Sample Spike RunID: 74	Spike (MS) / Matr ed: 1504I75-00 4073 Seq	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114	0.0094 0.076 Duplicate (MS 484 Uni	97.2 94.2 76.1 D) its: mg/L	•	result				47 44	152 157	
2,4,5-TP (Silve Surr: DCAA <u>Matrix S</u> Sample Spike RunID: 74	S pike (MS) / Matr ed: 1504175-00	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114	0.0094 0.076 Duplicate (MS 484 Uni	97.2 94.2 76.1 D	•	result				47 44	152 157	
2,4,5-TP (Silve Surr: DCAA <u>Matrix S</u> Sample Spike RunID: 74 Analysis Date	Spike (MS) / Matr ed: 1504I75-00 4073 Seq	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample	0.0094 0.076 Duplicate (MS 484 Uni Ana MS MS	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low	Added	MSD I	NSD MSD		RPD	47 44 36	152 157 121	al
2,4,5-TP (Silve Surr: DCAA <u>Matrix S</u> Sample Spike RunID: 74 Analysis Date	Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result S	0.0094 0.076 Duplicate (MS 484 Uni Ana MS MS Result	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low	Added High t Limit	MSD I Spike R				47 44 36	152 157 121	al
2,4,5-TP (Silve Surr: DCAA <u>Matrix S</u> Sample Spike RunID: 74 Analysis Date A	Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result S A	0.0094 0.076 0uplicate (MS 484 Uni Ana MS MS rpike Result dded	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low Rec Limi	Added High Limit	MSD I	NSD MSD		RPD	47 44 36	152 157 121	al
2,4,5-TP (Silve Surr: DCAA <u>Matrix S</u> Sample Spike RunID: 74 Analysis Date A	Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4 Analyte	Added 0.02000 0.01000 ix Spike D 1B No 1611 8:09 AM Sample Result S A 0 0.0	0.0094 0.076 Duplicate (MS 484 Uni Ana MS MS Pipike dded Result	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low Rec Limi 97.2 3	Added High t Limit 9 111	MSD I Spike R	NSD MSD		RPD	47 44 36	152 157 121	al
2,4,5-TP (Silve Surr: DCAA Matrix S Sample Spike RunID: 74 Analysis Date 2,4-D 2,4,5-TP (Silve	Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4 Analyte	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result S 0 0.0 0 0.0	0.0094 0.076 Duplicate (MS 484 Uni Ana MS MS Result dded Result 02000 0.019 01000 0.010	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Rec Low Limi 97.2 33 99.7 4	High t Limit 9 1111 8	MSD I Spike R	NSD MSD		RPD	47 44 36	152 157 121	al
2,4,5-TP (Silve Surr: DCAA <u>Matrix S</u> Sample Spike RunID: 74 Analysis Date A	Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4 Analyte	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result S 0 0.0 0 0.0	0.0094 0.076 Duplicate (MS 484 Uni Ana MS MS Pipike dded Result	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low Rec Limi 97.2 3	High t Limit 9 1111 8	MSD I Spike R	NSD MSD		RPD	47 44 36	152 157 121	al
Matrix S Sample Spike RunID: 74 Analysis Date A 2,4-D 2,4,5-TP (Silve	Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4 Analyte	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result S 0 0.0 0 0.0	0.0094 0.076 Duplicate (MS 484 Uni Ana MS MS Result dded Result 02000 0.019 01000 0.010	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Rec Low Limi 97.2 33 99.7 4	High t Limit 9 1111 8	MSD I Spike R	NSD MSD		RPD	47 44 36	152 157 121	al
2,4,5-TP (Silve Surr: DCAA Matrix S Sample Spike RunID: 74 Analysis Date 2,4-D 2,4,5-TP (Silve	Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4 Analyte	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result S 0 0.0 0 0.0	0.0094 0.076 Duplicate (MS 484 Uni Ana MS MS Result dded Result 02000 0.019 01000 0.010	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Rec Low Limi 97.2 33 99.7 4	High t Limit 9 1111 8	MSD I Spike R	NSD MSD		RPD	47 44 36	152 157 121	al
2,4,5-TP (Silve Surr: DCAA Matrix S Sample Spike RunID: 74 Analysis Date 2,4-D 2,4,5-TP (Silve Surr: DCAA	Spike (MS) / Matr Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4 Analyte	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result S 0 0.0 0 0.0 0 0.0 0 0.0	0.0094 0.076 Duplicate (MS 484 Uni Ana MS MS Result dded 02000 0.019 01000 0.010 .1000 0.081	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low Rec Limi 97.2 3: 99.7 4: 81.5 3:	High t Limit 9 1111 8	MSD I Spike R	MSD MSD		RPD	47 44 36	152 157 121	al
2,4,5-TP (Silve Surr: DCAA Matrix S Sample Spike RunID: 74 Analysis Date 2,4-D 2,4,5-TP (Silve Surr: DCAA RunID: 74	Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4 Analyte ex) Analyte Methor 1024 Seq	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result S 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0	0.0094 0.076 Duplicate (MS 484 Uni Ana MS MS Result dded 02000 0.019 01000 0.010 0.1000 0.081 386 Uni	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low Rec Limi 97.2 3 99.7 4 81.5 3 99.7 4 81.5	High t Limit 9 1111 8	MSD I Spike R	MSD MSD		RPD	47 44 36	152 157 121	al
2,4,5-TP (Silve Surr: DCAA Matrix S Sample Spike RunID: 74 Analysis Date 2,4-D 2,4,5-TP (Silve Surr: DCAA RunID: 74 Analysis Date	Spike (MS) / Matr Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4: Analyte	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result 0 0.0 0 0.	0.0094 0.076 Duplicate (MS 484 Uni Ana MS MS Result dded 02000 0.019 01000 0.010 .1000 0.010 .1000 0.081 386 Uni	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low Rec Limi 97.2 3: 99.7 4: 81.5 3: 99.7 4: 81.5 3: 15: mg/L alyst: HT	Added High Limit 9 111 8 113 6 121	MSD I Spike R	MSD MSD		RPD	47 44 36	152 157 121	al
2,4,5-TP (Silve Surr: DCAA Matrix S Sample Spike RunID: 74 Analysis Date 2,4-D 2,4,5-TP (Silve Surr: DCAA RunID: 74 Analysis Date	Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4 Analyte ex) Analyte Methor 1024 Seq	Added 0.02000 0.01000 0.10000 ix Spike D 1B No 16114 8:09 AM Sample Result S 0 0.0	0.0094 0.076 0uplicate (MS 484 Uni Ana MS MS pike Result 02000 0.019 01000 0.010 0.1000 0.010 0.000 0.011 386 Uni Ana 1t Rep Lim	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low Limi 97.2 3 99.7 4 81.5 3 99.7 4 1 81.5 3 1 15 8 1.5 3	Added High Limit 9 111 8 113 6 121	MSD I Spike R	MSD MSD		RPD	47 44 36	152 157 121	al
2,4,5-TP (Silve Surr: DCAA Matrix S Sample Spike RunID: 74 Analysis Date 2,4-D 2,4,5-TP (Silve Surr: DCAA RunID: 74 Analysis Date Arsenic	Spike (MS) / Matr Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4 Analyte	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result SA 0 0.0	0.0094 0.076 0uplicate (MS 484 Uni Ana MS MS Result dded 0.019 01000 0.019 01000 0.010 0.1000 0.010 0.000 1.001 Ana 1t Rep Lim .00 1.	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low Rec Limi 97.2 3 99.7 4 81.5 3 99.7 4 81.5 3 its: mg/L alyst: HT it Rep Qua 00	Added High Limit 9 111 8 113 6 121	MSD I Spike R Added	MSD MSD Result Red		RPD Limit	47 44 36 Limit Li	152 157 121 mit Qu	al
2,4,5-TP (Silve Surr: DCAA Matrix S Sample Spike RunID: 74 Analysis Date 2,4-D 2,4,5-TP (Silve Surr: DCAA RunID: 74 Analysis Date Arsenic	Spike (MS) / Matr Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4: Analyte	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result SA 0 0.0	0.0094 0.076 0uplicate (MS 484 Uni Ana MS MS pike Result 02000 0.019 01000 0.010 0.1000 0.010 0.000 0.011 386 Uni Ana 1t Rep Lim	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low Rec Limi 97.2 3 99.7 4 81.5 3 99.7 4 81.5 3 its: mg/L alyst: HT it Rep Qua 00	Added High Limit 9 111 8 113 6 121	MSD R Spike R Added	MSD MSD Result Res	ected in the	RPD Limit	47 44 36 Limit Li	152 157 121 mit Qu	al
2,4,5-TP (Silve Surr: DCAA Matrix S Sample Spike RunID: 74 Analysis Date 2,4-D 2,4,5-TP (Silve Surr: DCAA RunID: 74 Analysis Date Arsenic	Spike (MS) / Matr Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4 Analyte	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result S 0 0.0 1 0.0 0 0.0 0 0.0 0	0.0094 0.076 0uplicate (MS 484 Uni Ana 5pike dded Result 02000 0.019 01000 0.010 0.000 0.010 0.000 0.081 386 Uni Ana 1t Rep Lim .00 1.	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low Rec Limi 97.2 33 99.7 4 81.5 30 99.7 4 81.5 30 its: mg/L alyst: HT it Rep Qua 00	Added High Limit 9 111 8 113 6 121	MSD F Spike R Added B E	MSD MSD Result Result Value abov	ected in the quantita	RPD Limit he associat	47 44 36 Limit Li	d Blank	al
2,4,5-TP (Silve Surr: DCAA Matrix S Sample Spike RunID: 74 Analysis Date 2,4-D 2,4,5-TP (Silve Surr: DCAA RunID: 74 Analysis Date Arsenic	Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:44 Analyte	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result SA 0 0.0	0.0094 0.076 Duplicate (MS 484 Uni Ana MS MS Result dded 0.019 01000 0.019 0.0010 0.019 0.0010 0.019 0.0010 0.019 0.0010 0.019 0.0000 0.010 0.0000 0.019 0.0000 0.019 0.0000 0.010 0.0000 0.0000 0.0000000000	97.2 94.2 76.1 D its: mg/L alyst: MJM MS % Low Rec Limi 97.2 3: 99.7 4: 81.5 3: 99.7 4: 81.5 3: 14: 81.5 3: 99.7 4: 81.5 3: 90.7 4: 81.5 3: 91.5 4: 91.5 4: 91	Added High Limit 9 111 8 113 6 121	MSD F Spike R Added B E J	Analyte det Value abov Analyte det	ected in the quantita	RPD Limit tion range w quantit	47 44 36 Low H Limit Li	d Blank	al
2,4,5-TP (Silve Surr: DCAA Matrix S Sample Spike RunID: 74 Analysis Date 2,4-D 2,4,5-TP (Silve Surr: DCAA RunID: 74 Analysis Date	Spike (MS) / Matr Spike (MS) / Matr ed: 1504175-00 4073 Seq e: 4/29/2015 8:44 Analyte	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result S A 0 0 0.0 <t< td=""><td>0.0094 0.076 Ouplicate (MS 484 Uni Amage: Amage of the second s</td><td>97.2 94.2 76.1 D its: mg/L alyst: MJM MS % Low Rec Limi 97.2 3: 99.7 4: 81.5 3: 99.7 4: 81.5 3: 14: 81.5 3: 99.7 4: 81.5 3: 90.7 4: 81.5 3: 91.5 4: 91.5 4: 91</td><td>Added High Limit 9 111 8 113 6 121</td><td>MSD F Spike Added B E J N</td><td>Analyte det Value abov Analyte det Tentatively</td><td>ected in the quantita ected belo</td><td>RPD Limit tion range w quantit compour</td><td>47 44 36 Low H Limit Li</td><td>d Blank</td><td>al</td></t<>	0.0094 0.076 Ouplicate (MS 484 Uni Amage: Amage of the second s	97.2 94.2 76.1 D its: mg/L alyst: MJM MS % Low Rec Limi 97.2 3: 99.7 4: 81.5 3: 99.7 4: 81.5 3: 14: 81.5 3: 99.7 4: 81.5 3: 90.7 4: 81.5 3: 91.5 4: 91.5 4: 91	Added High Limit 9 111 8 113 6 121	MSD F Spike Added B E J N	Analyte det Value abov Analyte det Tentatively	ected in the quantita ected belo	RPD Limit tion range w quantit compour	47 44 36 Low H Limit Li	d Blank	al
2,4,5-TP (Silve Surr: DCAA Matrix S Sample Spike RunID: 74 Analysis Date 2,4-D 2,4,5-TP (Silve Surr: DCAA RunID: 74 Analysis Date Arsenic	Spike (MS) / Matr Spike (MS) / Matr ed: 1504175-00 1073 Seq e: 4/29/2015 8:4: Analyte	Added 0.02000 0.01000 0.1000 ix Spike D 1B No 16114 8:09 AM Sample Result S A 0 0 0.0 <t< td=""><td>0.0094 0.076 Duplicate (MS 484 Uni Ana MS MS Result dded 0.019 01000 0.019 0.0010 0.019 0.0010 0.019 0.0010 0.019 0.0010 0.019 0.0000 0.010 0.0000 0.019 0.0000 0.019 0.0000 0.010 0.0000 0.0000 0.0000000000</td><td>97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low 97.2 30 99.7 40 81.5 30 its: mg/L alyst: HT its: mg/L alyst: HT sits Rep Qua 00 </td><td>Added High Limit 9 111 8 113 6 121</td><td>MSD F Spike R Added B E J</td><td>Analyte det Value abov Analyte det</td><td>ected in the quantita ected belo</td><td>RPD Limit tion range w quantit compour</td><td>47 44 36 Low H Limit Li</td><td>d Blank</td><td>al</td></t<>	0.0094 0.076 Duplicate (MS 484 Uni Ana MS MS Result dded 0.019 01000 0.019 0.0010 0.019 0.0010 0.019 0.0010 0.019 0.0010 0.019 0.0000 0.010 0.0000 0.019 0.0000 0.019 0.0000 0.010 0.0000 0.0000 0.0000000000	97.2 94.2 76.1 D) its: mg/L alyst: MJM MS % Low 97.2 30 99.7 40 81.5 30 its: mg/L alyst: HT its: mg/L alyst: HT sits Rep Qua 00	Added High Limit 9 111 8 113 6 121	MSD F Spike R Added B E J	Analyte det Value abov Analyte det	ected in the quantita ected belo	RPD Limit tion range w quantit compour	47 44 36 Low H Limit Li	d Blank	al



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Quality Control Report

				PACE	ANAL	YTICA						
					10478							
Analysis:	ICP METALS, TO	CLP Lea	ached					w	orkOrde	er:	1504H6	59
Method:	1311_M							La	b Batch	ID:	49641	
	Method Blank											
RunID: 74024	SeqNo 16	10386	Units	s: mg/L								
Analysis Date: 4/2	28/2015 2:17:12 PM	1	Anal	yst: HT								
Analyt	e Re:	sult	Rep Limit	Rep Qu	al							
Barium		< 10.0	10.	0								
Cadmium		0.100	0.10	-								
Chromium		< 1.00	1.0	-								
<u>_ead</u> Selenium		< 1.00 0.100	1.0 0.10									
Silver		< 1.00	1.0									
	ory Control Sample											
RunID: 74024	SeqNo 16		Units	s: mg/L								
	28/2015 2:29:38 PM			yst: HT								
-										•		
Analyte			S Result	LCS %	LCSD	LCSD	LCSD %	RPD	RPD	Low	High	Qual
	Spike			Recovery	Spike Added	Result	Recovery		Limit	Limit	Limit	
raania		-	< 1.00	00.6	Auucu					90	120	
arsenic Barium	0.50		< 1.00 < 10.0	99.6 96.9						80 80	120 120	
admium	2.5		2.43	90.9						80	120	
hromium	2.5		2.30	92.1						80	120	
ead	0.50		< 1.00	99.7						80	120	
olonium												
	0.50	00	0.514	103						80	120	
	0.50		0.514 < 1.00	103 98.8						80 80	120 120	
Bilver		00	< 1.00	98.8								
Bilver Matrix Spike (1.0	00	< 1.00	98.8								
Silver Matrix Spike (Sample Spiked:	1.0 (MS) / Matrix Spike	00 e Duplie	< 1.00	98.8))								
ilver Matrix Spike (Sample Spiked: RunID: 74053	<u>1.0</u> (MS) / Matrix Spike 1504I97-003A SeqNo 16	00 e Duplio 10898	< 1.00 cate (MSD Units	98.8)) s: mg/L								
illver <u>Matrix Spike (</u> ample Spiked: RunID: 74053 analysis Date: 4/2	<u>1.0</u> (MS) / Matrix Spike 1504I97-003A SeqNo 16 29/2015 12:48:06 AI	00 e Dupli 10898 M	< 1.00 cate (MSD Units Analy	98.8 2) s: mg/L yst: CGZ						80	120	
Sample Spiked: RunID: 74053	1.0 (MS) / Matrix Spike 1504197-003A SeqNo 16 29/2015 12:48:06 Al Sample	00 Dupli 10898 M Ms	< 1.00 cate (MSD Units Anal	98.8 2) s: mg/L yst: CGZ MS % Low			MSD MSD		RPD	Low Hi	120 gh Qu	al
ilver <u>Matrix Spike (</u> ample Spiked: anlD: 74053 nalysis Date: 4/2	<u>1.0</u> (MS) / Matrix Spike 1504I97-003A SeqNo 16 29/2015 12:48:06 AI	00 Dupli 10898 M MS	< 1.00 cate (MSD Units Analy Result	98.8 2) s: mg/L yst: CGZ MS % Low	t Limit		MSD MSD Result Rec		RPD Limit	80	120 gh Qu	al
ilver <u>Matrix Spike (</u> ample Spiked: anlD: 74053 analysis Date: 4/2 Analyte	1.0 (MS) / Matrix Spike 1504197-003A SeqNo 16 29/2015 12:48:06 Al Sample Result	00 Duplid 10898 M MS Spike Added	< 1.00 cate (MSD Units Analy Result	98.8)) s: mg/L yst: CGZ MS % Low Rec Limi	t Limit	Spike R				Low Hi	120 gh Qu	al
ilver <u>Matrix Spike (</u> ample Spiked: tunID: 74053 nalysis Date: 4/2 Analyte	1.0 (MS) / Matrix Spike 1504I97-003A SeqNo 16 29/2015 12:48:06 Al 29/2015 12:48:06 Al Result	00 Duplid 10898 M M Spike Added 1.000	< 1.00 cate (MSD Units Analy Result 0 1.20	98.8 9 9 9 9 9 9 9 9 9 9 9 9 9	t Limit 5 125	Spike R				Low Hi	120 gh Qu	al
ilver <u>Matrix Spike (</u> ample Spiked: tunID: 74053 nalysis Date: 4/2 Analyte rsenic arium	1.0 (MS) / Matrix Spike 1504I97-003A SeqNo 16 29/2015 12:48:06 Al Result 0 2.340	00 Duplid 10898 M MS Spike Added 1.000 1.000	< 1.00 cate (MSD Units Analy Result 0 1.20 0 < 10.0	98.8 9 9 9 9 9 9 9 9 9 9 9 9 9	t Limit 5 125 5 125	Spike R				Low Hi	120 gh Qu	al
ilver <u>Matrix Spike (</u> ample Spiked: tunID: 74053 nalysis Date: 4/2 Analyte rsenic arium admium	1.0 (MS) / Matrix Spike 1504I97-003A SeqNo 16 29/2015 12:48:06 Al Result 0 2.340 .003400	00 Dupli 10898 M MS Spike Added 1.000 1.000 1.000	< 1.00 cate (MSD Units Analy MS Result 0 1.20 0 < 10.0 0 0.987	98.8 9 9 9 9 9 9 9 9 9 9 9 9 9	t Limit 5 125 5 125 5 125 5 125	Spike R				Low Hi	120 gh Qu	al
ilver <u>Matrix Spike</u> (iample Spiked: RunID: 74053 inalysis Date: 4/2 Analyte rsenic arium iadmium ihromium	1.0 (MS) / Matrix Spike 1504197-003A SeqNo 16 29/2015 12:48:06 Al Sample Result 0 2.340 .003400 .002200	00 Dupli 10898 M MS Spike Added 1.000 1.000 1.000	< 1.00 cate (MSD Units Analy MS I Result 0 1.20 0 < 10.0 0 .987 0 1.01	98.8 9 9 9 9 9 9 9 9 9 9 9 9 9	t Limit 5 125 5 125 5 125 5 125 5 125	Spike R				Low Hi	120 gh Qu	al
Silver Matrix Spike (Sample Spiked: RunID: 74053 Analysis Date: 4/2 Analyte Arsenic Sarium Cadmium Chromium ead	1.0 (MS) / Matrix Spike 1504197-003A SeqNo 16 29/2015 12:48:06 Al Sample Result 0 2.340 .003400 .002200 .004380	00 Dupli 10898 M MS Spike Added 1.000 1.000 1.000 1.000 1.000	< 1.00 cate (MSD Units Analy MS / Result 0 1.20 0 < 10.0 0 < 10.0 0 0.987 0 1.01 0 1.08	98.8 9 9 9 9 9 9 9 9 9 9 9 9 9	t Limit 5 125 5 125 5 125 5 125 5 125 5 125 5 125	Spike R				Low Hi	120 gh Qu	al
iliver <u>Matrix Spike (</u> cample Spiked: RunID: 74053 analysis Date: 4/2 Analyte arsenic arium cadmium chromium	1.0 (MS) / Matrix Spike 1504197-003A SeqNo 16 29/2015 12:48:06 Al Sample Result 0 2.340 .003400 .002200	00 Dupli 10898 M MS Spike Added 1.000 1.000 1.000	< 1.00 cate (MSD Units Analy Result 0 1.20 0 < 10.0 0 0.987 0 1.01 0 1.08 0 1.21	98.8 9 9 9 9 9 9 9 9 9 9 9 9 9	t Limit 5 125 5 125 5 125 5 125 5 125 5 125 5 125 5 125	Spike R				Low Hi	120 gh Qu	al

