



# OSPREY ENVIRONMENTAL ENGINEERING, LLC.

146 EAST MAIN STREET . CLINTON, CT 06413

PHONE: 860.669.8651

Mr. Scott Bartlett, Superintendent, Director of Public Works Operations  
Fairfield Department of Public Works  
725 Old Post Road  
Fairfield, CT 06824

21 May 2018

Re: Soils Sampling, Grids K3-M3, N1, O1, PS5-7 Revised  
Aggregate Recycling Yard Berm Project, Fairfield, CT  
Collection date: 17 May 2018

Per your request, samples of soils from the above delineated site grids were collected to determine concentrations of constituents of concern (COCs) related to available environmental and health & safety standards and guidelines. Samples were composited from each grid and were collected in new glassware supplied by the laboratory and stored in compliance with standard sample preservation procedures. The composite samples were submitted to Complete Environmental Testing, Inc., a Connecticut Certified Laboratory. Samples were compared to the DEEP Remediation Standards Regulations (RSRs) Direct Exposure Criteria (DEC) for environmental consideration. Samples were analyzed for PCBs, ETPH, arsenic, and lead. Samples were also analyzed for total mercury. The following is a comparison of the results of the analyses to their respective evaluation criteria.

**Sample Summary Table**

COMPOUND	ETPH	Arsenic	Lead	Mercury	PCBs
(Residential/Industrial & Commercial) mg/kg	500/2500	10/10	400/1000	20/610	1/10
Grid K3	<i>1800</i>	3.0	51	ND<0.15	ND<0.11
Grid L3	<i>1600</i>	3.5	22	ND<0.13	ND<0.11
Grid M3	<i>2100</i>	5.8	47	ND<0.14	ND<0.11
Grid N1	<i>830</i>	2.8	34	0.28	ND<0.12
Grid O1	<i>1600</i>	4.0	29	ND<0.14	ND<0.11
Grid PS5	<i>1300</i>	2.5	52	ND<0.13	0.25
Grid PS6	<i>1600</i>	3.0	39	ND<0.14	0.46
Grid PS7	<i>1100</i>	2.7	51	ND<0.14	0.31

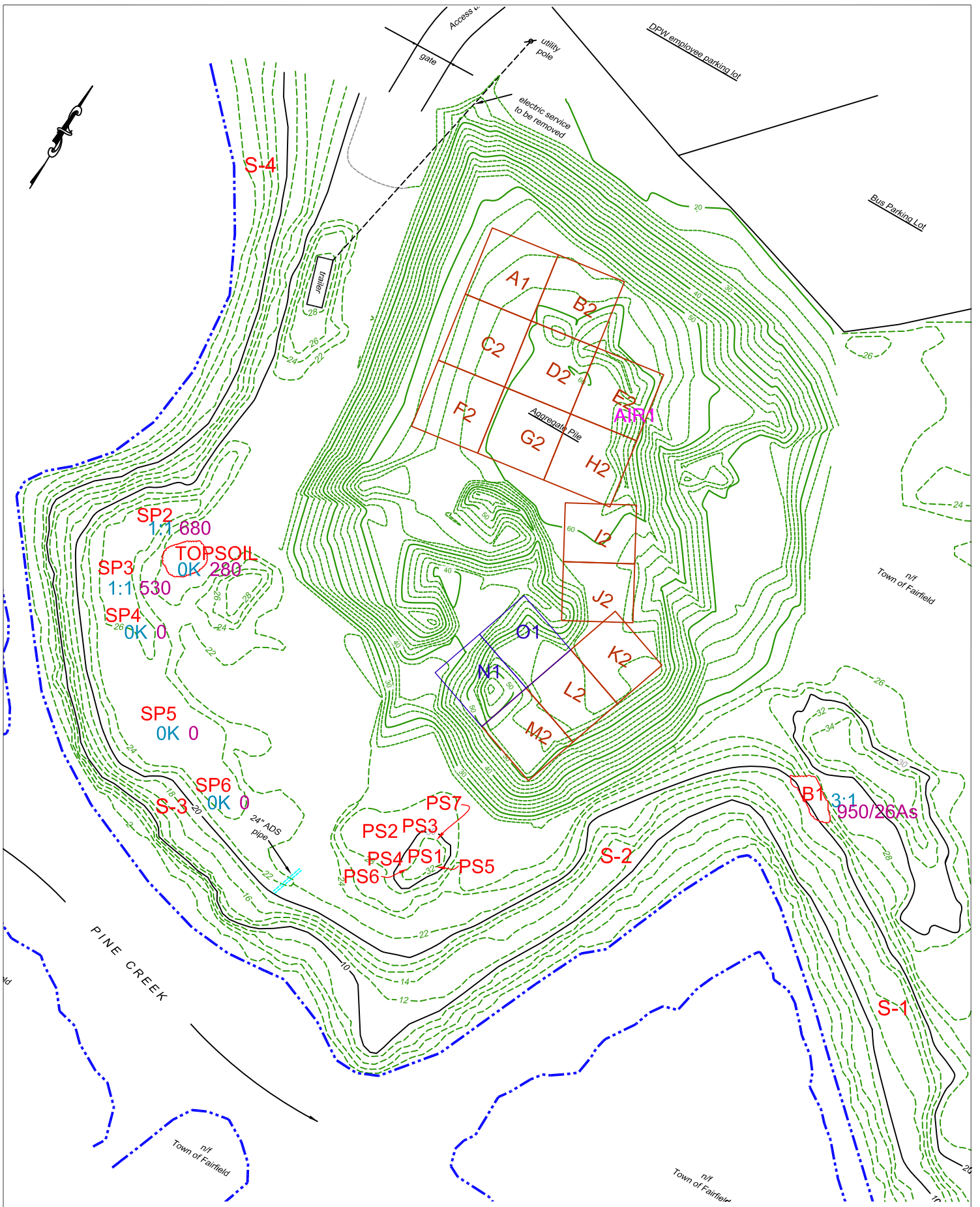
*Green* is above the Residential DEC *Blue* is above the Residential & Industrial/Commercial DEC

