Robert J. Momberger
2340 NW 36 Terrace
Gainesville, Fl 32605

September 30, 2008

Mr. Chris Bodin, DEP Hazardous Waste Section
Florida Department of Environmental Protection
7825 Baymeadows Way, Suite 200B
Jacksonville, FL 32256-7590

RE: Coomes Oil & Supply Company – 8 Hartshorn Street, St. Augustine
FDEP facility #55/8630966; Drum Storage Area Letter Report.

Dear Mr. Bodin:

Enclosed are two copies of the Letter Report for the Drum Storage Area for the Coomes Oil & Supply Company site. Please call me at (cell#) 352-278-8633 if you have any questions concerning this report. Thank you for your time and consideration.

Best Regards,

Robert J. Momberger, FL P.G. #439
Senior Hydrogeologist

CC: Mr. J.B. Coomes, P.O. Box 175, St. Augustine, FL 32085-0175

PROFESSIONAL GEOLOGIST CERTIFICATION

This Drum Storage Letter Report and recommendation for a no further action (NFA) for the Coomes Oil & Supply site (FDEP Facility ID#55/8630966), 8 Hartshorn Street, St. Augustine, St. John's County, Florida was conducted under the direction and review of Mr. Robert J. Momberger (Florida P.G. #439). This work appears to comply with the current standards and practices exercised in the handling of site assessments, NFAs and other similar hydrogeologic assessments and reports in the State of Florida. These professional services have been performed using the degree of skill ordinarily exercised under similar circumstances by other geologists, hydrogeologists and engineers practicing in this field. No other warranty, expressed or implied, is made as to the professional advice in this report.

Robert J. Momberger, FL P.G. No.439

Date: 10/02/08

Drum Storage Area Letter Report
Coomes Oil & Supply Company
8 Hartshorn Street
St. Augustine, St. Johns County
FDEP Facility ID#55/8630966

1.0 Introduction

FDEP conducted an inspection of the Coomes Oil & Supply Company at 8 Hartshorn Street, St. Augustine on August 25, 2008 and based on observations near the drum storage area, the FDEP Northeast District, Hazardous Waste Section recommended the following:

1) Remove and dispose of the waste oil stained soil on the surface of the unpaved area surrounding the waste oil drum storage area – primarily to the west of the storage area.
2) Collect and analyze soil samples from three locations (SS1, SS2 and SS3) near the drum storage area at a depth of 1.5 to 2.0 feet below the surface.
3) Provide a letter report with analytical data and a site sketch (map).

2.0 Field Activities

On August 29, 2008 Coomes Oil & Supply personnel scraped all soil that appeared oil stained from the surface around the drum storage area (see Figure 1). The drum storage area is approximately 40 feet in length and 9 feet in width. It has a concrete floor with a 6 inch concrete berm around the entire perimeter. The stained soil was removed to a depth of approximately 6 inches about six feet around the north and west side of the storage area. The removed soil (approximately 4 cubic yards) was stored on and covered with visqueen. The soil was analyzed for the 8 RCRA metals by TCLP analysis.

On September 5, 2008, a licensed geologist collected soil samples with a hand-auger from three locations at a depth of 1.5 to 2.0 feet below the surface. Sample SS1 was collected about 4 feet from the northeast corner of the storage area and SS2 and SS3 were collected about 2 to 3 feet from the west side of the storage area. The three samples were analyzed for cadmium, chromium and lead (total), polycyclic aromatic hydrocarbons (PAHs) and BTEX/MTBE.

The three soil samples were each a silty sand (SM) with fine grained quartz sand, non-plastic, dark grayish-brown in color, dry and had no apparent petroleum staining or odors. The PAH and metals samples were kept on ice until delivered to Advanced Environmental Laboratories (AEL) in Gainesville, Florida. The BTEX/MTBE samples were frozen within 3 hours of collection and kept frozen until delivered to AEL.

3.0 Findings & Recommendations

Soil samples SS1, SS2 and SS2 were all below detection limits for BTEX/MTBE. All three samples were also either below detection limits or soil cleanup target levels (SCTLs) for every PAH. No petroleum staining or odors were noted for any of the three soil samples.

The concentrations (total) for cadmium, chromium and lead were all below SCTLs for soil samples SS1, SS2 and SS3. Cadmium concentrations ranged from 1.3 to 2.0 mg/kg, chromium from 5.0 to 6.2 mg/kg and lead from 238 to 286 mg/kg.

TCPL analyses for the soil (sample SS4) removed from the upper six inches around the drum storage area showed that concentrations for arsenic, chromium, lead, selenium, silver and mercury were all below detection limits. Only low concentrations of barium (0.31 mg/l) and cadmium (0.0065 mg/l) were detected. The TCLP data has been provided to Florida Environmental Compliance Corporation, Jacksonville, Florida and the soil will be properly disposed as soon as possible. The manifest for the disposed soil will be provided to the FDEP, Hazardous Waste Section when available.

The drum storage area (which has a concrete floor and berm) is recommended for a no further action (NFA) since there appears to be no adverse impact to soil around the storage area due to the (used oil) stained soil that has been removed from the upper six inches near the area.