J Analyte detected below quantitation limits

Tentatively identified compounds Ν

0 RSD is greater than RSDlimit

5/1/2015 4:14:09 PM

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М ND

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Holding times for preparation or analysis exceeded

Manual Integration used to determine area response

Spike Recovery outside accepted recovery limits

Not Detected at the Reporting Limit



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Quality Control Report

	-		PACE	ANAL 10478		AL.						
Analysis: MERCUR	Y, TCLP Lead	hed		10470	,			w	orkOrde	۰r.	1504H6	9
-		lieu										5
Method: 1311_HG								La	b Batch	n ID:	49642	
Metho	d Blank											
RunID: 74005 Seq	No 1609966	Uni	ts: ug/L									
Analysis Date: 4/28/2015 12:	16:19 PM	Ana	alyst: JL									
Analyte	Result	Rep Lim	it Rep Qu	al								
Mercury	< 0.200	0.2	00									
Matrix Spike (MS) / Matr Sample Spiked: 1504175-00		icate (MS	<u>D)</u>									
RunID: 74005 Seq	No 1609970	Uni	ts: ug/L									
Analysis Date: 4/28/2015 1:1	1:42 PM	Ana	alyst: JL									
Analyte	Sample MS Result Spike Adde		MS % Low Rec Lim	High tLimit		MSD Result	MSD % Rec	6 RPD	RPD Limit	Low Hi Limit Li	igh Qua imit	1
Mercury	0.01060 1.00	0 0.993	98.2 8	0 120	l I				1 1			
	Blank No 1614688 6:49 PM Result < 0.00020 < 0.00020		alyst: JS it Rep Qu	al								
Heptachlor epoxide	< 0.00020	0.000										
Endrin	< 0.00040	0.000										
Methoxychlor Toxaphene	< 0.0020 < 0.020	0.00										
Chlordane	< 0.0040	0.00										
Surr: Tetrachloro-m-xylene	0.00035		0									
Surr: Decachlorobiphenyl	0.00033		0									
Laboratory Control RunID: 74239 Seq Analysis Date: 4/30/2015 7:3	No 1614689 1:31 PM	Uni	ts: mg/L alyst: JS LCS % Recovery	LCSD Spike Addec		LCS Reco		RPD	RPD Limit	Low Limit	High Limit	Qual
		0.00000	05.4	Auueu	•					07	440	
gamma-BHC	0.000800	0.00068	85.4							27	146	
Heptachlor	0.000800	0.00061	76.0							10	148	
Heptachlor epoxide	0.000800	0.00067	83.2	l						28	144	
Endrin	0.000800	0.00069	86.7	l						22	152	
Methoxychlor	0.000800	< 0.0020	88.4							19	146	
D Dilution wa H Holding tim	eds Maximum C is required. nes for preparation egration used to	on or analys	sis exceeded		B E J N	Valu Anal	e above yte dete	quantita	tion range	tation limi		

5/1/2015 4:14:09 PM

ND

S

Not Detected at the Reporting Limit

Spike Recovery outside accepted recovery limits



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Quality Control Report

PACE ANALYTICAL

					170		10478									
Analysis:	PESTICI	DES, TCI	LP Lea	ched							w	/orkOrd	er:	15	504H69	Ð
Method:	1311_P										La	ab Batc	h ID:	49	9694	
Labora	tory Contro	I Sample	e (LCS/	<u>'LFB)</u>												
RunID: 74239	Seq	No 161	14689	Un	its: n	ng/L										
Analysis Date: 4	/30/2015 7:3	1:31 PM		An	alyst: J	IS										
Analyt	e	LCS	LCS	Result	LCS	%	LCSD	LCSD	LCS	D %	RPD	RPD	Low	н	igh	Qual
		Spike			Recov	very	Spike	Resul	t Reco	overy		Limit	Limi		imit	
		Addec					Added									
Surr: Tetrachloro-	-m-xylene	0.00040	0	0.00032		80.3							3	30	150	
Surr: Decachlorot	piphenyl	0.00040	-	0.00031		76.4								30	150	
Labora	tom Contro	Comple														
Labora RunID: 74239	tory Contro	No 161		<u>сгв)</u> Un	ite: n	ng/L										
						0										
Analysis Date: 4	/30/2015 /:4	6:17 PM		An	alyst: J	15		_				_	_	_		
Analyt	e	LCS	-	Result	-		LCSD	LCSD	-		RPD	RPD Limit	Low Limi		igh	Qual
		Spike Addec			Recov		Spike Added	Resul	Reco	overy		Limit	Limi		imit	
Toxaphene		0.0400	00	0.036		88.9			1				4	46	168	
Surr: Tetrachloro-	-m-xylene	0.00040		0.00033		82.5							3	30	150	
Surr: Decachlorot	ninhenvl	0.00040	0	0.00033		82.3								30	150	
	ырпену	0.00040	0	0.00033		02.5							, ,	50	150	
Matrix Spike Sample Spiked: RunID: 74239	1504j54-00 Seq	1a No 161	14694	Un	its: n	ng/L IS										
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4.	1504j54-00 Seq /30/2015 8:4	1a No 161 5:05 PM	14694	Un An	its: n alyst: J	IS	High	MSD	MSD	MSD %	6 RPD	RPD	Low	High	Qua	
<u>Matrix Spike</u> Sample Spiked: RunID: 74239	1504j54-00 Seq /30/2015 8:4	1a No 161	14694	Un An: MS Result	its: n	IS Low	High Limit	MSD Spike Added	MSD Result	MSD % Rec	6 RPD	RPD Limit	Low Limit	High Limit	Qua	
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analyte	1504j54-00 Seq /30/2015 8:4	1a No 161 5:05 PM Sample Result	MS Spike	Un An: MS Result	its: n alyst: J MS %	IS Low Limit	Limit	Spike			6 RPD		-	-		-
<u>Matrix Spike</u> Sample Spiked: RunID: 74239 Analysis Date: 4	1504j54-00 Seq /30/2015 8:4 e	1a No 161 5:05 PM Sample Result	MS Spike Added	Un An: MS Result	its: n alyst: J MS % Rec	IS Low Limit	Limit	Spike			6 RPD		-	-		-
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analyte Toxaphene	1504j54-00 Seq /30/2015 8:4 e -m-xylene	1a No 161 5:05 PM Sample Result	MS Spike Added 0.04000	Un An MS Result	its: n alyst: J MS % Rec 81.8	IS Low Limit	Limit) 150) 150	Spike			6 RPD		-	-		-
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analyte Foxaphene Surr: Tetrachloro-	1504j54-00 Seq /30/2015 8:4 e -m-xylene oiphenyl	1a No 161 5:05 PM Sample Result	MS Spike Added 0.04000	Un An MS Result 0.033 0.00031	its: n alyst: J MS % Rec 81.8 77.4	IS Low Limit	Limit) 150) 150	Spike			6 RPD		-	-		-
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Toxaphene Surr: Tetrachloro- Surr: Decachlorot	1504j54-00 Seq /30/2015 8:4 e -m-xylene biphenyl <u>Metho</u>	1a No 161 5:05 PM Sample Result	MS Spike Added 0.04000 0004000	Un An MS Result 0.033 0.00031	its: n alyst: J MS % Rec 81.8 77.4 85.8	IS Low Limit	Limit) 150) 150	Spike			6 RPD		-	-		
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Toxaphene Surr: Tetrachloro- Surr: Decachlorot Surr: Decachlorot	1504j54-00 Seq /30/2015 8:4 e -m-xylene oiphenyl <u>Metho</u> Seq	1a No 161 5:05 PM Sample Result 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MS Spike Added 0.04000 0004000	Un An: Result 0.0031 0.00034	its: n alyst: J MS % Rec 81.8 77.4 85.8	IS Low Limit 50 30 30	Limit) 150) 150	Spike			6 RPD		-	-		
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Toxaphene Surr: Tetrachloro- Surr: Decachlorot RunID: 74250 Analysis Date: 5	1504j54-00 Seq /30/2015 8:4 e -m-xylene -m-xylene biphenyl <u>Metho</u> Seq /1/2015 9:34	1a No 161 5:05 PM Sample Result 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MS Spike Added 0.04000 0004000 0004000	Un An MS Result 0.0031 0.00034 Un An	its: n alyst: J MS % Rec 81.8 77.4 85.8 85.8 its: n alyst: S	Low Limit 50 30 30 30 30	Limit 150 150 150	Spike			6 RPD		-	-		
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Date: 4. Surr: Tetrachloro- Surr: Tetrachloro- Surr: Decachlorot RunID: 74250 Analysis Date: 5. Analy	1504j54-00 Seq /30/2015 8:4 e -m-xylene -m-xylene biphenyl <u>Metho</u> Seq /1/2015 9:34	1a No 161 5:05 PM Sample Result 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MS Spike Added 0.04000 0004000 0004000	Un An: Result 0.0031 0.00034 Un An: Rep Lim	its: n alyst: J MS % Rec 81.8 77.4 85.8 its: n alyst: S itt Rej	IS Low Limit 50 30 30	Limit 150 150 150	Spike			6 RPD		-	-		
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Toxaphene Surr: Tetrachloro- Surr: Decachlorot RunID: 74250 Analysis Date: 5	1504j54-00 Seq /30/2015 8:4 e -m-xylene biphenyl <u>Metho</u> Seq /1/2015 9:34	1a No 161 5:05 PM Sample Result 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MS Spike Added 0.04000 0004000 0004000	Un An MS Result 0.0031 0.00034 Un An	its: n alyst: J MS % Rec 81.8 77.4 85.8 its: n alyst: S itt Rej 00	Low Limit 50 30 30 30 30	Limit 150 150 150	Spike			6 RPD		-	-		
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Date: 4. Surr: Tetrachloro- Surr: Decachlorot RunID: 74250 Analysis Date: 5. Analy Pyridine 1,4-Dichlorobenze 2-Methylphenol	1504j54-00 Seq /30/2015 8:4 e -m-xylene biphenyl <u>Metho</u> Seq /1/2015 9:34	1a No 161 5:05 PM Sample Result 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MS Spike Added 0.04000 00040000 00040000	Un An: Result 0.0031 0.00034 0.00034 Un An: Rep Lim 0.01 0.01	its: n alyst: J MS % Rec 81.8 77.4 85.8 its: n alyst: S iit Rep 00 00	Low Limit 50 30 30 30 30	Limit 150 150 150	Spike			6 RPD		-	-		
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Date: 4. Surr: Tetrachloro- Surr: Decachlorot RunID: 74250 Analysis Date: 5. Analy Pyridine 1,4-Dichlorobenze 2-Methylphenol 3-Methylphenol/4-	1504j54-00 Seq /30/2015 8:4 e -m-xylene biphenyl <u>Metho</u> Seq /1/2015 9:34 rte -me Methylpheno	1a No 161 5:05 PM Sample Result 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	MS Spike Added 0.04000 00040000 00040000 00040000 000000	Un An: Result 0.0031 0.00034 0.00034 Un An: Rep Lim 0.01 0.01 0.01	its: n alyst: J MS % Rec 81.8 77.4 85.8 its: n alyst: S iit Rej 00 00 00	Low Limit 50 30 30 30 30	Limit 150 150 150	Spike			6 RPD		-	-		
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Date: 4. Surr: Tetrachloro- Surr: Decachlorot RunID: 74250 Analysis Date: 5. Analy Pyridine 1,4-Dichlorobenze 2-Methylphenol/4- Hexachloroethane	1504j54-00 Seq /30/2015 8:4 e -m-xylene biphenyl <u>Metho</u> Seq /1/2015 9:34 rte -me Methylpheno	1a No 161 5:05 PM Sample Result 0 0 0 0 0 0 0 0 0 0 0 0 0	MS Spike Added 0.04000 00040000 00040000 00040000 00040000 000000	Un An: Result 0.0031 0.00034 0.00034 Un An: An: 0.01 0.01 0.01 0.01	its: n alyst: J MS % Rec 81.8 77.4 85.8 its: n alyst: S itt Rej 00 00 00 00 00	Low Limit 50 30 30 30 30	Limit 150 150 150	Spike			6 RPD		-	-		
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Date: 4. Surr: Tetrachloro- Surr: Decachlorot RunID: 74250 Analysis Date: 5. Analy Pyridine 1,4-Dichlorobenze 2-Methylphenol 3-Methylphenol/4- Hexachloroethane Nitrobenzene	1504j54-00 Seq /30/2015 8:4 e -m-xylene biphenyl <u>Metho</u> Seq /1/2015 9:34 rte -me Methylpheno	1a No 161 5:05 PM Sample Result 0 0 0 0 0 0 0 0 0 0 0 0 0	MS Spike Added 0.04000 00040000 00040000	Un An: Result 0.0031 0.00034 0.00034 Un An: Rep Lim 0.01 0.01 0.01	its: n alyst: J MS % Rec 81.8 77.4 85.8 its: n alyst: S iit Rej 00 00 00 00 00 00	Low Limit 50 30 30 30 30	Limit 150 150 150	Spike			6 RPD		-	-		
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Date: 4. Coxaphene Surr: Tetrachloro- Surr: Decachlorot RunID: 74250 Analysis Date: 5. Analy Pyridine 1,4-Dichlorobenzee 2-Methylphenol 3-Methylphenol/4- Hexachloroethane Vitrobenzene Hexachlorobutadie	1504j54-00 Seq /30/2015 8:4 e -m-xylene oiphenyl <u>Metho</u> Seq /1/2015 9:34 rte -me Methylpheno	1a No 161 5:05 PM Sample Result 0 0 0 0 0 0 0 0 0 0 0 0 0	MS Spike Added 0.04000 000000	Un An. Result 0.033 0.00031 0.00034 Un An. Rep Lim 0.01 0.01 0.01 0.01 0.01 0.01	its: n alyst: J MS % Rec 81.8 77.4 85.8 its: n alyst: S it Rej 00 00 00 00 00 00 00 00 00	Low Limit 50 30 30 30 30	Limit 150 150 150	Spike Added	Result	Rec		Limit	Limit	Limit		
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Date: 4. Coxaphene Surr: Tetrachloro- Surr: Decachlorot RunID: 74250 Analysis Date: 5. Analy Pyridine 1,4-Dichlorobenze 2-Methylphenol 3-Methylphenol/4- Hexachloroethane Vitrobenzene Hexachlorobutadie	1504j54-00 Seq /30/2015 8:4 e -m-xylene biphenyl <u>Metho</u> Seq /1/2015 9:34 rte -me Methylpheno	1a No 161 5:05 PM Sample Result 0 0 0 0 0 0 0 0 0 0 0 0 0	MS Spike Added 0.04000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0100 0100 0100 0100 0100 0100 0100 0100 0100 0100	Un An. Result 0.033 0.00031 0.00034 Un An. Rep Lim 0.01 0.01 0.01 0.01 0.01 0.01	its: n alyst: J MS % Rec 81.8 77.4 85.8 its: n alyst: S it Rej 00 00 00 00 00 00 00 00 00	Low Limit 50 30 30 30 30	Limit 150 150 150	Spike	Result	Rec	cted in the		Limit ated Met	Limit		
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Date: 4. Coxaphene Surr: Tetrachloro- Surr: Decachlorot RunID: 74250 Analysis Date: 5. Analy Pyridine 1,4-Dichlorobenze 2-Methylphenol 3-Methylphenol 4-Exachlorobutadie Vitrobenzene Hexachlorobutadie Qualifiers: *	1504j54-00 Seq /30/2015 8:4 e -m-xylene biphenyl <u>Metho</u> Seq /1/2015 9:34 rte ene Methylpheno ene Value exce	1a No 161 5:05 PM Sample Result 0 0 0 0 0 0 0 0 0 0 0 0 0	MS Spike Added 0.04000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 00100 0100 0100 0100 0100 0100 0100 0100 0100 0100 0100 0100 0100	Un An: Result 0.0031 0.00034 Un An: Rep Lim 0.01 0.01 0.01 0.01 0.01 0.01 0.01	its: n alyst: J MS % Rec 81.8 77.4 85.8 8 77.4 85.8 77.4 85.8 77.4 85.8 77.4 85.8 77.4 85.8 77.4 85.8 8 77.4 8 85.8 77.4 77.4 85.8 77.4 85.8 77.4 85.8 77.4 75.8 75.8 75.8 75.8 75.8 75.8 75.8 75.8	IS Low Limit 50 30 30 30 30 30 50 30 30 50 50 50 50 50 50 50 50 50 50 50 50 50	Limit 150 150 150	Spike Added	Anai Valu	Rec yte dete e above	cted in the quantita	Limit	Limit ated Met	Limit		
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Date: 4. Coxaphene Surr: Tetrachloro- Surr: Decachlorot RunID: 74250 Analysis Date: 5 Analy Pyridine 1,4-Dichlorobenze 2-Methylphenol/4- Hexachloroethane Nitrobenzene Hexachlorobutadie Qualifiers: * D	1504j54-00 Seq /30/2015 8:4 e -m-xylene biphenyl <u>Metho</u> Seq /1/2015 9:34 rte ene Methylpheno ene Value exce Dilution wa	1a No 161 5:05 PM Sample Result 0 d Blank No 161 :00 AM Res <0	MS Spike Added 0.04000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0004000 0100 0100 0100 0100 0100 0100 0100 0100 0100 0100 0100 0100 0100 0100	Un An: Result 0.033 0.00031 0.00034 Un An: Con An: 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	its: n alyst: J MS % Rec 81.8 77.4 85.8 its: n alyst: S it Rej 00 00 00 00 00 00 00 00 00 00 00 00 00	IS Low Limit 50 30 30 30 30 30 30 30 30 40 40 40 40 40 40 40 40 40 4	Limit 150 150 150	Spike Added B E	Ana Valu	Rec yte dete e above yte dete	cted in the quantitation of the cted below	Limit ne associa ation rang	Limit Atted Met ge itation li	Limit		
Matrix Spike Sample Spiked: RunID: 74239 Analysis Date: 4. Analysis Date: 4. Coxaphene Surr: Tetrachloro- Surr: Decachlorot RunID: 74250 Analysis Date: 5. Analysis Date: 5. A	1504j54-00 Seq /30/2015 8:4 e -m-xylene oiphenyl <u>Metho</u> Seq /1/2015 9:34 rte 	1a No 161 5:05 PM Sample Result 0 d Blank No 161 :00 AM Ress 0 AM eds Maxir as required eds Maxir as required egration u	MS Spike Added 0.04000 0004000 0100	Un An: Result 0.033 0.00031 0.00034 Un An: Rep Lim 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	its: n alyst: J MS % Rec 81.8 77.4 85.8 its: n alyst: S it Rej 00 00 00 00 00 00 00 00 00 00 00 00 00	IS Low Limit 50 30 30 30 30 30 30 30 30 40 40 40 40 40 40 40 40 40 4	Limit 150 150 150	Spike Added B E J	Result Ana Valu Ana Tent	yte dete e above yte dete atively i	cted in the quantita cted belo dentified	Limit he associa tion rang ow quant	Limit Limit ated Met ge itation li nds	Limit		