The Grid samples all had ETPH above the Residential DEC most likely due to the presence of asphalt fragments. PCBs, arsenic and lead were all below the Residential and the Industrial/Commercial DEC.

Should you have any questions regarding the above, please contact me.

Sincerely,  
**Osprey Environmental Engineering, LLC.**

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



**A-3**

**AGGREGATE YARD SOIL SAMPLES**  
**DEPARTMENT OF PUBLIC WORKS FACILITY**  
**90 ROD HIGHWAY, FAIRFIELD, CT**

**OSPREY**  
**ENVIRONMENTAL ENGINEERING, LLC**  
 146 East Main Street  
 Clinton, CT 06413  
 Phone (860) 669-8651



**DRAWN BY: RJC**  
**SCALE: 1"=100'**  
**DATE: 05.15.18**  
**REVISIONS:**

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

# Analytical Report

## CET# 8050629



Report Date: May 21, 2018  
Project: Fairfield

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



New York NELAP Accreditation: 11982  
Rhode Island Certification: 199

**SAMPLE SUMMARY**

The sample(s) were received at 17.8°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
PS5	8050629-01	Soil	5/17/2018 8:45	05/17/2018
PS6	8050629-02	Soil	5/17/2018 8:45	05/17/2018
PS7	8050629-03	Soil	5/17/2018 8:45	05/17/2018
N1	8050629-04	Soil	5/17/2018 8:45	05/17/2018
O1	8050629-05	Soil	5/17/2018 8:45	05/17/2018
K3	8050629-06	Soil	5/17/2018 8:45	05/17/2018
L3	8050629-07	Soil	5/17/2018 8:45	05/17/2018
M3	8050629-08	Soil	5/17/2018 8:45	05/17/2018

**Analyte: Percent Solids [SM 2540 G]****Analyst: SFJ****Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
8050629-01	PS5	<b>86</b>	1.0	%	1	B8E1838	05/18/2018	05/21/2018 08:32	
8050629-02	PS6	<b>89</b>	1.0	%	1	B8E1838	05/18/2018	05/21/2018 08:32	
8050629-03	PS7	<b>86</b>	1.0	%	1	B8E1838	05/18/2018	05/21/2018 08:32	
8050629-04	N1	<b>84</b>	1.0	%	1	B8E1838	05/18/2018	05/21/2018 08:32	
8050629-05	O1	<b>88</b>	1.0	%	1	B8E1838	05/18/2018	05/21/2018 08:32	
8050629-06	K3	<b>88</b>	1.0	%	1	B8E1838	05/18/2018	05/21/2018 08:32	
8050629-07	L3	<b>89</b>	1.0	%	1	B8E1838	05/18/2018	05/21/2018 08:32	
8050629-08	M3	<b>87</b>	1.0	%	1	B8E1838	05/18/2018	05/21/2018 08:32	

