

US EPA ARCHIVE DOCUMENT



Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

January 13, 2014

Weaver Boos  
35 E. Wacker Drive, Suite 1250  
Chicago, IL 60602  
Telephone: (312) 922-1030  
Fax: (312) 922-0201

RE: 3682-300-07, Pet Coke and Coal Study

STAT Project No 13110836

Dear Paul Gruca:

STAT Analysis received 20 samples for the referenced project on 11/29/2013 3:10:00 PM. The analytical results are presented in the following report.


This report is revised to reflect changes made after the initial report was issued.

All analyses were performed in accordance with the requirements of 35 IAC part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

US EPA ARCHIVE DOCUMENT

**Client:** Weaver Boos  
**Project:** 3682-300-07, Pet Coke and Coal Study  
**Lab Order:** 13110836

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
13110836-001A	96		11/29/2013 10:50:00 AM	11/29/2013
13110836-001B	96		11/29/2013 10:50:00 AM	11/29/2013
13110836-002A	96/0-0.5'		11/29/2013 10:55:00 AM	11/29/2013
13110836-003A	94		11/29/2013 11:25:00 AM	11/29/2013
13110836-003B	94		11/29/2013 11:25:00 AM	11/29/2013
13110836-004A	94/0-0.5'		11/29/2013 11:30:00 AM	11/29/2013
13110836-005A	91		11/29/2013 12:50:00 PM	11/29/2013
13110836-005B	91		11/29/2013 12:50:00 PM	11/29/2013
13110836-006A	91/0-0.5'		11/29/2013 12:55:00 PM	11/29/2013
13110836-007A	92		11/29/2013 12:30:00 PM	11/29/2013
13110836-007B	92		11/29/2013 12:30:00 PM	11/29/2013
13110836-008A	92/0-0.5'		11/29/2013 12:35:00 PM	11/29/2013
13110836-009A	90		11/29/2013 11:45:00 AM	11/29/2013
13110836-009B	90		11/29/2013 11:45:00 AM	11/29/2013
13110836-010A	90/0-0.5'		11/29/2013 11:50:00 AM	11/29/2013
13110836-011A	93		11/29/2013 12:10:00 PM	11/29/2013
13110836-011B	93		11/29/2013 12:10:00 PM	11/29/2013
13110836-012A	93/0-0.5'		11/29/2013 12:15:00 PM	11/29/2013
13110836-013A	112		11/29/2013 1:10:00 PM	11/29/2013
13110836-013B	112		11/29/2013 1:10:00 PM	11/29/2013
13110836-014A	112/0-0.5'		11/29/2013 1:15:00 PM	11/29/2013
13110836-015A	115		11/29/2013 1:30:00 PM	11/29/2013
13110836-015B	115		11/29/2013 1:30:00 PM	11/29/2013
13110836-016A	115/0-0.5'		11/29/2013 1:35:00 PM	11/29/2013
13110836-017A	DUP-8/0-0.5'		11/29/2013 11:00:00 AM	11/29/2013
13110836-018A	DUP-9		11/29/2013 1:45:00 PM	11/29/2013
13110836-018B	DUP-9		11/29/2013 1:45:00 PM	11/29/2013
13110836-019A	DUP-9/0-0.5'		11/29/2013 1:40:00 PM	11/29/2013
13110836-020A	Blank-5		11/29/2013 1:40:00 PM	11/29/2013
13110836-020B	Blank-5		11/29/2013 1:40:00 PM	11/29/2013

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**CLIENT:** Weaver Boos  
**Project:** 3682-300-07, Pet Coke and Coal Study  
**Lab Order:** 13110836

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**CASE NARRATIVE**

The Metals wipe LCS/LCSD from preparation batch 73502 had the following outside control limits:  
Antimony: 118%/131% (LCS/LCSD) recovery (QC limits 80-120%)  
Tin: 74%/69% (LCS/LCSD) recovery (QC limits 80-120%)

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Report Date: January 13, 2014

Print Date: January 13, 2014

<b>Client:</b>	Weaver Boos	<b>Client Sample ID:</b>	96
<b>Lab Order:</b>	13110836	<b>Tag Number:</b>	
<b>Project:</b>	3682-300-07, Pet Coke and Coal Study	<b>Collection Date:</b>	11/29/2013 10:50:00 AM
<b>Lab ID:</b>	13110836-001A	<b>Matrix:</b>	Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>		Prep Date: 11/29/2013		Analyst: DM	
Acenaphthene	ND	1		µg/wipe	1	12/2/2013
Acenaphthylene	ND	1		µg/wipe	1	12/2/2013
Anthracene	ND	1		µg/wipe	1	12/2/2013
Benz(a)anthracene	ND	1		µg/wipe	1	12/2/2013
Benzo(a)pyrene	ND	1		µg/wipe	1	12/2/2013
Benzo(b)fluoranthene	ND	1		µg/wipe	1	12/2/2013
Benzo(g,h,i)perylene	ND	1		µg/wipe	1	12/2/2013
Benzo(k)fluoranthene	ND	1		µg/wipe	1	12/2/2013
2-Chloronaphthalene	ND	5		µg/wipe	1	12/2/2013
Chrysene	ND	1		µg/wipe	1	12/2/2013
Dibenz(a,h)anthracene	ND	1		µg/wipe	1	12/2/2013
Fluoranthene	ND	1		µg/wipe	1	12/2/2013
Fluorene	ND	1		µg/wipe	1	12/2/2013
Indeno(1,2,3-cd)pyrene	ND	1		µg/wipe	1	12/2/2013
1-Methylnaphthalene	ND	1	*	µg/wipe	1	12/2/2013
2-Methylnaphthalene	ND	1		µg/wipe	1	12/2/2013
Naphthalene	ND	1		µg/wipe	1	12/2/2013
Phenanthrene	ND	1		µg/wipe	1	12/2/2013
Pyrene	ND	1		µg/wipe	1	12/2/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 96

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 10:50:00 AM

Lab ID: 13110836-001B

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 11/29/2013	Analyst: LB
Mercury	ND	0.018		µg/wipe	1	11/30/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 11/30/2013	Analyst: JG
Aluminum	65	2.5		µg/wipe	10	11/30/2013
Antimony	ND	5		µg/wipe	10	11/30/2013
Arsenic	ND	2.5		µg/wipe	10	11/30/2013
Barium	ND	2.5		µg/wipe	10	11/30/2013
Cadmium	ND	2.5		µg/wipe	10	11/30/2013
Calcium	390	100		µg/wipe	10	11/30/2013
Chromium	ND	12		µg/wipe	10	11/30/2013
Cobalt	ND	2.5		µg/wipe	10	11/30/2013
Copper	5.2	2.5		µg/wipe	10	11/30/2013
Iron	170	10		µg/wipe	10	11/30/2013
Lead	ND	2.5		µg/wipe	10	11/30/2013
Manganese	5.5	2.5		µg/wipe	10	11/30/2013
Molybdenum	ND	2.5		µg/wipe	10	11/30/2013
Nickel	ND	2.5		µg/wipe	10	11/30/2013
Potassium	150	150		µg/wipe	10	11/30/2013
Selenium	ND	2.5		µg/wipe	10	11/30/2013
Silver	ND	2.5		µg/wipe	10	11/30/2013
Thallium	ND	2.5		µg/wipe	10	11/30/2013
Tin	4.8	2.5	*	µg/wipe	10	11/30/2013
Titanium	ND	2.5	*	µg/wipe	10	11/30/2013
Vanadium	ND	2.5		µg/wipe	10	11/30/2013
Zinc	190	50		µg/wipe	10	11/30/2013

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 96/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 10:55:00 AM

Lab ID: 13110836-002A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 12/3/2013	Analyst: LB
Mercury	0.11	0.02		mg/Kg-dry	1	12/3/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 12/4/2013	Analyst: JG
Aluminum	11000	240		mg/Kg-dry	100	12/4/2013
Antimony	ND	2.4		mg/Kg-dry	10	12/4/2013
Arsenic	8.8	1.2		mg/Kg-dry	10	12/4/2013
Barium	340	1.2		mg/Kg-dry	10	12/4/2013
Cadmium	0.86	0.61		mg/Kg-dry	10	12/4/2013
Calcium	38000	73		mg/Kg-dry	10	12/4/2013
Chromium	34	1.2		mg/Kg-dry	10	12/4/2013
Cobalt	8.6	1.2		mg/Kg-dry	10	12/4/2013
Copper	46	3		mg/Kg-dry	10	12/4/2013
Iron	26000	360		mg/Kg-dry	100	12/4/2013
Lead	220	0.61		mg/Kg-dry	10	12/4/2013
Manganese	480	1.2		mg/Kg-dry	10	12/4/2013
Molybdenum	ND	6.1		mg/Kg-dry	10	12/4/2013
Nickel	26	1.2		mg/Kg-dry	10	12/4/2013
Potassium	1700	36		mg/Kg-dry	10	12/4/2013
Selenium	ND	1.2		mg/Kg-dry	10	12/4/2013
Silver	ND	1.2		mg/Kg-dry	10	12/4/2013
Thallium	ND	1.2		mg/Kg-dry	10	12/4/2013
Tin	9.7	6.1	*	mg/Kg-dry	10	12/4/2013
Titanium	110	3	*	mg/Kg-dry	10	12/4/2013
Vanadium	24	1.2		mg/Kg-dry	10	12/4/2013
Zinc	280	61		mg/Kg-dry	100	12/4/2013

<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	0.051	0.041		mg/Kg-dry	1	12/4/2013
Acenaphthylene	0.07	0.041		mg/Kg-dry	1	12/4/2013
Anthracene	0.33	0.041		mg/Kg-dry	1	12/4/2013
Benz(a)anthracene	1.4	0.041		mg/Kg-dry	1	12/4/2013
Benzo(a)pyrene	1.4	0.041		mg/Kg-dry	1	12/4/2013
Benzo(b)fluoranthene	1.4	0.041		mg/Kg-dry	1	12/4/2013
Benzo(g,h,i)perylene	1.1	0.041		mg/Kg-dry	1	12/4/2013
Benzo(k)fluoranthene	1.2	0.041		mg/Kg-dry	1	12/4/2013
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	12/4/2013
Chrysene	1.5	0.041		mg/Kg-dry	1	12/4/2013
Dibenz(a,h)anthracene	0.61	0.041		mg/Kg-dry	1	12/4/2013
Fluoranthene	2.5	0.041		mg/Kg-dry	1	12/4/2013