5/1/2015 4:14:10 PM

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575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

10478

Analysis: SEMIVO	LATILES, T	CLP Leac					W	orkOrde	er:	1504H6	69
Method: 1311_B							La	ab Batch	ID:	49710	
Metho	od Blank										
RunID: 74250 Se	qNo 16150	43 Unit	s: mg/L								
Analysis Date: 5/1/2015 9:3	4:00 AM	Ana	lyst: SH								
Analyte	Resul	Rep Lim	it Rep Qua	al							
2,4,6-Trichlorophenol	< 0.01	-	-								
2,4,5-Trichlorophenol	< 0.02										
2,4-Dinitrotoluene	< 0.01										
Hexachlorobenzene	< 0.01										
Pentachlorophenol	< 0.02	1									
Surr: 2-Fluorophenol	0.01		0								
Surr: Nitrobenzene-d5	0.03		0								
Surr: Phenol-d5	0.01		0								
Surr: 2,4,6-Tribromopheno			0								
Surr: 2-Fluorobiphenyl	0.03		0								
Surr: 4-Terphenyl-d14	0.05		0								
Surr: 2-Chlorophenol-d4	0.04		0								
Surr: 1,2-Dichlorobenzene-	d4 0.02	71	0								
Analysis Date: 5/1/2015 10:	qNo 16150 04:00 AM	44 Unit Ana	lyst: SH								
RunID: 74250 Se	qNo 16150	44 Unit	-	LCSD Spike	LCSD Result	LCSD % Recovery	RPD	RPD Limit	Low Limit	High Limit	Qual
RunID: 74250 Se Analysis Date: 5/1/2015 10:	qNo 16150 04:00 AM LCS	44 Unit Ana	lyst: SH		_		RPD			-	Qual
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte	qNo 16150 04:00 AM LCS Spike	44 Unit Ana	lyst: SH	Spike	_		RPD			-	Qual
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine	qNo 16150 04:00 AM LCS Spike Added	44 Unit Ana LCS Result 0.0147 0.0271	lyst: SH LCS % Recovery 29.4 54.2	Spike	_		RPD		Limit 12 38	Limit	Qual
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol	aNo 16150 04:00 AM LCS Spike Added 0.05000 0.05000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287	lyst: SH LCS % Recovery 29.4 54.2 57.4	Spike	_		RPD		Limit 12 38 27	Limit 81.6 116 141	Qual
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol	aNo 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.05000 0.1000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0	Spike	_		RPD		Limit 12 38 27 15	Limit 81.6 116 141 141	Qual
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1.4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol Hexachloroethane	aNo 16150 04:00 AM LCS Spike Added 0.05000 0.05000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0	Spike	_		RPD		Limit 12 38 27 15 39	Limit 81.6 116 141 141 111	Qual
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol Hexachloroethane Nitrobenzene	qNo 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.05000 0.1000 0.05000 0.1000 0.05000 0.05000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8	Spike	_		RPD		Limit 12 38 27 15 39 39	Limit 81.6 116 141 141 111 129	
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol Hexachloroethane Nitrobenzene Hexachlorobutadiene	qNo 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.1000 0.1000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0	Spike	_		RPD		Limit 12 38 27 15 39 39 39 49	Limit 81.6 116 141 141 111 129 115	Qual
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol Hexachloroethane Nitrobenzene Hexachlorobutadiene 2,4,6-Trichlorophenol	qNo 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.05000 0.1000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230 0.0437	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0 87.4	Spike	_		RPD		Limit 12 38 27 15 39 39 39 49 37	Limit 81.6 116 141 141 111 129 115 133	
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol Hexachloroethane Nitrobenzene Hexachlorobutadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol	qNo 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.10000 0.1000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230 0.0437 0.0447	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0 87.4 89.4	Spike	_		RPD		Limit 12 38 27 15 39 39 49 37 16	Limit 81.6 116 141 141 111 129 115 133 148	
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol Hexachloroethane Nitrobenzene Hexachlorobutadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-Dinitrotoluene	No 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.05000 0.1000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230 0.0437 0.0447 0.0447	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0 87.4 89.4 95.5	Spike	_		RPD		Limit 12 38 27 15 39 39 49 37 16 46	Limit 81.6 116 141 141 111 129 115 133 148 118	
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol Hexachlorobethane Nitrobenzene Hexachlorobutadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-Dinitrotoluene Hexachlorobenzene	No 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.05000 0.1000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230 0.0437 0.0447 0.0447 0.0478 0.0480	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0 87.4 89.4 95.5 96.1	Spike	_		RPD		Limit 12 38 27 15 39 39 49 37 16 46 55	Limit 81.6 116 141 141 111 129 115 133 148 118 127	
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol Hexachlorobethane Nitrobenzene Hexachlorobutadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-5-Trichlorophenol 2,4-5-Trichlorophenol 2,4-Dinitrotoluene Hexachlorobenzene Pentachlorophenol	No 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.05000 0.1000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230 0.0437 0.0447 0.0447 0.0448 0.0480 0.0503	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0 87.4 89.4 95.5 96.1 101	Spike Added	_		RPD		Limit 12 38 27 15 39 39 49 37 16 46 55 13	Limit 81.6 116 141 141 129 115 133 148 118 127 123	e e
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol Hexachlorobethane Nitrobenzene Hexachlorobutadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4-Dinitrotoluene Hexachlorobenzene Pentachlorophenol Surr: 2-Fluorophenol	No 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.05000 0.1000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230 0.0437 0.0447 0.0447 0.0478 0.0480 0.0503 0.0212	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0 87.4 89.4 95.5 96.1 101 28.2	Spike Added	_		RPD		Limit 12 38 27 15 39 39 49 37 16 46 55 13 21	Limit 81.6 116 141 141 129 115 133 148 118 127 123 110	e e
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol Hexachlorobethane Nitrobenzene 4.6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-5-Trichlorophenol 2,4-5-Trichlorophenol 2,4-5-Trichlorophenol 2,4-5-Trichlorophenol 2,4-5-Trichlorophenol 2,4-5-Trichlorophenol 2,4-5-Trichlorophenol 2,4-5-Trichlorophenol 2,4-5-Trichlorophenol Surr: 2,4-5-Trichlorophenol 5urr: 2,4-5-Tichlorophenol Surr: 2,4-5-Tichlorophenol	No 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.05000 0.1000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230 0.0437 0.0447 0.0447 0.0447 0.0448 0.0480 0.0503 0.0212 0.0398	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0 87.4 89.4 95.5 96.1 101 28.2 79.5	Spike Added	_		RPD		Limit 12 38 27 15 39 39 49 37 16 46 55 13 21 35	Limit 81.6 116 141 141 129 115 133 148 118 127 123 110 114	e e
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol Hexachlorobethane Nitrobenzene 4.6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-5-Trichlorophenol 2,4-5-Trichlorophenol 2,4-5-Trichlorophenol Surr: 2-Fluorophenol Surr: 2-Fluorophenol Surr: Nitrobenzene-d5 Surr: Phenol-d5	No 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.05000 0.1000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230 0.0447 0.0447 0.0447 0.0447 0.0447 0.0448 0.0480 0.0503 0.0212 0.0398 0.0151	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0 87.4 89.4 95.5 96.1 101 28.2 79.5 20.1	Spike Added	_		RPD		Limit 12 38 27 15 39 39 49 37 16 46 55 13 21 35 10	Limit 81.6 116 141 141 129 115 133 148 115 133 148 117 123 110 114 110	e e
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol Hexachlorobethane Nitrobenzene 4.6-Trichlorophenol 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4-5-Tichlorophenol Surr: 2,4-Dinitrotoluene Hexachlorophenol Surr: 2,-Fluorophenol Surr: 2,-Fluorophenol Surr: Surr: 2, 4,6-Tribromophenol	Initial Initial LCS Spike Added 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0448 0.0503 0.0212 0.0398 0.0151 0.0736	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0 87.4 89.4 95.5 96.1 101 28.2 79.5 20.1 98.1	Spike Added	_		RPD		Limit 12 38 27 15 39 39 49 37 16 466 555 13 21 35 10 10	Limit 81.6 116 141 141 129 115 133 148 115 133 148 117 123 110 114 110 123	5
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analysis Date: 5/1/2015 10: Analyte Pyridine 1 1 1,4-Dichlorobenzene 2 2 2-Methylphenol 3 3 Methylphenol/4-Methylphenol 3-Methylphenol/4-Methylphenol 3 4 4 14-Dichlorobenzene 4 4 4 12,4,5-Trichlorophenol 2 4,5-Trichlorophenol 5 2,4,6-Trichlorophenol 5 5 5 5 14-Dichlorobenzene 4 4 4 14-Dichlorobenzene 4 <t< td=""><td>No 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.055000 0.055000 0.055000 0.055000 0.055000 0.055000 0.055000 0.055000</td><td>44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0450 0.0503 0.0212 0.0398 0.0151 0.0736 0.0355</td><td>lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0 87.4 89.4 95.5 96.1 101 28.2 79.5 20.1 98.1 71.0</td><td>Spike Added</td><td>_</td><td></td><td>RPD</td><td></td><td>Limit 12 38 27 15 39 39 49 37 16 46 55 13 21 35 10 10 43</td><td>Limit 81.6 116 141 141 129 115 133 148 115 133 148 115 133 148 117 123 110 114 110 123 116</td><td>5</td></t<>	No 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.055000 0.055000 0.055000 0.055000 0.055000 0.055000 0.055000 0.055000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0450 0.0503 0.0212 0.0398 0.0151 0.0736 0.0355	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0 87.4 89.4 95.5 96.1 101 28.2 79.5 20.1 98.1 71.0	Spike Added	_		RPD		Limit 12 38 27 15 39 39 49 37 16 46 55 13 21 35 10 10 43	Limit 81.6 116 141 141 129 115 133 148 115 133 148 115 133 148 117 123 110 114 110 123 116	5
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol 3-Methylphenol/4-Methylphenol Hexachlorobethane Nitrobenzene Hexachlorobutadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol 2,4-Dinitrotoluene Hexachlorobenzene Pentachlorophenol Surr: 2-Fluorophenol Surr: Surr: 2,4,6-Tribromophenol	No 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.055000 0.05000 0.055000 0.055000 0.055000 0.055000 0.055000 0.055000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0450 0.0503 0.0212 0.0398 0.0151 0.0736 0.0355 0.0575	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0 87.4 89.4 95.5 96.1 101 28.2 79.5 20.1 98.1 71.0 115	Spike Added	_		RPD		Limit 12 38 27 15 39 39 49 37 16 46 55 13 21 35 10 10 43 33	Limit 81.6 116 141 141 129 115 133 148 115 133 148 118 127 123 110 114 110 123 116 141 141 141 141 141 141 141	5
RunID: 74250 Se Analysis Date: 5/1/2015 10: Analyte Analyte Pyridine 1,4-Dichlorobenzene 2-Methylphenol 3-Methylphenol/4-Methylphenol Hexachlorobethane Nitrobenzene Hexachlorobutadiene 2,4,6-Trichlorophenol 2,4,5-Trichlorophenol 2,4,5-Trichlorophenol Surr: 2-Fluorophenol Surr: 2-Fluorophenol Surr: Nitrobenzene-d5 Surr: 2,4,6-Tribromophenol Surr: 2,4,6-Tribromophenol Surr: 2,4,6-Tribromophenol	No 16150 04:00 AM LCS Spike Added 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.05000 0.055000 0.055000 0.055000 0.055000 0.055000 0.055000 0.055000 0.055000	44 Unit Ana LCS Result 0.0147 0.0271 0.0287 0.0500 0.0245 0.0404 0.0230 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0447 0.0450 0.0503 0.0212 0.0398 0.0151 0.0736 0.0355	lyst: SH LCS % Recovery 29.4 54.2 57.4 50.0 49.0 80.8 46.0 87.4 89.4 95.5 96.1 101 28.2 79.5 20.1 98.1 71.0	Spike Added	_		RPD		Limit 12 38 27 15 39 39 49 37 16 46 55 13 21 35 10 10 43	Limit 81.6 116 141 141 129 115 133 148 115 133 148 115 133 148 115 133 148 117 123 110 114 110 123 116 141 110 123 116 141 110 123 116 141 110 123 116 141 110 123 116 141 110 123 110 110 110 123 110 110 110 110 123 110 110 110 110 110 110 110 11	5

Sample Spiked: 1504K97-001A

RunID:	74250	SeqNo 1615047 Units: mg/L		
Qualifiers	s: *	Value exceeds Maximum Contaminant Level	В	Analyte detected in the associated Method Blank
	D	Dilution was required.	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	Μ	Manual Integration used to determine area response	Ν	Tentatively identified compounds
	ND	Not Detected at the Reporting Limit	О	RSD is greater than RSDlimit

Spike Recovery outside accepted recovery limits S

5/1/2015 4:14:10 PM

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575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

PACE ANALYTICAL

mg/L

10478

Analysis: SEMIVOLATILES, TCLP Leac 1311_B

Method:

WorkOrder: 1504H69 Lab Batch ID: 49710

Laboratory Control Sample (LCS/LFB) RunID: 74250 SeqNo 1615044 Units:

Analysis Date: 5/1/2015 11:34:00 AM Analyst: SH

Analyte	Sample Result		MS Result	MS % Rec	Low Limit	High Limit	MSD Spike	MSD Result	MSD % Rec	RPD	RPD Limit	Low Limit	High Limit	Qual
		Added					Added							
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	3 SeqNo	1607209	Units:	mg/L
Analysis	Date:	4/24/2015 10:02:0	00 AM	Analyst:	MF

Analyte	Result	Rep Limit	Rep Qual
Vinyl chloride	< 0.010	0.010	
1,1-Dichloroethene	< 0.010	0.010	ſ
2-Butanone	< 0.010	0.010	ſ
Chloroform	< 0.010	0.010	ſ
1,2-Dichloroethane	< 0.010	0.010	T
Carbon tetrachloride	< 0.010	0.010	ſ
Benzene	< 0.010	0.010	Ĩ
Trichloroethene	< 0.010	0.010	[

Qualifiers: * Value exceeds Maximum Contaminant Level

> D Dilution was required.