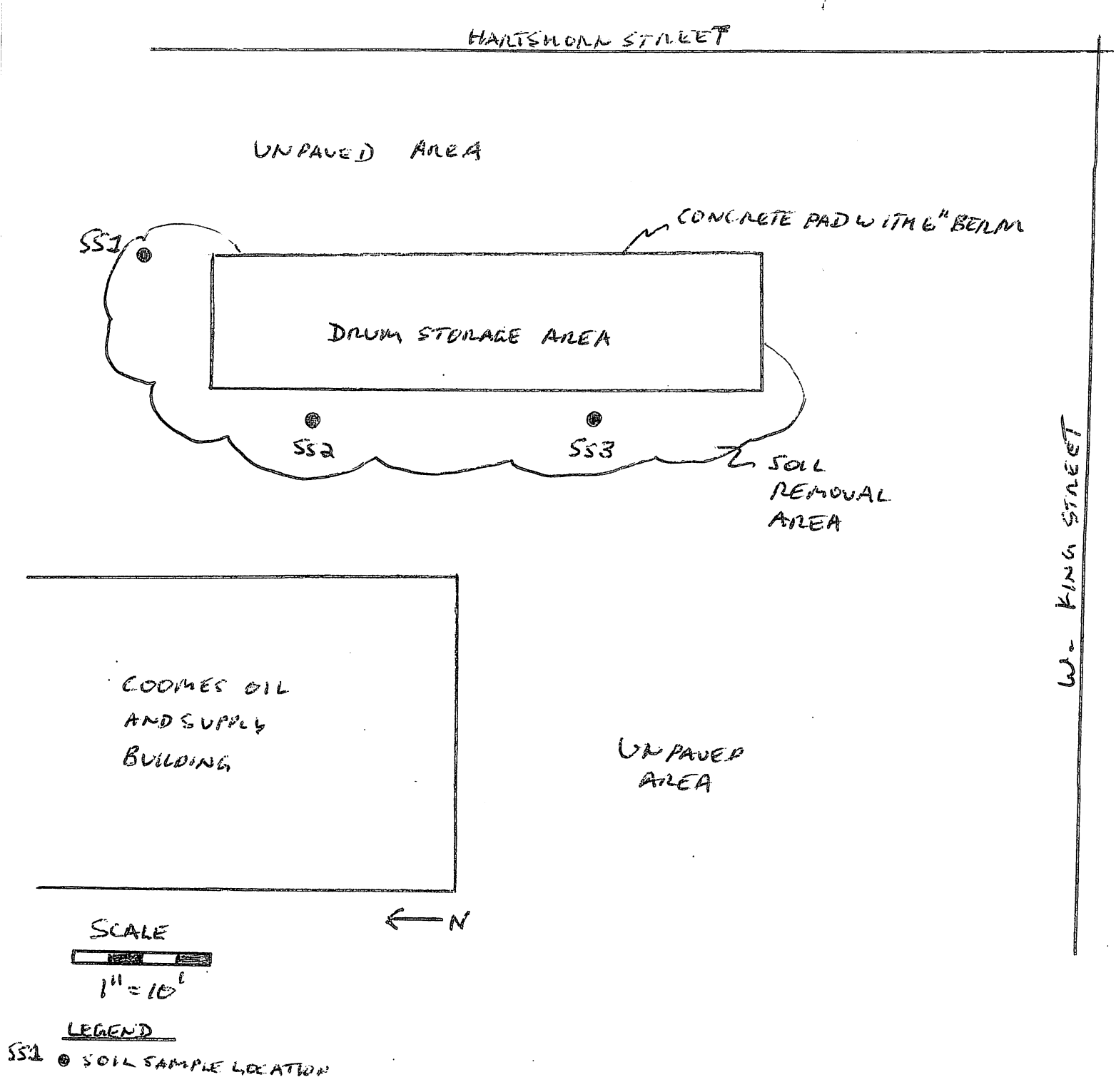
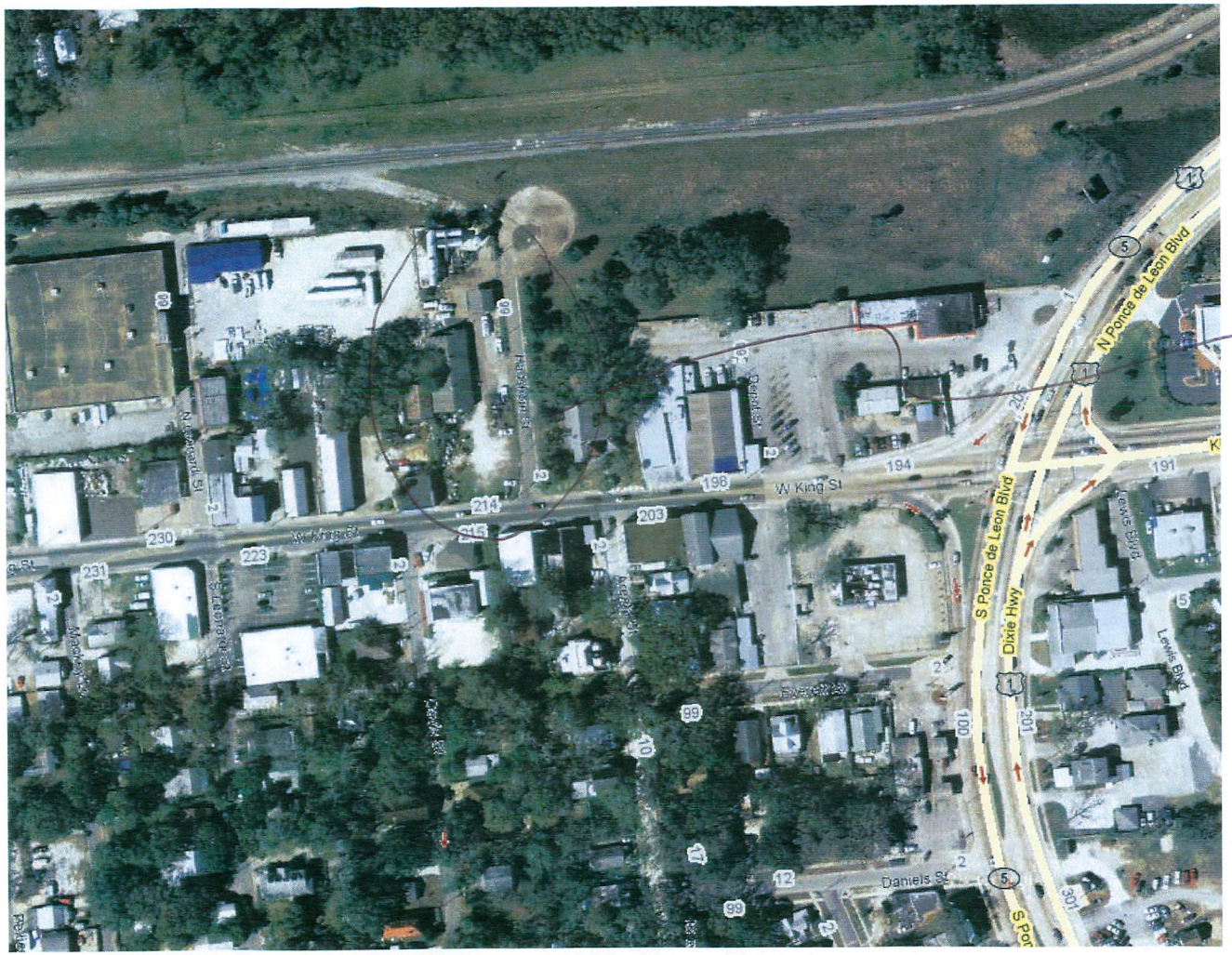


