



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

24 May 2018

Re: Soils Sampling, Topsoil Mix TS2
Aggregate Recycling Yard Berm Project, Fairfield, CT
Collection date: 25 May 2018

Per your request, a samples of soil from the topsoil mixture pile was collected to determine concentrations of constituents of concern (COCs) related to available environmental and health & safety standards and guidelines. The topsoil pile was created by mixing biosolids, wood mulch, and street sweepings. The sample was composited, was collected in new glassware supplied by the laboratory and was stored in compliance with standard sample preservation procedures. It was submitted to Complete Environmental Testing, Inc., a Connecticut Certified Laboratory and was analyzed for PCBs, ETPH, arsenic, mercury, and lead. Results were compared to the DEEP Remediation Standards Regulations (RSRs) Direct Exposure Criteria (DEC) for environmental consideration. 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
Topsoil TS2	320	4.6	38	ND<0.16	ND<0.13

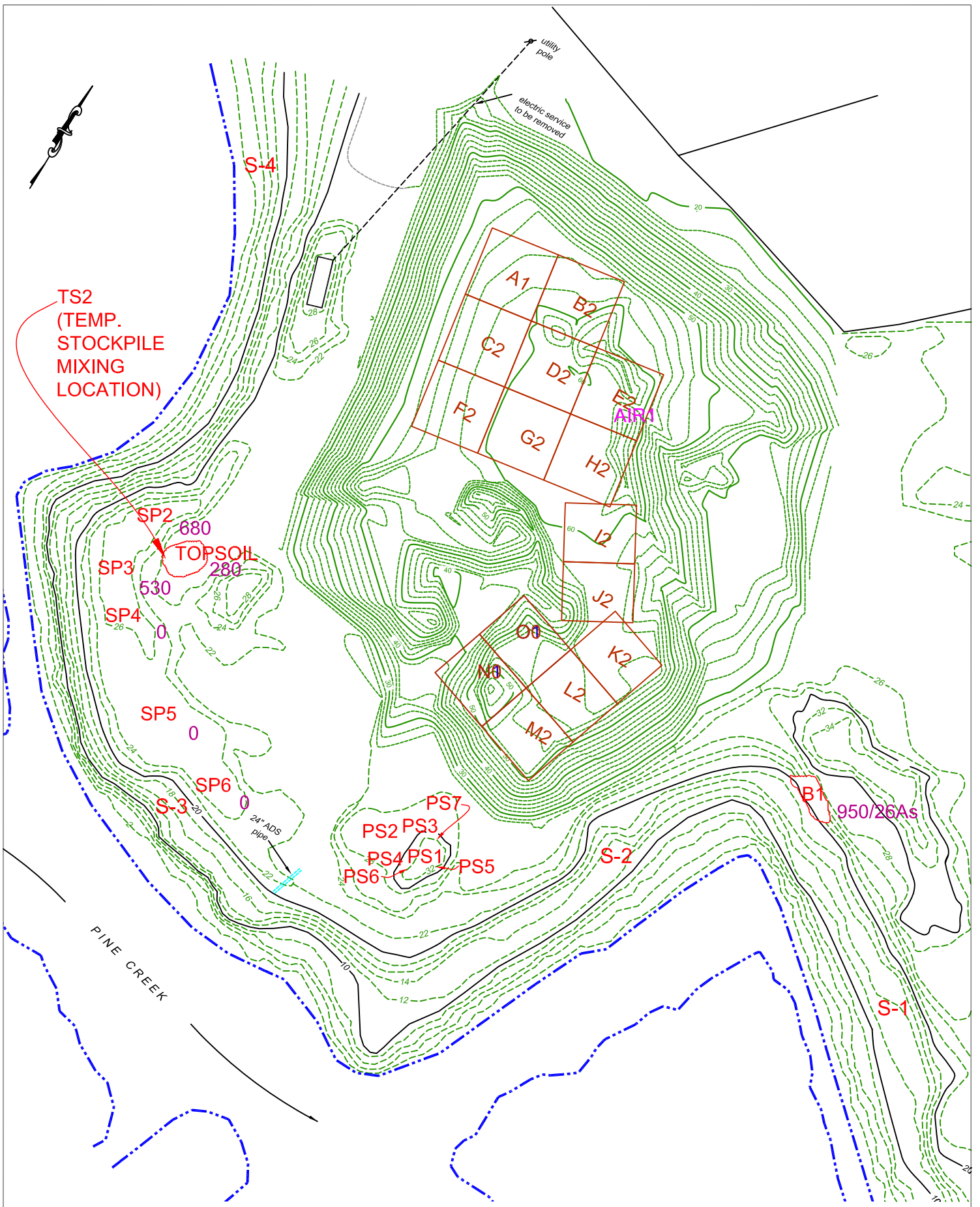
Green is above the Residential DEC *Blue* is above the Residential & Industrial/Commercial DEC

All COCs were below the the Residential and the Industrial/Commercial DEC numerical criteria.

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

Sincerely,
Osprey Environmental Engineering, LLC.