Н Holding times for preparation or analysis exceeded

- Manual Integration used to determine area response Μ
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

5/1/2015 4:14:10 PM

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Ν Tentatively identified compounds
- 0 RSD is greater than RSDlimit



575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040

Quality Control Report

					PA	CE /		YTIC	AL							
Analysia				had			10478				14/	o rik O r d		45	041160	
-	VOLATILE	5, ICL	PLead	nea								orkOrd			504H69	,
Method:	1311_V										La	b Batc	h ID:	R	73858	
	Method	<u>Blank</u>														
RunID: 73858	SeqNo	o 160	7209	Un	its: n	ng/L										
Analysis Date: 4/24/	/2015 10:02	2:00 AN	1	An	alyst: N	ЛF										
Analyte		Res	ult	Rep Lim	it Re	p Qua	l I									
Tetrachloroethene		< (0.010	0.0	10											
Chlorobenzene			0.010	0.0												
1,4-Dichlorobenzene			0.010	0.0												
Surr: 1,2-dichloroel			0.053		0											
Surr: 4-Bromofluor Surr: Toluene-d8	obenzene).057).055		0											
					0											
Laboratory		-														
RunID: 73858	SeqNo	o 160	7210	Un	its: n	ng/L										
Analysis Date: 4/24/	/2015 10:22	2:00 AN	1	Ana	alyst: N	ЛF										
Analyte		LCS Spike Added		Result	LCS Recov	very	LCSD Spike Added	LCSD Resul		SD % overy	RPD	RPD Limit	Low Lim		igh imit	Qual
/inyl chloride		0.0500		0.035		70.0								14	152	
1,1-Dichloroethene		0.0500		0.055		103								58	112	
2-Butanone		0.0500		0.055		110								14	166	
Chloroform		0.0500		0.052		105								75	119	
,2-Dichloroethane		0.0500	_	0.054		107								52	133	
Carbon tetrachloride		0.0500	0	0.046		91.7								64	126	
Benzene		0.0500	0	0.056		111								50	127	
Trichloroethene		0.0500		0.049		97.3							-	57	115	
Tetrachloroethene		0.0500		0.043		86.9								59	133	
Chlorobenzene		0.0500		0.047		94.5							_	72	124	
1,4-Dichlorobenzene Surr: 1,2-dichloroetha		0.0500	_	0.042		84.9 112								60 53	140 183	
Surr: 4-Bromofluorob		0.0500		0.050		112								52	124	
Surr: Toluene-d8		0.0500		0.056		112								60	135	
Matrix Spike (M	S) / Matrix	Spike	Duplic	ate (MS	D)											
	04C49-001	-														
RunID: 73858		o 160	7225	Un	its: n	ng/L										
Analysis Date: 4/24/	2015 3:29:	00 PM		An	alyst: N	ЛF										
Analyte			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	Qua	I
/inyl chloride		0 0	0.05000	0.11	218	14	152			11		1		1		
1,1-Dichloroethene			0.05000	0.053	106											
2-Butanone	.0	01080		0.047	90.9											
Chloroform			0.05000	0.052	104											
I,2-Dichloroethane			0.05000	0.050	99.7											
Carbon tetrachloride			0.05000	0.037	73.4											
		~		5.507		I ~ 7	~									
Benzene		0	0.05000	0.053	107	50	127									

- D Dilution was required.
- Н Holding times for preparation or analysis exceeded
- Manual Integration used to determine area response М
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits
- 5/1/2015 4:14:10 PM

Value above quantitation range Е

- J Analyte detected below quantitation limits
- Tentatively identified compounds Ν
- 0 RSD is greater than RSDlimit



1,4-Dichlorobenzene

Surr: Toluene-d8

Surr: 1,2-dichloroethane-d4

Surr: 4-Bromofluorobenzene

PACE ANALYTICAL

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Quality Control Report

0 0.05000

0.05000

0.05000

0.05000

0.026

0.054

0.059

0.055

PACE ANALYTICAL

10478

Analysis:	VOLATIL	ES, TCI	LP Leac	hed							Wo	orkOrd	er:	15	04H69
Method:	1311_V										La	b Batc	h ID:	R7	3858
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 Result	MS % Rec		High Limit	MSD Spike Added	MSD Result	MSD % Rec	RPD	RPD Limit		High Limit	Qual
Trichloroethene		0	0.05000	0.042	84.6	57	115			41					
Tetrachloroethene		0	0.05000	0.029	57.1	59	133								
Chlorobenzene		0	0.05000	0.033	67.0	72	124	1							

60 140

53 183

52 124

60 135

51.7

109

117

111

Qualifiers: * Value exceeds Maximum Contaminant Level В Analyte detected in the associated Method Blank D Dilution was required. Е Н Holding times for preparation or analysis exceeded J Manual Integration used to determine area response Ν М

- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

5/1/2015 4:14:10 PM

- Value above quantitation range
- Analyte detected below quantitation limits
- Tentatively identified compounds
- 0 RSD is greater than RSDlimit



PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 Website: www.pacelabs.com

Sample Receipt Checklist

4/22/2015 9:40:00 PM Date and Time Received

Client Name: PACE-NY			Date and Tir	ne Received:	4/22/2015 9:40:00 PM
Work Order Number: 1504H69 RcptNo: 1			Received by	Ajay Singh	
Completed by: Renon Silinder		Revie	ewed by:	lempy	ar
Completed Date: <u>5/1/2015 9:08:02 AM</u>		Revie	ewed Date:	4/30/202	15 9:06:41 PM
Carrier name: PACE Pickup					
Chain of custody present?	Yes	✓	No 🗌		
Chain of custody signed when relinquished and received?	Yes	\checkmark	No 🗌		
Chain of custody agrees with sample labels?	Yes	\checkmark	No 🗌		
Are matrices correctly identified on Chain of custody?	Yes	✓	No 🗌		
Is it clear what analyses were requested?	Yes	\checkmark	No 🛄		_
Custody seals intact on sample bottles?	Yes		No	Not Present	\checkmark
Samples in proper container/bottle?	Yes	\checkmark	No 🗌		
Were correct preservatives used and noted?	Yes	\checkmark	No 🗌	NA	
Preservative added to bottles:					
Sample Condition?	Intact	\checkmark	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	\checkmark	No 🗌		
Was an attempt made to cool the samples?	Yes	\checkmark	No 🗌	NA	
All samples received at a temp. of > 0° C to 6.0° C?	Yes	\checkmark	No 🗌	NA	
Response when temperature is outside of range:					
Sample Temp. taken and recorded upon receipt?	Yes	\checkmark	No 🗌	То	3 °
Water - Were bubbles absent in VOC vials?	Yes		No 🗆	No Vials	\checkmark
Water - Was there Chlorine Present?	Yes		No 🗆	NA	\checkmark
Water - pH acceptable upon receipt?	Yes		No 🗌	No Water	\checkmark
Are Samples considered acceptable?	Yes	\checkmark	No 🗌		
Custody Seals present?	Yes	\checkmark	No 🗌		
Airbill or Sticker?	Air Bill		Sticker	Not Present	\checkmark
Airbill No:					
Case Number: SDG:		S	SAS:		
Any No response should be detailed in the comments section below	, if applicat	ole.			

Client Contacted?	🗌 Yes 🗌 I	No 🗹 NA	Person Contacted:	
Contact Mode:	Phone:	Fax:	Email:	In Person:
Client Instructions:				
Date Contacted:		Conta	acted By:	
Regarding:				
Comments:				
CorrectiveAction:				



575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 <u>www.pacelabs.com</u>

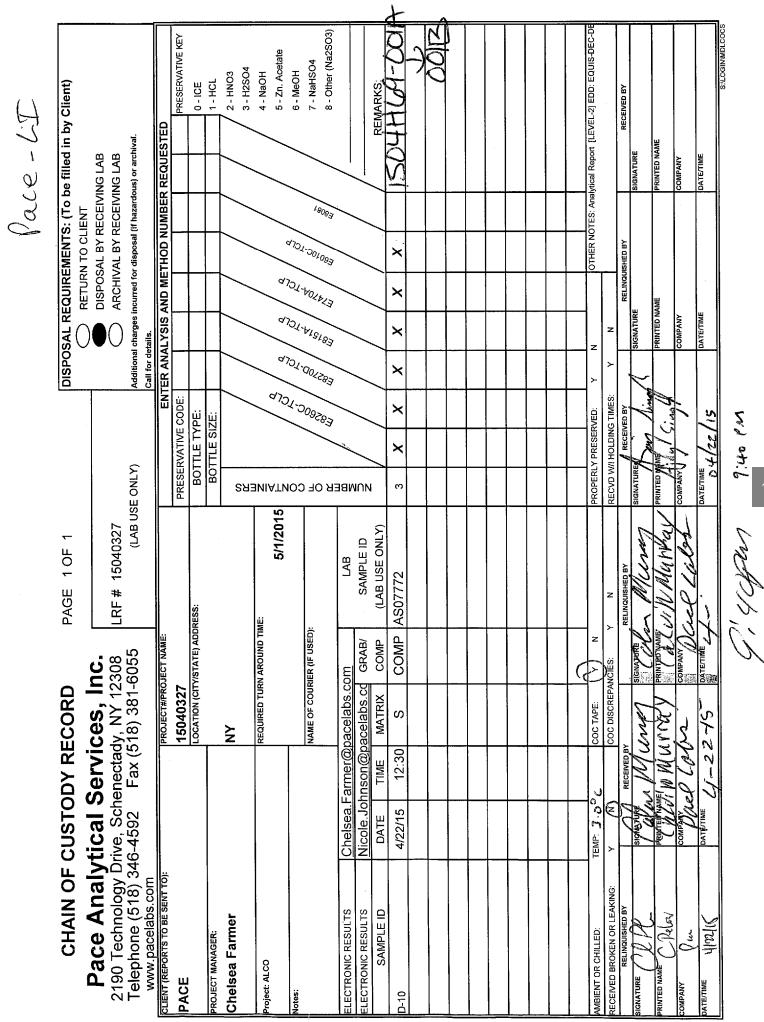
WorkOrder :

1504H69

Certifications

S TATE	CERTIFICATION #
NEW YOR K	10478
NEW JERSEY	NY1 58
CONNECTICUT	PH-0435
MARYLAND	208
MAS S AC HUS E TTS	M-NY026
NEW HAMPS HIRE	2987
R HODE IS LAND	LAO00340
P E NNS YLVANIA	68-00350

Page 14 of 14



-CUSTODY / Analytical Request Document vdy is a LEGAL DOCUMENT. All relevant fields must be completed accurately. <15040327P1>

		Page: 1 of 1		AGENCY	DRINKING WATER	Готнек	IL L'N L'MI L'NC	SC L WI L OTHER			 	Pace Project No.	+ TCLP - 8260, 8270, herbicides, pesticides,	metals, and mercury. Regular PCB's										SAMPLE CONDITIONS	, 1 <u>5</u> 4 ≧ 4	N/A	N/X N/X N/X	N/A	imples Intact Caratody Custody Ice Custody Ice	я S
-CUSTODY / Analytical Request Document	nt fields must be completed accurately.			REGULATORY AGENCY	L NPDES L GROUND WATER L	L UST L RCRA LO	SITE T GA T I	LOCATION F OH F	Filtered (Y/N) ///////////////////////////////////	Requested ////////////////////////////////////	An: [2]		4495W											'AFFILIATION DATE TIME	1/2:00 1 3:00				NC/JV	V (MM/DD/YY): 1/22/15
CUSTODY / Analytic	rdy is a LEGAL DOCUMENT. All relevant fields must be completed accurately.		ы:	Accounts Payable	Barton and Loguidice, DPC	290 Elwood Davis Road, Box 3107 Syracuse NY, 13220	rei: 00014909	er Nicholas Nicholas																E TIME ACCEPTED BY / AFFILIATION	- 13:64 May 12			-	REATURE	* T -25
	150403271	Section C	Invoice Information:	Attention:	Company Name:	Address:	Pace Quote Reference:	Pace Project Manager.	Pace Profile #:	COLLECTED	COMPOSITE	ME DATE TIME	١											ILIATION DATE	1 9/22	1			SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER:	
	2190 Technology Dr. Schenectady, NY 12308 15 (518) 346-4592	Section B	Required Project Information:	Report To: Andy Barber	Copy To: Nathan Shaffer	Rosemary McComick	furchase Order No.:	Project Name: ALCO	Project Number: 1368.001.001	Wb E	3 с=со IFE 1779	ятам qmaz qmaz dago=d date Date	SL C 4/21 1											RELINQUISHED BY / AFFILIA	Kulh / Rar				SAM PRI	
	Pace Analytical 2190 Tec Schenec Schenec (518) 34			DPC	Address: 10 Airline Drive, Suite 200	Albany, NY 12205	Email To: rmccormick@bartonandloguidice.d Purchase	Phone: 518-218-1801 Fax: 518-218-1805 P		D Valid Matrix Codes MATRIX 0	DE PRODUCT WATER WASTEWATER PRODUCT SCRITC	IQUE	0-10	2	С.	4	ب	۵. ۵	· · · · · · · · · · · · · · · · · · ·	0	 10	t	12	ADDITIONAL COMMENTS	Standard Deliverables					

ł

e-File(ALLQ020rev.4,29Mar06)22Jun2005

	ple Condition Upon Receipt CLIENT NAME: Roc Alb	No '⊅	COMMENTS:	2.	ä	4.	5.	9.	7.	×	9.		10.	11.	12.	13.		Initial when AJB Lot # of added preservative: completed: AJB	14.	15.		Line-Out (Includes Copying Shipping Documents and verifying sample pH): $AJB + YAAAS$ Log In (Includes notifying PM of any discrepacies and documenting in LIMS): $PH = V - VAAS + VAAS + SAAS	
<13040521F2>	150403272	Pace □ Other □ CUSTODY SEAL PRESENT: Yes □ □ None★ Other □ #122087967 □	N/AIS-	OND	ONO	OND	ON	ON	NXNo	ONO	ONO	ON	ON	DNO SANIA	ON []	ONO KINA	ANNA CALL				DNO AND	Line-Out (Includ Log In (Includes Labeling (Include	
	lytical	Client of Pa Bubble Bags	No 🗆	Nes C	X Ves	A ves	A Yes	□Yes	□ Yes	Nd Yes	Dives	, T T S	Sold L			been Tres		ein Lives on:	- Vec			s Verh	0101
Pa	The Analytical Service	URIER: FedEx 0 UPS 0 ACKING # 0 ALB Ubble Wrap 0	THERMOMETER USED: # 104 PC BIOLOGICAL TISSUE IS FROZEN: Yes D		Chain of Custody Filled Out:	Chain of Custody Relinquished:	Chain of Chain on COC.	samples Arrived within Hold IIIIIC.	_	10 Anot Turn Around Time Requested.			Correct Containers Used:	- Pace - recolved	Filtered volume received for Dissource	Sample Lauces date/time/ID/Analysis - Includes date/time/ID/Analysis	All containers needing proceed:	All containers needing preservation are in All containers with EPA recommendation:	continues that are not checked: VOA	- Accession VOA Vials (>6mm):	.,	Trip Blank Custouy of Pace Trip Blank Lot #: Sample Receipt form filled in: <u>AJB</u>	052914_Rev01_01

•



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.

Koy Sme

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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Section 2: QUALIFIERS	5
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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,

Julian Briggers

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

September 15, 2015



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>

Section A	Section B	Sectio			150902241	Page: 1 of 1
Required Client Information: Company: Barton and Loguidice DPC	Required Project Informatic Report To: Andy Barber	Attenti	e Information:	austa Dauskis		
Address: 10 Airline Drive, Suite 200	Copy To: Nathan Shaffe			ounts Payable ton and Loguidice, DPC		TORY AGENCY
					NPDES GROUND WATER	
Albany, NY 12205		Addre	Syrac	Elwood Davis Road, Box 3107 cuse NY, 13220	UST CRA	THER
Email To: <u>nshaffer@bartonandloguidice.com</u>	Order No.:			00014909	SITE 🖉 G	А ГІЦ Т Л Г ИІ Т ІС
Phone: 518-218-1801 Fax: 518-218-1805	Project Name: ALCO		roject Manager:	Ketty Miller Olulia Kanter		H SC NI STHER
Requested Standard AMP	Project Number: 1368.001.	001 Pace P	Profile #:		Filtered (Y/N)	
Required Client Information DRINKING WATER WATER WASTE MATED				Preservatives Preservatives	Requested Analysis	
SAMPLE ID PRODUCT CONSOLD (A-Z, 0-9 / ,-) WiPE Sample IDs MUST BE UNIQUE AIR TISSUE		START END		# OF CONT Unpreserved H ₂ SO ₄ HNO ₃ HCI Na ₅ S ₂ O ₃ Methanol Other		U U U U U U U U U U U U U U U U U U U
						Lab 1.D.
	52 G -	T H	2)31	2 X	XX ASA7	
2						Colonie
3						bandfill
4						d indosal
5						Acs)
6						Full TELP
7						8260,8270
8						Pest herb,
9						metals
10						Acy PCBS
11						http://
12						
	RELINQUISHED BY	/ AFFILIATION	DATE	TIME ACCEPTED BY /	AFFILIATION DATE	TIME SAMPLE CONDITIONS
Not Cot B ASAP	INT	7		T6:25 Ma 110	9/9/15	
Noticon			19912	16.00 MATTE	1/4/15	14:25 544 3 × ×
ASAP						
P 0 # (┼───┼			
		SAMPLER NAM PRINT Name of SIGNATURE of	SAMPLER:	Nother Sha	DATE Signed	Temp in °C Temp in °C Received on Ice Custody Samples Intact
				1 min	(MM / DD / YY):	

September 15, 2015

File(ALLQ020rev.4,29Mar06)22Jun2005

<15090224P2> 150302242

Sample Condition Upon Receipt

		_ 、				CLIENT NAME:	Bar-Al	b
A A .	ient 🗡	Pace 🗆	Othe				-	
TRACKING #			SEAL PRESE		No 🖻	- INTACT: Yes		Ŋ/A⊠
PACKING MATERIAL: Bubble Wrap	Bubble Bag	-	None	Other 🗆		ICE USED: Wet 🏷	Blue 🗆	、 None □
	n 03∠⊐	#122087	7967 🗆		COOLER TE	MPERATURE (°C): _	5,8(IR
BIOLOGICAL TISSUE IS FROZEN: Yes 🗆	Nó 🗅	N/ASC				Temp should be a	above freezing	g to 6°C
COMMENTS:					Temperatu	re is Acceptable?	Kes	□No
Chain of Custody Present:	Yès	□No		1.				
Chain of Custody Filled Out:	DE Yes	□No		2.				
Chain of Custody Relinquished:	Yes	□No		3.				
Sampler Name / Signature on COC:	Yes	□No		4.			· · · · · · · · · · · · · · · · · · ·	
Samples Arrived within Hold Time:	X es	□No		5.		······································		
Short Hold Time Analysis (<72hr):	□Yes	- ANO		6.				
Rush Turn Around Time Requested:	Xes			7. AS	AP		······	
Sufficient Volume:	Yes	□No		8.		······	······································	
Correct Containers Used:	Yes			9.				
- Pace Containers Used:	Yes	□No				-		
Containers Intact:	Yes	□No		10.				
Filtered volume received for Dissolved test	S: ⊡ _{Yes}	□No	N VA	11.		· · · · · · · · · · · · · · · · · · ·		
Sample Labels match COC:	Yes	No		12.				
 Includes date/time/ID/Analysis 	<u> </u>							
All containers needing preservation have been checked:	□Yes	□No	N/A	13.				
All containers needing preservation are in compliance with EPA recommendation:	□Yes	□No	XN/A	Initial when				
- Exceptions that are not checked: TOC, VOA, Subcont	ract Analyses			completed:	• • A	Lot # of added pre	convotivo	I/A
Headspace in VOA Vials (>6mm):	□Yes	□No	XN/A	14.		Lot # of added pre	Servative	
Trip Blank Present:	□Yes			15.		·····		
Trip Blank Custody Seals Presenț:	□Yes							
Pace Trip Blank Lot #:NA			\mathcal{N}					.
Sample Receipt form filled in: KAC 91015		Line-Out (l	ncludes Cop	ving Shippin	g Documen	ts and verifying sa	mple pH):	mw gliotir
						ies and documenti		A.JB 9/10/15
						ng LAB IDs into pH		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

 SAMPLE SEALS INTACT: NA

 SHIPPED VIA: DROP OFF ^{1.}SAMPLES PRESERVED PER METHOD GUIDANCE: YES

 SHIPPING ID: N. SHAFFER/ BAR-ALB

 SAMPLES REC'D IN HOLDTIME: YES

 NUMBER OF COOLERS: 1

 DISPOSAL: BY LAB (45 DAYS)

 CUSTODY SEAL INTACT: NA

 COC DISCREPANCY: NO

 COOLER STATUS: CHILLED

 TEMPERATURE(S): ⁵/₅.8 (IR) °C

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	

¹The 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. ²The 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. ³Samples 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

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.