FIGURE 1: SOIL SAMPLE LOCATIONS AT COOMES OIL & SUPPLY ON 9/5/08.
FDEP ID#55/8630966



COOMES OIL & SUPPLY COMPANY
8 HANSMORN STREET
ST. AUGUSTINE
FDEP FACILITY ID# 55/8630966

Google Maps

COOMES OIL + SUPPLY COMPANY
8 HANSTOWN STREET
ST. AUGUSTINE

FDEP FACILITY ID# 55/8630966

TABLE 1: SOIL ANALYTICAL DATA

Facility: Coomes Oil&Supply Facility ID#55/8630966

Sample				OVA	Laboratory Analyses										
Boring No.	Sample ID and (Date)	Depth to Water (ft)	Sample Interval (fbls)	Net OVA Reading PPM	Benzene (ug/kg)	Ethyl-benzene (ug/kg)	Toluene (ug/kg)	Total Xylenes (ug/kg)	Total VOAs (ug/kg)	MTBE (ug/kg)	Naph-thalene (ug/kg)	Cadmium (mg/kg)	Chro-mium (mg/kg)	Lead (mg/kg)	Comments
1	SS1 (9/05/08)		1.5-2		<.5	<.48	<.45	<1.5		<1.9	<26	2.0	6.2	286	
2	SS2 (9/05/08)		1.5-2		<.8	<.77	<.73	<2.4		<3.1	<26	1.3	5	238	
3	SS3 (9/05/08)		1.5-2		<.81	<.79	<.74	<2.4		<3.2	<26	1.3	5.2	260	
					1,200	1,500,00	7,500,000	130,000		4,400,000	55000	82	210	400	SCTLs - Direct Exposure Based
					7	600	500	200		90	1200	8	38	TCLP	SCTLs - Leachability Based

L = value between MDL & PQL
BOLD = >SCTL

If an analyte is not detected, state the detection limit (i.e. <1)

Advanced
Environmental Laboratories, Inc.

6815 SW Archer Road
Gainesville, Florida 32608
(352) 377-2349
FAX (352) 395-6639

September 24, 2008

Serial: LAB-080924 93051

Bob Momberger
Bob Momberger
2340 NW 36th Terrace
Gainesville, FL 32605
RE: JB- Hawthorn
Work Order: 0809095

Enclosed are the results of analyses for samples received by the laboratory on September 8, 2008.

All data were determined in accordance with published procedures (EPA Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Rev March 1983; and Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992). Our laboratory is certified by Florida Department of Health (FDH No. E82001).

All results were determined in accordance with NELAP requirements and in accordance with the chain of custody document unless noted in the report case narrative or data report. The results relate only to the samples listed on the chain of custody. All data is subject to a degree of uncertainty. For a discussion of laboratory uncertainty, please contact your project manager. This analytical report must be reproduced in its entirety. The report pages are numbered separately from the chain of custody and any sample receipt documentation, which, if appropriate, are included in an unnumbered appendix.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Karen Daniels
Operations Manager

Advanced Environmental Laboratories, Inc

6815 SW Archer Rd
Gainesville, FL 32608
352.377.2349 Phone
352.395.6639 Fax
NELAP Certified - FDH #E82001

Bob Momberger
2340 NW 36th Terrace
Gainesville, FL 32605

Project: JB- Hawthorn
Project Manager: Bob Momberger

Reported:
09/24/08 09:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS1	0809095-01	Soil	09/05/08 13:30	09/08/08 11:10
SS2	0809095-02	Soil	09/05/08 13:45	09/08/08 11:10
SS3	0809095-03	Soil	09/05/08 14:00	09/08/08 11:10
SS4	0809095-04	Soil	09/05/08 14:15	09/08/08 11:10

Advanced Environmental Laboratories, Inc.

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352.377.2349 Phone
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NELAP Certified - FDH #E82001

Bob Momberger 2340 NW 36th Terrace Gainesville, FL 32605	Project: JB- Hawthorn Project Manager: Bob Momberger	**Reported:** 09/24/08 09:30

REPORT OF RESULTS

SS1

0809095-01 (Soil)

Analysis	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Cadmium Sediment EPA 6010B (ICP)	2.0	0.07	mg/kg dry	1	8091213	09/12/08	09/19/08 15:10	
Chromium Sediment EPA 6010B (ICP)	6.2	0.2	mg/kg dry	1	8091213	09/12/08	09/19/08 15:10	
Lead Sediment EPA 6010B (ICP)	286	0.5	mg/kg dry	1	8091213	09/12/08	09/19/08 15:10	
Solids, Dry Weight	83.1	0.1	% by Weight	1	8091212	09/12/08	09/12/08 16:15	
Subcontracted Analyses		Sample was subcontracted. Please see attached report.						

SS2

0809095-02 (Soil)

Analysis	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Cadmium Sediment EPA 6010B (ICP)	1.3	0.05	mg/kg dry	1	8091213	09/12/08	09/19/08 15:48	
Chromium Sediment EPA 6010B (ICP)	5.0	0.2	mg/kg dry	1	8091213	09/12/08	09/19/08 15:48	
Lead Sediment EPA 6010B (ICP)	238	0.3	mg/kg dry	1	8091213	09/12/08	09/19/08 15:48	
Solids, Dry Weight	83.2	0.1	% by Weight	1	8091212	09/12/08	09/12/08 16:15	
Subcontracted Analyses		Sample was subcontracted. Please see attached report.						

SS3

0809095-03 (Soil)

Analysis	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Cadmium Sediment EPA 6010B (ICP)	1.3	0.3	mg/kg dry	5	8091213	09/12/08	09/19/08 16:18	
Chromium Sediment EPA 6010B (ICP)	5.2	0.9	mg/kg dry	5	8091213	09/12/08	09/19/08 16:18	
Lead Sediment EPA 6010B (ICP)	260	1.7	mg/kg dry	5	8091213	09/12/08	09/19/08 16:18	
Solids, Dry Weight	84.5	0.1	% by Weight	1	8091212	09/12/08	09/12/08 16:15	
Subcontracted Analyses		Sample was subcontracted. Please see attached report.						