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 96/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 10:55:00 AM

Lab ID: 13110836-002A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: <b>12/3/2013</b>	Analyst: <b>DM</b>
Fluorene	0.075	0.041		mg/Kg-dry	1	12/4/2013
Indeno(1,2,3-cd)pyrene	1	0.041		mg/Kg-dry	1	12/4/2013
1-Methylnaphthalene	ND	0.041	*	mg/Kg-dry	1	12/4/2013
2-Methylnaphthalene	ND	0.041		mg/Kg-dry	1	12/4/2013
Naphthalene	ND	0.041		mg/Kg-dry	1	12/4/2013
Phenanthrene	1.1	0.041		mg/Kg-dry	1	12/4/2013
Pyrene	2.1	0.041		mg/Kg-dry	1	12/4/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>12/3/2013</b>	Analyst: <b>VA</b>
Percent Moisture	19.7	0.2	*	wt%	1	12/3/2013

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 94

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 11:25:00 AM

Lab ID: 13110836-003A

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 11/29/2013		Analyst: DM	
Acenaphthene	ND	1		µg/wipe	1	12/2/2013
Acenaphthylene	ND	1		µg/wipe	1	12/2/2013
Anthracene	ND	1		µg/wipe	1	12/2/2013
Benzo(a)anthracene	ND	1		µg/wipe	1	12/2/2013
Benzo(a)pyrene	ND	1		µg/wipe	1	12/2/2013
Benzo(b)fluoranthene	ND	1		µg/wipe	1	12/2/2013
Benzo(g,h,i)perylene	ND	1		µg/wipe	1	12/2/2013
Benzo(k)fluoranthene	ND	1		µg/wipe	1	12/2/2013
2-Chloronaphthalene	ND	5		µg/wipe	1	12/2/2013
Chrysene	ND	1		µg/wipe	1	12/2/2013
Dibenz(a,h)anthracene	ND	1		µg/wipe	1	12/2/2013
Fluoranthene	ND	1		µg/wipe	1	12/2/2013
Fluorene	ND	1		µg/wipe	1	12/2/2013
Indeno(1,2,3-cd)pyrene	ND	1		µg/wipe	1	12/2/2013
1-Methylnaphthalene	ND	1	*	µg/wipe	1	12/2/2013
2-Methylnaphthalene	ND	1		µg/wipe	1	12/2/2013
Naphthalene	ND	1		µg/wipe	1	12/2/2013
Phenanthrene	ND	1		µg/wipe	1	12/2/2013
Pyrene	ND	1		µg/wipe	1	12/2/2013

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Client Sample ID: 94

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 11:25:00 AM

Lab ID: 13110836-003B

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 11/29/2013	Analyst: LB
Mercury	ND	0.018		µg/wipe	1	11/30/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 11/30/2013	Analyst: JG
Aluminum	9.9	2.5		µg/wipe	10	11/30/2013
Antimony	ND	5		µg/wipe	10	11/30/2013
Arsenic	ND	2.5		µg/wipe	10	11/30/2013
Barium	ND	2.5		µg/wipe	10	11/30/2013
Cadmium	ND	2.5		µg/wipe	10	11/30/2013
Calcium	220	100		µg/wipe	10	11/30/2013
Chromium	ND	12		µg/wipe	10	11/30/2013
Cobalt	ND	2.5		µg/wipe	10	11/30/2013
Copper	ND	2.5		µg/wipe	10	11/30/2013
Iron	13	10		µg/wipe	10	11/30/2013
Lead	ND	2.5		µg/wipe	10	11/30/2013
Manganese	ND	2.5		µg/wipe	10	11/30/2013
Molybdenum	ND	2.5		µg/wipe	10	11/30/2013
Nickel	ND	2.5		µg/wipe	10	11/30/2013
Potassium	ND	150		µg/wipe	10	11/30/2013
Selenium	ND	2.5		µg/wipe	10	11/30/2013
Silver	ND	2.5		µg/wipe	10	11/30/2013
Thallium	ND	2.5		µg/wipe	10	11/30/2013
Tin	ND	2.5	*	µg/wipe	10	11/30/2013
Titanium	ND	2.5	*	µg/wipe	10	11/30/2013
Vanadium	ND	2.5		µg/wipe	10	11/30/2013
Zinc	75	50		µg/wipe	10	11/30/2013

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Client: Weaver Boos

Client Sample ID: 94/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 11:30:00 AM

Lab ID: 13110836-004A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 12/3/2013	Analyst: LB
Mercury	0.077	0.024		mg/Kg-dry	1	12/3/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 12/4/2013	Analyst: JG
Aluminum	8900	260		mg/Kg-dry	100	12/4/2013
Antimony	ND	2.6		mg/Kg-dry	10	12/4/2013
Arsenic	9.5	1.3		mg/Kg-dry	10	12/4/2013
Barium	98	1.3		mg/Kg-dry	10	12/4/2013
Cadmium	1.3	0.66		mg/Kg-dry	10	12/4/2013
Calcium	10000	790		mg/Kg-dry	100	12/4/2013
Chromium	27	1.3		mg/Kg-dry	10	12/4/2013
Cobalt	8.9	1.3		mg/Kg-dry	10	12/4/2013
Copper	33	3.3		mg/Kg-dry	10	12/4/2013
Iron	19000	400		mg/Kg-dry	100	12/4/2013
Lead	110	0.66		mg/Kg-dry	10	12/4/2013
Manganese	330	1.3		mg/Kg-dry	10	12/4/2013
Molybdenum	ND	6.6		mg/Kg-dry	10	12/4/2013
Nickel	25	1.3		mg/Kg-dry	10	12/4/2013
Potassium	1500	40		mg/Kg-dry	10	12/4/2013
Selenium	ND	1.3		mg/Kg-dry	10	12/4/2013
Silver	ND	1.3		mg/Kg-dry	10	12/4/2013
Thallium	ND	1.3		mg/Kg-dry	10	12/4/2013
Tin	ND	6.6	*	mg/Kg-dry	10	12/4/2013
Titanium	96	3.3	*	mg/Kg-dry	10	12/4/2013
Vanadium	24	1.3		mg/Kg-dry	10	12/4/2013
Zinc	160	66		mg/Kg-dry	100	12/4/2013

<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	ND	0.044		mg/Kg-dry	1	12/4/2013
Acenaphthylene	ND	0.044		mg/Kg-dry	1	12/4/2013
Anthracene	ND	0.044		mg/Kg-dry	1	12/4/2013
Benz(a)anthracene	0.14	0.044		mg/Kg-dry	1	12/4/2013
Benzo(a)pyrene	0.28	0.044		mg/Kg-dry	1	12/4/2013
Benzo(b)fluoranthene	0.27	0.044		mg/Kg-dry	1	12/4/2013
Benzo(g,h,i)perylene	0.18	0.044		mg/Kg-dry	1	12/4/2013
Benzo(k)fluoranthene	0.14	0.044		mg/Kg-dry	1	12/4/2013
2-Chloronaphthalene	ND	0.23		mg/Kg-dry	1	12/4/2013
Chrysene	0.18	0.044		mg/Kg-dry	1	12/4/2013
Dibenz(a,h)anthracene	0.19	0.044		mg/Kg-dry	1	12/4/2013
Fluoranthene	0.28	0.044		mg/Kg-dry	1	12/4/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 94/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 11:30:00 AM

Lab ID: 13110836-004A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
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Fluorene	ND	0.044		mg/Kg-dry	1	12/4/2013
Indeno(1,2,3-cd)pyrene	0.25	0.044		mg/Kg-dry	1	12/4/2013
1-Methylnaphthalene	ND	0.044	*	mg/Kg-dry	1	12/4/2013
2-Methylnaphthalene	ND	0.044		mg/Kg-dry	1	12/4/2013
Naphthalene	ND	0.044		mg/Kg-dry	1	12/4/2013
Phenanthrene	0.14	0.044		mg/Kg-dry	1	12/4/2013
Pyrene	0.23	0.044		mg/Kg-dry	1	12/4/2013

<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 12/3/2013	Analyst: VA
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Percent Moisture	25.1	0.2	*	wt%	1	12/3/2013
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US EPA ARCHIVE DOCUMENT

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 91

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 12:50:00 PM

Lab ID: 13110836-005A

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 11/29/2013		Analyst: DM
Acenaphthene	ND	1		µg/wipe	12/2/2013
Acenaphthylene	ND	1		µg/wipe	12/2/2013
Anthracene	ND	1		µg/wipe	12/2/2013
Benz(a)anthracene	ND	1		µg/wipe	12/2/2013
Benzo(a)pyrene	ND	1		µg/wipe	12/2/2013
Benzo(b)fluoranthene	ND	1		µg/wipe	12/2/2013
Benzo(g,h,i)perylene	ND	1		µg/wipe	12/2/2013
Benzo(k)fluoranthene	ND	1		µg/wipe	12/2/2013
2-Chloronaphthalene	ND	5		µg/wipe	12/2/2013
Chrysene	ND	1		µg/wipe	12/2/2013
Dibenz(a,h)anthracene	ND	1		µg/wipe	12/2/2013
Fluoranthene	ND	1		µg/wipe	12/2/2013
Fluorene	ND	1		µg/wipe	12/2/2013
Indeno(1,2,3-cd)pyrene	ND	1		µg/wipe	12/2/2013
1-Methylnaphthalene	ND	1	*	µg/wipe	12/2/2013
2-Methylnaphthalene	ND	1		µg/wipe	12/2/2013
Naphthalene	ND	1		µg/wipe	12/2/2013
Phenanthrene	ND	1		µg/wipe	12/2/2013
Pyrene	ND	1		µg/wipe	12/2/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 91