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.

⁵All 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.

⁶Samples 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 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260 Total PCB Amount > RL

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Page 1 of 1

2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055

GC - PCB



Job Number: 15090224

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.

Bate	ch ID	Method	Date	Analyst	Init Wt./Vol.	Final Vol.	Column
Analysis 1: GC211	F-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 Fact	tor 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
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	()	\mathbf{Q}^{1}	File ID
Tetrachloro-meta-xy	lene	877-09-8	120	47.0	-123		GC21F-2626-7
Decachlorobiphenyl		2051-24-3	115	35.0	-153		GC21F-2626-7

¹Qualifier 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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Quality Control Samples (Lab)



Quality Control Results Method Blank Job Number: 15090224

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 Fact	or 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 Am	ount > RL	1336-36-3	ND		1.00	U	GC21F-2626-5
				Lin	nits		
Surrogate		CAS No.	% Recovery	(%	(0)	\mathbf{Q}^{1}	File ID
Tetrachloro-me	eta-xylene	877-09-8	117	47.0	-123		GC21F-2626-5
Decachlorobip	henyl	2051-24-3	117	35.0	-153		GC21F-2626-5

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: 15090224

Project: AL Client Sam	.CO	LOGUIDICE Control Sample (AS27496L) 42			Sample	Mat ed Da	ate: N/A rix: SOI te: N/A d: N/A		
Analysis 1	Batch ID	Method	Dat	-	Analyst	Ini	t Wt./Vo		
Analysis 1: Prep 1:	GC21F-2626-6 32201	SW-846 8082A (PCB) EPA 3545A	09/11/2015 09/10/2015		JKA NJB		NA 10.1 g	NA 25.0 mL	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm NA
Analyte Spi	ked	CAS No.	Added (ug/g)	LC (ug	• •	CS Rec.	\mathbf{Q}^{1}	Limits (%)	
Aroclor 1242 ¹ Qualifier column	where '*' denotes	53469-21-9 value outside the control limits. Note: RPE	1.24 O criteria does not	1.25 t apply it		01 mple an	d duplicate s	70.0-130 ample are not detec	ted.
					Li	mits			

			Linnus			
Surrogate	CAS No.	% Recovery	(%)	\mathbf{Q}^{T}	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 d) (11' 'd (D))	4 1 1141			,	

¹Qualifier 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



Environmental Laboratories, Inc. 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045 Tel. (860) 645-1102 Fax (860) 645-0823



Time

14:30

18:11

Analysis Report

September 15, 2015

15090224

D-101

Project ID: Client ID: FOR: Attn: Ms. Chelsea Farmer Pace Analytical Services Inc. 2190 Technology Drive Schenectady, NY 12308

Sample Informa	ation	Custody Information						
Matrix:	SOIL	Collected by:						
Location Code:	NEASTANY	Received by: LB						
Rush Request:	48 Hour	Analyzed by: see "By" below						
P.O.#:	15090224	Laborates Data						

Laboratory Data

SDG ID: GBJ90329 Phoenix ID: BJ90329

Date

09/09/15

09/10/15

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	В
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	0.10			09/11/15	1/1	SW3005A	
TCLP Digestion Mercury	Completed				09/11/15	1/1	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	
			Page 1 of 3					Ver 1

Project ID: 15090224 Client ID: D-101

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	Ву	Reference
Alachlor	ND	0.50	ug/L	10	09/15/15	CE	SW8081B
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
Vethoxychlor	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
√inyl 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-Neutr	al						
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
8&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

Page 2 of 3

Ver 1

Project ID: 15090224 Client ID: D-101

		RL/					
Parameter	Result	PQL	Units	Dilution	Date/Time	Bу	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:

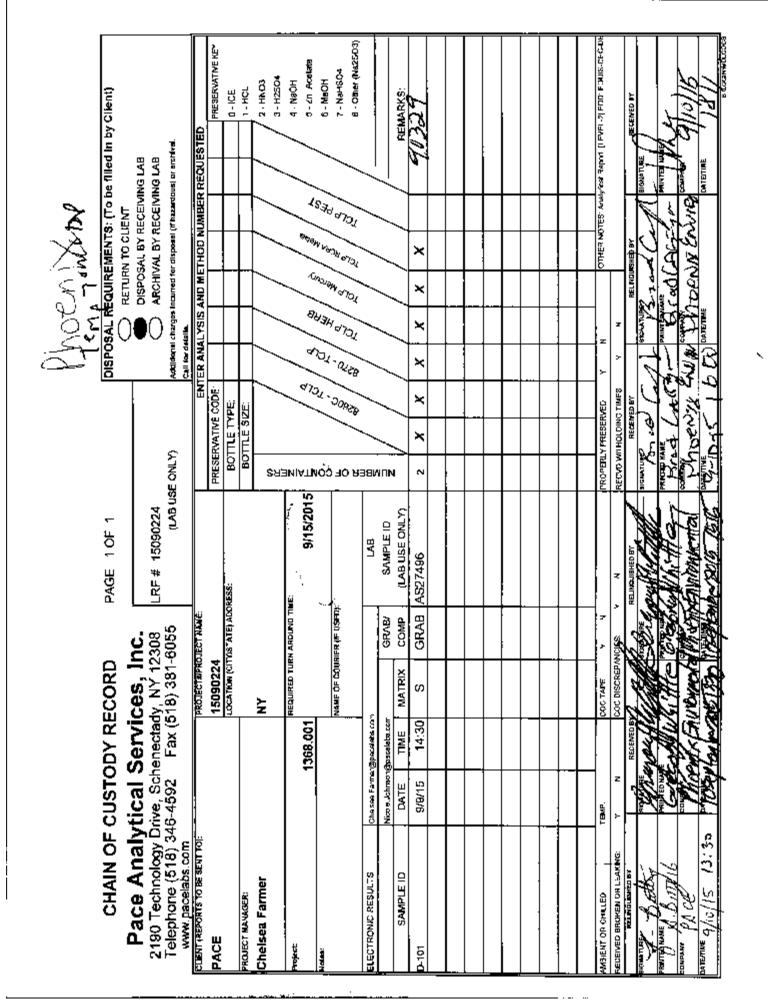
If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director September 15, 2015

Tuesday, Se	eptember 15, 2015		Sample Crif	Sample Criteria Exceedences Report					
Criteria:	None		•	BJ90329 - NEASTANY					
State:	NY							RL	Analysis
SampNo	Acode	Phoenix Analyte	Criteria	Re	esult	RL	Criteria	Criteria	Units
*** Ne Dete	te Dieuleu ***								

*** 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.



Analytical Services Request Commercials Prevaluation Prevaluation Preva						-	ીર્ધ ૧૫૩૨૧
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			CONFIRMATION OF	WORK COMPLETED			
	Date Completed:			абилем кожин Вимеевы			



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.

Koy Sme

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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Section 2: QUALIFIERS	5
Section 3: SAMPLE CHAIN OF CUSTODY 8	3
Section 4: SAMPLE RECEIPT1	1
Section 5: GC - PCB12	3
Section 6: Quality Control Samples (Lab)15	5
Section 7: Subcontract Analysis	3

CASE NARRATIVE

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

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 Services, Inc.



CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed in the complete statement of the complete state

Section A Required Client Information:	Section B Required Project Information:		Section C Invoice Information:		Page: of
Company: B+L Address: / 0	Report To: Nathan Sha	APh	Invoice Information: Attention: Billing Acc Company Name: Berton and Address: Syracus Pace Quote	mitz Roise	1882119
10 Air line drive	Copy To: Andy Back	on	Company Name: Bester and	Ind wid is REGULATORY	
Alborn NY	Purchase Order No.:	pelovini	Address: Syracuse	□ NPDES □	GROUND WATER CORINKING WATER
Phone 212 12 Fax:	Project Name:		Pace Quote Reference: Pace Project	T UST T	RCRA OTHER
Phope: 3/2 2/8 / BOI Requested Due Date/TAT: ASAP (244, ?)	ALCO		Pace Project Manager: Pace Profile #:	Site Location	1/4
I ASAF (174rs)	1368.0	201,001		STATE:	
Section D Matrix (Codes a		7	Requested Analysis Filtered	<u>(Y/N)</u>
Required Client Information MATRIX	Lodes Land (CODE 9 0 er DW ss 0 WT 90 0 0	COLLECTED	Preservatives	T NIA	
Water Waste Water			<u>*</u>		
Product Soil/Solid SAMPLE ID Oil	SL g ö	END/GRAB III			
(A-Z, 0-9 / ,-) Wipe		AT	containers sserved 4 4 4 anol		Chlorine (Y/N)
Sample IDs MUST BE UNIQUE Tissue Other		TIME DATE TIME S	# OF CONTAIN Unpreserved H ₂ SO ₄ HNO ₃ HCI NaOH Na2S ₂ O ₃ Methanol Other		Chio
11 11 12	AMPLE SAMPLE	APLE	# OF CON Unpresen Unpresen H2SO4 HNO3 HCI NaOH NaOH Na2S ₂ O3 Methanol	Analysis Althury PCD Prefils	dra dra
			# OF Unpred H2SO HCI NaOH Na2S2 Metha	The Albert	편 양 안 외 외
1 D-102	St C 10/21 1	5:2	4 X	XXXX AS3	
3					90 (Call with any questions)
4					
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7					
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12 ADDITIONAL COMMENTS					
	RELINQUISHED BY / AFF				IME SAMPLE CONDITIONS
	Marc	10/2/15	16:21 Mg Ule	10/21/17/16	2) 20.76 W N Y
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	GINAL SAI	MPLER NAME AND SIGNATURE	1		
Unit		PRINT Name of SAMPLER:	Nett, Gare	9	Temp in °C Temp in °C loc (Y/N) Custody Loc (Y/N) (Y/N) Loc (Y/N) Loc
			the A	DATE Signed	Temp in °C terevel or °C custody (Y/N) (Y/N)
Pace Analytical Services. Inc.	Pace's NET 30 day payment terms and ag	reeing to late charges of 1.5% per month for		(MM/DD/YY): 10/21/19	2 195100544 - Pasge 9 of 33



Sample Condition Upon Receipt

. .

						CLIENT NAME:	Bar Al	6	
COURIER: FedEx UPS C C C C C C C C C C C C C C C C C C C	lient	Pace CUSTOD	Othe Y SEAL PRESE		No	PROJECT : INTACT: Yes	No E	N/A B	
PACKING MATERIAL: Bubble Wrap	Bubble Bags		None	Other 🗆	v	ICE USED: Wet 🗆		None	
THERMOMETER USED: #164 🗆 IR Gu	in 03 🖅	#12208	7967 🗆		COOLER TE	MPERATURE (°C): _		PC	
BIOLOGICAL TISSUE IS FROZEN: Yes 🗆	No 🗆	N/A	-			Temp should be	above freezing	to 6°C	
COMMENTS:					Temperatu	re is Acceptable?	⊡fYes	Ì¥‰	
Chain of Custody Present:	Yes	□No		1.					
Chain of Custody Filled Out:	* Kes	□No		2.					
Chain of Custody Relinquished:	Yes	□No		3.				· · · · · · · · · · · · · · · · · · ·	-
Sampler Name / Signature on COC:	Yes	□No		4.					-1
Samples Arrived within Hold Time:	Yes	□No		5.					
Short Hold Time Analysis (<72hr):	□Yes	12 No		6.					
Rush Turn Around Time Requested:		□No		7. ASAF	>			· · · · · · · · · · · · · · · · · · ·	
Sufficient Volume:	X es	□No		8.				· · · · · · · · · · · · · · · · · · ·	-
Correct Containers Used:	XP es	□No		9.					
- Pace Containers Used:	A es	□No							
Containers Intact:	X Ves	□No		10.			· · · · ·		_
Filtered volume received for Dissolved test	ts: ⊡ _{Yes}	□No		11.			······································		
Sample Labels match COC: - Includes date/time/ID/Analysis	Æ res	□No		12.			·.		
All containers needing preservation have been checked:	□Yes	□No		13.					
All containers needing preservation are in	□Yes	□No				-			
compliance with EPA recommendation:				Initial when					
- Exceptions that are not checked: TOC, VOA, Subcor	tract Analyses	_		completed:	NA	Lot # of added pro	eservative:	NA	
Headspace in VOA Vials (>6mm):	Yes	□No		14.					
Trip Blank Present:	□Yes	□No		15.					
Trip Blank Custody Seals Present:	□Yes	□No							
Pace Trip Blank Lot #:NIA			·					-	
Sample Receipt form filled in: Kec 10/22/K					-	nts and verifying s	• • •	KAC IOIZZIN	
				-		cies and document	• ,	AJB 10/22/14	5
		Labeling (Includes Sca	nning Bottles	and enter	ing LAB IDs into pl	logbook):	KAC IOLZZIS	

Pace Analytical Services, Inc.

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 SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1,2} SAMPLES PRESERVED PER METHOD GUIDANCE: NO SHIPPING ID: N. SHAFFER/ BAR-ALB ³ SAMPLES REC'D IN HOLDTIME: YES NUMBER OF COOLERS: 1 DISPOSAL: BY LAB (45 DAYS) CUSTODY SEAL INTACT: NA COC DISCREPANCY: NO COOLER STATUS: AMBIENT TEMPERATURE(S): ⁵/₂0.7 (IR) °C

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 4
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	

¹The 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. ²The 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. ³Samples 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

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.

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.

⁵All 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.

6Samples 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

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Page 1 of 1

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GC - PCB



Analytical Sample Results

Job Number: 15100544

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-1565-1	8 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 Fact	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	()	\mathbf{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

¹Qualifier 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)



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-1565-1	6 SW-846 8082A (PCB)	10/25/2015 14:00	MCA	NA	NA	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 µ
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 Facto	or 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
			Lin	nits		
Surrogate	CAS No.	% Recovery	(%	ó)	\mathbf{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

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: 15100544

Project: A Client Sar	Client: BARTON AND LOGUIDICE Project: ALCO Client Sample ID: Lab Control Sample (AS33401L) Lab Sample ID: LCS-50				Collee Samp Recei Perce				
	Batch ID			Analy	st In	it Wt./V			
Analysis 1: Prep 1:	GC10F-1565-17 32646	SW-846 8082A (PCB) EPA 3546	10/25/2015 10/23/2015		MCA LMB			NA 25.0 mL	Phenomenex, Zebron ZB-1MS, 20 m, 0.18 mm ID, 0.18 μm NA
Analyte Sp	piked	CAS No.	Added (ug/g)	L((ug	•	LCS % Rec.	\mathbf{Q}^{1}	Limits (%)	
Aroclor 1242			1.24	1.06		85.3		70.0-130	
¹ Qualifier colun	nn where '*' denotes	value outside the control limits. Note: RPI	O criteria does not	apply i		sample ar	nd duplicate	sample are not detec \mathbf{O}^1	ted.

Surrogate % Recovery CAS No. (%) Q File ID GC10F-1565-17 Tetrachloro-meta-xylene 877-09-8 91.7 47.0-123 105 GC10F-1565-17 Decachlorobiphenyl 2051-24-3 35.0-153 ¹Qualifier 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



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 TEL: (631) 694-3040
 FAX: (631) 420-8436

 NYSDOH ID#10478
 www.pacelabs.com

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

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.

Lab No. : 1510H16-001 Client Sample ID: D-102 Sample Information:

Type: Soil

Origin:

AS33401 *Samples received out of temperature at Schenectady lab

Analytical Method: SW1311/82	270D : <u>Pre</u>	ep Method: 351	10C	Prep Date: 1	0/26/2015 5:27:17 PM	Analyst: SH
			Prep Corr	ments: ambient room tem	perature exceeded range	
Parameter(s)	Results Qualifie	<u>r D.F.</u>	<u>Units</u>		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 : Pre	<u>o Method:</u> SW	/1311/8151	Prep Date:	10/26/2015 9:43:49 AM	Analyst: MJM				
		Prep Comments: ambient room temperature exceeded range								
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>		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

Date Reported : 10/28/2015

Cattlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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 NYSDOH ID#10478
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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

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.

Lab No. : 1510H16-001 Client Sample ID: D-102

Sample Information:

Type: Soil

Origin:

AS33401 *Samples received out of temperature at Schenectady lab

Analytical Method:	SW1311/7470A :	Prep	Method: SW	7470	Prep Date: 10/27/2015 7:00:00 AM Analyst: MF
				Prep Con	nments: ambient room temperature exceeded range
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	Analyzed: Container:
Mercury	< 0.200		1	ug/L	10/27/2015 1:15 PM Container-01 of 04
Analytical Method:	SW1311/6010C :	Prep	<u>Method:</u> SW	/3005A	Prep Date: 10/26/2015 1:30:00 PM Analyst: CGZ
				•	nments: ambient room temperature exceeded range
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	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: 351	0C	Prep Date: 10/26/2015 5:19:55 PM Analyst: JS
				Prep Con	nments: ambient room temperature exceeded range
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	Analyzed: Container:
Chlordane	< 0.002	0	1	mg/L	10/27/2015 3:06 PM Container-01 of 04
Endrin	< 0.000	20	1	mg/L	10/27/2015 3:06 PM Container-01 of 04
gamma-BHC	< 0.000	10	1	mg/L	10/27/2015 3:06 PM Container-01 of 04
Heptachlor	< 0.000	10	1	mg/L	10/27/2015 3:06 PM Container-01 of 04
Heptachlor epoxide	< 0.000	10	1	mg/L	10/27/2015 3:06 PM Container-01 of 04
Methoxychlor	< 0.001	0	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: Decachlorobiph	enyl 82.4		1	%REC	Limit 30-150 10/27/2015 3:06 PM Container-01 of 04
Surr: Tetrachloro-m-x	ylene 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
 - Date Reported : 10/28/2015

Cattlin Panzarella

Project Manager

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Attn To: William A. Kotas

Collected : 10/21/2015 3:30:00 PM

Received : 10/22/2015

Collected By : CLIENT

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.