SS4

0809095-04 (Soil)

Analysis	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Subcontracted Analyses		Sample was subcontracted. Please see attached report.						

Advanced Environmental Laboratories, Inc.

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NELAP Certified - FDH #E82001

Bob Momberger 2340 NW 36th Terrace Gainesville, FL 32605	Project: JB- Hawthorn Project Manager: Bob Momberger	**Reported:** 09/24/08 09:30

QUALITY CONTROL FOR SAMPLES

Solids - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8091212 = Solids, Dry Weight										
Blank (8091212-BLK1)										
Solids, Dry Weight	0.1 U	0.1	% by Weight							
Duplicate (8091212-DUP1)	**Source: 0809095-01**									
Solids, Dry Weight	83.2	0.1	% by Weight		83.1			0.1	20	

Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8091213 = ICP Metals										
Blank (8091213-BLK1)										
Cadmium Sediment EPA 6010B (ICP)	0.03 U	0.03	mg/kg wet							
Chromium Sediment EPA 6010B (ICP)	0.1 U	0.1	mg/kg wet							
Lead Sediment EPA 6010B (ICP)	0.2 U	0.2	mg/kg wet							
LCS (8091213-BS1)										
Lead Sediment EPA 6010B (ICP)	122	0.9	mg/kg wet	126		97	85-115			
Cadmium Sediment EPA 6010B (ICP)	94.2	0.1	mg/kg wet	98.1		96	85-115			
Chromium Sediment EPA 6010B (ICP)	118	0.5	mg/kg wet	123		96	85-115			
Matrix Spike (8091213-MS1)	**Source: 0809095-01**									
Chromium Sediment EPA 6010B (ICP)	15.7	0.2	mg/kg dry	10.6	6.2	90	75-125			
Matrix Spike Dup (8091213-MSD1)	**Source: 0809095-01**									
Chromium Sediment EPA 6010B (ICP)	16.7	0.2	mg/kg dry	11.5	6.2	91	75-125	1	20	
Post Spike (8091213-PS1)	**Source: 0809095-01**									
Lead Sediment EPA 6010B (ICP)	2700		ug/L	484	2250	93	75-125			
Cadmium Sediment EPA 6010B (ICP)	490		ug/L	484	15.5	98	75-125			
Chromium Sediment EPA 6010B (ICP)	518		ug/L	484	48.8	97	75-125			

Advanced Environmental Laboratories, Inc.

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Gainesville, FL 32608
352.377.2349 Phone
352.395.6639 Fax
NELAP Certified - FDH #E82001

Bob Momberger 2340 NW 36th Terrace Gainesville, FL 32605	Project: JB- Hawthorn Project Manager: Bob Momberger	**Reported:** 09/24/08 09:30

NOTES AND DEFINITIONS

D-RNG	The difference of the concentrations of the sample and its duplicate is low in comparison to the MDL. It is the general policy of the laboratory that when the range is at this level the sample is not rerun and the data is considered acceptable.
D-NH	Poor duplicates; nonhomogeneous sample.
U	Analyte not detected at or above the method detection limit
I	Analyte not detected above the practical quantitation limit.
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Page 1 of 1 LAB NUMBER: 0809045

Advanced Environmental Laboratories, Inc.

- ☐ 6601 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354 • E82574
- ☐ 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327 • E8458
- ☒ ~~6815~~ SW Archer Road • Gainesville, FL 32608 • 352.377.2349 • Fax 352.395.6639 • E82001
- ☐ 528 S. North Lake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597 • E53076

CLIENT NAME: BOB MOMBERGER
ADDRESS: 2340 NW 36 TERRACE
GAINESVILLE FL 32605
PHONE: (352) 278-8633
FAX:
CONTACT: BOB MOMBERGER
SAMPLED BY: BOB MOMBERGER

TURN AROUND TIME: ☒ STANDARD ☐ RUSH

PROJECT NAME: JB-HARTSHORN
P.O. NUMBER/PROJECT NUMBER: 080508
PROJECT LOCATION: ST. AUGUSTINE

REMARKS/SPECIAL INSTRUCTIONS:
NON-PROGRAM SITE

BOTTLE SIZE & TYPE								40 ml CG	8 oz CG	8 oz CG	8 oz CG
ANALYSIS REQUIRED								BTEX/MTBE *	TRPH	Cd, Cr, Pb	TCLP METALS
SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	PRESERVATION	2 DI 1 MeOH I	I	I	I
SS1	1.5-2.0 ft	G	9/5/08	1330	SO	6		4	1	1	
SS2	1.5-2.0 ft	↓	↓	1345	↓	6		4	1	1	
SS3	1.5-2.0 ft			1400		6		4	1	1	
SS4	WASTE PILE	↓	↓	1415	↓	1					1

LABORATORY I.D. NUMBER

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received 1.2 (in degrees celcius)

Form revised 2/8/08 * FROZEN W/ 24 HRS

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 ~~LT-2~~ T: 10A A: 3A

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	9/8/08	1110	[signature]	9/8/08	1110
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID: ____
Contact Person: ____ Phone: ____
Supplier of Water: ____
Site-Address: ____

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
6601 Southpoint Parkway
Jacksonville, FL 32216
Phone: (904)363-9350
Fax: (904)363-9354

September 23, 2008

Karen Daniels
Advanced Environmental Laboratories, Inc.
6815 SW Archer Road
Gainesville, FL 32608

RE: Workorder: J0806679 0809095

Dear Karen Daniels:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, September 09, 2008. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andres Alvarez

Andy Alvarez
aalvarez@aellab.com
Project Manager

Enclosures

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc

Advanced Environmental Laboratories, Inc
6601 Southpoint Parkway
Jacksonville, FL 32216
Phone: (904)363-9350
Fax: (904)363-9354

SAMPLE SUMMARY

Workorder: J0806679 0809095

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J0806679001	0809095-01 SS1	Soil	9/5/2008 13:30	9/9/2008 08:30
J0806679002	0809095-02 SS2	Soil	9/5/2008 13:45	9/9/2008 08:30
J0806679003	0809095-03 SS3	Soil	9/5/2008 14:00	9/9/2008 08:30
J0806679004	0809095-04 SS4	Soil	9/5/2008 14:15	9/9/2008 08:30

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
6601 Southpoint Parkway
Jacksonville, FL 32216
Phone: (904)363-9350
Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J0806679 0809095

Lab ID: **J0806679001** Date Received: 9/9/2008 08:30 Matrix: Soil

Sample ID: **0809095-01 SS1** Date Collected: 9/5/2008 13:30

Results for sample J0806679001 are reported on a dry weight basis.