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 12:50:00 PM

Lab ID: 13110836-005B

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 11/29/2013	Analyst: LB
Mercury	ND	0.018		µg/wipe	1	11/30/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 11/30/2013	Analyst: JG
Aluminum	18	2.5		µg/wipe	10	11/30/2013
Antimony	ND	5		µg/wipe	10	11/30/2013
Arsenic	ND	2.5		µg/wipe	10	11/30/2013
Barium	ND	2.5		µg/wipe	10	11/30/2013
Cadmium	ND	2.5		µg/wipe	10	11/30/2013
Calcium	180	100		µg/wipe	10	11/30/2013
Chromium	ND	12		µg/wipe	10	11/30/2013
Cobalt	ND	2.5		µg/wipe	10	11/30/2013
Copper	3.6	2.5		µg/wipe	10	11/30/2013
Iron	62	10		µg/wipe	10	11/30/2013
Lead	ND	2.5		µg/wipe	10	11/30/2013
Manganese	ND	2.5		µg/wipe	10	11/30/2013
Molybdenum	ND	2.5		µg/wipe	10	11/30/2013
Nickel	ND	2.5		µg/wipe	10	11/30/2013
Potassium	ND	150		µg/wipe	10	11/30/2013
Selenium	ND	2.5		µg/wipe	10	11/30/2013
Silver	ND	2.5		µg/wipe	10	11/30/2013
Thallium	ND	2.5		µg/wipe	10	11/30/2013
Tin	ND	2.5	*	µg/wipe	10	11/30/2013
Titanium	ND	2.5	*	µg/wipe	10	11/30/2013
Vanadium	ND	2.5		µg/wipe	10	11/30/2013
Zinc	170	50		µg/wipe	10	11/30/2013

**Qualifiers:**  
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 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 91/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 12:55:00 PM

Lab ID: 13110836-006A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 12/3/2013	Analyst: LB
Mercury	0.062	0.026		mg/Kg-dry	1	12/3/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 12/4/2013	Analyst: JG
Aluminum	12000	240		mg/Kg-dry	100	12/4/2013
Antimony	ND	2.4		mg/Kg-dry	10	12/4/2013
Arsenic	12	1.2		mg/Kg-dry	10	12/4/2013
Barium	100	1.2		mg/Kg-dry	10	12/4/2013
Cadmium	1.2	0.61		mg/Kg-dry	10	12/4/2013
Calcium	38000	730		mg/Kg-dry	100	12/4/2013
Chromium	34	1.2		mg/Kg-dry	10	12/4/2013
Cobalt	13	1.2		mg/Kg-dry	10	12/4/2013
Copper	46	3		mg/Kg-dry	10	12/4/2013
Iron	30000	360		mg/Kg-dry	100	12/4/2013
Lead	95	0.61		mg/Kg-dry	10	12/4/2013
Manganese	580	1.2		mg/Kg-dry	10	12/4/2013
Molybdenum	ND	6.1		mg/Kg-dry	10	12/4/2013
Nickel	36	1.2		mg/Kg-dry	10	12/4/2013
Potassium	2500	36		mg/Kg-dry	10	12/4/2013
Selenium	ND	1.2		mg/Kg-dry	10	12/4/2013
Silver	ND	1.2		mg/Kg-dry	10	12/4/2013
Thallium	ND	1.2		mg/Kg-dry	10	12/4/2013
Tin	ND	6.1	*	mg/Kg-dry	10	12/4/2013
Titanium	130	3	*	mg/Kg-dry	10	12/4/2013
Vanadium	30	1.2		mg/Kg-dry	10	12/4/2013
Zinc	400	61		mg/Kg-dry	100	12/4/2013

<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	ND	0.043		mg/Kg-dry	1	12/4/2013
Acenaphthylene	ND	0.043		mg/Kg-dry	1	12/4/2013
Anthracene	ND	0.043		mg/Kg-dry	1	12/4/2013
Benz(a)anthracene	0.095	0.043		mg/Kg-dry	1	12/4/2013
Benzo(a)pyrene	0.23	0.043		mg/Kg-dry	1	12/4/2013
Benzo(b)fluoranthene	0.24	0.043		mg/Kg-dry	1	12/4/2013
Benzo(g,h,i)perylene	0.12	0.043		mg/Kg-dry	1	12/4/2013
Benzo(k)fluoranthene	0.098	0.043		mg/Kg-dry	1	12/4/2013
2-Chloronaphthalene	ND	0.22		mg/Kg-dry	1	12/4/2013
Chrysene	0.13	0.043		mg/Kg-dry	1	12/4/2013
Dibenz(a,h)anthracene	0.17	0.043		mg/Kg-dry	1	12/4/2013
Fluoranthene	0.18	0.043		mg/Kg-dry	1	12/4/2013

**Qualifiers:**  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 91/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 12:55:00 PM

Lab ID: 13110836-006A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
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Fluorene	ND	0.043		mg/Kg-dry	1	12/4/2013
Indeno(1,2,3-cd)pyrene	0.21	0.043		mg/Kg-dry	1	12/4/2013
1-Methylnaphthalene	ND	0.043	*	mg/Kg-dry	1	12/4/2013
2-Methylnaphthalene	ND	0.043		mg/Kg-dry	1	12/4/2013
Naphthalene	ND	0.043		mg/Kg-dry	1	12/4/2013
Phenanthrene	0.08	0.043		mg/Kg-dry	1	12/4/2013
Pyrene	0.15	0.043		mg/Kg-dry	1	12/4/2013

<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 12/3/2013	Analyst: VA
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Percent Moisture	23.6	0.2	*	wt%	1	12/3/2013
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US EPA ARCHIVE DOCUMENT

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 92

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 12:30:00 PM

Lab ID: 13110836-007A

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 11/29/2013		Analyst: DM
Acenaphthene	ND	1		µg/wipe	12/2/2013
Acenaphthylene	ND	1		µg/wipe	12/2/2013
Anthracene	ND	1		µg/wipe	12/2/2013
Benzo(a)anthracene	ND	1		µg/wipe	12/2/2013
Benzo(a)pyrene	ND	1		µg/wipe	12/2/2013
Benzo(b)fluoranthene	ND	1		µg/wipe	12/2/2013
Benzo(g,h,i)perylene	ND	1		µg/wipe	12/2/2013
Benzo(k)fluoranthene	ND	1		µg/wipe	12/2/2013
2-Chloronaphthalene	ND	5		µg/wipe	12/2/2013
Chrysene	ND	1		µg/wipe	12/2/2013
Dibenz(a,h)anthracene	ND	1		µg/wipe	12/2/2013
Fluoranthene	ND	1		µg/wipe	12/2/2013
Fluorene	ND	1		µg/wipe	12/2/2013
Indeno(1,2,3-cd)pyrene	ND	1		µg/wipe	12/2/2013
1-Methylnaphthalene	ND	1	*	µg/wipe	12/2/2013
2-Methylnaphthalene	ND	1		µg/wipe	12/2/2013
Naphthalene	ND	1		µg/wipe	12/2/2013
Phenanthrene	ND	1		µg/wipe	12/2/2013
Pyrene	ND	1		µg/wipe	12/2/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

<b>Client:</b> Weaver Boos	<b>Client Sample ID:</b> 92
<b>Lab Order:</b> 13110836	<b>Tag Number:</b>
<b>Project:</b> 3682-300-07, Pet Coke and Coal Study	<b>Collection Date:</b> 11/29/2013 12:30:00 PM
<b>Lab ID:</b> 13110836-007B	<b>Matrix:</b> Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>11/29/2013</b> Analyst: <b>LB</b>			
Mercury	ND	0.018		µg/wipe	1	11/30/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>11/30/2013</b> Analyst: <b>JG</b>			
Aluminum	76	2.5		µg/wipe	10	11/30/2013
Antimony	ND	5		µg/wipe	10	11/30/2013
Arsenic	ND	2.5		µg/wipe	10	11/30/2013
Barium	ND	2.5		µg/wipe	10	11/30/2013
Cadmium	ND	2.5		µg/wipe	10	11/30/2013
Calcium	400	100		µg/wipe	10	11/30/2013
Chromium	ND	12		µg/wipe	10	11/30/2013
Cobalt	ND	2.5		µg/wipe	10	11/30/2013
Copper	22	2.5		µg/wipe	10	11/30/2013
Iron	120	10		µg/wipe	10	11/30/2013
Lead	ND	2.5		µg/wipe	10	11/30/2013
Manganese	6	2.5		µg/wipe	10	11/30/2013
Molybdenum	ND	2.5		µg/wipe	10	11/30/2013
Nickel	ND	2.5		µg/wipe	10	11/30/2013
Potassium	ND	150		µg/wipe	10	11/30/2013
Selenium	ND	2.5		µg/wipe	10	11/30/2013
Silver	ND	2.5		µg/wipe	10	11/30/2013
Thallium	ND	2.5		µg/wipe	10	11/30/2013
Tin	ND	2.5	*	µg/wipe	10	11/30/2013
Titanium	4.3	2.5	*	µg/wipe	10	11/30/2013
Vanadium	ND	2.5		µg/wipe	10	11/30/2013
Zinc	79	50		µg/wipe	10	11/30/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 92/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 12:35:00 PM

Lab ID: 13110836-008A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 12/3/2013	Analyst: LB
Mercury	0.033	0.019		mg/Kg-dry	1	12/3/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 12/4/2013	Analyst: JG
Aluminum	4500	240		mg/Kg-dry	100	12/4/2013
Antimony	ND	2.4		mg/Kg-dry	10	12/4/2013
Arsenic	7.3	1.2		mg/Kg-dry	10	12/4/2013
Barium	110	1.2		mg/Kg-dry	10	12/4/2013
Cadmium	ND	0.59		mg/Kg-dry	10	12/4/2013
Calcium	27000	710		mg/Kg-dry	100	12/4/2013
Chromium	15	1.2		mg/Kg-dry	10	12/4/2013
Cobalt	5.1	1.2		mg/Kg-dry	10	12/4/2013
Copper	25	3		mg/Kg-dry	10	12/4/2013
Iron	14000	350		mg/Kg-dry	100	12/4/2013
Lead	62	0.59		mg/Kg-dry	10	12/4/2013
Manganese	610	1.2		mg/Kg-dry	10	12/4/2013
Molybdenum	ND	5.9		mg/Kg-dry	10	12/4/2013
Nickel	11	1.2		mg/Kg-dry	10	12/4/2013
Potassium	950	35		mg/Kg-dry	10	12/4/2013
Selenium	ND	1.2		mg/Kg-dry	10	12/4/2013
Silver	ND	1.2		mg/Kg-dry	10	12/4/2013
Thallium	ND	1.2		mg/Kg-dry	10	12/4/2013
Tin	ND	5.9	*	mg/Kg-dry	10	12/4/2013
Titanium	120	3	*	mg/Kg-dry	10	12/4/2013
Vanadium	14	1.2		mg/Kg-dry	10	12/4/2013
Zinc	140	59		mg/Kg-dry	100	12/4/2013