Lab No. : 1510H16-001 Client Sample ID: D-102 Sample Information:

Type: Soil

Origin:

AS33401 *Samples received out of temperature at Schenectady lab

Analytical Method:	SW1311/8260C :				Pre	p Date: 10/23/2015 3:11:46 PM	Analyst: MF
Parameter(s)	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>		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-dichloroetha	ne-d4 127		1	%REC	Limit 53-183	10/27/2015 9:56 AM	Container-01 of 04
Surr: 4-Bromofluorobe	enzene 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

<u>Qualifiers:</u> 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

Date Reported : 10/28/2015

Cattlin Panzarella

Project Manager

Test results meet the requirements of NELAC unless otherwise noted.

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QC SUMMARY REPORT

WO#: 1510H16

28-Oct-15

Client: Project:	Pace Analytical Services Inc. 15100544 - B&L ALCO					BatchID:	52644	
Sample ID: mb-526 Client ID: PBW	44 SampType: mblk Batch ID: 52644	TestCode: 1311 TestNo: SW1	- •		Prep Date: Analysis Date:	10/26/2015 10/27/2015	RunNo: 85937 SeqNo: 1862908	
Analyte	Result	PQL SPK	value SPK Ref Val	%REC	LowLimit H	HighLimit RPD Ref V	al %RPD RPDLimit	Qual
2,4-D 2,4,5-TP (Silvex) Surr: DCAA	< 0.0050 < 0.0025 0.084	0.0050 0.0025 0.	1000	83.7	36	121		
Sample ID: Ifb-5264 Client ID: ZZZZZ		TestCode: 1311 TestNo: SW1	- •		Prep Date: Analysis Date:		RunNo: 85937 SeqNo: 1862909	
Analyte	Result	PQL SPK	value SPK Ref Val	%REC	LowLimit H	HighLimit RPD Ref V	al %RPD RPDLimit	Qual
2,4-D 2,4,5-TP (Silvex) Surr: DCAA	0.017 0.0092 0.075	0.0025 0.0	2000 0 1000 0 1000	86.6 92.3 74.7	47 44 36	152 157 121		

Qualifiers:

Η

* Value exceeds Maximum Contaminant Level

- D Dilution was required.
- Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 4 of 12



QC SUMMARY REPORT

WO#: 1510H16

28-Oct-15

	ace Analytical Services Inc. 5100544 - B&L ALCO						F	BatchID: 5	2650		
Sample ID: MB-52650 Client ID: PBW			1311_M SW1311/60	Units: mg/L 010 SW3010A		Prep Da Analysis Da			RunNo: 858 SeqNo: 186		
Analyte	Result	PQL S	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	TestCoo	TestCode: 1311_M Units: mg/L			Prep Da	te: 10/26/2	015	RunNo: 85862			
Client ID: LCSW	Batch ID: 52650	TestN	lo: SW1311/6	010 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:

*

Η

- Value exceeds Maximum Contaminant Level
- D Dilution was required.
- Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 5 of 12



QC SUMMARY REPORT

WO#: 1510H16

28-Oct-15

Client: Project:	•	ical Services Inc. B&L ALCO						В	atchID: 5	2654		
	15100544 -	bæl Alco						В	attinD. 5	2034		
Sample ID: mb-520	654	SampType: mblk	TestCo	de: 1311_p	Units: mg/L		Prep Da	te: 10/26/20	015	RunNo: 859	910	
Client ID: PBW		Batch ID: 52654	Test	No: SW1311/8	081 SW3510C		Analysis Da	te: 10/27/20	015	SeqNo: 18	61844	
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: Decachlorol	biphenyl	0.00030		0.0004000		74.3	30	150				
Sample ID: Ifb-526	54	SampType: Ifb	TestCo	de: 1311_p	Units: mg/L		Prep Da	te: 10/26/20	015	RunNo: 859	910	
Client ID: ZZZZZ	z	Batch ID: 52654	Test	No: SW1311/8	081 SW3510C		Analysis Da	te: 10/27/20	015	SeqNo: 180	61845	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
gamma-BHC		0.00068	0.00010	0.008000	0	85.4	27	146				
Heptachlor		0.00062	0.00010	0.0080000	0	77.7	10	148				
Heptachlor epoxide		0.00068	0.00010	0.008000	0	85.3	28	144				
Endrin		0.00063	0.00020	0.008000.0	0	78.7	22	152				
Methoxychlor		< 0.0010	0.0010	0.0080000	0	79.6	19	146				

Qualifiers:

Surr: Tetrachloro-m-xylene

Surr: Decachlorobiphenyl

Η

- * Value exceeds Maximum Contaminant Level
- D Dilution was required.

0.0004000

0.0004000

Holding times for preparation or analysis exceeded

0.00030

0.00030

- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- M Manual Integration used to determine area response

74.0

75.8

P Second column confirmation exceeds

E Value above quantitation range

150

150

30

30

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1510H16

28-Oct-15

	ace Analytical Services Inc. 5100544 - B&L ALCO						E	atchID: 5	2654		
Sample ID: Ifb3-52654 Client ID: ZZZZZZ	4 SampType: Ifb Batch ID: 52654		e: 1311_p o: SW1311/8 (Units: mg/L 081 SW3510C		Prep Dat Analysis Dat	te: 10/26/2 te: 10/27/2		RunNo: 859 SeqNo: 180		
Analyte	Resu	lt PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toxaphene Surr: Tetrachloro-m- Surr: Decachlorobipl	,	3	0.04000 0.0004000 0.0004000	0	88.7 82.1 98.1	46 30 30	168 150 150				E

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 7 of 12



QC SUMMARY REPORT

WO#: 1510H16

28-Oct-15

Client: Project:	5	tical Service B&L ALCO							В	atchID: 5	52655		
Sample ID: MB-52 Client ID: PBW	655	SampType: Batch ID:			le: 1311_B lo: SW1311/82	Units: mg/L 270 SW3520C		Prep Date Analysis Date			RunNo: 859 SeqNo: 186		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Pyridine			< 0.0100	0.0100									
1,4-Dichlorobenzen	е		< 0.0100	0.0100									
2-Methylphenol			< 0.0100	0.0100									
3-Methylphenol/4-M	lethylphenol		< 0.0100	0.0100									
Hexachloroethane		<	< 0.0100	0.0100									
Nitrobenzene		<	< 0.0100	0.0100									
Hexachlorobutadien	e	<	< 0.0100	0.0100									
2,4,6-Trichlorophen	ol	<	< 0.0100	0.0100									
2,4,5-Trichlorophen	ol	<	< 0.0250	0.0250									
2,4-Dinitrotoluene		<	< 0.0100	0.0100									
Hexachlorobenzene	;	<	< 0.0100	0.0100									
Pentachlorophenol		<	< 0.0250	0.0250									
Surr: 2-Fluorophe	enol		0.0170		0.07500		22.7	21	110				
Surr: Nitrobenzer	ne-d5		0.0294		0.05000		58.8	35	114				
Surr: Phenol-d5			0.0106		0.07500		14.1	10	110				
Surr: 2,4,6-Tribro	omophenol		0.0597		0.07500		79.6	10	123				
Surr: 2-Fluorobip	henyl		0.0295		0.05000		59.0	43	116				
Surr: 4-Terpheny	-		0.0497		0.05000		99.4	33	141				
Surr: 2-Chlorophe	enol-d4		0.0377		0.07500		50.3	33	110				
Surr: 1,2-Dichloro	obenzene-d4		0.0236		0.05000		47.2	16	110				
Sample ID: LFB-52	2655	SampType:	LFB	TestCod	le: 1311_B	Units: mg/L		Prep Date	e: 10/26/2 (015	RunNo: 859	072	
Client ID: ZZZZZ		Batch ID:				270 SW3520C		Analysis Date		015	SeqNo: 186		
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Qualifiers: * H O S	Holding times RSD is greate	s Maximum Cor s for preparation r than RSDlimit ry outside accep	or analysis exce		M Manua	on was required. Il Integration used to d d column confirmation		ea response	ND N	Value above quant Not Detected at the RPD outside accep	e Reporting Limi	its	ige 8 of 1



QC SUMMARY REPORT

WO#: 1510H16

28-Oct-15

	lytical Services Inc. - B&L ALCO						B	atchID: 5	2655		
Sample ID: LFB-52655	SampType: LFB	TestCo	de: 1311_B	Units: mg/L		Prep Dat	e: 10/26/20)15	RunNo: 85	972	
Client ID: ZZZZZZ	Batch ID: 52655	Test	No: SW1311/8	270 SW3520C		Analysis Dat	e: 10/27/20)15	SeqNo: 18	63414	
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:

Η

- * Value exceeds Maximum Contaminant Level
- D Dilution was required.
- Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1510H16

28-Oct-15

Client: Project:	Pace Analytical Services Inc. 15100544 - B&L ALCO		BatchID: 5	52666
Sample ID: MB-526 Client ID: PBW	666 SampType: MBLK Batch ID: 52666	TestCode: 1311_HG Units: ug/L TestNo: SW1311/7470 SW7470	Prep Date: 10/27/2015 Analysis Date: 10/27/2015	RunNo: 85888 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: MB1-52	2666 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-52	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	

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Dilution was required.
- H Holding times for preparation or analysis exceeded

O RSD is greater than RSDlimit

- S Spike Recovery outside accepted recovery limits
- M Manual Integration used to determine area response
- P Second column confirmation exceeds

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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Sample Receipt Checklist

	Website: <u>ww</u>	<u>w.pacelabs.com</u>		
Client Name: PACE-NY		Date	and Time Received:	10/22/2015
Work Order Number: 1510H16 RcptNo:	1	Rece	eived by: Paige Doher	rty
Completed by: Paige Doherty		Reviewed by:	CattlinI	anzarella.
Completed Date: <u>10/22/2015 10:54:48 PM</u>	F	Reviewed Date:	<u>10/23/2015</u>	5 <u>11:25:12 AM</u>
Carrier name: PACE Pickup				
Chain of custody present?	Yes 🕨			
Chain of custody signed when relinquished and received?	Yes			
Chain of custody agrees with sample labels?	Yes			
Are matrices correctly identified on Chain of custody?	Yes	_		
Is it clear what analyses were requested?	Yes 🛚	No No		
Custody seals intact on sample bottles?	Yes	No	Not Present	\checkmark
Samples in proper container/bottle?	Yes 🕨	No 🛛		
Were correct preservatives used and noted?	Yes 🕨	No 🛛	NA	
Preservative added to bottles:				
Sample Condition?	Intact		Leaking	
Sufficient sample volume for indicated test?	Yes 🛚	_		
Were container labels complete (ID, Pres, Date)?	Yes 🛚	_		
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 🗌	To3	.3 °
Water - Were bubbles absent in VOC vials?	Yes	No [No Vials	
Water - Was there Chlorine Present?	Yes	No [NA	\checkmark
Water - pH acceptable upon receipt?	Yes	□ No [No Water	\checkmark
Are Samples considered acceptable?	Yes 🕨	No 🛛		
Custody Seals present?	Yes 🕨	🖊 No 🛛		
Airbill or Sticker?	Air Bill	Sticker	Not Present	\checkmark
Airbill No:				
Case Number: SDG:		SAS:		
Any No response should be detailed in the comments section	on below. if applicable			
=======================================				=======================================
Client Contacted?	Person Contact	ed:		
Contact Mode: Phone: Fax:	Email:	In Pers	son:	
Client Instructions:				
Date Contacted: Co	ontacted By:			
Regarding:	·			
Comments:				
Upon receipt at Schenectady lab, sample temperature was	s greater than 6C. No	ice was present.		
CorrectiveAction:				

7



575 Broad Hollow Road , Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 NYSDOH ID#10478 <u>www.pacelabs.com</u>

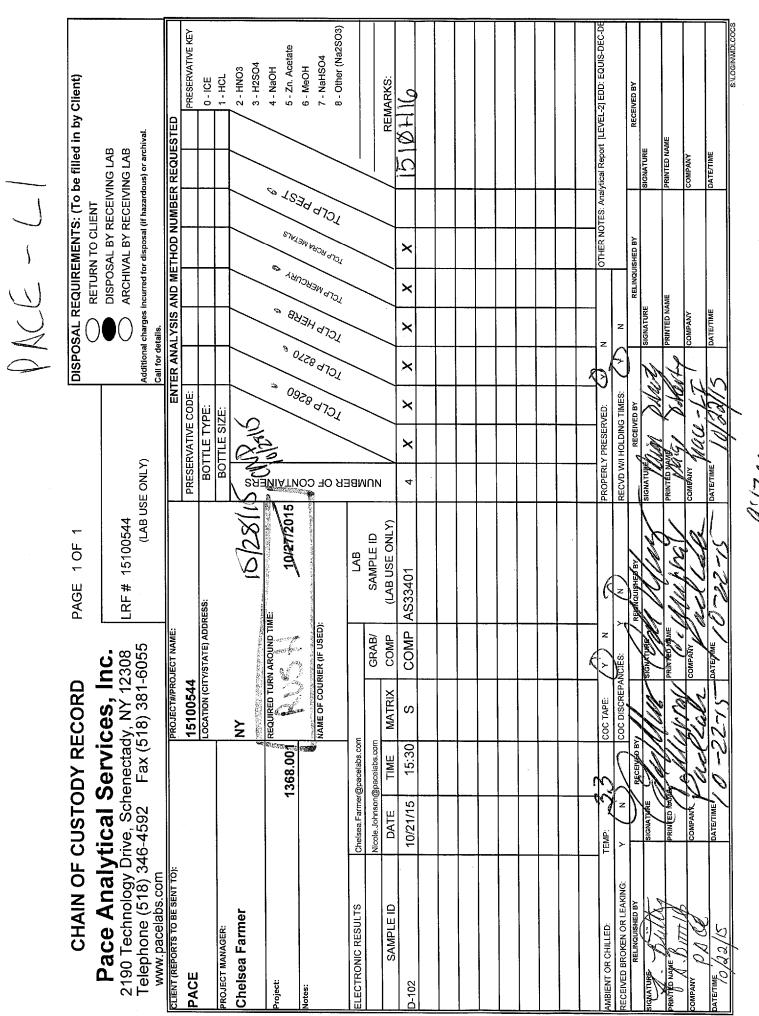
WorkOrder :

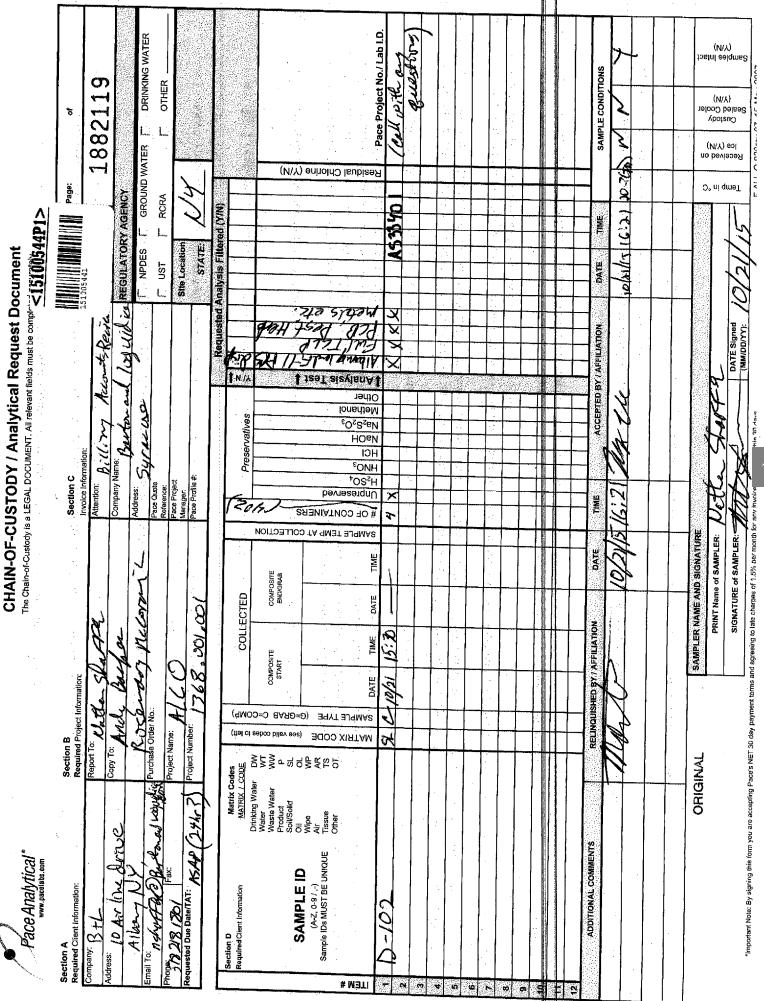
1510H16

Certifications

S TATE	CERTIFICATION #
NEW YOR K	10478
NEW JERSEY	NY1 58
CONNECTICUT	PH-0435
MARYLAND	208
MAS S AC HUS E TTS	M-NY026
NEW HAMPS HIRE	2987
R HODE IS LAND	LAO00340
P E NNS YLVANIA	68-00350

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Pace Analytical Services, Inc.