Sample Description Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B							
	Analytical Method: SW-846 8270C (SIM)							
2-Methylnaphthalene	**22**	**ug/Kg**	**U**	**1**	90	22	9/10/2008 18:13	J
Acenaphthene	**17**	**ug/Kg**	**U**	**1**	90	17	9/10/2008 18:13	J
Acenaphthylene	**28**	**ug/Kg**	**I**	**1**	90	17	9/10/2008 18:13	J
Anthracene	**20**	**ug/Kg**	**I**	**1**	90	16	9/10/2008 18:13	J
Benzo[a]anthracene	**120**	**ug/Kg**		**1**	36	13	9/10/2008 18:13	J
Benzo[a]pyrene	**140**	**ug/Kg**		**1**	90	17	9/10/2008 18:13	J
Benzo[b]fluoranthene	**150**	**ug/Kg**		**1**	90	15	9/10/2008 18:13	J
Benzo[g,h,i]perylene	**110**	**ug/Kg**		**1**	90	16	9/10/2008 18:13	J
Benzo[k]fluoranthene	**130**	**ug/Kg**		**1**	90	17	9/10/2008 18:13	J
Chrysene	**140**	**ug/Kg**		**1**	36	12	9/10/2008 18:13	J
Dibenz[a,h]anthracene	**13**	**ug/Kg**	**U**	**1**	36	13	9/10/2008 18:13	J
Fluoranthene	**170**	**ug/Kg**		**1**	90	16	9/10/2008 18:13	J
Fluorene	**18**	**ug/Kg**	**U**	**1**	90	18	9/10/2008 18:13	J
Indeno(1,2,3-cd)pyrene	**110**	**ug/Kg**		**1**	36	11	9/10/2008 18:13	J
Naphthalene	**26**	**ug/Kg**	**U**	**1**	90	26	9/10/2008 18:13	J
Phenanthrene	**40**	**ug/Kg**	**I**	**1**	90	16	9/10/2008 18:13	J
Pyrene	**170**	**ug/Kg**		**1**	90	14	9/10/2008 18:13	J
Decafluorobiphenyl (S)	**73**	**%**		**1**	15-123		9/10/2008 18:13	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B							
	Analytical Method: AEL SVOC-006 Rev #4/GC-MS							
1-Methylnaphthalene	**20**	**ug/Kg**	**U**	**1**	90	20	9/10/2008 18:13	J
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035							
	Analytical Method: SW-846 8260B							
Benzene	**0.50**	**ug/Kg**	**U**	**1**	2.3	0.50	9/12/2008 18:39	J
Ethylbenzene	**0.48**	**ug/Kg**	**U**	**1**	2.3	0.48	9/12/2008 18:39	J
Methyl tert-butyl Ether (MTBE)	**1.9**	**ug/Kg**	**U**	**1**	2.3	1.9	9/12/2008 18:39	J
Toluene	**0.45**	**ug/Kg**	**U**	**1**	2.3	0.45	9/12/2008 18:39	J
Xylene (Total)	**1.5**	**ug/Kg**	**U**	**1**	6.8	1.5	9/12/2008 18:39	J
1,2-Dichloroethane-d4 (S)	**108**	**%**		**1**	80-120		9/12/2008 18:39	
Toluene-d8 (S)	**115**	**%**		**1**	81-117		9/12/2008 18:39	
4-Bromofluorobenzene (S)	**141**	**%**	**J4**	**1**	74-121		9/12/2008 18:39	

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
6601 Southpoint Parkway
Jacksonville, FL 32216
Phone: (904)363-9350
Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J0806679 0809095

Lab ID: **J0806679002** Date Received: 9/9/2008 08:30 Matrix: Soil

Sample ID: **0809095-02 SS2** Date Collected: 9/5/2008 13:45

Results for sample J0806679002 are reported on a dry weight basis.