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



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

Analytical Report

CET# 8050861



Report Date: May 29, 2018
Project: Fairfield

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



New York NELAP Accreditation: 11982
Rhode Island Certification: 199

CET #: 8050861

Project: Fairfield

SAMPLE SUMMARY

The sample(s) were received at 31.5°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
TS2	8050861-01	Soil	5/25/2018 12:00	05/25/2018

Analyte: Percent Solids [SM 2540 G]

Analyst: AMA

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
8050861-01	TS2	76	1.0	%	1	B8E2553	05/25/2018	05/29/2018 00:00	

Analyte: Mercury [EPA 7471B]

Analyst: SFJ

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
8050861-01	TS2	ND	0.16	mg/kg dry	1	B8E2516	05/25/2018	05/25/2018 15:10	

Analyte: Total Lead [EPA 6010C]

Analyst: SS

Prep: EPA 3051A

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
8050861-01	TS2	38	2.6	mg/kg dry	1	B8E2549	05/25/2018	05/29/2018 10:27	

Analyte: Total Arsenic [EPA 6010C]

Analyst: SS

Prep: EPA 3051A

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
8050861-01	TS2	4.6	1.3	mg/kg dry	1	B8E2549	05/25/2018	05/29/2018 10:27	

CET #: 8050861

Project: Fairfield

Client Sample ID TS2

Lab ID: 8050861-01

Conn. Extractable TPH

Analyst: MJH

Method: CT-ETPH

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	320	64	1	EPA 3550C	B8E2551	05/25/2018	05/25/2018 18:16	R
<i>Surrogate: Octacosane</i>	77.5 %		50 - 150		B8E2551	05/25/2018	05/25/2018 18:16	
R C18-C36 unknown								

PCBs by ASE

Analyst: MPC

Method: EPA 8082A

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.13	1	EPA 3545A	B8E2546	05/25/2018	05/29/2018 07:37	
PCB-1221	ND	0.13	1	EPA 3545A	B8E2546	05/25/2018	05/29/2018 07:37	
PCB-1232	ND	0.13	1	EPA 3545A	B8E2546	05/25/2018	05/29/2018 07:37	
PCB-1242	ND	0.13	1	EPA 3545A	B8E2546	05/25/2018	05/29/2018 07:37	
PCB-1248	ND	0.13	1	EPA 3545A	B8E2546	05/25/2018	05/29/2018 07:37	
PCB-1254	ND	0.13	1	EPA 3545A	B8E2546	05/25/2018	05/29/2018 07:37	
PCB-1260	ND	0.13	1	EPA 3545A	B8E2546	05/25/2018	05/29/2018 07:37	
PCB-1268	ND	0.13	1	EPA 3545A	B8E2546	05/25/2018	05/29/2018 07:37	
PCB-1262	ND	0.13	1	EPA 3545A	B8E2546	05/25/2018	05/29/2018 07:37	
<i>Surrogate: TCMX [1C]</i>	109 %		30 - 150		B8E2546	05/25/2018	05/29/2018 07:37	
<i>Surrogate: TCMX [2C]</i>	111 %		30 - 150		B8E2546	05/25/2018	05/29/2018 07:37	
<i>Surrogate: DCB [1C]</i>	87.9 %		30 - 150		B8E2546	05/25/2018	05/29/2018 07:37	
<i>Surrogate: DCB [2C]</i>	89.3 %		30 - 150		B8E2546	05/25/2018	05/29/2018 07:37	

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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>CT-ETPH in Soil</i>	
ETPH	CT
<i>EPA 6010C in Soil</i>	
Lead	CT,NY
Arsenic	CT,NY
<i>EPA 7471B in Soil</i>	
Mercury	CT,NY
<i>EPA 8082A in Soil</i>	
PCB-1016	CT,NY
PCB-1221	CT,NY
PCB-1232	CT,NY
PCB-1242	CT,NY
PCB-1248	CT,NY
PCB-1254	CT,NY
PCB-1260	CT,NY
PCB-1268	CT,NY
PCB-1262	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



8050861



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
(Include Units for any sample depths provided)

Collection Date/Time

Matrix
A=Air S=Soil W=Water
D=Drinking Water
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
Total
SPLP
TCLP
Dissolved
Field Filtered
Lab to Filter

Metals
TOTAL # OF CONT.
NOTE #

TSZ

5/25/18 12:00p S

PRESERVATIVE (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=Bisulfate Sodium W=Water F=Vial E=Encore)

REMOVED BY: DATE/TIME RECEIVED BY: MARY OBLAST 5/25/18 12:05
RELINQUISHED BY: DATE/TIME RECEIVED BY:

RELINQUISHED BY: DATE/TIME RECEIVED BY:

Client / Reporting Information

Company Name: O'SPREY

Address: State: ZIP:

Report To: E-mail:

Phone # Fax #

NOTES:

For Tues. Mornings

Project Information

Project: FAIRFIELD PO #:

Location: AY

CET Quote # Collector(s):

QA/QC Sid 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 31.5 °C Evidence of Cooling: Y N PAGE 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. All samples picked up by courier service will be considered next business day receipt for TAT purposes.