



Osprey Environmental Engineering, LLC

146 East Main Street, Clinton, CT 06413

Phone: 860.669.8651

Mr. Scott Bartlett
Fairfield Public Works Department
1 Rod Highway
Fairfield, CT 06824

29 August 2016

Re: Fairfield DPW Yard Pond Monitoring Report 2016 Q3, 1 Rod Highway, Fairfield, CT

Osprey Environmental Engineering LLC (Osprey) has completed sampling for the pond discharge adjacent to the above referenced site. A surface water sample was collected from the pond discharge (location shown on attached map) during an outgoing tide on 29 July 2016 to assess potential surface water quality impacts due to operations at the adjoining facility. The sample was submitted to Complete Environmental Testing Laboratories (CET) in Stratford, CT for analysis for EPA Method 8270D polynuclear aromatic hydrocarbons (PNAs) and EPA Methods 7470A/200.7 RCRA8 metals. These components were chosen for analysis based on the potential constituents of concern – petroleum products associated with asphalt fragments/millings, and metals associated with street sweepings. The following table summarizes the analyses with reference to the Connecticut Department of Energy & Environmental Protection (DEEP) Remediation Standards Regulations (RSRs). The RSRS are the commonly accepted reference for comparison of concentrations of chemical constituents with respect to the environment and human health considerations.

COMPOUND (ug/l)	SWPC Criteria	Sample FDPW	COMPOUND (ug/l)	SWPC Criteria	Sample FDPW
Acenaphthylene	0.3	ND	2-Methyl naphthalene	NE	ND
Anthracene	1100000	ND	Naphthalene	NE	ND
Benzo(a)anthracene	0.3	ND	Phenanthrene	0.077	ND
Benzo(a)pyrene	0.3	ND	Pyrene	110000	ND
Benzo(b)fluoranthene	0.3	ND	Arsenic	4	ND
Benzo(g,h,i)perylene	NE	ND	Barium	NE	ND
Benzo(k)fluoranthene	0.3	ND	Cadmium	6	ND
Chrysene	NE	ND	Chromium	1200	ND
Dibenzo(a,h)anthracene	NE	ND	Lead	13	ND
Fluoranthene	3700	ND	Mercury	0.4	ND
Fluorene	140000	ND	Selenium	50	ND
Indeno(1,2,3-cd)pyrene	NE	ND	Silver	12	ND

ND – not detected above the laboratory analytical threshold; NE – standard not established under the RSRs

SWPC – DEP RSR Surface Water Protection Criteria

None of the components for which analyses were conducted were present above the laboratory analytical threshold. Should you have any questions regarding the above, please contact the undersigned.

Sincerely,
Osprey Environmental Engineering, LLC.

Robert J. Grabarek, P.E., L.S., LEP
President



Osprey Environmental Engineering, LLC
146 East Main Street
Clinton, Connecticut

FIGURE 1
Sample Location

1 Rod Highway
Fairfield, CT

Date: April 2016

Scale: NTS



Client: Mr. Robert Grabarek
Osprey Enviromental
146 East Main St
Clinton, CT 06413

Analytical Report

CET# 6070661

Report Date: August 08, 2016
Project: Fairfield
Project Number: Fairfield Pond

Connecticut Laboratory Certificate: PH 0116
Massachusetts laboratory Certificate: M-CT903



New York Certification: 11982
Rhode Island Certification: 199

CET #: 6070661
Project: Fairfield
Project Number: Fairfield Pond

SAMPLE SUMMARY

The sample(s) were received at 25.3°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
FP1	6070661-01	Water	7/29/2016 9:00	07/29/2016

Analyte: Mercury [EPA 245.2]

Analyst: KP

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6070661-01	FP1	ND	0.00020	mg/L	1	B6H0421	08/04/2016	08/04/2016 14:18	

CET #: 6070661
 Project: Fairfield
 Project Number: Fairfield Pond

Client Sample ID FP1

Lab ID: 6070661-01

Total Metals

Analyst: SS

Method: EPA 200.7

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.013	1	EPA 3005A	B6H0202	08/02/2016	08/02/2016 16:50	
Selenium	ND	0.010	1	EPA 3005A	B6H0202	08/02/2016	08/02/2016 16:50	
Cadmium	ND	0.0050	1	EPA 3005A	B6H0202	08/02/2016	08/02/2016 16:50	
Chromium	ND	0.050	1	EPA 3005A	B6H0202	08/02/2016	08/02/2016 16:50	
Arsenic	ND	0.0040	1	EPA 3005A	B6H0202	08/02/2016	08/02/2016 16:50	
Barium	ND	0.050	1	EPA 3005A	B6H0202	08/02/2016	08/02/2016 16:50	
Silver	ND	0.012	1	EPA 3005A	B6H0202	08/02/2016	08/02/2016 16:50	