Sample Description Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B							
	Analytical Method: SW-846 8270C (SIM)							
2-Methylnaphthalene	**22**	**ug/Kg**	**U**	**1**	91	22	9/10/2008 18:40	J
Acenaphthene	**18**	**ug/Kg**	**U**	**1**	91	18	9/10/2008 18:40	J
Acenaphthylene	**29**	**ug/Kg**	**I**	**1**	91	17	9/10/2008 18:40	J
Anthracene	**30**	**ug/Kg**	**I**	**1**	91	16	9/10/2008 18:40	J
Benzo[a]anthracene	**130**	**ug/Kg**		**1**	36	13	9/10/2008 18:40	J
Benzo[a]pyrene	**140**	**ug/Kg**		**1**	91	18	9/10/2008 18:40	J
Benzo[b]fluoranthene	**160**	**ug/Kg**		**1**	91	15	9/10/2008 18:40	J
Benzo[g,h,i]perylene	**110**	**ug/Kg**		**1**	91	16	9/10/2008 18:40	J
Benzo[k]fluoranthene	**150**	**ug/Kg**		**1**	91	17	9/10/2008 18:40	J
Chrysene	**160**	**ug/Kg**		**1**	36	12	9/10/2008 18:40	J
Dibenz[a,h]anthracene	**31**	**ug/Kg**	**I**	**1**	36	13	9/10/2008 18:40	J
Fluoranthene	**200**	**ug/Kg**		**1**	91	16	9/10/2008 18:40	J
Fluorene	**18**	**ug/Kg**	**U**	**1**	91	18	9/10/2008 18:40	J
Indeno(1,2,3-cd)pyrene	**120**	**ug/Kg**		**1**	36	11	9/10/2008 18:40	J
Naphthalene	**26**	**ug/Kg**	**U**	**1**	91	26	9/10/2008 18:40	J
Phenanthrene	**54**	**ug/Kg**	**I**	**1**	91	16	9/10/2008 18:40	J
Pyrene	**190**	**ug/Kg**		**1**	91	15	9/10/2008 18:40	J
Decafluorobiphenyl (S)	**74**	**%**		**1**	15-123		9/10/2008 18:40	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B							
	Analytical Method: AEL SVOC-006 Rev #4/GC-MS							
1-Methylnaphthalene	**20**	**ug/Kg**	**U**	**1**	91	20	9/10/2008 18:40	J
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035							
	Analytical Method: SW-846 8260B							
Benzene	**0.80**	**ug/Kg**	**U**	**1**	3.6	0.80	9/15/2008 16:45	J
Ethylbenzene	**0.77**	**ug/Kg**	**U**	**1**	3.6	0.77	9/15/2008 16:45	J
Methyl tert-butyl Ether (MTBE)	**3.1**	**ug/Kg**	**U**	**1**	3.6	3.1	9/15/2008 16:45	J
Toluene	**0.73**	**ug/Kg**	**U**	**1**	3.6	0.73	9/15/2008 16:45	J
Xylene (Total)	**2.4**	**ug/Kg**	**U**	**1**	11	2.4	9/15/2008 16:45	J
1,2-Dichloroethane-d4 (S)	**123**	**%**	**J4**	**1**	80-120		9/15/2008 16:45	
Toluene-d8 (S)	**111**	**%**		**1**	81-117		9/15/2008 16:45	
4-Bromofluorobenzene (S)	**129**	**%**	**J4**	**1**	74-121		9/15/2008 16:45	

CERTIFICATE OF ANALYSIS

Advanced Environmental Laboratories, Inc.

Advanced Environmental Laboratories, Inc
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Phone: (904)363-9350
Fax: (904)363-9354

ANALYTICAL RESULTS

Workorder: J0806679 0809095

Lab ID: **J0806679003** Date Received: 9/9/2008 08:30 Matrix: Soil

Sample ID: **0809095-03 SS3** Date Collected: 9/5/2008 14:00

Results for sample J0806679003 are reported on a dry weight basis.

Sample Description Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B							
	Analytical Method: SW-846 8270C (SIM)							
2-Methylnaphthalene	**23**	**ug/Kg**	**U**	1	92	23	9/10/2008 19:08	J
Acenaphthene	**18**	**ug/Kg**	**U**	1	92	18	9/10/2008 19:08	J
Acenaphthylene	**30**	**ug/Kg**	**I**	1	92	17	9/10/2008 19:08	J
Anthracene	**19**	**ug/Kg**	**I**	1	92	17	9/10/2008 19:08	J
Benzo[a]anthracene	**110**	**ug/Kg**		1	37	13	9/10/2008 19:08	J
Benzo[a]pyrene	**100**	**ug/Kg**		1	92	18	9/10/2008 19:08	J
Benzo[b]fluoranthene	**120**	**ug/Kg**		1	92	15	9/10/2008 19:08	J
Benzo[g,h,i]perylene	**94**	**ug/Kg**		1	92	16	9/10/2008 19:08	J
Benzo[k]fluoranthene	**110**	**ug/Kg**		1	92	17	9/10/2008 19:08	J
Chrysene	**130**	**ug/Kg**		1	37	12	9/10/2008 19:08	J
Dibenz[a,h]anthracene	**26**	**ug/Kg**	**I**	1	37	14	9/10/2008 19:08	J
Fluoranthene	**140**	**ug/Kg**		1	92	16	9/10/2008 19:08	J
Fluorene	**18**	**ug/Kg**	**U**	1	92	18	9/10/2008 19:08	J
Indeno(1,2,3-cd)pyrene	**100**	**ug/Kg**		1	37	12	9/10/2008 19:08	J
Naphthalene	**26**	**ug/Kg**	**U**	1	92	26	9/10/2008 19:08	J
Phenanthrene	**32**	**ug/Kg**	**I**	1	92	17	9/10/2008 19:08	J
Pyrene	**140**	**ug/Kg**		1	92	15	9/10/2008 19:08	J
Decafluorobiphenyl (S)	**76**	**%**		1	15-123		9/10/2008 19:08	
Analysis Desc: 8270C-SIM Analysis, Soil	Preparation Method: SW-846 3550B							
	Analytical Method: AEL SVOC-006 Rev #4/GC-MS							
1-Methylnaphthalene	**20**	**ug/Kg**	**U**	1	92	20	9/10/2008 19:08	J
VOLATILES								
Analysis Desc: 8260C Analysis, Soil	Preparation Method: SW-846 5035							
	Analytical Method: SW-846 8260B							
Benzene	**0.81**	**ug/Kg**	**U**	1	3.7	0.81	9/15/2008 17:31	J
Ethylbenzene	**0.79**	**ug/Kg**	**U**	1	3.7	0.79	9/15/2008 17:31	J
Methyl tert-butyl Ether (MTBE)	**3.2**	**ug/Kg**	**U**	1	3.7	3.2	9/15/2008 17:31	J
Toluene	**0.74**	**ug/Kg**	**U**	1	3.7	0.74	9/15/2008 17:31	J
Xylene (Total)	**2.4**	**ug/Kg**	**U**	1	11	2.4	9/15/2008 17:31	J
1,2-Dichloroethane-d4 (S)	**125**	**%**	**J4**	1	80-120		9/15/2008 17:31	
Toluene-d8 (S)	**111**	**%**		1	81-117		9/15/2008 17:31	
4-Bromofluorobenzene (S)	**126**	**%**	**J4**	1	74-121		9/15/2008 17:31	

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: J0806679 0809095

Lab ID: **J0806679004** Date Received: 9/9/2008 08:30 Matrix: Soil

Sample ID: **0809095-04 SS4** Date Collected: 9/5/2008 14:15

Results for sample J0806679004 are reported on a wet weight basis.