**Analyte: Mercury [EPA 7471B]****Analyst: SFJ****Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
8050629-01	PS5	ND	0.15	mg/kg dry	1	B8E1813	05/18/2018	05/21/2018 07:55	
8050629-02	PS6	ND	0.13	mg/kg dry	1	B8E1813	05/18/2018	05/21/2018 07:58	
8050629-03	PS7	ND	0.14	mg/kg dry	1	B8E1813	05/18/2018	05/21/2018 08:01	
8050629-04	N1	<b>0.28</b>	0.14	mg/kg dry	1	B8E1813	05/18/2018	05/21/2018 08:03	
8050629-05	O1	ND	0.14	mg/kg dry	1	B8E1813	05/18/2018	05/21/2018 08:06	
8050629-06	K3	ND	0.13	mg/kg dry	1	B8E1813	05/18/2018	05/21/2018 08:09	
8050629-07	L3	ND	0.14	mg/kg dry	1	B8E1813	05/18/2018	05/21/2018 08:12	
8050629-08	M3	ND	0.14	mg/kg dry	1	B8E1813	05/18/2018	05/21/2018 08:15	

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

Sincerely,

This technical report was reviewed by Robert Blake



David Ditta  
Laboratory Director



Project Manager

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.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

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 or above the specified reporting limit

RL is the Reporting Limit.

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

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

CET # : 8050629

Project: Fairfield

**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA 7471B in Soil</i>	
Mercury	CT,NY
<i>SM 2540 G in Soil</i>	
Percent Solids	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2018
NY	New York Certification (NELAC)	11982	04/01/2019

**Courtney Cattaruzza**

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**From:** Jacqueline M. Bakos  
**Sent:** Friday, May 18, 2018 11:01 AM  
**To:** Courtney Cattaruzza  
**Subject:** Fwd: Fairfield aggregate yard sample

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**From:** captain1marlowe@gmail.com <captain1marlowe@gmail.com> on behalf of Robert Grabarek <bobg@ospreyee.com>  
**Sent:** Friday, May 18, 2018 10:50:45 AM  
**To:** Jacqueline M. Bakos  
**Subject:** Fairfield aggregate yard sample

Jackie

I dropped off some samples for Fairfield on 05/17. Can you have the report issued this pm as planned but add Hg to the sample analyses and send off a revised report next week? Turnaround time 2 days. Thanks.

Bob

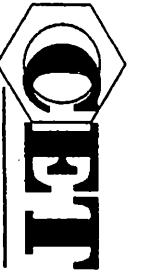
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Robert Grabarek  
Osprey Environmental Engineering  
[Bobg@ospreyee.com](mailto:Bobg@ospreyee.com)  
860 669 8651





8050629



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

Matrix:  
A-Air  
S-Soil  
W-Water  
Dix-Drinking  
C-Cassette  
Solid  
Wipe  
Other (Specify)

Turnaround Time \*\*  
(check one)  
Same Day \*  
Next Day \*  
Two Day \*  
Three Day \*  
Std (5-7 Days)

8260 CT List  
8260 Aromatics  
8260 Halogens  
CT ETPH  
8270 CT List  
8270 PNAs  
PCBs  SOX  ASE  
Pesticides  
8 RCRA  
13 Priority Poll  
15 CT DEP  
Metals  
Total  
SPLP  
TCLP  
Dissolved  
Field Filtered  
Lab to Filter

TOTAL # OF CONT.  
NOTE #

Sample ID/Sample Depths (Include Units for any sample depths provided)	Collection Date/Time	Matrix	Turnaround Time	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs	SOX	ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Metals	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Additional Analysis
PS5	5/17/18 8:15A	S					X			X														
PS6																								
PS7																								
K3																								
L3																								
M3																								

PRESERVATIVE (Cl-HCl, N-HNO<sub>3</sub>, S-H<sub>2</sub>SO<sub>4</sub>, Na-NaOH, C-Cool, O-Other)

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

Soil VOCs Only (M-MeOH B-Bisulfate W-Water F-Filtrate E-Encore)

RELINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

RELINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

RELINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

### Client / Reporting Information

Company Name: OSMEY

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Report To: \_\_\_\_\_ E-mail: \_\_\_\_\_

Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

### Project Information

Project: \_\_\_\_\_ PO #: \_\_\_\_\_

Location: \_\_\_\_\_ Project #: \_\_\_\_\_

CET Quote # \_\_\_\_\_ Collector(s): \_\_\_\_\_

QA/QC  Std  Site Specific (MISMISD) \*  RCP Pkg \*  DOAW \*

Data Report  PDF  EDD - Specify Format \_\_\_\_\_ Other \_\_\_\_\_

RSH Reporting Limits (check one)  GA  GB  SWP  Other \_\_\_\_\_

Laboratory Certification Needed (check one)  CT  NY  RI  MA

Temp Upon Receipt: 17.8 °C Evidence of Cooling:  N  Y

PAGE \_\_\_\_\_ OF \_\_\_\_\_

FOR FRIDAY PM

NOTES:

\* 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. All samples picked up by courier service will be considered next business day receipt for TAT purposes.