15100544 - Page 32 of 33

<15100544P2>							.:				-			-												1			5
• I <u></u> i			N/A B	. 1	6°C	《																		NA					AC 10/22/K AJB 10/22/ AC 10/22/15
	RLCO ALD		D No D	30.0°C	bove freezing to	DYes.			-															servative:					imple pH): <u>1</u> ing in LIMS): I logbook): <u>1</u>
eipt	CLIENT NAME: PROJECT :		INTACT: Yes	COOLER TEMPERATURE (°C):	Temp should be above freezing to 6°C	Temperature is Acceptable?				-														Lot # of added preservative:				-	Line-Out (Includes Copying Shipping Documents and verifying sample pH): Log In (Includes notifying PM of any discrepacies and documenting in LIMS): Labeling (Includes Scanning Bottles and entering LAB IDs into pH logbook):
Sample Condition Upon Receipt			Yes D No V			Temperatur			-				-34P										when	NIA					ipping Document of any discrepaci ottles and enterir
Conditic		Other 🗆	SEAL PRESENT: Yes 🗆 Nona A	5		•	1	2.	3.	4.	5.	6.	7. 1	8.	ъ.		10.	11.	12.		13.		Initial when	completed:	14.	15.			opying Sh ifying PM canning Bo
Sample (G	DDY SEAL PRE Nona A	#122087967	X	*	-											NON A			¥¥.				A 199	.₹	R R		ıt (Includes C Includes noti g (Includes So
		Pace 🗆			N/AP-		°N D	ON0	_°No	ONO	ON0	out X	ON0	٥NП	οNΠ	OND	°N D	ON0	٩N	:	°N D	oN □		-	٥ND	°N D	°N []		Line-Ou Log In (Labelin
. 6		Client	 Buhhle Bags	IR Gun 03'E	No 🗆		A Ves	AVec .	MV es	withes	whee	Ω¥es	aller.) xo «	Xa es	See State	Ř	d tests: □ _{Yes}	Å		been 🗆 Yes	in 🛛 Yes	1:	Subcontract Analyses	⊡Yes	□Yes	⊡Yes		ट्याइ
			111 uhhle Wran 🗆	#164 []	ROZEN: Yes 🗆		ent:	i Out:	quished:	ture on COC:	n Hold Time:	sis (<72hr):	e Requested:		sd:	Used:		ed for Dissolve	:oc:	ne/ID/Analysis	reservation have ed:	g preservation are	recommendation	hecked: TOC, VOA,	s (>6mm):		ls Present:	HIN I	ed in: Kec 1012
		COURIER: FedEx 🗆	TRACKING #	THERMOMETER USED: #164	BIOLOGICAL TISSUE IS FROZEN: Yes	COMMENTS:	Chain of Custody Present:	Chain of Custody Filled Out:	Chain of Custody Relinquished:	Sampler Name / Signature on COC:	Samples Arrived within Hold Time:	Short Hold Time Analysis (<72hr):	Rush Turn Around Time Requested	Sufficient Volume:	Correct Containers Used:	- Pace Containers Used:	Containers Intact:	Filtered volume received for Dissolved tests:	Sample Labels match COC:	- Includes date/time/ID/Analysis	All containers needing preservation have been checked:	All containers needing preservation are in	compliance with EPA recommendation:	- Exceptions that are not checked: TOC, VOA, Subcontract Analyses	Headspace in VOA Vials (>6mm)	Trip Blank Present:	Trip Blank Custody Seals Present	Pace Trip Blank Lot #:	Sample Receipt form filled in: 100
Pace Analytical Servic	es, Inc.	-			-	•		<u> </u>		<u>[</u> 0]			tobe	-	••••••	15		<u></u>								<u>F</u>	<u>T</u>		5100544 - Page

Dacument Control# F-NY-C-034-rev.00 (15July2015)



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.

Koy Sme

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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Section 3: SAMPLE CHAIN OF CUSTODY	9
Section 4: SAMPLE RECEIPT12	2
Section 5: Subcontract Analysis	4

CASE NARRATIVE

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. S:\Lims Data\1606\16060565\Package\CN_16060565_Rev00.doc

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,

hela L-Far-

Chelsea L. Farmer 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

																					00103	21>		
				(CHAIN	OF-CI	JST	OD	Y/.	Ana	lyti	cal	Re	que	st Do	ocun	nent					111.10		
Face Analytical*				Т	he Chain-of	Custody is	a LEG	AL DO	CUM	ENT. /	Ali relev	/ant fi	elds m	nust be	complet	ed accu	irately.		1	6060565				
Pace Analytical* www.pacetabs.com																			Г					7
	Section B						Sect	tion C	;										Page	e:		e an d		
Section A Required Client Information:	Required Proj	ject Infori	nation:						ormatio	n:						-				1	882	6.21		
Company:	Report To:	And	Borto	er-			Atten	ntion:	AZO	ろうひ	ite	: [=	and	th	e) .J.,	002			_
Address:	Copy To:	1.4	2 de la	Dat	P		Com	ipany t	Name:	Bez	ton	Å të	Plin	við	Joth	REG	ULATO	RY A	GENCY					
Oforline prove senter		an	<u>~</u> _	SV TA	<u> </u>		Addr	ress:	143	File	tron	xi25	Rot	Kwo	M		NPDES	Γ	GROU	ND WAT	ER 🕅	DRINKING	3 WATER	1
Allan NY 12205 Email To:	Purchase Ord	er No.:					Pace	Quote		4	ser-	OUT.	_μ	171			UST		RCRA		P ^{ase}	OTHER		
ASharrer burnerellic	Project Name:		A [/ /	1				Projec	t /1	1	0	/	I. D	n		Site	Locatio	n						1
Phone: 5182181801 518218 1805	-		4/ <u>C</u>	/	<u>) - 1</u>		Mana Pace	ager: Profile	 #:	14	3		~~~				STATE		N	Ý				
Requested Due Date/TAT: ASAP	Project Numbe	er:	368	,001	-001									Dee		J A nali	/sis Filt		(V/N)	2007 1 1 1 1	an an an an an an an an an an an an an a			4
														Rec	luestet					-				
Section D Matrix C	odes	ED (H)		COLLE	TED				Pre	eserva	atives		1 N/X							· / 透影	<u> (141)</u>			
Required Client Information MATRIX / Drinking Wate	<u>CODE</u> er DW	S=GRAB C=COMP)					5			TT	TT			- di	5									
Water Waste Water	WT WW	d cod	COMPO		COMPOSIT END/GRAE	E FO	# OF CONTAINERS							1.50	Š					Î				
Product Soil/Solid	P SL	(see valid (G=GRAB	STAR	•	END/GRAC								i ⇒	- Shi	en la					Residual Chlorine (Y/N)				
SAMPLE ID Oil Wipe	MP	19					# OF CONTAINERS						Test	F.C.						Drine				
(A-Z, 0-9 / ,-) Air	AR Z TS C	MATRIX CODE SAMPLE TYPE					TAIN	ed					s T		1)मारु					Ъ Ч				
Sample IDs MUST BE UNIQUE Tissue Other	OT CT	Σ E						serv			ပ်	2	lysi	inci i	7					lual				
# 8	, i	MATRIX SAMPLE						Unpreserved	H ₂ SO ₄		NaUH Na ₂ S ₂ O ₃	etha	L Analysis	14	2					esid				
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	, je naprist tir klade	-			PRINT Nam	e of SAMPL	ER:	A	let	La	_	Ś	at	1-	Ĉ_				,	Temp in	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
					SIGNATUR	E of SAMPL	ER:	1	12	5	5	1			FE-Signe M/DD/YY		120	7/	296	μ ^θ	Re	See	San	
				L				11	1	on	-6					-4		1-			L-Q-020rev	.07, 15-Ma	y-2007	

16060565 - Page 10 of 32

			ample Co	ndition Upon Rece	ipt	
					CLIENT NAME: BAL PROJECT : ALLO	
FRACKING # PACKING MATERIAL: Bubble Wrap D E THERMOMETER USED: #164 D IR Gun 03 4	entro Bubble Bag #1602397 No 🗆	gs 🗆	Othe Y SEAL PRESE None ⁄ - 0239773-PRI	NT: Yes No INTACT: Yes D No ICE USED: Wet (Blue D VIPERATURE (°C):, [0[]]		
COMMENTS:				Temperatu	re is Acceptable?	□No
Chain of Custody Present: Chain of Custody Filled Out:	QYes D¥es			1. 2.		
Chain of Custody Relinquished:	1 Yes			3		
Sampler Name / Signature on COC:	TYes	□No		4	······································	
Samples Arrived within Hold Time:	Yes			5.		
Short Hold Time Analysis (<72hr):	□Yes	D No		6. 7 N N N (
Rush Turn Around Time Requested:	Ves			7. ASAP		
Sufficient Volume:	Yes			8. 9.		
Correct Containers Used:	Yes	□No		9.		
- Pace Containers Used:	Yes	□No		10.		
Containers Intact:	Yes	□No		11.		
Filtered volume received for Dissolved test			YAN/A	12.		
Sample Labels match COC: - Includes date/time/ID/Analysis	RYes	□No				
All containers needing preservation have been checked:	□Yes	□ No	∕ €(N/A	13.		
All containers needing preservation are in compliance with EPA recommendation:	☐Yes	□ No		Initial when completed: NHA	Lot # of added preservative	: NHA
- Exceptions that are not checked: TOC, VOA, Subco		es		14.		
Headspace in VOA Vials (>6mm):	QYes		XIN/A	14.		
Trip Blank Present: Trip Blank Custody Seals Present:	□Yes □Yes		ØN/A ØN/A			
Pace Trip Blank Lot #:A	•	Log In	(Includes no	ifving PM of any discrep	ents and verifying sample pH acies and documenting in LIM ering LAB IDs into pH logbook	(S): <u>CCA 01-110</u>

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 SAMPLE SEALS INTACT: NA SHIPPED VIA: DROP OFF ^{1.}SAMPLES PRESERVED PER METHOD GUIDANCE: YES SHIPPING ID: ³ SAMPLES REC'D IN HOLDTIME: YES NUMBER OF COOLERS: 1 DISPOSAL: BY LAB (45 DAYS) CUSTODY SEAL INTACT: NA COC DISCREPANCY: NO COOLER STATUS: CHILLED TEMPERATURE(S): ⁵4.6 (IR) °C

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/E7470	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/E82701	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	

¹The 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. ²The 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. ³Samples 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

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.

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.

⁵All 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.

6Samples 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

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Page 1 of 1

2190 Technology Drive Schenectady, NY 12308 Phone 518.346.4592 Fax 518.381.6055

Subcontract Analysis



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

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.

Lab No. : 1606Q70-001 Client Sample ID: D103 Sample Information:

Type : Soil

Origin:

Analytical Method: SW8082A :	Prep N	Method: SW38	545A	Prep Date: 6/2	28/2016 12:46:54 PM	Analyst: JS
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>		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	<u>D.F.</u>	<u>Units</u>		Analyzed:	Container:
Percent Moisture	11.2	1	wt%		06/28/2016 3:08 PM	Container-01 of 01

<u>Qualifiers:</u> 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 Date Reported : 7/1/2016

Cattlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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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 (TCLP)

Collected By CLIENT

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.

Lab No. : 1606Q70-002 Client Sample ID: D103 Sample Information:

Type : Soil

Origin:

Analytical Method: SW1311/827	0D : <u>P</u>	rep Method: SW	3510C		Prep Date: 6	6/29/2016 6:14:43 PM	Analyst: EAG
Parameter(s)	<u>Results</u> Qualifi	<u>er D.F.</u>	<u>Units</u>			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: SW1311/815	1A: <u>P</u>	rep Method: SW	1311/8151		Prep Date:	6/29/2016 9:36:55 AM	Analyst: MJM
Parameter(s)	<u>Results</u> Qualifi	<u>er D.F.</u>	<u>Units</u>			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: SW1311/747	0A : <u>P</u>	rep Method: SW	7470		Prep Date: 6	6/29/2016 5:30:19 PM	Analyst: AG
Parameter(s)	<u>Results</u> Qualifi	<u>er D.F.</u>	<u>Units</u>			Analyzed:	Container:
Mercury	< 0.200	1	ug/L			06/30/2016 12:16 PM	Container-01 of 03

<u>Qualifiers:</u> E = Value above quantitation range, Value estimated.

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- 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 Date Reported : 7/1/2016

Cattlin Panzarella

Project Manager : Caitlin Panzarella

Test results meet the requirements of NELAC unless otherwise noted.

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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 (TCLP)

Collected By CLIENT

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.

Lab No. : 1606Q70-002 Client Sample ID: D103 Sample Information:

Type : Soil

Origin:

Analytical Method:	SW1311/6010C :	Prep Metho	<u>od:</u> SW3005A		Prep Date: 6/2	9/2016 2:30:00 PM	Analyst:	CGZ
Parameter(s)	<u>Results</u>	<u>Qualifier</u> D	. <u>F. Uni</u>	<u>S</u>		Analyzed:	Contain	er:
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 Metho	od: SW3510C		Prep Date: 6/2	9/2016 6:08:32 PM	Analyst:	JS
Parameter(s)	Results	<u>Qualifier</u> <u>D</u>	0.F. <u>Uni</u>	<u>s</u>		Analyzed:	Contain	er:
Chlordane	< 0.0020	1	mg/l			06/29/2016 10:44 PM	Container-	-01 of 03
Endrin	< 0.0002	0 1	mg/l			06/29/2016 10:44 PM	Container-	-01 of 03
gamma-BHC	< 0.0001	0 1	mg/l			06/29/2016 10:44 PM	Container-	-01 of 03
Heptachlor	< 0.0001	0 1	mg/l			06/29/2016 10:44 PM	Container-	-01 of 03
Heptachlor epoxide	< 0.0001	0 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: Decachlorobiph	enyl 68.7	1	%Re	c Limit	30-150	06/29/2016 10:44 PM	Container-	-01 of 03
Surr: Tetrachloro-m->								

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Cattlin Panzarella

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Page 3 of 15



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 (TCLP)

Collected By CLIENT

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.

Lab No. : 1606Q70-002 Client Sample ID: D103 Sample Information:

Type : Soil

Origin:

Analytical Method: SW1311/826	60C :			Prep Date: 6	/28/2016 8:28:08 PM	<u>Analyst:</u> MF
Parameter(s)	Results Qualifier	<u>D.F.</u>	<u>Units</u>		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

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Cattlin Panzarella

Project Manager : Caitlin Panzarella

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QC SUMMARY REPORT

%RPD

RPDLimit

Qual

1606Q70 WO#:

01-Jul-16

Project: 16060565	- 1368.001					BatchID:	56778	
Sample ID mb-56778	SampType: mblk	TestCode: 8082_s	υnits: μg/Kg		Prep Date:	6/28/2016	RunNo: 100928	
Client ID: PBS	Batch ID: 56778	TestNo: SW808	2 SW3545		Analysis Date:	6/29/2016	SeqNo: 2220922	
Analyte	Result	PQL SPK val	ue SPK Ref Val	%REC	LowLimit H	ighLimit RPD Ref Val	%RPD RPDLimit	t 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 Ifb2-56778	SampType: Ifb	TestCode: 8082_s	units: μg/Kg		Prep Date:	6/28/2016	RunNo: 100928	
Client ID: ZZZZZZ	Batch ID: 56778	TestNo: SW808	2 SW3545		Analysis Date:	6/29/2016	SeqNo: 2220923	

Qualifiers:

Analyte

Aroclor 1016

Aroclor 1260

Surr: Tetrachloro-m-xylene

Η

Surr: Decachlorobiphenyl

- * Value exceeds Maximum Contaminant Level
- D Dilution was required.

SPK value SPK Ref Val

166.7

166.7

13.33

13.33

Holding times for preparation or analysis exceeded

Result

120

130

9.4

11

PQL

33

33

0 RSD is greater than RSDlimit

S Spike Recovery outside accepted recovery limits

- Μ Manual Integration used to determine area response

0

0

Р Second column confirmation exceeds

W Sample container temperature is out of limit as specified

%REC

70.8

80.5

70.7

81.0

LowLimit

50

45

30

30

HighLimit RPD Ref Val

136

154

150

150

- Е Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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QC SUMMARY REPORT

%RPD

RPDLimit

Qual

1606Q70 WO#:

01-Jul-16

Sample ID mb-56778	SampType: mblk	TestCode	8082_s	Units: µg/Kg		Prep Date:	6/28/2016	RunNo: 1	00819	
Client ID: PBS	Batch ID: 56778	TestNo	SW8082	SW3545		Analysis Date:	6/29/2016	SeqNo: 2	219696	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit H	lighLimit RPD Ref Va	al %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: Ifb	TestCode	8082_s	Units: µg/Kg		Prep Date:	6/28/2016	RunNo: 1	00819	
Client ID: ZZZZZZ	Batch ID: 56778	TestNo	SW8082	SW3545		Analysis Date:	6/29/2016	SeqNo: 2	219697	

Qualifiers:

Analyte

Aroclor 1016

Aroclor 1260

Surr: Tetrachloro-m-xylene

Surr: Decachlorobiphenyl

- * Value exceeds Maximum Contaminant Level
- D

SPK value SPK Ref Val

166.7

166.7

13.33

13.33

Η Holding times for preparation or analysis exceeded

Result

120

120

8.3

10

PQL

33

33

0 RSD is greater than RSDlimit

S Spike Recovery outside accepted recovery limits

- Dilution was required.
- Μ Manual Integration used to determine area response

0

0

Р Second column confirmation exceeds

W Sample container temperature is out of limit as specified

%REC

69.4

70.7

62.2

75.4

LowLimit

50

45

30

30

HighLimit RPD Ref Val

136

154

150

150

- Е Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 6 of 15



QC SUMMARY REPORT

WO#: **1606Q70** *01-Jul-16*

	e Analytical Services Inc. 60565 - 1368.001						BatchID:	56801	
Sample ID mb-56801	SampType: mblk	TestCoo	de: 1311_h	Units: mg/L		Prep Date	e: 6/29/2016	RunNo: 101041	
Client ID: PBW	Batch ID: 56801	TestN	lo: SW1311/8	3151 SW1311/8151		Analysis Date	e: 7/1/2016	SeqNo: 2223552	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Va	al %RPD RPDLimit	Qual
2,4-D 2,4,5-TP (Silvex) Surr: DCAA	< 0.0050 < 0.0025 0.059	0.0050 0.0025	0.1000		58.5	36	121		
Sample ID Ifb-56801	SampType: Ifb	TestCoo	de: 1311_h	Units: mg/L		Prep Date	e: 6/29/2016	RunNo: 101041	
Client ID: ZZZZZZ	Batch ID: 56801	Test	lo: SW1311/8	3151 SW1311/8151		Analysis Date	e: 7/1/2016	SeqNo: 2223553	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Va	al %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: Ifb	TestCo	de: 1311_h	Units: mg/L		Prep Date	e: 6/29/2016	RunNo: 101041	
Client ID: ZZZZZZ	Batch ID: 56801	Test	lo: SW1311/8	3151 SW1311/8151		Analysis Date	e: 7/1/2016	SeqNo: 2223554	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Va	al %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		

Qualifiers:

*

Η

- Value exceeds Maximum Contaminant Level
- D Dilution was required.
- Holding times for preparation or analysis exceeded

O RSD is greater than RSDlimit

S Spike Recovery outside accepted recovery limits

- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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QC SUMMARY REPORT

1606Q70 WO#:

01-Jul-16

Client: Project:	lytical Services Inc. 5 - 1368.001						I	BatchID: 5	56815		
Sample ID MB Client ID: PB	SampType: MBLK Batch ID: 56815		de: 1311_M No: SW1311/6	Units: mg/L 010 SW3010A		Prep Da Analysis Da	te: 6/29/20 te: 6/30/20		RunNo: 10 SeqNo: 22		
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	TestCo	de: 1311_M	Units: mg/L		Prep Da	te: 6/29/20	16	RunNo: 10	0932	
Client ID: LCSW	Batch ID: 56815	Test	No: SW1311/6	6010 SW3010A		Analysis Da	te: 6/30/20	16	SeqNo: 22	20910	
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				

Qualifiers:

*

- Value exceeds Maximum Contaminant Level
- D Dilution was required.
- Η Holding times for preparation or analysis exceeded
- RSD is greater than RSDlimit 0
- S Spike Recovery outside accepted recovery limits
- Μ Manual Integration used to determine area response
- Р Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- Е Value above quantitation range
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R



QC SUMMARY REPORT

WO#: **1606Q70** *01-Jul-16*

Client: Project:		Analytical Services Inc. 565 - 1368.001		BatchID: 56817						
Sample ID Client ID:	MB-56817 PBW	SampType: MBLK Batch ID: 56817	TestCode: 1311_HG Units: ug/L TestNo: SW1311/7470 SW7470	Prep Date: 6/29/2016 Analysis Date: 6/30/2016	RunNo: 100940 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						

Qualifiers:

* Value exceeds Maximum Contaminant Level

- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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July 01, 2016



QC SUMMARY REPORT

1606Q70 WO#:

01-Jul-16

Sample ID mb-56822 Client ID: PBW Analyte gamma-BHC Heptachlor Heptachlor epoxide Endrin Methoxychlor Toxaphene Chlordane	SampType: mblk						BatchID:	56822		
gamma-BHC Heptachlor Heptachlor epoxide Endrin Methoxychlor Toxaphene	Batch ID: 56822		de: 1311_p No: SW1311/8	Units: mg/L 081 SW3510C		Prep Date Analysis Date		RunNo: 100 SeqNo: 222		
Heptachlor Heptachlor epoxide Endrin Methoxychlor Toxaphene	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Heptachlor epoxide Endrin Methoxychlor Toxaphene	< 0.00010	0.00010								
Endrin Methoxychlor Toxaphene	< 0.00010	0.00010								
Methoxychlor Toxaphene	< 0.00010	0.00010								
Toxaphene	< 0.00020	0.00020								
•	< 0.0010	0.0010								
Chlordano	< 0.010	0.010								
Chioruane	< 0.0020	0.0020								
Surr: Tetrachloro-m-xylen	e 0.00030		0.0004000		75.0	30	150			
Surr: Decachlorobiphenyl	0.00037		0.0004000		91.8	30	150			
Sample ID Ifb-56822	SampType: Ifb	TestCo	de: 1311_p	Units: mg/L		Prep Date	e: 6/29/2016	RunNo: 100)948	
Client ID: ZZZZZZ	Batch ID: 56822	Test	No: SW1311/8	081 SW3510C		Analysis Date	e: 6/29/2016	SeqNo: 222	21156	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
gamma-BHC	0.00075	0.00010	0.0080000	0	93.7	27	146			
Heptachlor	0.00076	0.00010	0.008000	0	94.5	10	148			
Heptachlor epoxide	0.00076	0.00010	0.008000	0	94.4	28	144			
Endrin	0.00075	0.00020	0.008000	0	94.2	22	152			
Methoxychlor	< 0.0010	0.0010	0.008000	0	103	19	146			
Surr: Tetrachloro-m-xylen	e 0.00031		0.0004000		78.6	30	150			
Surr: Decachlorobiphenyl										

Qualifiers:

Η

- Value exceeds Maximum Contaminant Level *
- D Dilution was required.
- Holding times for preparation or analysis exceeded
- RSD is greater than RSDlimit 0
- S Spike Recovery outside accepted recovery limits
- Μ Manual Integration used to determine area response
- Р Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- Е Value above quantitation range
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R

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QC SUMMARY REPORT

WO#: 1606Q70

01-Jul-16

	alytical Services Inc. 65 - 1368.001						Batc	chID: 5	56822		
Sample ID Ifb3-56822 Client ID: ZZZZZZ	SampType: Ifb Batch ID: 56822		le: 1311_p lo: SW1311/8	Units: mg/L 081 SW3510C		•	e: 6/29/2016 e: 6/29/2016		RunNo: 10 SeqNo: 22		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RF	PD Ref Val	%RPD	RPDLimit	Qual
Toxaphene	0.026	0.010	0.04000	0	64.5	46	168				Е
Surr: Tetrachloro-m-xylene	0.00032		0.0004000		80.4	30	150				
Surr: Decachlorobiphenyl	0.00040		0.0004000		101	30	150				

Qualifiers:

* Value exceeds Maximum Contaminant Level

- H Holding times for preparation or analysis exceeded
- O RSD is greater than RSDlimit
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- M Manual Integration used to determine area response
- P Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

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QC SUMMARY REPORT

WO#: 1606Q70

01-Jul-16

	•	tical Services Inc. 1368.001						BatchID:	56823	
Sample ID MB-56823 Client ID: PBW		SampType: MBLK Batch ID: 56823		de: 1311_B No: SW1311/8	Units: mg/L 270 SW3520C		Prep Date Analysis Date	e: 6/29/2016 e: 6/30/2016	RunNo: 100912 SeqNo: 2220348	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Va	I %RPD RPDLimit	Qual
Pyridine		< 0.0100	0.0100							
1,4-Dichlorobenzene		< 0.0100	0.0100							
2-Methylphenol		< 0.0100	0.0100							
3-Methylphenol/4-Methy	ylphenol	< 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-d	15	0.0255		0.05000		51.1	35	114		
Surr: Phenol-d5		0.0116		0.07500		15.4	10	110		
Surr: 2,4,6-Tribromor	phenol	0.0441		0.07500		58.7	10	123		
Surr: 2-Fluorobiphen	yl	0.0235		0.05000		47.1	43	116		
Surr: 4-Terphenyl-d1	4	0.0349		0.05000		69.8	33	141		
Surr: 2-Chlorophenol	l-d4	0.0319		0.07500		42.5	33	110		
Surr: 1,2-Dichlorober	nzene-d4	0.0218		0.05000		43.6	16	110		
Sample ID LFB-56823	3	SampType: LFB	TestCo	de: 1311_B	Units: mg/L		Prep Date	E 6/29/2016	RunNo: 100912	
Client ID: ZZZZZZ		Batch ID: 56823		-	270 SW3520C		Analysis Date		SeqNo: 2220349	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref Va	I %RPD RPDLimit	Qual
H Ho O RS	olding times SD is greate	s Maximum Contaminant Leve s for preparation or analysis ex r than RSDlimit ry outside accepted recovery li	ceeded	M Manua P Secon	on was required. al Integration used to d column confirmatio e container temperatu	n exceeds	-	ND Not Detected a R RPD outside ac	nantitation range t the Reporting Limit ccepted recovery limits Pag	e 12 o



PACE ANALYTICAL 575 Broad Hollow Road Melville, NY 11747 TEL: (631) 694-3040 FAX: (631) 420-8436 Website: www.pacelabs.com

QC SUMMARY REPORT

1606Q70 WO#:

01-Jul-16

	alytical Services Inc. 5 - 1368.001						В	BatchID: 5	6823		
Sample ID LFB-56823	SampType: LFB	TestCo	de: 1311_B	Units: mg/L		Prep Date	e: 6/29/20)16	RunNo: 10	0912	
Client ID: ZZZZZZ	Batch ID: 56823	Test	No: SW1311/8	270 SW3520C		Analysis Date	e: 6/30/20	16	SeqNo: 22	20349	
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-Methylpheno	ol 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-c	0.0228		0.05000		45.5	16	110				

Qualifiers:

*

- Value exceeds Maximum Contaminant Level
- Η Holding times for preparation or analysis exceeded
- RSD is greater than RSDlimit 0
- S Spike Recovery outside accepted recovery limits
- D Dilution was required.
- Μ Manual Integration used to determine area response
- Р Second column confirmation exceeds
- W Sample container temperature is out of limit as specified
- Е Value above quantitation range
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R



Sample Receipt Checklist

			Website: <u>v</u>	ww.pc	acelabs.com			
Client Name PACE-NY					Date and 1	Time Received:	6/28/2016 10:05:	00 AM
Work Order Number: 160)6Q70	RcptNo: 1			Received I	by Paige Dohe	rty	
Completed by:	ige Joh	orty		Revi	ewed by: CO	itelin 7	anzarel	lla
Completed Date: 6/2	28/2016 10:33:51 AM	1		Revi	ewed Date:	6/30/201	<u>6 2:32:28 PM</u>	
Carrier name: <u>FedEx</u>								
Chain of custody present? Chain of custody signed wh Chain of custody agrees wi Are matrices correctly iden is it clear what analyses we Custody seals intact on san Samples in proper contained Were correct preservatives Preservative added to botth	ith sample labels? tified on Chain of cus ere requested? mple bottles? er/bottle? used and noted?		Yes Yes Yes Yes Yes Yes Yes		No	Not Present NA	✓	
Sample Condition? Sufficient sample volume for Were container labels com All samples received within	or indicated test? plete (ID, Pres, Date)?	Intact Yes Yes Yes	> > >	Broken No No No No	Leaking		
Was an attempt made to c All samples received at a to Response when temperatu	emp. of > 0° C to 6.0		Yes Yes	✓	No 🗌 No 🗌	NA NA		
Sample Temp. taken and r Water - Were bubbles abso Water - Was there Chloring Water - pH acceptable upo Are Samples considered ac Custody Seals present? Airbill or Sticker?	ecorded upon receip ent in VOC vials? e Present? n receipt?		Yes Yes Yes Yes Yes Yes Air Bil		No No No No No Sticker	To 2 No Vials NA No Water Not Present	.4 ° ▼ ▼	
Airbill No:			6903 0					
Case Number:	SDG:			S	AS:			

Any No response should be detailed in the comments section below, if applicable.

Client Contacted?		No 🗹 NA	Person Contac	
Contact Mode:	Phone:	Fax:	Email:	In Person:
Client Instructions:				
Date Contacted:		Con	tacted By:	
Regarding:				
Comments:				
CorrectiveAction:				

5



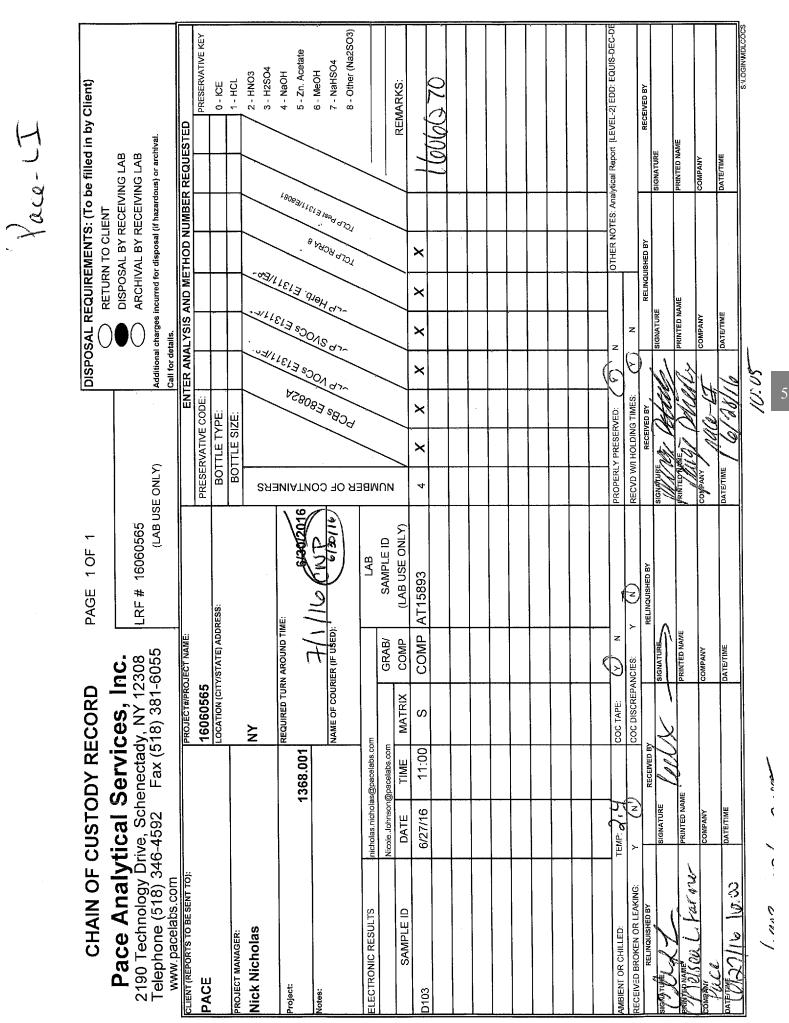
WorkOrder :

1606Q70

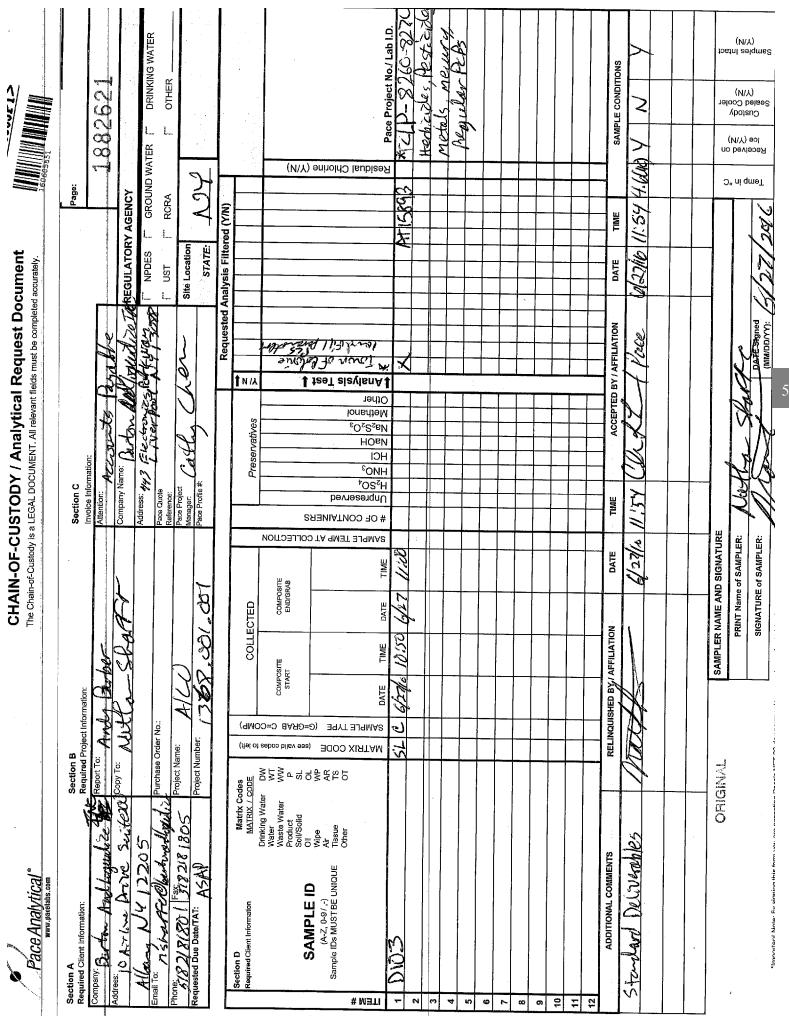
Certifications

CERTIFICATION #
10478
NY1 58
PH-0435
208
M-NY026
2987
LAO00340
68-00350

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	م مالی می از می از می این می این این این این این این این این این ای		Sample Condition Upon Receipt	ndition Un	on Receipt	160605652	
					CLIENT NAME: AAC		
					PROJECT : AILO		
COURIER: FedEx 🛛 UPS 🗆	Client	Pace 🛛	Other D				
		CUSTOD	CUSTODY SEAL PRESENT: Yes 🗆	IT: Yes 🗆	No 🕉 INTACT: Yes D	No D N/AND	
PACKING MATERIAL: Bubble Wrap 🗆	Bubble Bags 🗆	52 []	None 🖌	Other D	ICE USED: Wet Not	D None D	
THERMOMETER USED: #164 🗆 IR Gun 03 🖕 #160239773 🗆 #1	d #1602397	73 0 #16	60239773-PRB 🗆		COOLER TEMPERATURE ("Ć): () ()	6)	
BIOLOGICAL TISSUE IS FROZEN: Yes 🗆	No D	N/A Ø			,	~	
COMMENTS:				Ţ	Temperature is Acceptable? 🛛 🕅 🖓 🕬	CINe	
Chain of Custody Present:	QVes	OND		1.			
Chain of Custody Filled Out:	t∰⊀es	on D		2.			
Chain of Custody Relinquished:	three Wees	on D		3			
Sampler Name / Signature on COC:	ф.	°N D	•	4.			
Samples Arrived within Hold Time:	¢۲es	DN0		5.			
Short Hold Time Analysis (<72hr):	OYes	D No		6.			
Rush Turn Around Time Requested:	ţives	on LIN		17. ASAV			
Sufficient Volume:	W res	0NO		- 6			
Correct Containers Used:	W Yes	on D		9.			
- Pace Containers Used:	· WYes	ON0					
Containers Intact:	K Ves	οNΠ		10.			
Filtered volume received for Dissolved tests: Dves	ests: 🗆 Y _{es}	on D	K IN/A	11.			
Sample Labels match COC:	partes	°N D	-	12.			
 Includes date/time/ID/Analysis 	-						
All containers needing preservation have been	n UYes	N	X NIA	13.			
checked:	, C		حر				
All containers needing preservation are in romnlianre with FPA recommendation:	2		KWX	Initial when			
- Excentions that are not therked: TOC. VOA. Subcontract Analyses	contract Analyses			completed:	Lot # of added preservative:		
Headspace in VOA Vials (>6mm):		٩ ۲	Č ÍNIA	14.			
Trip Blank Present:	ÓYes	¥	¢ N/A	15.			
Trip Blank Custody Seals Present:	DYes	N N	M NA				
Pace Trip Blank Lot #:			-				
Sample Receipt form filled in: CLF		Line-Ou	t (Includes Co	oying Shipping	Line-Out (Includes Copying Shipping Documents and verifying sample pH):	<u> cre 4137/16</u>	
		Log In (I Labeling	ncludes notify t (Includes Sca	ring PIM of any nning Bottles	(includes notifying PM of any discrepacies and documenting in LIMS): # (includes Scanning Bottles and entering LAB IDs into pH logbook):	50	
				D			