Sample Description Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS, TCLP								
Analysis Desc: SW846 6010B Analysis,TCLP	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Arsenic	**0.080**	**mg/L**	**U**	1	0.10	0.080	9/16/2008 20:10	J
Barium	**0.31**	**mg/L**		1	0.020	0.0050	9/16/2008 20:10	J
Cadmium	**0.0065**	**mg/L**		1	0.0060	0.00070	9/16/2008 20:10	J
Chromium	**0.0024**	**mg/L**	**U**	1	0.010	0.0024	9/16/2008 20:10	J
Lead	**0.0070**	**mg/L**	**U**	1	0.070	0.0070	9/16/2008 20:10	J
Selenium	**0.033**	**mg/L**	**U**	1	0.20	0.033	9/16/2008 20:10	J
Silver	**0.0042**	**mg/L**	**U**	1	0.040	0.0042	9/16/2008 20:10	J
Analysis Desc: SW846 7470A Analysis,TCLP	Preparation Method: SW-846 7470A Analytical Method: SW-846 7470A							
Mercury	**0.00012**	**mg/L**	**U**	1	0.0010	0.00012	9/19/2008 15:32	J

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J0806679 0809095

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4	Estimated Result

LAB QUALIFIERS

J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J0806679 0809095

QC Batch:	EXTj/6740		Analysis Method:	SW-846 8270C (SIM)		
QC Batch Method:	SW-846 3550B		Prepared:	9/10/2008 08:30		
Associated Lab Samples:	J0806679001	J0806679002	J0806679003	J0806714001	J0806714002	J0806742007

METHOD BLANK: 238858

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Naphthalene	ug/Kg	4.3U	4.3	
2-Methylnaphthalene	ug/Kg	3.7U	3.7	
1-Methylnaphthalene	ug/Kg	3.3U	3.3	
Acenaphthylene	ug/Kg	2.8U	2.8	
Acenaphthene	ug/Kg	2.9U	2.9	
Fluorene	ug/Kg	3.0U	3.0	
Phenanthrene	ug/Kg	2.7U	2.7	
Anthracene	ug/Kg	2.7U	2.7	
Fluoranthene	ug/Kg	2.6U	2.6	
Pyrene	ug/Kg	2.4U	2.4	
Benzo[a]anthracene	ug/Kg	2.1U	2.1	
Chrysene	ug/Kg	2.0U	2.0	
Benzo[b]fluoranthene	ug/Kg	2.5U	2.5	
Benzo[k]fluoranthene	ug/Kg	2.8U	2.8	
Benzo[a]pyrene	ug/Kg	2.9U	2.9	
Indeno(1,2,3-cd)pyrene	ug/Kg	1.9U	1.9	
Dibenz[a,h]anthracene	ug/Kg	2.2U	2.2	
Benzo[g,h,i]perylene	ug/Kg	2.6U	2.6	
Decafluorobiphenyl (S)	%	61	15-123	

QC Batch:	MSVj/6538		Analysis Method:	SW-846 8260B		
QC Batch Method:	SW-846 5030B		Prepared:	9/12/2008 10:33		
Associated Lab Samples:	J0806643002	J0806643003	J0806679001	J0806767001	J0806767002	

METHOD BLANK: 240403

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl tert-butyl Ether (MTBE)	ug/Kg	2.6U	2.6	
Benzene	ug/Kg	0.66U	0.66	
Toluene	ug/Kg	0.60U	0.60	
Ethylbenzene	ug/Kg	0.64U	0.64	
Xylene (Total)	ug/Kg	2.0U	2.0	
1,2-Dichloroethane-d4 (S)	%	119	80-120	
Toluene-d8 (S)	%	103	81-117	
4-Bromofluorobenzene (S)	%	102	74-121	

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QUALITY CONTROL DATA

Workorder: J0806679 0809095

QC Batch: MSVj/6538 Analysis Method: SW-846 8260B
QC Batch Method: SW-846 5035 Prepared: 9/12/2008 10:33
Associated Lab Samples: J0806643002 J0806643003 J0806679001 J0806767001 J0806767002

METHOD BLANK: 240403

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl tert-butyl Ether (MTBE)	ug/Kg	2.6U	2.6	
Benzene	ug/Kg	0.66U	0.66	
Toluene	ug/Kg	0.60U	0.60	
Ethylbenzene	ug/Kg	0.64U	0.64	
Xylene (Total)	ug/Kg	2.0U	2.0	
1,2-Dichloroethane-d4 (S)	%	119	80-120	
Toluene-d8 (S)	%	103	81-117	
4-Bromofluorobenzene (S)	%	102	74-121	

QC Batch: MSVj/6542 Analysis Method: SW-846 8260B
QC Batch Method: SW-846 5030B Prepared: 9/15/2008 10:11
Associated Lab Samples: J0806679002 J0806679003 J0806767003 J0806767004 J0806767005 J0806767006
J0806767007 J0806767008 J0806767009 J0806767010 J0806767011 J0806767012
J0806767013 J0806767014 J0806767015

METHOD BLANK: 241436

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl tert-butyl Ether (MTBE)	ug/Kg	2.6U	2.6	
Benzene	ug/Kg	0.66U	0.66	
Toluene	ug/Kg	0.60U	0.60	
Ethylbenzene	ug/Kg	0.64U	0.64	
Xylene (Total)	ug/Kg	2.0U	2.0	
1,2-Dichloroethane-d4 (S)	%	111	80-120	
Toluene-d8 (S)	%	101	81-117	
4-Bromofluorobenzene (S)	%	101	74-121	

QC Batch: MSVj/6542 Analysis Method: SW-846 8260B
QC Batch Method: SW-846 5035 Prepared: 9/15/2008 10:11
Associated Lab Samples: J0806679002 J0806679003 J0806767003 J0806767004 J0806767005 J0806767006
J0806767007 J0806767008 J0806767009 J0806767010 J0806767011 J0806767012
J0806767013 J0806767014 J0806767015

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QUALITY CONTROL DATA

Workorder: J0806679 0809095

METHOD BLANK: 241436

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl tert-butyl Ether (MTBE)	ug/Kg	2.6U	2.6	
Benzene	ug/Kg	0.66U	0.66	
Toluene	ug/Kg	0.60U	0.60	
Ethylbenzene	ug/Kg	0.64U	0.64	
Xylene (Total)	ug/Kg	2.0U	2.0	
1,2-Dichloroethane-d4 (S)	%	111	80-120	
Toluene-d8 (S)	%	101	81-117	
4-Bromofluorobenzene (S)	%	101	74-121	