Semivolatile Organics By SIM

Analyst: ALB

Method: EPA 8270D

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Naphthalene	ND	1.0	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
2-Methyl Naphthalene	ND	1.0	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Acenaphthylene	ND	0.30	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Acenaphthene	ND	1.0	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Fluorene	ND	1.0	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Phenanthrene	ND	0.077	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Anthracene	ND	1.0	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Fluoranthene	ND	1.0	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Pyrene	ND	1.0	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Benzo[a]anthracene	ND	0.060	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Chrysene	ND	0.50	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Benzo[b]fluoranthene	ND	0.080	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Benzo[k]fluoranthene	ND	0.30	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Benzo[a]pyrene	ND	0.20	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Indeno[1,2,3-cd]pyrene	ND	0.20	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Dibenz[a,h]anthracene	ND	0.20	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
Benzo[g,h,i]perylene	ND	0.40	1	EPA 3510C	B6H0203	08/02/2016	08/05/2016 14:24	
<i>Surrogate: Nitrobenzene-d5</i>	54.8 %	30 - 130			B6H0203	08/02/2016	08/05/2016 14:24	
<i>Surrogate: 2-Fluorobiphenyl</i>	53.4 %	30 - 130			B6H0203	08/02/2016	08/05/2016 14:24	

CET #: 6070661
Project: Fairfield
Project Number: Fairfield Pond

Client Sample ID FP1

Lab ID: 6070661-01

Semivolatile Organics By SIM

Method: EPA 8270D

Analyst: ALB

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Terphenyl-d14</i>	68.0 %		30 - 130		B6H0203	08/02/2016	08/05/2016 14:24	

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,



David Ditta
Laboratory Director

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at the specified detection limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

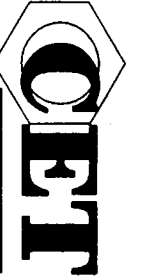
CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 200.7 in Water</i>	
Lead	CT,MA,NY,RI
Selenium	CT,MA,NY,RI
Cadmium	CT,MA,NY,RI
Chromium	CT,MA,NY,RI
Arsenic	CT,MA,NY,RI
Barium	CT,NY
Silver	CT,MA,NY,RI
<i>EPA 245.2 in Water</i>	
Mercury	CT,MA,RI
<i>EPA 8270D in Water</i>	
Naphthalene	CT,NY
2-Methyl Naphthalene	CT,NY
Acenaphthylene	CT,NY
Acenaphthene	CT,NY
Fluorene	CT,NY
Phenanthrene	CT,NY
Anthracene	CT,NY
Fluoranthene	CT,NY
Pyrene	CT,NY
Benzo[a]anthracene	CT,NY
Chrysene	CT,NY
Benzo[b]fluoranthene	CT,NY
Benzo[k]fluoranthene	CT,NY
Benzo[a]pyrene	CT,NY
Indeno[1,2,3-cd]pyrene	CT,NY
Dibenz[a,h]anthracene	CT,NY
Benzo[g,h,i]perylene	CT,NY

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2016
MA	Massachusetts Laboratory Certification	M-CT903	06/30/2016
NY	New York Certification (NELAC)	11982	04/01/2016
RI	Rhode Island Certification	LAO 00227	09/30/2016



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client: **CET**

Additional Analysis

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com
Bottle Request e-mail: bottleorders@cetlabs.com

Sample ID	Sample Depths (Units)	Collection Date/Time	Matrix				Turnaround Time ** (check one)
			A-Air	S-Soil	W-Water	DM-Drinking Water	
FP1		11.25.16 9:00A					Same Day * Next Day * 2-3 Days * Std (5-7 Days)

Organics	Metals (check all that apply)	Additional Analysis
8260 CT List		
8260 Aromatics		
8260 Halogens		
624		
CT ETPH		
8270 CT List		
8270 PNAs		
PCBs		
Pesticides		
13 Priority Poll		
8 RCRA		
TOTAL		
TCLP		
SPLP		
Field Filtered		
Lab To Filter		
TOTAL # OF CONT.		2
NOTE #		

RESERVATIVE (Cl-HCl, N-HNO₃, S-H₂SO₄, Na-NaOH, C-Cool, O-Other)

CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)

Soil VOCs Only (M=MeOH B=Sodium B=Butylate W=Water F=Empty E=Encore)

RELINQUISHED BY: *[Signature]* DATE/TIME: 7-29-16 RECEIVED BY: *[Signature]*

RELINQUISHED BY: *[Signature]* DATE/TIME: 11:13 AM RECEIVED BY: *[Signature]*

RELINQUISHED BY: DATE/TIME RECEIVED BY:

Client / Reporting Information

Company Name: *OSPEY*

Address: _____

City: _____ State: _____ Zip: _____

Report To: _____ E-mail: _____

Phone #: _____ Fax #: _____

Project Information

Project Contact: *[Signature]* PO #: _____

Project: *FAIRFIELD POND* Project #: _____

Location: *FAIRFIELD, CT* Collector(s): *[Signature]*

QA/QC: Std Site Specific (MS/MSD) * RCP Pkg * DQAW *

Data Report PDF EDD - Specify Format _____ Other _____

RSR Reporting Limits (check one) GA GB SWP Other _____

Laboratory Certification Needed (check one) CT NY RI MA

Temp Upon Receipt: *25.3* Evidence of Cooling: N SHEET *1* OF *1*

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. REV: 08/14