<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	0.043	0.042		mg/Kg-dry	1	12/4/2013
Acenaphthylene	0.68	0.042		mg/Kg-dry	1	12/4/2013
Anthracene	0.54	0.042		mg/Kg-dry	1	12/4/2013
Benz(a)anthracene	1.7	0.042		mg/Kg-dry	1	12/4/2013
Benzo(a)pyrene	1.8	0.042		mg/Kg-dry	1	12/4/2013
Benzo(b)fluoranthene	1.6	0.042		mg/Kg-dry	1	12/4/2013
Benzo(g,h,i)perylene	1.5	0.042		mg/Kg-dry	1	12/4/2013
Benzo(k)fluoranthene	1.6	0.042		mg/Kg-dry	1	12/4/2013
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	12/4/2013
Chrysene	1.8	0.042		mg/Kg-dry	1	12/4/2013
Dibenz(a,h)anthracene	0.68	0.042		mg/Kg-dry	1	12/4/2013
Fluoranthene	3.6	0.042		mg/Kg-dry	1	12/4/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 92/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 12:35:00 PM

Lab ID: 13110836-008A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
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Fluorene	0.14	0.042		mg/Kg-dry	1	12/4/2013
Indeno(1,2,3-cd)pyrene	1.3	0.042		mg/Kg-dry	1	12/4/2013
1-Methylnaphthalene	ND	0.042	*	mg/Kg-dry	1	12/4/2013
2-Methylnaphthalene	ND	0.042		mg/Kg-dry	1	12/4/2013
Naphthalene	0.1	0.042		mg/Kg-dry	1	12/4/2013
Phenanthrene	1.3	0.042		mg/Kg-dry	1	12/4/2013
Pyrene	3.1	0.042		mg/Kg-dry	1	12/4/2013

<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 12/3/2013	Analyst: VA
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Percent Moisture	20.8	0.2	*	wt%	1	12/3/2013
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US EPA ARCHIVE DOCUMENT

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 90

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 11:45:00 AM

Lab ID: 13110836-009A

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 11/29/2013		Analyst: DM
Acenaphthene	ND	1		µg/wipe	12/2/2013
Acenaphthylene	ND	1		µg/wipe	12/2/2013
Anthracene	ND	1		µg/wipe	12/2/2013
Benz(a)anthracene	ND	1		µg/wipe	12/2/2013
Benzo(a)pyrene	ND	1		µg/wipe	12/2/2013
Benzo(b)fluoranthene	ND	1		µg/wipe	12/2/2013
Benzo(g,h,i)perylene	ND	1		µg/wipe	12/2/2013
Benzo(k)fluoranthene	ND	1		µg/wipe	12/2/2013
2-Chloronaphthalene	ND	5		µg/wipe	12/2/2013
Chrysene	ND	1		µg/wipe	12/2/2013
Dibenz(a,h)anthracene	ND	1		µg/wipe	12/2/2013
Fluoranthene	ND	1		µg/wipe	12/2/2013
Fluorene	ND	1		µg/wipe	12/2/2013
Indeno(1,2,3-cd)pyrene	ND	1		µg/wipe	12/2/2013
1-Methylnaphthalene	ND	1	*	µg/wipe	12/2/2013
2-Methylnaphthalene	ND	1		µg/wipe	12/2/2013
Naphthalene	ND	1		µg/wipe	12/2/2013
Phenanthrene	ND	1		µg/wipe	12/2/2013
Pyrene	ND	1		µg/wipe	12/2/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 90

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 11:45:00 AM

Lab ID: 13110836-009B

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 11/29/2013	Analyst: LB
Mercury	ND	0.018		µg/wipe	1	11/30/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 11/30/2013	Analyst: JG
Aluminum	3	2.5		µg/wipe	10	11/30/2013
Antimony	ND	5		µg/wipe	10	11/30/2013
Arsenic	ND	2.5		µg/wipe	10	11/30/2013
Barium	ND	2.5		µg/wipe	10	11/30/2013
Cadmium	ND	2.5		µg/wipe	10	11/30/2013
Calcium	160	100		µg/wipe	10	11/30/2013
Chromium	ND	12		µg/wipe	10	11/30/2013
Cobalt	ND	2.5		µg/wipe	10	11/30/2013
Copper	4.3	2.5		µg/wipe	10	11/30/2013
Iron	ND	10		µg/wipe	10	11/30/2013
Lead	ND	2.5		µg/wipe	10	11/30/2013
Manganese	ND	2.5		µg/wipe	10	11/30/2013
Molybdenum	ND	2.5		µg/wipe	10	11/30/2013
Nickel	ND	2.5		µg/wipe	10	11/30/2013
Potassium	ND	150		µg/wipe	10	11/30/2013
Selenium	ND	2.5		µg/wipe	10	11/30/2013
Silver	ND	2.5		µg/wipe	10	11/30/2013
Thallium	ND	2.5		µg/wipe	10	11/30/2013
Tin	ND	2.5	*	µg/wipe	10	11/30/2013
Titanium	ND	2.5	*	µg/wipe	10	11/30/2013
Vanadium	ND	2.5		µg/wipe	10	11/30/2013
Zinc	200	50		µg/wipe	10	11/30/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 90/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 11:50:00 AM

Lab ID: 13110836-010A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 12/3/2013	Analyst: LB
Mercury	0.12	0.027		mg/Kg-dry	1	12/3/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 12/4/2013	Analyst: JG
Aluminum	9500	270		mg/Kg-dry	100	12/4/2013
Antimony	ND	2.7		mg/Kg-dry	10	12/4/2013
Arsenic	9.6	1.4		mg/Kg-dry	10	12/4/2013
Barium	160	1.4		mg/Kg-dry	10	12/4/2013
Cadmium	1.9	0.68		mg/Kg-dry	10	12/4/2013
Calcium	32000	810		mg/Kg-dry	100	12/4/2013
Chromium	37	1.4		mg/Kg-dry	10	12/4/2013
Cobalt	5.6	1.4		mg/Kg-dry	10	12/4/2013
Copper	42	3.4		mg/Kg-dry	10	12/4/2013
Iron	22000	410		mg/Kg-dry	100	12/4/2013
Lead	240	0.68		mg/Kg-dry	10	12/4/2013
Manganese	1000	1.4		mg/Kg-dry	10	12/4/2013
Molybdenum	ND	6.8		mg/Kg-dry	10	12/4/2013
Nickel	19	1.4		mg/Kg-dry	10	12/4/2013
Potassium	1500	41		mg/Kg-dry	10	12/4/2013
Selenium	ND	1.4		mg/Kg-dry	10	12/4/2013
Silver	ND	1.4		mg/Kg-dry	10	12/4/2013
Thallium	ND	1.4		mg/Kg-dry	10	12/4/2013
Tin	8.7	6.8	*	mg/Kg-dry	10	12/4/2013
Titanium	180	3.4	*	mg/Kg-dry	10	12/4/2013
Vanadium	28	1.4		mg/Kg-dry	10	12/4/2013
Zinc	350	68		mg/Kg-dry	100	12/4/2013

<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	0.11	0.046		mg/Kg-dry	1	12/4/2013
Acenaphthylene	0.061	0.046		mg/Kg-dry	1	12/4/2013
Anthracene	0.35	0.046		mg/Kg-dry	1	12/4/2013
Benz(a)anthracene	1	0.046		mg/Kg-dry	1	12/4/2013
Benzo(a)pyrene	0.98	0.046		mg/Kg-dry	1	12/4/2013
Benzo(b)fluoranthene	0.92	0.046		mg/Kg-dry	1	12/4/2013
Benzo(g,h,i)perylene	0.7	0.046		mg/Kg-dry	1	12/4/2013
Benzo(k)fluoranthene	0.74	0.046		mg/Kg-dry	1	12/4/2013
2-Chloronaphthalene	ND	0.24		mg/Kg-dry	1	12/4/2013
Chrysene	1.1	0.046		mg/Kg-dry	1	12/4/2013
Dibenz(a,h)anthracene	0.47	0.046		mg/Kg-dry	1	12/4/2013
Fluoranthene	2.1	0.046		mg/Kg-dry	1	12/4/2013

**Qualifiers:**  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
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**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

<b>Client:</b> Weaver Boos	<b>Client Sample ID:</b> 90/0-0.5'
<b>Lab Order:</b> 13110836	<b>Tag Number:</b>
<b>Project:</b> 3682-300-07, Pet Coke and Coal Study	<b>Collection Date:</b> 11/29/2013 11:50:00 AM
<b>Lab ID:</b> 13110836-010A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>		<b>SW8270C (SW3550B)</b>		Prep Date: <b>12/3/2013</b>		Analyst: <b>DM</b>
Fluorene	0.15	0.046		mg/Kg-dry	1	12/4/2013
Indeno(1,2,3-cd)pyrene	0.72	0.046		mg/Kg-dry	1	12/4/2013
1-Methylnaphthalene	ND	0.046	*	mg/Kg-dry	1	12/4/2013
2-Methylnaphthalene	ND	0.046		mg/Kg-dry	1	12/4/2013
Naphthalene	ND	0.046		mg/Kg-dry	1	12/4/2013
Phenanthrene	1.5	0.046		mg/Kg-dry	1	12/4/2013
Pyrene	1.6	0.046		mg/Kg-dry	1	12/4/2013
<b>Percent Moisture</b>		<b>D2974</b>		Prep Date: <b>12/3/2013</b>		Analyst: <b>VA</b>
Percent Moisture	28.8	0.2	*	wt%	1	12/3/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 93

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 12:10:00 PM

Lab ID: 13110836-011A

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 11/29/2013		Analyst: DM
Acenaphthene	ND	1		µg/wipe	12/2/2013
Acenaphthylene	ND	1		µg/wipe	12/2/2013
Anthracene	ND	1		µg/wipe	12/2/2013
Benzo(a)anthracene	ND	1		µg/wipe	12/2/2013
Benzo(a)pyrene	ND	1		µg/wipe	12/2/2013
Benzo(b)fluoranthene	ND	1		µg/wipe	12/2/2013
Benzo(g,h,i)perylene	ND	1		µg/wipe	12/2/2013
Benzo(k)fluoranthene	ND	1		µg/wipe	12/2/2013
2-Chloronaphthalene	ND	5		µg/wipe	12/2/2013
Chrysene	ND	1		µg/wipe	12/2/2013
Dibenz(a,h)anthracene	ND	1		µg/wipe	12/2/2013
Fluoranthene	ND	1		µg/wipe	12/2/2013
Fluorene	ND	1		µg/wipe	12/2/2013
Indeno(1,2,3-cd)pyrene	ND	1		µg/wipe	12/2/2013
1-Methylnaphthalene	ND	1	*	µg/wipe	12/2/2013
2-Methylnaphthalene	ND	1		µg/wipe	12/2/2013
Naphthalene	ND	1		µg/wipe	12/2/2013
Phenanthrene	ND	1		µg/wipe	12/2/2013
Pyrene	ND	1		µg/wipe	12/2/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 93

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 12:10:00 PM

Lab ID: 13110836-011B

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 11/29/2013	Analyst: LB
Mercury	ND	0.018		µg/wipe	1	11/30/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 11/30/2013	Analyst: JG
Aluminum	2.8	2.5		µg/wipe	10	11/30/2013
Antimony	ND	5		µg/wipe	10	11/30/2013
Arsenic	ND	2.5		µg/wipe	10	11/30/2013
Barium	ND	2.5		µg/wipe	10	11/30/2013
Cadmium	ND	2.5		µg/wipe	10	11/30/2013
Calcium	170	100		µg/wipe	10	11/30/2013
Chromium	ND	12		µg/wipe	10	11/30/2013
Cobalt	ND	2.5		µg/wipe	10	11/30/2013
Copper	3.7	2.5		µg/wipe	10	11/30/2013
Iron	52	10		µg/wipe	10	11/30/2013
Lead	ND	2.5		µg/wipe	10	11/30/2013
Manganese	ND	2.5		µg/wipe	10	11/30/2013
Molybdenum	ND	2.5		µg/wipe	10	11/30/2013
Nickel	ND	2.5		µg/wipe	10	11/30/2013
Potassium	ND	150		µg/wipe	10	11/30/2013
Selenium	ND	2.5		µg/wipe	10	11/30/2013
Silver	ND	2.5		µg/wipe	10	11/30/2013
Thallium	ND	2.5		µg/wipe	10	11/30/2013
Tin	ND	2.5	*	µg/wipe	10	11/30/2013
Titanium	ND	2.5	*	µg/wipe	10	11/30/2013
Vanadium	ND	2.5		µg/wipe	10	11/30/2013
Zinc	180	50		µg/wipe	10	11/30/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 93/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 12:15:00 PM

Lab ID: 13110836-012A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 12/3/2013	Analyst: LB
Mercury	0.27	0.023		mg/Kg-dry	1	12/3/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 12/4/2013	Analyst: JG
Aluminum	11000	220		mg/Kg-dry	100	12/4/2013
Antimony	ND	2.2		mg/Kg-dry	10	12/4/2013
Arsenic	6.3	1.1		mg/Kg-dry	10	12/4/2013
Barium	210	1.1		mg/Kg-dry	10	12/4/2013
Cadmium	4	0.55		mg/Kg-dry	10	12/4/2013
Calcium	100000	660		mg/Kg-dry	100	12/4/2013
Chromium	140	1.1		mg/Kg-dry	10	12/4/2013
Cobalt	7.8	1.1		mg/Kg-dry	10	12/4/2013
Copper	200	2.8		mg/Kg-dry	10	12/4/2013
Iron	48000	330		mg/Kg-dry	100	12/4/2013
Lead	270	0.55		mg/Kg-dry	10	12/4/2013
Manganese	3300	11		mg/Kg-dry	100	12/4/2013
Molybdenum	20	5.5		mg/Kg-dry	10	12/4/2013
Nickel	41	1.1		mg/Kg-dry	10	12/4/2013
Potassium	1300	33		mg/Kg-dry	10	12/4/2013
Selenium	ND	1.1		mg/Kg-dry	10	12/4/2013
Silver	ND	1.1		mg/Kg-dry	10	12/4/2013
Thallium	ND	1.1		mg/Kg-dry	10	12/4/2013
Tin	33	5.5	*	mg/Kg-dry	10	12/4/2013
Titanium	220	2.8	*	mg/Kg-dry	10	12/4/2013
Vanadium	53	1.1		mg/Kg-dry	10	12/4/2013
Zinc	860	55		mg/Kg-dry	100	12/4/2013

<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	ND	0.4		mg/Kg-dry	1	12/4/2013
Acenaphthylene	ND	0.4		mg/Kg-dry	1	12/4/2013
Anthracene	ND	0.4		mg/Kg-dry	1	12/4/2013
Benz(a)anthracene	1.6	0.4		mg/Kg-dry	1	12/4/2013
Benzo(a)pyrene	2.7	0.4		mg/Kg-dry	1	12/4/2013
Benzo(b)fluoranthene	2.7	0.4		mg/Kg-dry	1	12/4/2013
Benzo(g,h,i)perylene	1.8	0.4		mg/Kg-dry	1	12/4/2013
Benzo(k)fluoranthene	1.6	0.4		mg/Kg-dry	1	12/4/2013
2-Chloronaphthalene	ND	2		mg/Kg-dry	1	12/4/2013
Chrysene	1.8	0.4		mg/Kg-dry	1	12/4/2013
Dibenz(a,h)anthracene	1.8	0.4		mg/Kg-dry	1	12/4/2013
Fluoranthene	3.1	0.4		mg/Kg-dry	1	12/4/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 93/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 12:15:00 PM

Lab ID: 13110836-012A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
Fluorene	ND	0.4		mg/Kg-dry	1	12/4/2013
Indeno(1,2,3-cd)pyrene	2.4	0.4		mg/Kg-dry	1	12/4/2013
1-Methylnaphthalene	ND	0.4	*	mg/Kg-dry	1	12/4/2013
2-Methylnaphthalene	ND	0.4		mg/Kg-dry	1	12/4/2013
Naphthalene	ND	0.4		mg/Kg-dry	1	12/4/2013
Phenanthrene	1.6	0.4		mg/Kg-dry	1	12/4/2013
Pyrene	2.6	0.4		mg/Kg-dry	1	12/4/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 12/3/2013	Analyst: VA
Percent Moisture	17.1	0.2	*	wt%	1	12/3/2013

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**Qualifiers:**  
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 112

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 1:10:00 PM

Lab ID: 13110836-013A

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 11/29/2013		Analyst: DM
Acenaphthene	ND	1		µg/wipe	12/2/2013
Acenaphthylene	ND	1		µg/wipe	12/2/2013
Anthracene	ND	1		µg/wipe	12/2/2013
Benz(a)anthracene	ND	1		µg/wipe	12/2/2013
Benzo(a)pyrene	ND	1		µg/wipe	12/2/2013
Benzo(b)fluoranthene	ND	1		µg/wipe	12/2/2013
Benzo(g,h,i)perylene	ND	1		µg/wipe	12/2/2013
Benzo(k)fluoranthene	ND	1		µg/wipe	12/2/2013
2-Chloronaphthalene	ND	5		µg/wipe	12/2/2013
Chrysene	ND	1		µg/wipe	12/2/2013
Dibenz(a,h)anthracene	ND	1		µg/wipe	12/2/2013
Fluoranthene	ND	1		µg/wipe	12/2/2013
Fluorene	ND	1		µg/wipe	12/2/2013
Indeno(1,2,3-cd)pyrene	ND	1		µg/wipe	12/2/2013
1-Methylnaphthalene	ND	1	*	µg/wipe	12/2/2013
2-Methylnaphthalene	ND	1		µg/wipe	12/2/2013
Naphthalene	ND	1		µg/wipe	12/2/2013
Phenanthrene	ND	1		µg/wipe	12/2/2013
Pyrene	ND	1		µg/wipe	12/2/2013

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 112

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 1:10:00 PM

Lab ID: 13110836-013B

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 11/29/2013	Analyst: LB
Mercury	ND	0.018		µg/wipe	1	11/30/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 11/30/2013	Analyst: JG
Aluminum	9	2.5		µg/wipe	10	11/30/2013
Antimony	ND	5		µg/wipe	10	11/30/2013
Arsenic	ND	2.5		µg/wipe	10	11/30/2013
Barium	ND	2.5		µg/wipe	10	11/30/2013
Cadmium	ND	2.5		µg/wipe	10	11/30/2013
Calcium	190	100		µg/wipe	10	11/30/2013
Chromium	ND	12		µg/wipe	10	11/30/2013
Cobalt	ND	2.5		µg/wipe	10	11/30/2013
Copper	ND	2.5		µg/wipe	10	11/30/2013
Iron	43	10		µg/wipe	10	11/30/2013
Lead	ND	2.5		µg/wipe	10	11/30/2013
Manganese	ND	2.5		µg/wipe	10	11/30/2013
Molybdenum	ND	2.5		µg/wipe	10	11/30/2013
Nickel	4.1	2.5		µg/wipe	10	11/30/2013
Potassium	ND	150		µg/wipe	10	11/30/2013
Selenium	ND	2.5		µg/wipe	10	11/30/2013
Silver	ND	2.5		µg/wipe	10	11/30/2013
Thallium	ND	2.5		µg/wipe	10	11/30/2013
Tin	ND	2.5	*	µg/wipe	10	11/30/2013
Titanium	10	2.5	*	µg/wipe	10	11/30/2013
Vanadium	ND	2.5		µg/wipe	10	11/30/2013
Zinc	73	50		µg/wipe	10	11/30/2013

**Qualifiers:**  
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 J - Analyte detected below quantitation limits  
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 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

<b>Client:</b> Weaver Boos	<b>Client Sample ID:</b> 112/0-0.5'
<b>Lab Order:</b> 13110836	<b>Tag Number:</b>
<b>Project:</b> 3682-300-07, Pet Coke and Coal Study	<b>Collection Date:</b> 11/29/2013 1:15:00 PM
<b>Lab ID:</b> 13110836-014A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 12/3/2013	Analyst: LB
Mercury	0.067	0.02		mg/Kg-dry	1	12/3/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 12/4/2013	Analyst: JG
Aluminum	3300	240		mg/Kg-dry	100	12/4/2013
Antimony	ND	2.4		mg/Kg-dry	10	12/4/2013
Arsenic	4.3	1.2		mg/Kg-dry	10	12/4/2013
Barium	63	1.2		mg/Kg-dry	10	12/4/2013
Cadmium	ND	0.6		mg/Kg-dry	10	12/4/2013
Calcium	11000	720		mg/Kg-dry	100	12/4/2013
Chromium	12	1.2		mg/Kg-dry	10	12/4/2013
Cobalt	1.7	1.2		mg/Kg-dry	10	12/4/2013
Copper	25	3		mg/Kg-dry	10	12/4/2013
Iron	8300	360		mg/Kg-dry	100	12/4/2013
Lead	76	0.6		mg/Kg-dry	10	12/4/2013
Manganese	350	1.2		mg/Kg-dry	10	12/4/2013
Molybdenum	ND	6		mg/Kg-dry	10	12/4/2013
Nickel	5.9	1.2		mg/Kg-dry	10	12/4/2013
Potassium	350	36		mg/Kg-dry	10	12/4/2013
Selenium	ND	1.2		mg/Kg-dry	10	12/4/2013
Silver	ND	1.2		mg/Kg-dry	10	12/4/2013
Thallium	ND	1.2		mg/Kg-dry	10	12/4/2013
Tin	ND	6	*	mg/Kg-dry	10	12/4/2013
Titanium	96	3	*	mg/Kg-dry	10	12/4/2013
Vanadium	11	1.2		mg/Kg-dry	10	12/4/2013
Zinc	110	60		mg/Kg-dry	100	12/4/2013

<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	ND	0.04		mg/Kg-dry	1	12/4/2013
Acenaphthylene	ND	0.04		mg/Kg-dry	1	12/4/2013
Anthracene	0.051	0.04		mg/Kg-dry	1	12/4/2013
Benz(a)anthracene	0.27	0.04		mg/Kg-dry	1	12/4/2013
Benzo(a)pyrene	0.44	0.04		mg/Kg-dry	1	12/4/2013
Benzo(b)fluoranthene	0.45	0.04		mg/Kg-dry	1	12/4/2013
Benzo(g,h,i)perylene	0.36	0.04		mg/Kg-dry	1	12/4/2013
Benzo(k)fluoranthene	0.29	0.04		mg/Kg-dry	1	12/4/2013
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	12/4/2013
Chrysene	0.35	0.04		mg/Kg-dry	1	12/4/2013
Dibenz(a,h)anthracene	0.25	0.04		mg/Kg-dry	1	12/4/2013
Fluoranthene	0.49	0.04		mg/Kg-dry	1	12/4/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
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	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

<b>Client:</b> Weaver Boos	<b>Client Sample ID:</b> 112/0-0.5'
<b>Lab Order:</b> 13110836	<b>Tag Number:</b>
<b>Project:</b> 3682-300-07, Pet Coke and Coal Study	<b>Collection Date:</b> 11/29/2013 1:15:00 PM
<b>Lab ID:</b> 13110836-014A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
Fluorene	ND	0.04		mg/Kg-dry	1	12/4/2013
Indeno(1,2,3-cd)pyrene	0.37	0.04		mg/Kg-dry	1	12/4/2013
1-Methylnaphthalene	ND	0.04	*	mg/Kg-dry	1	12/4/2013
2-Methylnaphthalene	ND	0.04		mg/Kg-dry	1	12/4/2013
Naphthalene	ND	0.04		mg/Kg-dry	1	12/4/2013
Phenanthrene	0.22	0.04		mg/Kg-dry	1	12/4/2013
Pyrene	0.35	0.04		mg/Kg-dry	1	12/4/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 12/3/2013	Analyst: VA
Percent Moisture	17.8	0.2	*	wt%	1	12/3/2013

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<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
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	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 115

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 1:30:00 PM

Lab ID: 13110836-015A

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 11/29/2013		Analyst: DM
Acenaphthene	ND	1		µg/wipe	12/2/2013
Acenaphthylene	ND	1		µg/wipe	12/2/2013
Anthracene	ND	1		µg/wipe	12/2/2013
Benz(a)anthracene	ND	1		µg/wipe	12/2/2013
Benzo(a)pyrene	ND	1		µg/wipe	12/2/2013
Benzo(b)fluoranthene	ND	1		µg/wipe	12/2/2013
Benzo(g,h,i)perylene	ND	1		µg/wipe	12/2/2013
Benzo(k)fluoranthene	ND	1		µg/wipe	12/2/2013
2-Chloronaphthalene	ND	5		µg/wipe	12/2/2013
Chrysene	ND	1		µg/wipe	12/2/2013
Dibenz(a,h)anthracene	ND	1		µg/wipe	12/2/2013
Fluoranthene	ND	1		µg/wipe	12/2/2013
Fluorene	ND	1		µg/wipe	12/2/2013
Indeno(1,2,3-cd)pyrene	ND	1		µg/wipe	12/2/2013
1-Methylnaphthalene	ND	1	*	µg/wipe	12/2/2013
2-Methylnaphthalene	ND	1		µg/wipe	12/2/2013
Naphthalene	ND	1		µg/wipe	12/2/2013
Phenanthrene	ND	1		µg/wipe	12/2/2013
Pyrene	ND	1		µg/wipe	12/2/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

<b>Client:</b> Weaver Boos	<b>Client Sample ID:</b> 115
<b>Lab Order:</b> 13110836	<b>Tag Number:</b>
<b>Project:</b> 3682-300-07, Pet Coke and Coal Study	<b>Collection Date:</b> 11/29/2013 1:30:00 PM
<b>Lab ID:</b> 13110836-015B	<b>Matrix:</b> Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>11/29/2013</b> Analyst: <b>LB</b>			
Mercury	ND	0.018		µg/wipe	1	11/30/2013
<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>11/30/2013</b> Analyst: <b>JG</b>			
Aluminum	9.6	2.5		µg/wipe	10	11/30/2013
Antimony	ND	5		µg/wipe	10	11/30/2013
Arsenic	ND	2.5		µg/wipe	10	11/30/2013
Barium	44	2.5		µg/wipe	10	11/30/2013
Cadmium	ND	2.5		µg/wipe	10	11/30/2013
Calcium	180	100		µg/wipe	10	11/30/2013
Chromium	ND	12		µg/wipe	10	11/30/2013
Cobalt	ND	2.5		µg/wipe	10	11/30/2013
Copper	ND	2.5		µg/wipe	10	11/30/2013
Iron	14	10		µg/wipe	10	11/30/2013
Lead	ND	2.5		µg/wipe	10	11/30/2013
Manganese	ND	2.5		µg/wipe	10	11/30/2013
Molybdenum	ND	2.5		µg/wipe	10	11/30/2013
Nickel	ND	2.5		µg/wipe	10	11/30/2013
Potassium	ND	150		µg/wipe	10	11/30/2013
Selenium	ND	2.5		µg/wipe	10	11/30/2013
Silver	ND	2.5		µg/wipe	10	11/30/2013
Thallium	ND	2.5		µg/wipe	10	11/30/2013
Tin	ND	2.5	*	µg/wipe	10	11/30/2013
Titanium	ND	2.5	*	µg/wipe	10	11/30/2013
Vanadium	ND	2.5		µg/wipe	10	11/30/2013
Zinc	82	50		µg/wipe	10	11/30/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 115/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 1:35:00 PM

Lab ID: 13110836-016A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 12/3/2013	Analyst: LB
Mercury	0.061	0.02		mg/Kg-dry	1	12/3/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 12/4/2013	Analyst: JG
Aluminum	7600	220		mg/Kg-dry	100	12/4/2013
Antimony	ND	2.2		mg/Kg-dry	10	12/4/2013
Arsenic	8.6	1.1		mg/Kg-dry	10	12/4/2013
Barium	100	1.1		mg/Kg-dry	10	12/4/2013
Cadmium	1.7	0.56		mg/Kg-dry	10	12/4/2013
Calcium	30000	670		mg/Kg-dry	100	12/4/2013
Chromium	18	1.1		mg/Kg-dry	10	12/4/2013
Cobalt	6.5	1.1		mg/Kg-dry	10	12/4/2013
Copper	25	2.8		mg/Kg-dry	10	12/4/2013
Iron	15000	340		mg/Kg-dry	100	12/4/2013
Lead	180	0.56		mg/Kg-dry	10	12/4/2013
Manganese	410	1.1		mg/Kg-dry	10	12/4/2013
Molybdenum	ND	5.6		mg/Kg-dry	10	12/4/2013
Nickel	16	1.1		mg/Kg-dry	10	12/4/2013
Potassium	940	34		mg/Kg-dry	10	12/4/2013
Selenium	ND	1.1		mg/Kg-dry	10	12/4/2013
Silver	ND	1.1		mg/Kg-dry	10	12/4/2013
Thallium	ND	1.1		mg/Kg-dry	10	12/4/2013
Tin	ND	5.6	*	mg/Kg-dry	10	12/4/2013
Titanium	130	2.8	*	mg/Kg-dry	10	12/4/2013
Vanadium	18	1.1		mg/Kg-dry	10	12/4/2013
Zinc	250	56		mg/Kg-dry	100	12/4/2013

<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	0.23	0.038		mg/Kg-dry	1	12/5/2013
Acenaphthylene	ND	0.038		mg/Kg-dry	1	12/5/2013
Anthracene	0.39	0.038		mg/Kg-dry	1	12/5/2013
Benz(a)anthracene	1.3	0.038		mg/Kg-dry	1	12/5/2013
Benzo(a)pyrene	1.5	0.038		mg/Kg-dry	1	12/5/2013
Benzo(b)fluoranthene	1.4	0.038		mg/Kg-dry	1	12/5/2013
Benzo(g,h,i)perylene	1.4	0.038		mg/Kg-dry	1	12/5/2013
Benzo(k)fluoranthene	1.4	0.038		mg/Kg-dry	1	12/5/2013
2-Chloronaphthalene	ND	0.2		mg/Kg-dry	1	12/5/2013
Chrysene	1.7	0.038		mg/Kg-dry	1	12/5/2013
Dibenz(a,h)anthracene	0.6	0.038		mg/Kg-dry	1	12/5/2013
Fluoranthene	3.8	0.038		mg/Kg-dry	1	12/5/2013

**Qualifiers:**  
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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: 115/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 1:35:00 PM

Lab ID: 13110836-016A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: <b>12/3/2013</b>	Analyst: <b>DM</b>
Fluorene	0.23	0.038		mg/Kg-dry	1	12/5/2013
Indeno(1,2,3-cd)pyrene	1.2	0.038		mg/Kg-dry	1	12/5/2013
1-Methylnaphthalene	ND	0.038	*	mg/Kg-dry	1	12/5/2013
2-Methylnaphthalene	ND	0.038		mg/Kg-dry	1	12/5/2013
Naphthalene	ND	0.038		mg/Kg-dry	1	12/5/2013
Phenanthrene	2.5	0.038		mg/Kg-dry	1	12/5/2013
Pyrene	2.9	0.038		mg/Kg-dry	1	12/5/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>12/3/2013</b>	Analyst: <b>VA</b>
Percent Moisture	14.8	0.2	*	wt%	1	12/3/2013

US EPA ARCHIVE DOCUMENT

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: DUP-8/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 11:00:00 AM

Lab ID: 13110836-017A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 12/3/2013	Analyst: LB
Mercury	0.052	0.024		mg/Kg-dry	1	12/3/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 12/4/2013	Analyst: JG
Aluminum	11000	230		mg/Kg-dry	100	12/4/2013
Antimony	ND	2.3		mg/Kg-dry	10	12/4/2013
Arsenic	8.2	1.2		mg/Kg-dry	10	12/4/2013
Barium	190	1.2		mg/Kg-dry	10	12/4/2013
Cadmium	ND	0.59		mg/Kg-dry	10	12/4/2013
Calcium	77000	700		mg/Kg-dry	100	12/4/2013
Chromium	22	1.2		mg/Kg-dry	10	12/4/2013
Cobalt	11	1.2		mg/Kg-dry	10	12/4/2013
Copper	29	2.9		mg/Kg-dry	10	12/4/2013
Iron	24000	350		mg/Kg-dry	100	12/4/2013
Lead	84	0.59		mg/Kg-dry	10	12/4/2013
Manganese	540	1.2		mg/Kg-dry	10	12/4/2013
Molybdenum	ND	5.9		mg/Kg-dry	10	12/4/2013
Nickel	28	1.2		mg/Kg-dry	10	12/4/2013
Potassium	1800	35		mg/Kg-dry	10	12/4/2013
Selenium	ND	1.2		mg/Kg-dry	10	12/4/2013
Silver	ND	1.2		mg/Kg-dry	10	12/4/2013
Thallium	ND	1.2		mg/Kg-dry	10	12/4/2013
Tin	ND	5.9	*	mg/Kg-dry	10	12/4/2013
Titanium	120	2.9	*	mg/Kg-dry	10	12/4/2013
Vanadium	23	1.2		mg/Kg-dry	10	12/4/2013
Zinc	120	59		mg/Kg-dry	100	12/4/2013

<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	0.051	0.04		mg/Kg-dry	1	12/5/2013
Acenaphthylene	0.06	0.04		mg/Kg-dry	1	12/5/2013
Anthracene	0.32	0.04		mg/Kg-dry	1	12/5/2013
Benz(a)anthracene	1.3	0.04		mg/Kg-dry	1	12/5/2013
Benzo(a)pyrene	1.3	0.04		mg/Kg-dry	1	12/5/2013
Benzo(b)fluoranthene	1.2	0.04		mg/Kg-dry	1	12/5/2013
Benzo(g,h,i)perylene	1.1	0.04		mg/Kg-dry	1	12/5/2013
Benzo(k)fluoranthene	1.2	0.04		mg/Kg-dry	1	12/5/2013
2-Chloronaphthalene	ND	0.21		mg/Kg-dry	1	12/5/2013
Chrysene	1.4	0.04		mg/Kg-dry	1	12/5/2013
Dibenz(a,h)anthracene	0.6	0.04		mg/Kg-dry	1	12/5/2013
Fluoranthene	2.3	0.04		mg/Kg-dry	1	12/5/2013

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

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 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: DUP-8/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 11:00:00 AM

Lab ID: 13110836-017A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
Fluorene	0.075	0.04		mg/Kg-dry	1	12/5/2013
Indeno(1,2,3-cd)pyrene	0.98	0.04		mg/Kg-dry	1	12/5/2013
1-Methylnaphthalene	ND	0.04	*	mg/Kg-dry	1	12/5/2013
2-Methylnaphthalene	ND	0.04		mg/Kg-dry	1	12/5/2013
Naphthalene	ND	0.04		mg/Kg-dry	1	12/5/2013
Phenanthrene	1.1	0.04		mg/Kg-dry	1	12/5/2013
Pyrene	2.1	0.04		mg/Kg-dry	1	12/5/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: 12/3/2013	Analyst: VA
Percent Moisture	19.1	0.2	*	wt%	1	12/3/2013

US EPA ARCHIVE DOCUMENT

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: DUP-9

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 1:45:00 PM

Lab ID: 13110836-018A

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 11/29/2013		Analyst: DM
Acenaphthene	ND	1		µg/wipe	12/2/2013
Acenaphthylene	ND	1		µg/wipe	12/2/2013
Anthracene	ND	1		µg/wipe	12/2/2013
Benzo(a)anthracene	ND	1		µg/wipe	12/2/2013
Benzo(a)pyrene	ND	1		µg/wipe	12/2/2013
Benzo(b)fluoranthene	ND	1		µg/wipe	12/2/2013
Benzo(g,h,i)perylene	ND	1		µg/wipe	12/2/2013
Benzo(k)fluoranthene	ND	1		µg/wipe	12/2/2013
2-Chloronaphthalene	ND	5		µg/wipe	12/2/2013
Chrysene	ND	1		µg/wipe	12/2/2013
Dibenz(a,h)anthracene	ND	1		µg/wipe	12/2/2013
Fluoranthene	ND	1		µg/wipe	12/2/2013
Fluorene	ND	1		µg/wipe	12/2/2013
Indeno(1,2,3-cd)pyrene	ND	1		µg/wipe	12/2/2013
1-Methylnaphthalene	ND	1	*	µg/wipe	12/2/2013
2-Methylnaphthalene	ND	1		µg/wipe	12/2/2013
Naphthalene	ND	1		µg/wipe	12/2/2013
Phenanthrene	ND	1		µg/wipe	12/2/2013
Pyrene	ND	1		µg/wipe	12/2/2013

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 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
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Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: DUP-9

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 1:45:00 PM

Lab ID: 13110836-018B

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>		Prep Date: <b>11/29/2013</b>		Analyst: <b>LB</b>	
Mercury	ND	0.018		µg/wipe	1	11/30/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>		Prep Date: <b>11/30/2013</b>		Analyst: <b>JG</b>	
Aluminum	19	2.5		µg/wipe	10	11/30/2013
Antimony	ND	5		µg/wipe	10	11/30/2013
Arsenic	ND	2.5		µg/wipe	10	11/30/2013
Barium	36	2.5		µg/wipe	10	11/30/2013
Cadmium	ND	2.5		µg/wipe	10	11/30/2013
Calcium	200	100		µg/wipe	10	11/30/2013
Chromium	ND	12		µg/wipe	10	11/30/2013
Cobalt	ND	2.5		µg/wipe	10	11/30/2013
Copper	4.1	2.5		µg/wipe	10	11/30/2013
Iron	27	10		µg/wipe	10	11/30/2013
Lead	ND	2.5		µg/wipe	10	11/30/2013
Manganese	ND	2.5		µg/wipe	10	11/30/2013
Molybdenum	ND	2.5		µg/wipe	10	11/30/2013
Nickel	ND	2.5		µg/wipe	10	11/30/2013
Potassium	ND	150		µg/wipe	10	11/30/2013
Selenium	ND	2.5		µg/wipe	10	11/30/2013
Silver	ND	2.5		µg/wipe	10	11/30/2013
Thallium	ND	2.5		µg/wipe	10	11/30/2013
Tin	ND	2.5	*	µg/wipe	10	11/30/2013
Titanium	ND	2.5	*	µg/wipe	10	11/30/2013
Vanadium	ND	2.5		µg/wipe	10	11/30/2013
Zinc	190	50		µg/wipe	10	11/30/2013

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 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

<b>Client:</b> Weaver Boos	<b>Client Sample ID:</b> DUP-9/0-0.5'
<b>Lab Order:</b> 13110836	<b>Tag Number:</b>
<b>Project:</b> 3682-300-07, Pet Coke and Coal Study	<b>Collection Date:</b> 11/29/2013 1:40:00 PM
<b>Lab ID:</b> 13110836-019A	<b>Matrix:</b> Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 12/3/2013	Analyst: LB
Mercury	0.06	0.02		mg/Kg-dry	1	12/3/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 12/4/2013	Analyst: JG
Aluminum	7300	230		mg/Kg-dry	100	12/4/2013
Antimony	ND	2.3		mg/Kg-dry	10	12/4/2013
Arsenic	7.7	1.1		mg/Kg-dry	10	12/4/2013
Barium	86	1.1		mg/Kg-dry	10	12/4/2013
Cadmium	0.99	0.57		mg/Kg-dry	10	12/4/2013
Calcium	36000	680		mg/Kg-dry	100	12/4/2013
Chromium	18	1.1		mg/Kg-dry	10	12/4/2013
Cobalt	5.4	1.1		mg/Kg-dry	10	12/4/2013
Copper	23	2.8		mg/Kg-dry	10	12/4/2013
Iron	14000	340		mg/Kg-dry	100	12/4/2013
Lead	120	0.57		mg/Kg-dry	10	12/4/2013
Manganese	390	1.1		mg/Kg-dry	10	12/4/2013
Molybdenum	ND	5.7		mg/Kg-dry	10	12/4/2013
Nickel	14	1.1		mg/Kg-dry	10	12/4/2013
Potassium	910	34		mg/Kg-dry	10	12/4/2013
Selenium	ND	1.1		mg/Kg-dry	10	12/4/2013
Silver	ND	1.1		mg/Kg-dry	10	12/4/2013
Thallium	ND	1.1		mg/Kg-dry	10	12/4/2013
Tin	ND	5.7	*	mg/Kg-dry	10	12/4/2013
Titanium	110	2.8	*	mg/Kg-dry	10	12/4/2013
Vanadium	16	1.1		mg/Kg-dry	10	12/4/2013
Zinc	240	5.7		mg/Kg-dry	10	12/4/2013

<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: 12/3/2013	Analyst: DM
Acenaphthene	0.17	0.039		mg/Kg-dry	1	12/5/2013
Acenaphthylene	ND	0.039		mg/Kg-dry	1	12/5/2013
Anthracene	0.39	0.039		mg/Kg-dry	1	12/5/2013
Benz(a)anthracene	1.7	0.039		mg/Kg-dry	1	12/5/2013
Benzo(a)pyrene	2	0.039		mg/Kg-dry	1	12/5/2013
Benzo(b)fluoranthene	2.1	0.039		mg/Kg-dry	1	12/5/2013
Benzo(g,h,i)perylene	2	0.039		mg/Kg-dry	1	12/5/2013
Benzo(k)fluoranthene	1.8	0.039		mg/Kg-dry	1	12/5/2013
2-Chloronaphthalene	ND	0.2		mg/Kg-dry	1	12/5/2013
Chrysene	2.4	0.039		mg/Kg-dry	1	12/5/2013
Dibenz(a,h)anthracene	0.79	0.039		mg/Kg-dry	1	12/5/2013
Fluoranthene	4.7	0.2		mg/Kg-dry	5	12/5/2013

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: DUP-9/0-0.5'

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 1:40:00 PM

Lab ID: 13110836-019A

Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
<b>Semivolatile Organic Compounds by GC/MS</b>	<b>SW8270C (SW3550B)</b>				Prep Date: <b>12/3/2013</b>	Analyst: <b>DM</b>
Fluorene	0.17	0.039		mg/Kg-dry	1	12/5/2013
Indeno(1,2,3-cd)pyrene	1.6	0.039		mg/Kg-dry	1	12/5/2013
1-Methylnaphthalene	ND	0.039	*	mg/Kg-dry	1	12/5/2013
2-Methylnaphthalene	ND	0.039		mg/Kg-dry	1	12/5/2013
Naphthalene	ND	0.039		mg/Kg-dry	1	12/5/2013
Phenanthrene	2.8	0.039		mg/Kg-dry	1	12/5/2013
Pyrene	4.3	0.039		mg/Kg-dry	1	12/5/2013
<b>Percent Moisture</b>	<b>D2974</b>				Prep Date: <b>12/3/2013</b>	Analyst: <b>VA</b>
Percent Moisture	15.8	0.2	*	wt%	1	12/3/2013

US EPA ARCHIVE DOCUMENT

<b>Qualifiers:</b>	ND - Not Detected at the Reporting Limit	RL - Reporting / Quantitation Limit for the analysis
	J - Analyte detected below quantitation limits	S - Spike Recovery outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	R - RPD outside accepted recovery limits
	HT - Sample received past holding time	E - Value above quantitation range
	* - Non-accredited parameter	H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Blank-5

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 1:40:00 PM

Lab ID: 13110836-020A

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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Semivolatile Organic Compounds by GC/MS	SW8270C (SW3550B)		Prep Date: 11/29/2013		Analyst: DM
Acenaphthene	ND	1		µg/wipe	12/2/2013
Acenaphthylene	ND	1		µg/wipe	12/2/2013
Anthracene	ND	1		µg/wipe	12/2/2013
Benzo(a)anthracene	ND	1		µg/wipe	12/2/2013
Benzo(a)pyrene	ND	1		µg/wipe	12/2/2013
Benzo(b)fluoranthene	ND	1		µg/wipe	12/2/2013
Benzo(g,h,i)perylene	ND	1		µg/wipe	12/2/2013
Benzo(k)fluoranthene	ND	1		µg/wipe	12/2/2013
2-Chloronaphthalene	ND	5		µg/wipe	12/2/2013
Chrysene	ND	1		µg/wipe	12/2/2013
Dibenz(a,h)anthracene	ND	1		µg/wipe	12/2/2013
Fluoranthene	ND	1		µg/wipe	12/2/2013
Fluorene	ND	1		µg/wipe	12/2/2013
Indeno(1,2,3-cd)pyrene	ND	1		µg/wipe	12/2/2013
1-Methylnaphthalene	ND	1	*	µg/wipe	12/2/2013
2-Methylnaphthalene	ND	1		µg/wipe	12/2/2013
Naphthalene	ND	1		µg/wipe	12/2/2013
Phenanthrene	ND	1		µg/wipe	12/2/2013
Pyrene	ND	1		µg/wipe	12/2/2013

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Report Date: January 13, 2014

Print Date: January 13, 2014

Client: Weaver Boos

Client Sample ID: Blank-5

Lab Order: 13110836

Tag Number:

Project: 3682-300-07, Pet Coke and Coal Study

Collection Date: 11/29/2013 1:40:00 PM

Lab ID: 13110836-020B

Matrix: Wipe

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
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<b>Mercury</b>	<b>SW7471A</b>				Prep Date: 11/29/2013	Analyst: LB
Mercury	ND	0.018		µg/wipe	1	11/30/2013

<b>Metals by ICP/MS</b>	<b>SW6020 (SW3050B)</b>				Prep Date: 11/30/2013	Analyst: JG
Aluminum	ND	2.5		µg/wipe	10	11/30/2013
Antimony	ND	5		µg/wipe	10	11/30/2013
Arsenic	ND	2.5		µg/wipe	10	11/30/2013
Barium	ND	2.5		µg/wipe	10	11/30/2013
Cadmium	ND	2.5		µg/wipe	10	11/30/2013
Calcium	130	100		µg/wipe	10	11/30/2013
Chromium	ND	12		µg/wipe	10	11/30/2013
Cobalt	ND	2.5		µg/wipe	10	11/30/2013
Copper	ND	2.5		µg/wipe	10	11/30/2013
Iron	ND	10		µg/wipe	10	11/30/2013
Lead	ND	2.5		µg/wipe	10	11/30/2013
Manganese	ND	2.5		µg/wipe	10	11/30/2013
Molybdenum	ND	2.5		µg/wipe	10	11/30/2013
Nickel	ND	2.5		µg/wipe	10	11/30/2013
Potassium	ND	150		µg/wipe	10	11/30/2013
Selenium	ND	2.5		µg/wipe	10	11/30/2013
Silver	ND	2.5		µg/wipe	10	11/30/2013
Thallium	ND	2.5		µg/wipe	10	11/30/2013
Tin	ND	2.5	*	µg/wipe	10	11/30/2013
Titanium	ND	2.5	*	µg/wipe	10	11/30/2013
Vanadium	ND	2.5		µg/wipe	10	11/30/2013
Zinc	86	50		µg/wipe	10	11/30/2013

**Qualifiers:**  
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 e-mail address: STATinfo@STATAnalysis.com AIHA, NVLAP and NELAP accredited

**CHAIN OF CUSTODY RECORD**

No: 853246

Page: 1 of 1

Company: Weaver Boos Consultants  
 Project Number: N/A Client Tracking No.:  
 Project Name: Quinn Emanuel  
 Project Location: Chicago, IL  
 Sampler(s): S. Carter / P. Gruda  
 Report To: Andy Perdue Phone: 312-922-1030  
Paul Gruda Fax: 312-922-0201  
 QC Level: 1  2 \_\_\_ 3 \_\_\_ 4 \_\_\_ e-mail: aperdue@weaverboos.com

P.O. No.:  
 Quote No.:  
 Turn Around: 24 hr  
 Results Needed:

**8270 D**  
**6910 B**  
 1-Chloroethane  
 2-Methylhexane  
 1,2-Dichloroethane

Client Sample Number/Description:	Date Taken	Time Taken	Matrix	Comp.	Grab	Preserv.	No. of Containers	Remarks	Lab No.:
96	11/29	1050	W		X	G	3		001
96/0-0.5'		1055	S			A	2	X 1 hold	002
94		1125	W			G	3		003
94/0-0.5'		1130	S			A	2	X 4 hold	004
91		1250	W			G	3		005
91/0-0.5'		1255	S			A	2	X 1 hold	006
92		1230	W			G	3		007
92/0-0.5'		1235	S			A	2	X 1 hold	008
90		1145	W			G	3		009
90/0-0.5'		1150	S			A	2	X 1 hold	010
93		1210	W			G	3		011
93/0-0.5'		1215	S			A	2	X 1 hold	012
112		1310	W			G	3		013
112/0-0.5'		1315	S			A	2	X 1 hold	014
115		1330	W			G	3		015
115/0-0.5'		1335	S			A	2	X 1 hold	016
Dup-8/0-0.5'		1100	S			A	1		017
Dup-9		1345	W			G	3		018
Dup-9/0-0.5'		1340	S			A	1		019
Blank-5		1340	W			G	3		020

Relinquished by: (Signature) [Signature] Date/Time: 11/29/13 1510  
 Received by: (Signature) [Signature] Date/Time: 11/29/13 1510  
 Relinquished by: (Signature) Date/Time:  
 Received by: (Signature) Date/Time:  
 Relinquished by: (Signature) Date/Time:  
 Received by: (Signature) Date/Time:

Comments: w=wipe - SEE CRAIG CHAWLEY  
Sb, As, Ba, Cd, Co, Cr, Cu, Fe, Mn  
Mo, Hg, Pb, K, Ni, Se, Ag, Rb, Sr, Th, Ti  
Pb, Sn, V, Zn, Zr  
 Preservation Code: A = None B = HNO<sub>3</sub> C = NaOH  
 D = H<sub>2</sub>SO<sub>4</sub> E = HCl F = 5035/EnCore G = Other

Laboratory Work Order No.:  
13110836  
 Received on Ice: Yes  No   
 Temperature: 1.2 °C

44 of 45

**Sample Receipt Checklist**

Client Name: **WEAVER BOOS**

Date and Time Received: **11/29/2013 3:10:00 PM**

Work Order Number **13110836**

Received by: **CC**

Checklist completed by:   
Signature

**11/29/2013**  
Date

Reviewed by: **EMLP**  
Initials

**12/8/13**  
Date

Matrix: \_\_\_\_\_ Carrier name: Client Delivered

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels/containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container or Temp Blank temperature in compliance? Yes  No  Temperature **1.2 °C**
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No
- Water - Samples pH checked? Yes  No  Checked by: \_\_\_\_\_
- Water - Samples properly preserved? Yes  No  pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Client / Person contacted: \_\_\_\_\_ Date contacted: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Response: **PROJECT NUMBER '3682-300-07' AND NAME 'PET COKE AND COAL STUDY' PER PAUL CARUCA E-MAIL 01/13/2014 0917-CE**

**US EPA ARCHIVE DOCUMENT**