QC Batch: DGMj/7201 Analysis Method: SW-846 6010

QC Batch Method: SW-846 3010A Prepared: 9/16/2008 10:00

Associated Lab Samples: J0806679004 J0806800001 J0806800002 J0806800003 J0806800004 J0806800005 J0806843001

METHOD BLANK: 241621

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Silver	mg/L	0.0042U	0.0042	
Arsenic	mg/L	0.080U	0.080	
Barium	mg/L	0.0050U	0.0050	
Cadmium	mg/L	0.00070U	0.00070	
Chromium	mg/L	0.0024U	0.0024	
Lead	mg/L	0.0070U	0.0070	
Selenium	mg/L	0.033U	0.033	

QC Batch: DGMj/7220 Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A Prepared: 9/19/2008 13:00

Associated Lab Samples: J0806679004 J0806837001 J0806848001 J0806849001

METHOD BLANK: 243612

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Mercury	mg/L	0.000024U	0.000024	

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QUALITY CONTROL DATA QUALIFIERS

Workorder: J0806679 0809095

QUALITY CONTROL PARAMETER QUALIFIERS

J4	Estimated Result

Advanced Environmental Laboratories, Inc.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J0806679 0809095

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
J0806679001	0809095-01 SS1	SW-846 3550B	EXTj/6740	SW-846 8270C (SIM)	MSSj/6356
J0806679002	0809095-02 SS2	SW-846 3550B	EXTj/6740	SW-846 8270C (SIM)	MSSj/6356
J0806679003	0809095-03 SS3	SW-846 3550B	EXTj/6740	SW-846 8270C (SIM)	MSSj/6356
J0806679001	0809095-01 SS1	SW-846 5035	MSVj/6538	SW-846 8260B	MSVj/6539
J0806679002	0809095-02 SS2	SW-846 5035	MSVj/6542	SW-846 8260B	MSVj/6543
J0806679003	0809095-03 SS3	SW-846 5035	MSVj/6542	SW-846 8260B	MSVj/6543
J0806679004	0809095-04 SS4	SW-846 3010A	DGMj/7201	SW-846 6010	ICPj/6999
J0806679004	0809095-04 SS4	SW-846 7470A	DGMj/7220	SW-846 7470A	CVAj/6188

Page 1 of 1 LAB NI

J0806679

Advanced Environmental Laboratories, Inc.

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☐ 528 S. North Lake Blvd., Ste. 1016 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597 • E83076

CLIENT NAME: AEL Gainesville
ADDRESS:
PHONE:
FAX:
CONTACT: Karen Daniels
SAMPLED BY:
TURN AROUND TIME: ☒ STANDARD ☐ RUSH

PROJECT NAME: Momberger JB-Hawthorn
P.O. NUMBER/PROJECT NUMBER:
PROJECT LOCATION:

REMARKS/SPECIAL INSTRUCTIONS:
Sub to AEL Jax

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATION	BOTTLE SIZE & TYPE	500 ML p	8 oz jar									LABORATORY USE ONLY
							ANALYSIS REQUIRED	BTEX + MTBE	PAH's	TCLP Metals								
0809095-01	SS1	G	9/5/2008	13:30	WP SW SED			X	X									1
0809095-02	SS2	G	9/5/2008	13:45	SW SED			X	X									2
0809095-03	SS3	G	9/5/2008	14:00	SED			X	X									3
0809095-04	SS4	G	9/5/2008	14:15	SED					X								4

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = Ice H=(HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosul

Received on Ice: ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from temp blank ☐ Where required, pH checked

Temperature when received: 6° (in degrees celciu

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A

Form revised 2/8/08

	Relinquished by:	Date	Time	Received by:	Date	Time
1		9/8/08	1702			
2		9/8/08	0830		9.9.08	08:30
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone:
Supplier of Water:
Site Address:

Advanced
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QCBatch: MSVj/6539
Method: 8260B5
PrepMethod: 5035

I. **RECEIPT**

No Exceptions were encountered.

II. **HOLDING TIMES**

Preparation: All holding times were met.

Analysis: All holding times were met.

III. **PREPARATION**

Sample preparation proceeded normally.

VI. **ANALYSIS**

A. Calibration: All acceptance criteria were met.

B. Blanks: The Method Blank contained low levels of Methylene Chloride above the Method Detection Limit (MDL). In accordance with AEL QA, all sample results found in the method blank are flagged with a V qualifier to indicate the data is an estimate. Any result within 10x the method blank result could be the result of laboratory contamination.

C. Surrogates: The upper control criterion were exceeded for the following surrogates in J0806767001-002 due to matrix interference: Toluene-d8 and/or 4-Bromofluorobenzene. Both samples contained dark matrices.The error associated with an elevated recovery equates to a high bias. The quality of the sample data is not significantly affected, as internal recoveries were within acceptance criteria of the ICAL and are consistent with quality control samples. No further corrective action is required.

The upper control criterion was exceeded for the following surrogate in J0806679001 due to matrix interference: 4-Bromofluorobenzene. No target analytes were detected in the sample. The error associated with an elevated recovery equates to a high bias. The quality of the sample data is not significantly affected. The outlier surrogate is qualified accordingly. No further corrective action is required.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F. Samples:

G. Other:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Technical Director or his designee, as verified by the following signature, has authorized release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette:

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QCBatch: MSVJ/6543
Method: 8260BS
PrepMethod: 5035

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. PREPARATION

Sample preparation proceeded normally.

VI. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The upper control criterion were exceeded for the surrogates in several samples from project J0806767 and J086679002-003 due to matrix interference. The error associated with an elevated recovery equates to a high bias. The quality of the sample data is not significantly affected, as internal recoveries were within acceptance criteria of the ICAL and are consistant with quality control samples. No further corrective action is required.

D. Spikes: All acceptance criteria were met.

E. Internal Standard: All acceptance criteria were met.

F Samples: All acceptance criteria were met.

G. Other:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Technical Director or his designee, as verified by the following signature, has authorized release of the data contained in this hard copy data package and in the computer-readable data submitted on diskette: