222 South 9th Street
Minneapolis, MN 55402
Phone: 860.932.3086
E-mail: steve.broyer@ecosrenewable.com
November 11, 2020

Melanie A. Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Petition No. 1323 – Development & Management Plan Modification and Deadline Extension

Dear Melanie:

On January 18th, 2018 the Connecticut Siting Council ("Council") ruled that petition 1323 submitted by Windham Solar LLC ("Windham") for (3) 2.0 MW AC and (2) 1.0 MW AC (8MW AC in total) solar photovoltaic electrical generation facilities located off Bilton Road in Somers, Connecticut met the air and water quality standards of the Department of Energy and Environmental Protection, and would not have an substantial adverse environmental affect. On November 8th, 2018 the Council then approved the Development and Management ("D&M") Plan submitted for some of the facilities. The D&M plan approval requires that Windham provide the number of solar panels, final inverter design and electrical interconnection information for constructed projects, and results of any soil surveys conducted on site for the Phase II Environmental.

This letter requests an extension of the construction deadline for the unconstructed facilities and provides the information related to the number of the solar modules per generating facility, final inverter design and electrical interconnection for the constructed facilities. It also includes the results of soil surveys conducted on site for the Phase II Environmental review.

When Petition 1323 was submitted to the Council for the declaratory ruling, Windham was estimating the facility sizes and the Renewable Energy Contracts ("REC") for the site. Since the approval of the D&M plan Windham has designed and constructed (3) 1.0 MW AC facilities on the site and is currently constructing (1) 2.0 MW AC facility. Another (1) 2.0 MW facility is slated for construction in the Spring/Summer of 2021. An overall site plan of the separate facilities has been attached as *[Exhibit A - Overall Site Plan - 10-27-20]*. Windham Solar is requesting that the approved declaratory ruling for the site be revised from (3) 2.0 MW AC and (2) 1.0 MW AC to (2) 2.0 MW AC and (4) 1.0 MW AC facilities.

The initial (3) 1.0 MW AC facilities are Blair, Madison and Few Solar. Construction began in the Fall of 2019 and continued through the spring of 2020, with the three facilities achieving permission to operate in March of 2020 from Eversource Energy. Each 1.0 MW AC project contains 3,000, 400W solar modules, for a DC size of 1,200,000 Watts, at a 1.2 AC/DC ratio. The projects are utilizing six ABB 166.6 kW string inverters per facility. Pertinent documents from the electrical design plans are attached as *[Exhibit B - Blair Madison Few Solar - Electrical.pdf]*.

One 2.0 MW AC facility is currently under construction. The remaining future projects are expected to begin construction in 2021. Additional information pertaining to the final electrical design of those projects will be submitted to the Council when completed.

The construction deadline for Petition 1323 is January of 2021. Given the timeline presented Windham is requesting an extension of the construction deadline for the projects that are not in operation to April 1, 2022, which is the current delivery term start date under the ZREC/LREC contracts for those projects. Upon completion of construction of the projects, Windham solar will submit a vegetative maintenance plan. Until construction completion the site groundcover and maintenance will be maintained under the requirements of the Construction General permit, and the SWPCP.

Windham submitted a Phase 1 ESA with the initial petition submission in 2017. Since that time Windham has performed additional subsurface explorations. On May 21st, 2018, a phase 2 ESA was prepared for locations identified in the phase 1 and is attached as *[Exhibit C – Bilton – Phase 2 Report.pdf]*. Several areas were recommended to be remediated due to the findings in the Phase 2. Windham has performed the appropriate remediation, and on November 21, 2019, NorthStar Environmental Management, LLC issued a Phase 3 Report outlining the remediation steps and soil sampling preformed during the remediation and is attached as *[Exhibit D - Bilton - Environmental Phase III Report - 11.25.19]*. Windham has performed the appropriate steps to ensure that the site was cleaned, and will continue to monitor the location, as recommended in the Phase 3.

Please consider this updated information and review and respond the minor revision requests to the granted approvals of Petition 1323.

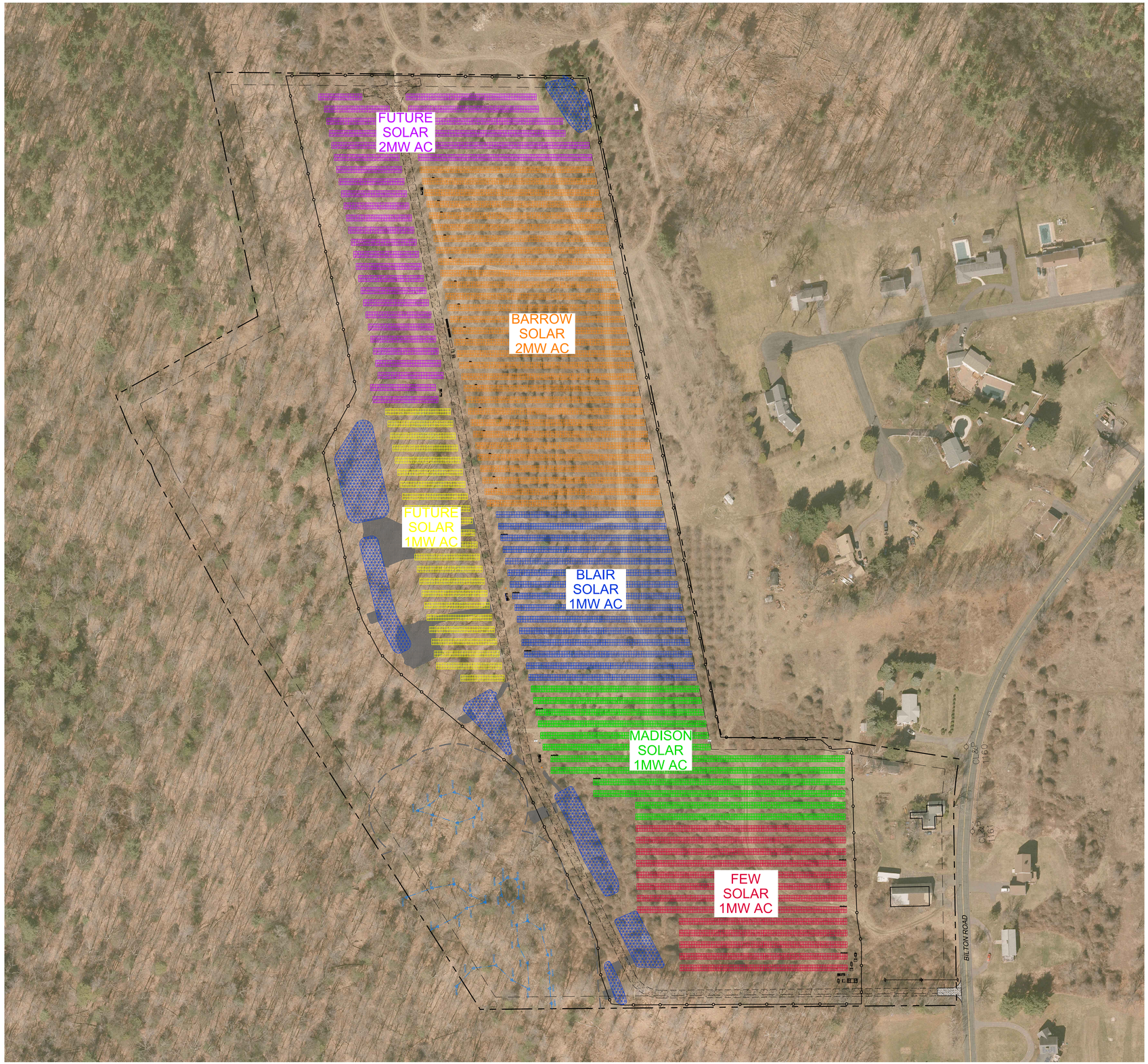
Thank you,

Steven J. Broyer

Exhibit A

Overall Site Plan

11-4-20



ecos
ENERGY
222 SOUTH 9TH STREET
SUITE 1600
MINNEAPOLIS, MN 55402

50' 0 50' 100'
SCALE: 1"=50'

PETITION No #1323

CSC D&M OVERALL SITE PLAN

11 - 4 - 20

Exhibit B

Blair Madison Few Solar

Electrical

Bilton Design Summary

Project AC Capacity:		2997 kW-AC
Project DC Capacity:		3600kW-DC

	INVERTER				MODULE RACK		MODULE			ARRAY								
	Block #	MAKE	MODEL	KW/KVA	MAKE	MODEL	MAKE	MODEL	WATTAGE (W)	QUANTITY OF MODULES PER STRING	QUANTITY OF STRINGS PER INVERTER	QUANTITY OF STRINGS	QUANTITY OF MODULES	QUANTITY OF INVERTERS	CAPACITY (kW-AC)	NAMEPLATE (kW-DC)	DC:AC RATIO	
	1	ABB	PVS-166-TL-US	166.5	RBI	25° FIX TILT	LG	LG400N2W	400	25	20	120	3000	6	999	1200.0	1.201	BLAIR
MADISON	2	ABB	PVS-166-TL-US	166.5	RBI	25° FIX TILT	LG	LG400N2W	400	25	20	120	3000	6	999	1200.0	1.201	
	3	ABB	PVS-166-TL-US	166.5	RBI	25° FIX TILT	LG	LG400N2W	400	25	20	120	3000	6	999	1200.0	1.201	FEW
											SITE TOTALS	360	9000	18	2997.00	3600.00	1.201	

Westwood

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Westwood Professional Services, Inc.

STATE OF CONNECTICUT
DOUGLAS A. MUTCHER
0029077
LICENSED PROFESSIONAL ENGINEER
July 19, 2019

PREPARED FOR:

ecos ENERGY
222 South 9th St., Suite 1600
Minneapolis, MN 55402

REVISIONS:

#	DATE	COMMENT
A	06/11/2019	90% SUBMITTAL

Bilton Solar
Somers, Connecticut

Project Design Summary

NOT FOR CONSTRUCTION

DATE: 06/11/2019

SHEET: E.106

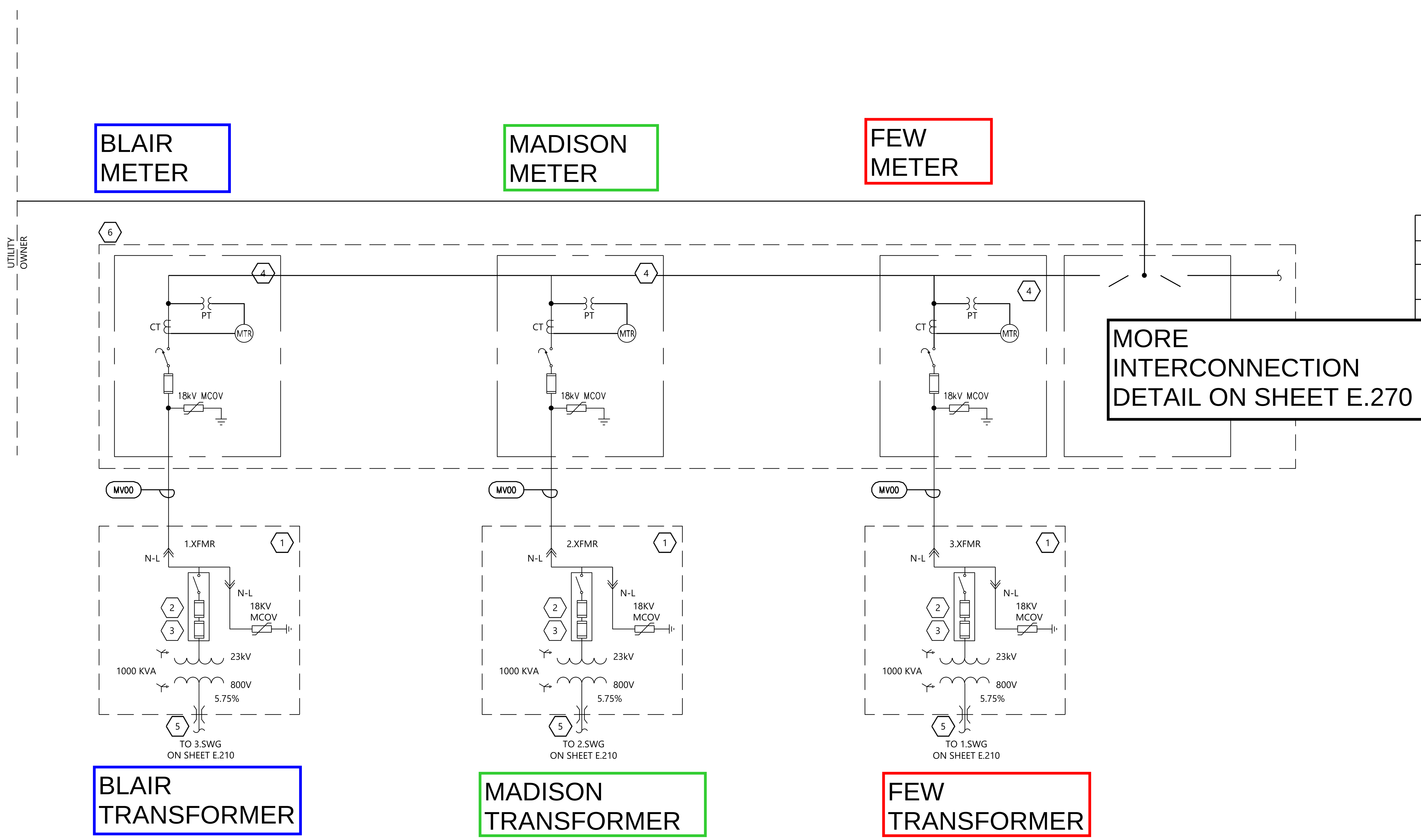
N:\0022867.00\dwg\Electrical\0022867-E.100 - Project information.dwg 7/19/2019 2:21 PM Jack Heun

NOTES:

1. PROVIDE EXTERNAL SURGE ARRESTERS AT TRANSFORMERS, ELBOW CONNECTED ON THE HIGH VOLTAGE SIDE OF TRANSFORMER WHERE SHOWN.
2. INSTALL ALL EQUIPMENT AND WIRING IN ACCORDANCE WITH THE NEC, NESC, AND ALL APPLICABLE REQUIREMENTS OF THE LOCAL UTILITY COMPANY AND LOCAL AUTHORITY HAVING JURISDICTION.
3. REFER TO SHEET E.103 MVAC EQUIPMENT LABELING REQUIREMENTS.
4. REFER TO SHEETS E.210 FOR LVAC SINGLE LINE DIAGRAM.
5. REFER TO SHEET E.220 FOR DC SINGLE LINE DIAGRAM
6. REFER TO SHEET E.800 FOR MVAC SCHEDULE.

KEY NOTES:

1. 1000 KVA, 23,000V GROUNDED WYE/800V GROUNDED WYE, Z=5.75%, 3 PHASE, 4W, 125KV BIL, TWO-WINDING PAD MOUNTED STEP-UP TRANSFORMER.
2. CURRENT LIMITING FUSE, RATING TBD.
3. EXPULSION FUSE, RATING TBD.
4. PAD MOUNTED DISCONNECT AND METER. UTILITY APPROVED MULTY FEEDER/METERED EQUIPMENT.
5. MAIN SWTICHGEAR AND TRANSFORMER TO BE CLOSE COUPLED WITH PROVIDED FLEX BUSS.
6. SINGLE PAD MOUNTED SWITCHGEAR TO BE SUBMITTED AND APPROVED BY UTILITY.



WIRING SCHEDULE

WIRING ID	NOTES
MV00	REFER TO MVAC SCHEDULES ON SHEET E.800 FOR CONDUCTOR SIZE AND SPECS.
OVHD00	REFER TO MVAC SCHEDULES ON SHEET E.800 FOR CONDUCTOR SIZE AND SPECS.

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Bilton Solar

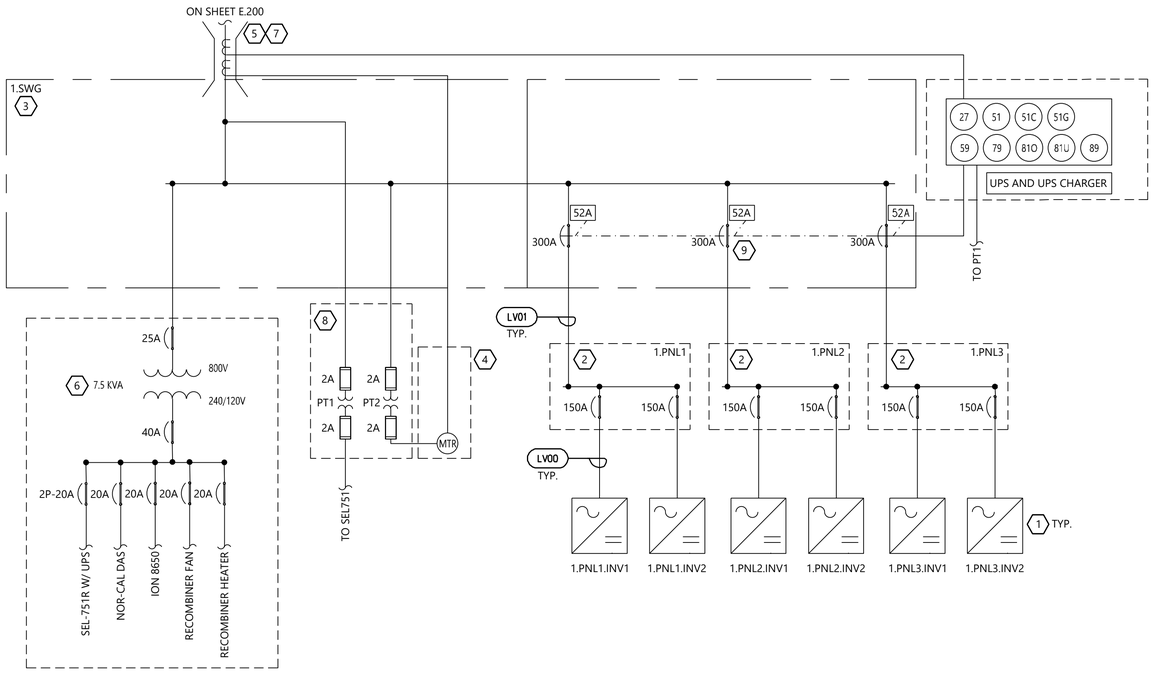
Somers, Connecticut

MVAC Oneline Diagram

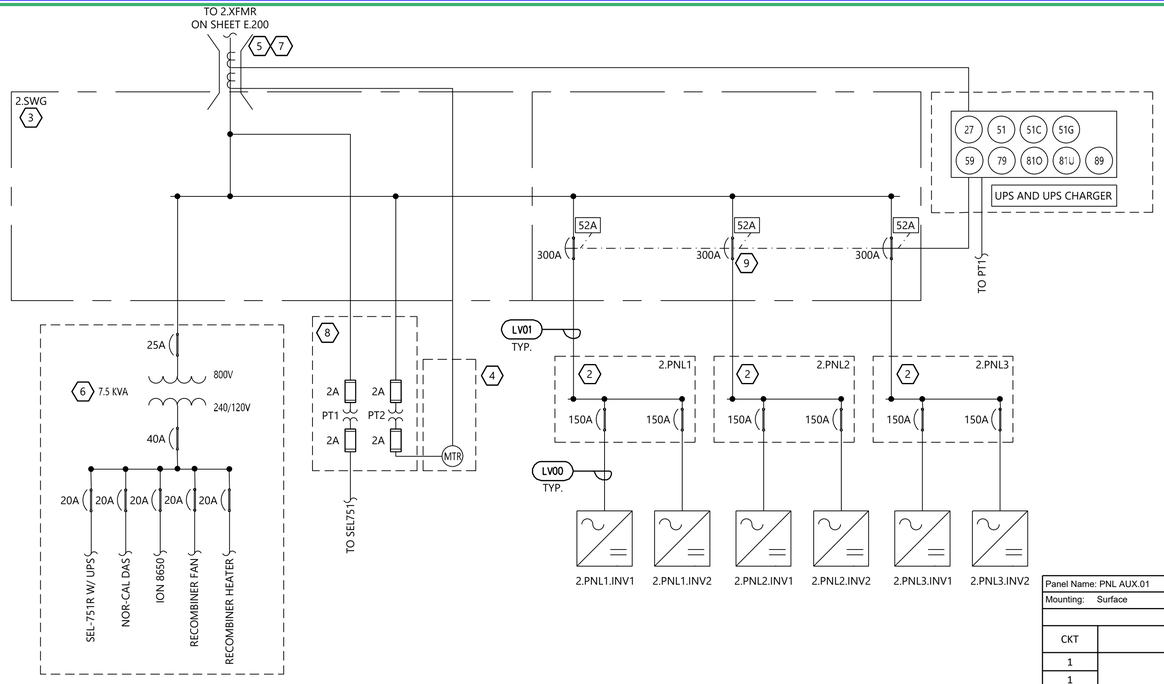
NOT FOR CONSTRUCTION

DATE: 06/11/2019

SHEET: E.200



1 Switchgear Single Line Diagram - 1.SWG



2 Switchgear Single Line Diagram - 2.SWG

Panel Name: PNL AUX.01			Voltage: 120/240			1 Phase	3Wire	Bus Rating (A): 60
Mounting: Surface			Main CB: YES			Main CB Rating (A) 40		
			Manufacturer/Model: General Electric					AIC Rating: 35KAIC
CKT		Load Description	Breaker	Connected Load (kVA)	Phase	Connected Load (kVA)	Breaker	Load Description	CKT
1		SEL-751R W/ UPS (240V)	20/2	1.00	A	1.00	20/1	SEL-751R W/ UPS (240V)	1
1			-		B	1.00	20/1	SEL-751R W/ UPS (240V)	1
2		Nor-Cal DAS	20/1	0.50	A	0.50	20/1	Nor-Cal DAS	2
3		ION 8650	20/1	0.50	A	0.50	20/1	ION 8650	3
4		Re-Combiner Fan	20/1	0.05	B	0.50	20/1	Re-Combiner Fan	4
5		Re-Combiner Heater	20/1	0.50	B	0.50	20/1	Re-Combiner Heater	5
			Total kVA	6.55					

BLAIR ONELINE

MADISON ONELINE

NOTES:

1. INSTALL ALL EQUIPMENT AND WIRING IN ACCORDANCE WITH THE NEC, NESC, AND ALL APPLICABLE REQUIREMENTS OF THE LOCAL UTILITY COMPANY AND LOCAL AUTHORITY HAVING JURISDICTION.
2. REFER TO SHEET E.103 FOR EQUIPMENT LABELING REQUIREMENTS.
3. REFER TO SHEETS E.200 FOR MVAC SINGLE LINE DIAGRAM.
4. REFER TO SHEET E.220 FOR DC SINGLE LINE DIAGRAM
5. REFER TO SHEET E.810 FOR LVAC SCHEDULE.

KEY NOTES:

1. STRING INVERTER: ABB PVS-166.5/175-TL
   - PVS-166.5-TL-POWER MODULE - 166500 Wac - 24 STRING, 12 MPPT (2 PER MPPT)
   - 1500 Vdc. 800Vac. DC SWITCHES. ARC FAULT. SPD TYPE 2 PLUGGABLE CARTRIDGES (DC&AC)
   - NEMA4X (NEMA3R FANS)
   - 5 YEAR WARRANTY FOR INSTALLATION WORLDWIDE
2. PANEL BOARD (AC COMBINER) : BACKFEED RATED, 800V, 400A, 3PH, 3W
   - (2) X 150A, 800V ABB BREAKERS
3. AC RECOMBINER: 2500A SWITCHBOARD, 3PH, 4W, 35k AIC BACKFEED RATED. 3 BREAKER (3x300A), 3P3W
   - 800V SHUNT TRIP BREAKERS W/POSITION CONTACTS.
   - NEMA 3R WIREWAY BETWEEN XFMR AND SWITCHBOARD. HEATER & FAN.
4. ION 8650 METER, MILLBANK 7445 ENCLOSURE
6. 7.5kVA POWER CENTER 462:120 (INTALLED ON OUTSIDE)
   - PRIMARY MCCB 480V @ 25A, SECONDARY MCCB 240V @ 40A
   - (1) 2-POLE BREAKER, (4) 1-POLE BREAKER
   - 72x25"x12" AUX CABINET, INCLUDING (6) PTS, (6) SHORTING TERM BLOCKS
7. CURRENT TRANSFORMERS: 125-102, 1000:5 CT, 600VAC, 10kV BIL.
   - PART NO. PTG3-1-60-841F
8. VOLTAGE TRANSFORMERS: 840:120 (7:1), 0.3WXMY, 1.2Z @ 100%, PC&S MODEL PTG3-1-60-841F
   - METER FUSE 5.5kV, 45kA, 2.0E, VT FUSES PRIMARY 2A BUSSMAN JCD-2E. SECONDARY 2A BUSSMAN KTK-2.
9. SHUNT TRIP FOR BREAKERS KT5S2

   STATUS MONITORING FOR BREAKERS 1SDA064518R1

WIRING SCHEDULE	
WIRING ID	NOTES
LV00	REFER TO LVAC SCHEDULES ON SHEET E.810 FOR CONDUCTOR SIZE AND SPECS.
LV01	REFER TO LVAC SCHEDULES ON SHEET E.810 FOR CONDUCTOR SIZE AND SPECS.

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July 19, 2019

PREPARED FOR:

ecos ENERGY

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Minneapolis, MN 55402

REVISIONS:

#	DATE	COMMENT
A	06/11/2019	90% SUBMITTAL

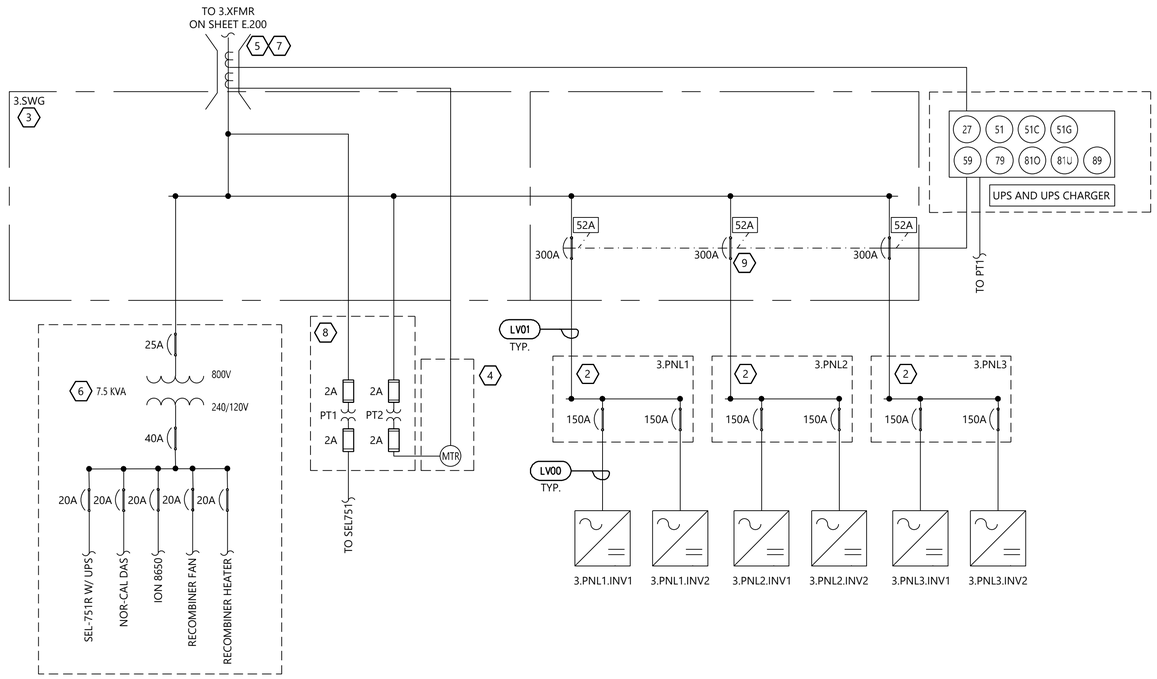
Bilton Solar
Somers, Connecticut

LVAC Oneline Diagram

NOT FOR CONSTRUCTION

DATE: 06/11/2019

SHEET: E.210



3 Switchgear Single Line Diagram - 3.SWG

FEW ONELINE

NOTES:

1. INSTALL ALL EQUIPMENT AND WIRING IN ACCORDANCE WITH THE NEC, NESC, AND ALL APPLICABLE REQUIREMENTS OF THE LOCAL UTILITY COMPANY AND LOCAL AUTHORITY HAVING JURISDICTION.
2. REFER TO SHEET E.103 FOR EQUIPMENT LABELING REQUIREMENTS.
3. REFER TO SHEETS E.200 FOR MVAC SINGLE LINE DIAGRAM.
4. REFER TO SHEET E.220 FOR DC SINGLE LINE DIAGRAM
5. REFER TO SHEET E.810 FOR LVAC SCHEDULE.

KEY NOTES:

1. STRING INVERTER: ABB PVS-166.5/175-TL
   - PVS-166.5-TL-POWER MODULE - 166500 Wac - 24 STRING, 12 MPPT (2 PER MPPT)
   - 1500 Vdc. 800Vac. DC SWITCHES. ARC FAULT. SPD TYPE 2 PLUGGABLE CARTRIDGES (DC&AC)
   - NEMA4X (NEMA3R FANS)
   - 5 YEAR WARRANTY FOR INSTALLATION WORLDWIDE
2. PANEL BOARD (AC COMBINER) : BACKFEED RATED, 800V, 400A, 3PH, 3W
   - (2) X 150A, 800V ABB BREAKERS
3. AC RECOMBINER: 2500A SWITCHBOARD, 3PH, 4W, 35k AIC BACKFEED RATED. 3 BREAKER (3x300A), 3P3W
   - 800V SHUNT TRIP BREAKERS W/POSITION CONTACTS.
   - NEMA 3R WIREWAY BETWEEN XFMR AND SWITCHBOARD. HEATER & FAN.
4. ION 8650 METER, MILLBANK 7445 ENCLOSURE
6. 7.5kVA POWER CENTER 462:120 (INTALLED ON OUTSIDE)
   - PRIMARY MCCB 480V @ 25A, SECONDARY MCCB 240V @ 40A
   - (1) 2-POLE BREAKER, (4) 1-POLE BREAKER
   - 72x25"x12" AUX CABINET, INCLUDING (6) PTS, (6) SHORTING TERM BLOCKS
7. CURRENT TRANSFORMERS: 125-102, 1000:5 CT, 600VAC, 10kV BIL.
   - PART NO. PTG3-1-60-841F
8. VOLTAGE TRANSFORMERS: 840:120 (7:1), 0.3WXMY, 1.2Z @ 100%, PC&S MODEL PTG3-1-60-841F
   - METER FUSE 5.5kV, 45kA, 2.0E, VT FUSES PRIMARY 2A BUSSMAN JCD-2E. SECONDARY 2A BUSSMAN KTK-2.
9. SHUNT TRIP FOR BREAKERS KT5S2

   STATUS MONITORING FOR BREAKERS 1SDA064518R1

WIRING SCHEDULE

WIRING ID	NOTES
LV00	REFER TO LVAC SCHEDULES ON SHEET E.810 FOR CONDUCTOR SIZE AND SPECS.
LV01	REFER TO LVAC SCHEDULES ON SHEET E.810 FOR CONDUCTOR SIZE AND SPECS.

Panel Name: PNL AUX.01		Voltage: 120/240				1 Phase	3Wire	Bus Rating (A): 60
Mounting: Surface		Main CB: YES				Main CB Rating (A) 40		
Manufacturer/Model: General Electric								AIC Rating: 35KAIC
CKT	Load Description	Breaker	Connected Load (kVA)	Phase	Connected Load (kVA)	Breaker	Load Description	CKT
1	SEL-751R W/ UPS (240V)	20/2	1.00	A	1.00	20/1	SEL-751R W/ UPS (240V)	1
1		-		B	1.00	20/1	SEL-751R W/ UPS (240V)	1
2	Nor-Cal DAS	20/1	0.50	A	0.50	20/1	Nor-Cal DAS	2
3	ION 8650	20/1	0.50	A	0.50	20/1	ION 8650	3
4	Re-Combiner Fan	20/1	0.05	B	0.50	20/1	Re-Combiner Fan	4
5	Re-Combiner Heater	20/1	0.50	B	0.50	20/1	Re-Combiner Heater	5
		Total kVA	6.55					

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July 19, 2019

PREPARED FOR:

ecos ENERGY

222 South 9th St., Suite 1600
Minneapolis, MN 55402

REVISIONS:

#	DATE	COMMENT
A	06/11/2019	90% SUBMITTAL

Bilton Solar

Somers, Connecticut

LVAC Oneline Diagram

NOT FOR CONSTRUCTION

DATE: 06/11/2019

SHEET: E.211

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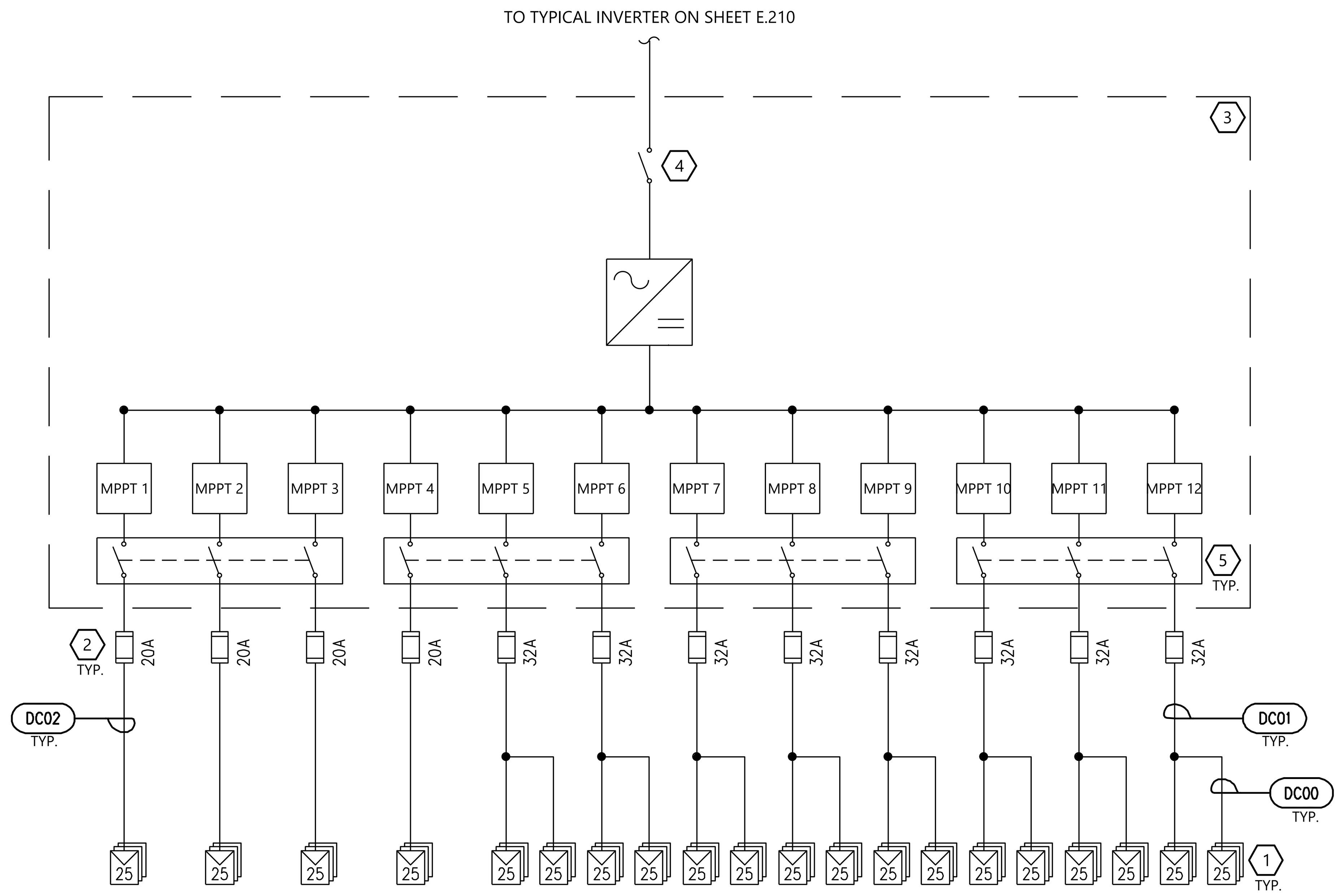

1 String Inverter Single Line Diagram

DC INVERTER WIRING ONELINE - IDENTICAL TO ALL PROJECTS

NOTES:

1. INSTALL ALL EQUIPMENT AND WIRING IN ACCORDANCE WITH THE NEC, NESC, AND ALL APPLICABLE REQUIREMENTS OF THE LOCAL UTILITY COMPANY AND LOCAL AUTHORITY HAVING JURISDICTION.
2. REFER TO SHEET E.103 FOR EQUIPMENT LABELING REQUIREMENTS.
3. REFER TO SHEETS E.210 FOR LVAC SINGLE LINE DIAGRAM.
4. REFER TO SHEET E.230 FOR INVERTER COMMUNICATION DIAGRAM.
5. REFER TO SHEET E.820-E.822 FOR DC SCHEDULES.

KEY NOTES:

1. SOLAR MODULE: LG LG400N2W-V5, 1500V, 400W, 25 CONNECT IN SERIES FOR ONE STRING.
2. FUSE ON POSITIVE CONDUCTOR ONLY.
3. STRING INVERTER: ABB PVS-166-TL-US, 3 PHASE, 3W, 800V OUTPUT. CSA TO UL 1741SA & IEEE1547 CERTIFIED.
4. DC DISCONNECT

WIRING SCHEDULE

WIRING ID	NOTES
DC00	BACK OF MODULE CONDUCTORS. REFER TO MODULE SPEC SHEET FOR SIZE AND CONNECTOR TYPE.
DC01	REFER TO DC SCHEDULES ON SHEET E.820 - E.822 FOR CONDUCTOR SIZE AND SPECS.
DC02	REFER TO DC SCHEDULES ON SHEET E.820 - E.822 FOR CONDUCTOR SIZE AND SPECS.

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Bilton Solar

Somers, Connecticut

DC Oneline Diagram

NOT FOR CONSTRUCTION

DATE: 06/11/2019

SHEET: E.220

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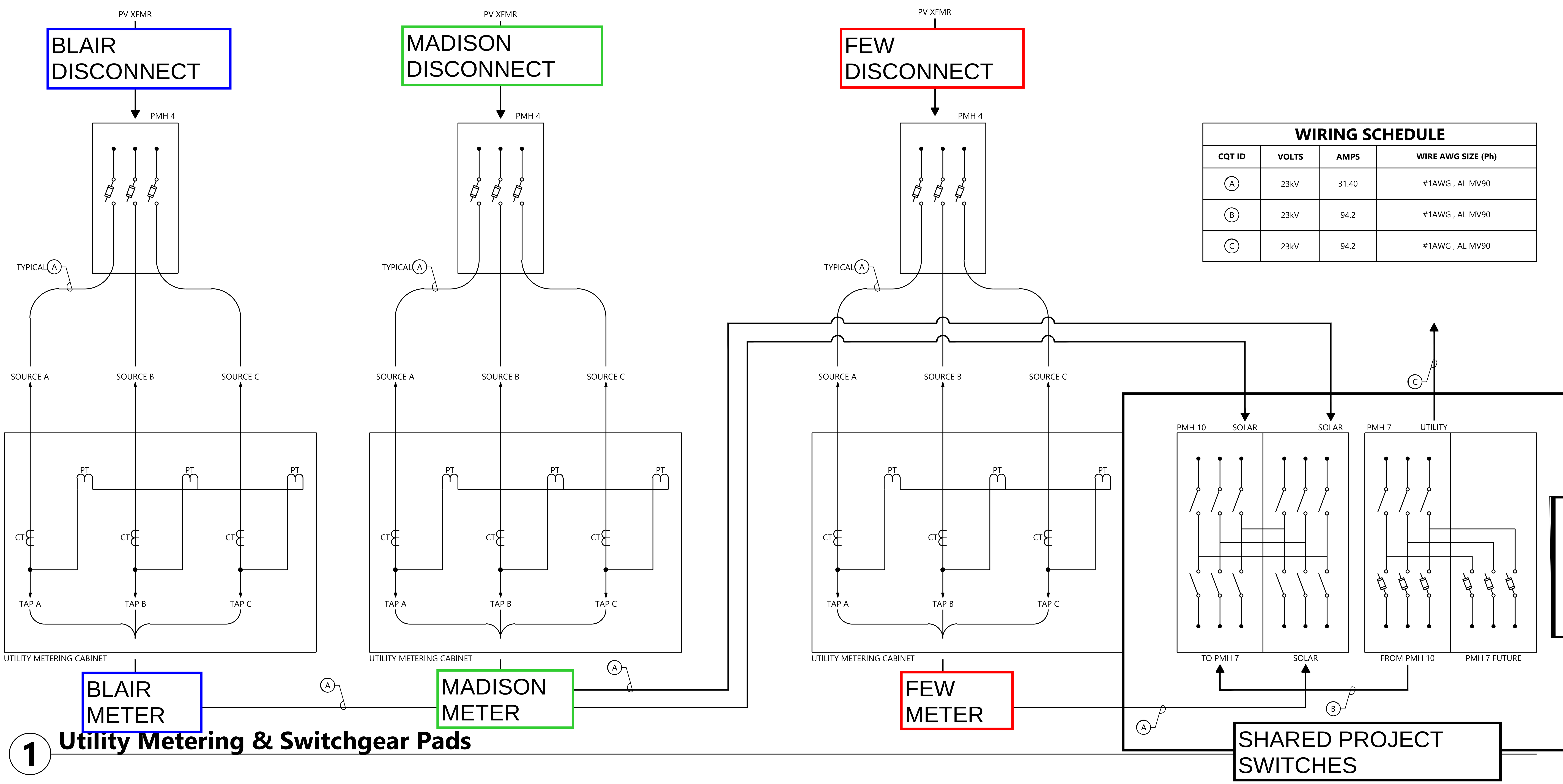


WIRING SCHEDULE

CQT ID	VOLTS	AMPS	WIRE AWG SIZE (Ph)
A	23kV	31.40	#1AWG , AL MV90
B	23kV	94.2	#1AWG , AL MV90
C	23kV	94.2	#1AWG , AL MV90

1 **Utility Metering & Switchgear Pads**

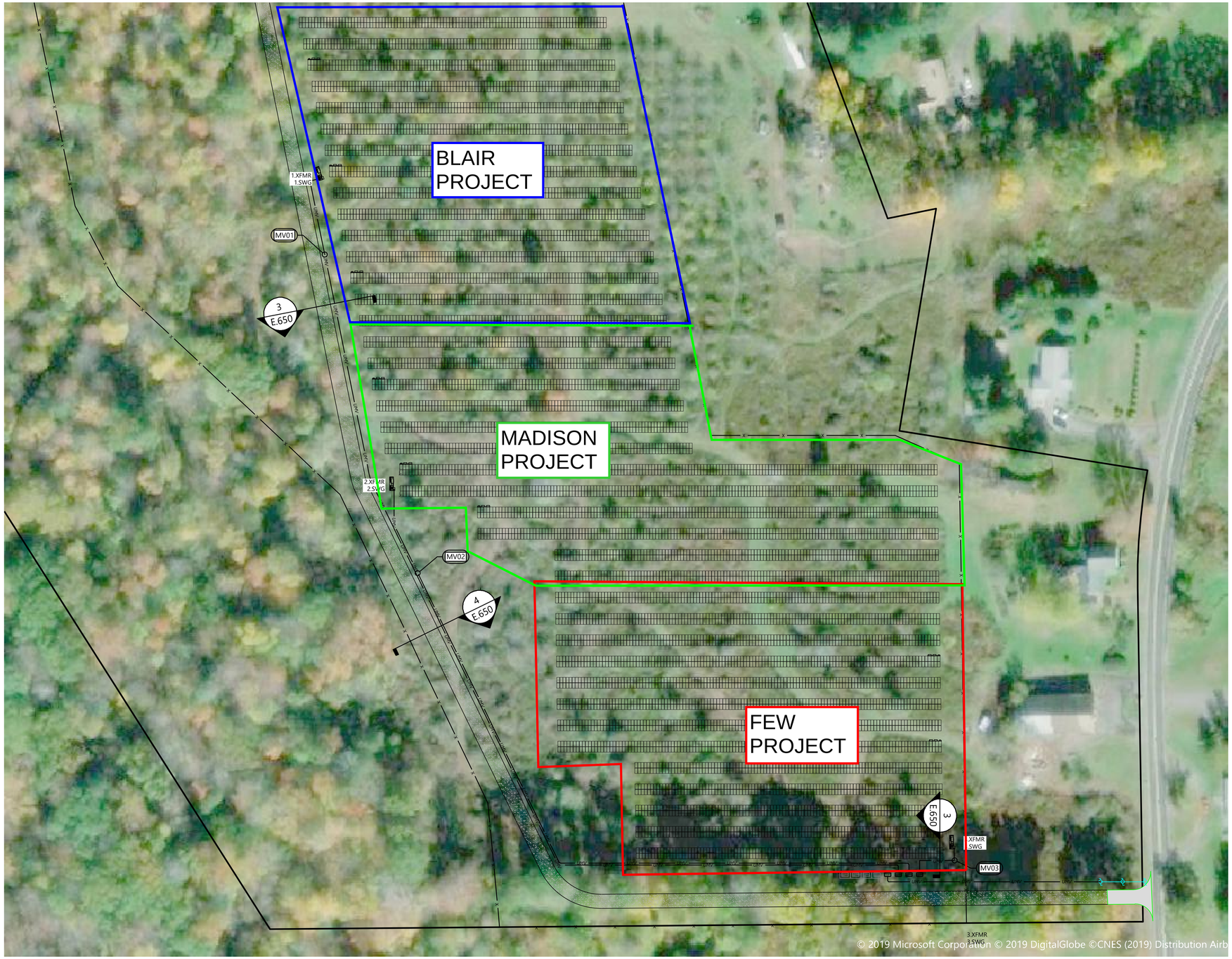
Bilton Solar
Somers, Connecticut

Utility Metering & Switchgear Pads

NOT FOR CONSTRUCTION

DATE: 06/11/2019

SHEET: E.270



1 MVAC Routing Site Plan
1" = 60'

NOTES:

1. INSTALL ALL EQUIPMENT AND WIRING IN ACCORDANCE WITH THE NEC, NESC, AND ALL APPLICABLE REQUIREMENTS OF THE LOCAL UTILITY COMPANY AND LOCAL AUTHORITY HAVING JURISDICTION.
2. REFER TO SHEET E.103 FOR EQUIPMENT LABELING REQUIREMENTS.
3. REFER TO SHEETS E.200 FOR MVAC SINGLE LINE DIAGRAM.
3. REFER TO SHEET E.800 FOR MVAC SCHEDULES.
4. REFER TO SHEET E.650 FOR TRENCH DETAILS.

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STATE OF CONNECTICUT
DOUGLAS A. MUTCHER
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PROFESSIONAL ENGINEER

July 19, 2019

PREPARED FOR:

ecos ENERGY

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Minneapolis, MN 55402

REVISIONS:

#	DATE	COMMENT
A	06/11/2019	90% SUBMITTAL

0' 60' 120' 180'

Bilton Solar
Somers, Connecticut

MVAC Site Plan

NOT FOR CONSTRUCTION

DATE: 06/11/2019

SHEET: E.300

M:\0023867.00\dwg\Electrical\0023867.E.300_MVAC Site Plan.dwg 3/18/2019 2:21 PM Jack Hess

FOR REFERENCE ONLY. EQUIPMENT DESIGNED BY OTHERS AND REVIEWED FOR CONFORMANCE WITH THE ELECTRICAL ENGINEERING DESIGN FOR THE PROJECT

LG NeON® 2

LG400N2W-V5

400W

The LG NeON® 2 is LG's best selling solar module, and is one of the most powerful and versatile modules on the market today. Featuring LG's Cello Technology, the LG NeON® 2 increases power output. New updates include an extended performance warranty from 86% to 89.6% to give customers higher performance and reliability.

APPROVED PRODUCT
In progress

Made in USA From Imported Parts

Features

Enhanced Performance Warranty
LG NeON® 2 has an enhanced performance warranty. After 25 years, LG NeON® 2 is guaranteed to perform at minimum 89.6% of initial performance.

Enhanced Product Warranty
LG has extended the warranty of the NeON® 2 to 25 years, which is among the top of industry standards.

Better Performance on a Sunny Day
LG NeON® 2 now performs better on sunny days, thanks to its improved temperature coefficient.

BOS (Balance Of System) Saving
LG NeON® 2 can reduce the total number of strings due to its high module efficiency resulting in a more cost effective and efficient solar power system.

About LG Electronics
LG Electronics is a global leader in electronic products in the clean energy markets by offering solar PV panels and energy storage systems. The company first embarked on a solar energy source research program in 1985, supported by LG Group's vast experience in the semi-conductor, LCD, chemistry and materials industries. In 2010, LG Solar successfully released its first MonoX® series to the market, which is now available in 32 countries. The NeON® (previous. MonoX® NeON), NeON®2, NeON®2 BiFacial won the "Intersolar AWARD" in 2013, 2015 and 2016, which demonstrates LG's leadership and innovation in the solar industry.

LG NeON® 2

Made in USA From Imported Parts

LG400N2W-V5

General Data

Cell Properties (Material / Type)	Monocrystalline / N-type
Cell Maker	LG
Cell Configuration	72 Cells (6 x 12)
Number of Busbars	12EA
Module Dimensions (L x W x H)	2,024mm x 1,024mm x 40 mm
Weight	20.3 kg
Glass(Material)	Tempered Glass with AR Coating
Backsheet(Color)	White
Frame(Material)	Anodized Aluminium
Junction Box(Protection Degree)	IP 68
Cables(Length)	1,200 mm x 2EA
Connector(Type / Maker)	MC 4 / MC

Certifications and Warranty

Certifications	IEC 61215-1/-1-1/2:2016, IEC 61730-1/2:2016, UL 1703
	ISO 9001, ISO 14001, ISO 50001
	OHSAS 18001, PV CYCLE
Salt Mist Corrosion Test	IEC 61701 : 2012 Severity 6
Ammonia Corrosion Test	IEC 62716 : 2013
Module Fire Performance	Type 1 (UL 1703)
Fire Rating	Class C (UL 790, ULC/ORD C 1703)
Solar Module Product Warranty	25 Years
Solar Module Output Warranty	Linear Warranty*

* 1) First year : 98% 2) After 1st year : 0.35% annual degradation 3) 89.6% for 25 years

Temperature Characteristics

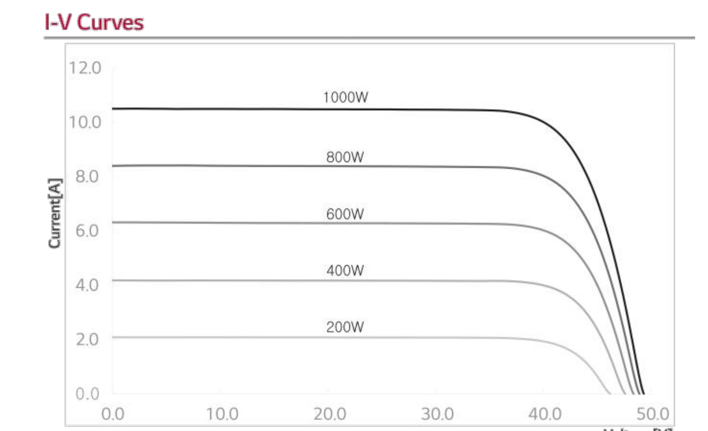
NMOT*	[°C]	42 ± 3
Pmax	[%/°C]	-0.36
Voc	[%/°C]	-0.26
Isc	[%/°C]	0.02

* NMOT (Nominal Module Operating Temperature): Irradiance 800 W/m², Ambient temperature 20 °C, Wind speed 1 m/s, Spectrum AM 1.5

Electrical Properties (NMOT)

Model		LG400N2W-V5
Maximum Power (Pmax)	[W]	300
MPP Voltage (Vmpp)	[V]	38.0
MPP Current (Impp)	[A]	7.88
Open Circuit Voltage (Voc)	[V]	46.5
Short Circuit Current (Isc)	[A]	8.40

I-V Curves



Electrical Properties (STC*)

Model		LG400N2W-V5
Maximum Power (Pmax)	[W]	400
MPP Voltage (Vmpp)	[V]	40.6
MPP Current (Impp)	[A]	9.86
Open Circuit Voltage (Voc, ±5%)	[V]	49.3
Short Circuit Current (Isc, ±5%)	[A]	10.47
Module Efficiency	[%]	19.3
Power Tolerance	[%]	0 ~ +3

* STC (Standard Test Condition): Irradiance 1000 W/m², Cell temperature 25 °C, AM 1.5

Operating Conditions

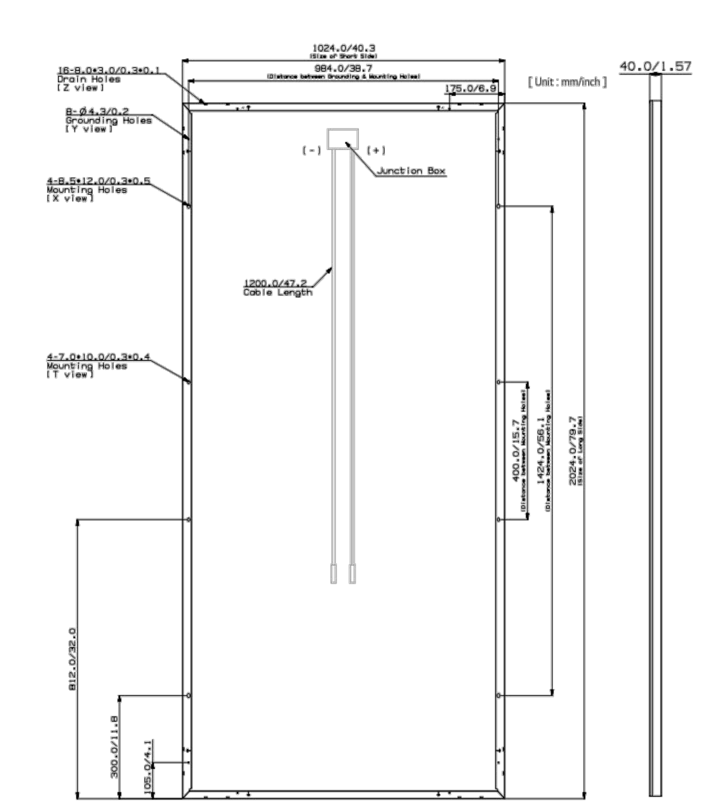
Operating Temperature	[°C]	-40 ~ +90
Maximum System Voltage	[V]	1,500(UL), 1000(IEC)
Maximum Series Fuse Rating	[A]	20
Mechanical Test Load (Front)	[Pa / psf]	5,400 / 113
Mechanical Test Load (Rear)	[Pa / psf]	3,000 / 63

* Test Load = Design load X Safety Factor (1.5)

Packaging Configuration

Number of Modules per Pallet	[EA]	25
Number of Modules per 40ft HQ Container	[EA]	550
Packaging Box Dimensions (L x W x H)	[mm]	2,080 x 1,120 x 1,226
Packaging Box Gross Weight	[kg]	551

Dimensions (mm / inch)



LG Electronics Inc.
Solar Business Division
2000 Millbrook Drive
Lincolnshire, IL 60069
www.lg-solar.com

Product specifications are subject to change without notice.
LG400N2W-V5_US_Ver01

DETAILS - IDENTICAL TO ALL PROJECTS

Westwood
Phone (952) 937-5150
Fax (952) 937-5822
Toll Free (888) 937-5150
12701 Whitewater Drive, Suite #300
Minnetonka, MN 55343
westwoodps.com
Westwood Professional Services, Inc.

STATE OF CONNECTICUT DOUGLAS A. MUTCHER 0029077 LICENSED PROFESSIONAL ENGINEER
July 19, 2019

PREPARED FOR:
ecos ENERGY
222 South 9th St., Suite 1600
Minneapolis, MN 55402

REVISIONS:

#	DATE	COMMENT
A	06/11/2019	90% SUBMITTAL

Bilton Solar
Somers, Connecticut

Specification Sheet - Module

NOT FOR CONSTRUCTION

DATE: 06/11/2019

SHEET: E.900

FOR REFERENCE ONLY. EQUIPMENT DESIGNED BY OTHERS AND REVIEWED FOR CONFORMANCE WITH THE ELECTRICAL ENGINEERING DESIGN FOR THE PROJECT

ABB

SOLAR INVERTERS

ABB string inverters

PVS-166/175-TL-US

The PVS-166/175-TL-US is ABB's innovative three-phase string inverter, delivering a solution to enhance and optimize solar power generation for ground mounted utility scale applications.

PVS-166/175-TL-US three-phase string inverter

Highest power in class

This new high-power string inverter, within the 1500 Vdc segment, delivers up to 185 kVA at 800 Vac. This not only maximizes the ROI for ground mounted utility-scale applications but also reduces Balance of System costs (i.e. AC side cabling) for small to large scale, free field ground mounted PV installations.

Design flexibility

The inverter comes equipped with 24 inputs and 12 MPPT, the highest available in the market, enabling maximum PV plant design flexibility and increasing yields also in case of complex installations.

Installer friendly design

Quick and easy installation, thanks to plug and play connectors, as the existing PV module's mounting systems can be used to install the inverters, thus saving time and cost on site preparation.
The fuse and combiner free design eliminates the need for external components, such as separate DC combiner boxes, thanks to the integrated DC disconnect and AC wiring compartment.
The Advanced Cooling Concept preserves the lifetime of the system and minimizes O&M costs thanks to internal heavy-duty cooling fans. These can be easily removed during scheduled maintenance cycles whilst the power module can be easily replaced without removing the wiring box.

Advanced communication for O&M

Standard wireless access from any mobile device makes the configuration of inverter and plant easier and faster. An improved user experience thanks to a built-in User Interface (UI) enables access to advanced inverter configuration settings.
The Installer for Solar Inverters mobile app and configuration wizard enable a quick multi-inverter installation and commissioning reducing the time spent on site.

Fast system integration

Industry standard Modbus (RTU/TCP)/SUNSPEC protocol enables fast system integration.
Two Ethernet ports enable fast and future-proof communication for PV plants.

Protect your assets

Monitoring your assets is made easy, as every inverter is capable to connect to ABB cloud platform and thanks to the state-of-the-art cybersecurity and Arc Fault Detection option, your assets and profitability are secure in the long term.

Highlights

- Up to 185 kW power rating, highest in class
- All-in-one combiner and fuse free design
- Separate power module and wiring compartment for fast swap and replacement
- 12 MPPT and wide input voltage range for maximum energy yield
- WLAN interface for commissioning and configuration
- Remote monitoring and firmware upgrade via ABB cloud platform (logger free)
- Free of charge standard access to Aurora Vision® cloud

ABB string inverters

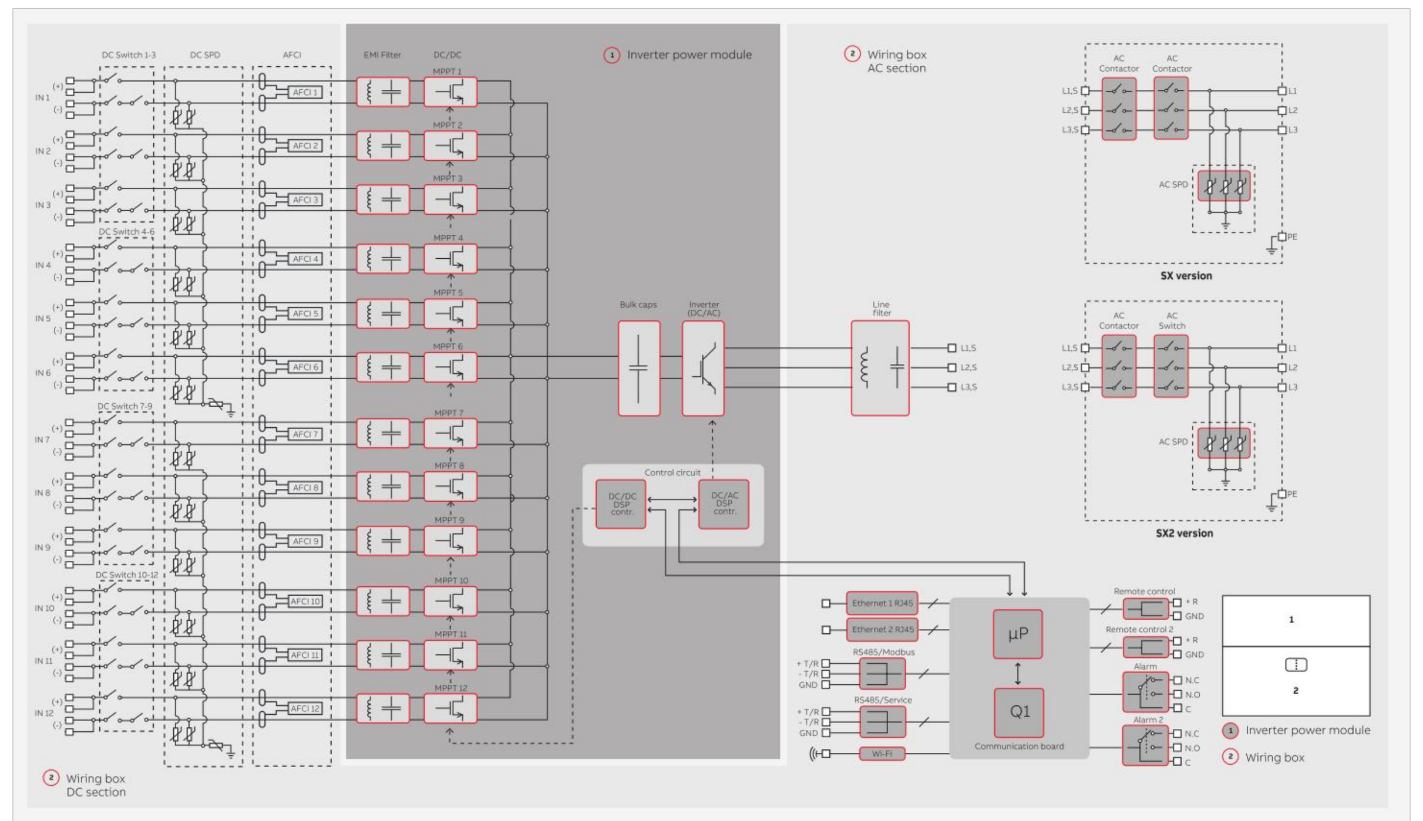
PVS-166/175-TL-US
166.5 to 185 kW

Technical data and types

Type code	PVS-166-TL US	PVS-175-TL US
Input side		
Absolute maximum DC input voltage ($V_{max,abs}$)	1500 V	
Start-up DC input voltage (V_{start})	750 V (650…1000 V)	
Operating DC input voltage range (V_{dcmin}…V_{dcmax})	0.7 x V_{start}…1500 V (min 600 V)	
Rated DC input voltage (V_{dcr})	1150 V	
Rated DC input power (P_{dcr})	169 000 W @ 40°C	188 000 W @ 30°C (177 kW @ 40°C)
Number of independent MPPT	12	
MPPT input DC voltage range ($V_{MPPTmin}$…$V_{MPPTmax}$) at P_{acr}	850..1350 V	
Maximum DC input current for each MPPT ($I_{MPPTmax}$)	22 A	
Maximum input short circuit current for each MPPT (I_{SCmax})	30 A	
Number of DC input pairs for each MPPT	2 DC inputs per MPPT	
DC connection type	PV quick fit connector [1]	
Input protection		
DC Series Arc Fault Circuit Interrupter	Type I acc. to UL 1699B [2] with single-MPPT sensing capability	
Reverse polarity protection	Yes, from limited current source	
Input over voltage protection for each MPPT - replaceable surge arrester	Type 2 with monitoring	
Photovoltaic array isolation control (Insulation Resistance, R-iso)	Yes (pre start-up R-iso measurement)	
Residual Current Monitoring Unit (leakage current protection)	Yes (dynamic GFDI)	
DC Load Breaking Disconnect Switch (rating for each MPPT)	30A/1500 V	
Fuse rating	N/A, No fuses required	
String current monitoring	MPPT-level current sense	
Output side		
AC Grid connection type	Three phase 3W+PE	
Rated AC power (P_{acr} @cosϕ=1)	166 500 W @ 40°C	175 000 W @ 40°C
Maximum AC output power (P_{acmax} @cosϕ=1)	166 500 W @ 30°C	185 000 W @≤ 30°C
Maximum apparent power (S_{max})	166 500 VA	185 000 VA
Rated AC grid voltage ($V_{ac,r}$)	800 V	
AC voltage range	552...960 [3]	
Maximum AC output current ($I_{ac,max}$)	134 A	
Rated output frequency (f_r)	50 Hz / 60 Hz	
Output frequency range (f_{min}…f_{max})	45…55 Hz / 55…65 Hz [3]	
Nominal power factor and adjustable range	> 0.995, 0…1 inductive/capacitive with maximum S_{max}	
Total current harmonic distortion	< 3%	
Max DC current injection (% of In)	< 0.5%*In	
AC wire range	4x1x2/0 AWG to 4x1x400 kcmil, Cu/Al [4]	
AC plate	Opening for Trade size 3 conduit	
AC connection type	Copper Busbar for ring terminal lug connections with M10 stud type terminal block (bolts included)	
Output protection		
Anti-islanding protection	Meets UL1741 / IEEE1547 requirements	
Output overvoltage protection - replaceable surge protection device	Type 2 with monitoring	
Operating performance		
Maximum efficiency (η_{max})	98.6 %	
Weighted CEC efficiency (η_{CEC})	98.4 %	
Communication		
Embedded communication interfaces	Dual port Ethernet, WLAN [5], RS-485	
User interface	4 LEDs, Web User Interface, Mobile APP	
Communication protocol	Modbus RTU/TCP (SunSpec compliant)	
Commissioning tool	Web User Interface, Mobile APP	
Monitoring	Plant Portfolio Manager, Plant Viewer	

PRODUCT FLYER FOR PVS-166/175-TL-US ABB SOLAR INVERTERS

ABB PVS-166/175-TL-US string inverter block diagram



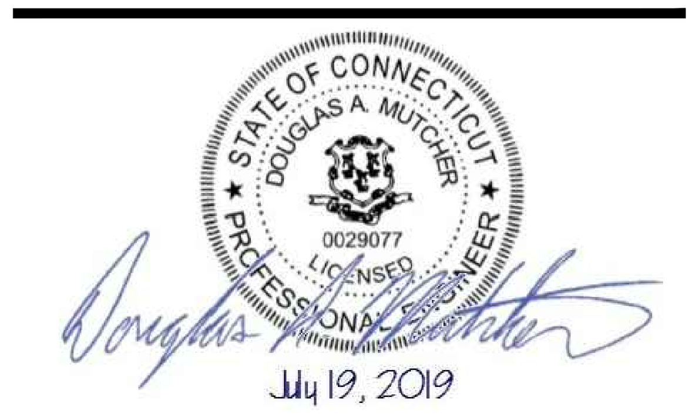
Technical data and types

Type code	PVS-166-TL US	PVS-175-TL US
FW update	Remote inverter FW upgrade via Ethernet/WLAN interface locally/remotely	
Parameter upgrade	Remote inverter parameter upgrade via Ethernet/WLAN according to SunSpec Modbus protocol	
Environmental		
Operating ambient temperature range	-13...+140°F (-25...+60°C) with derating above 104°F (40°C)	
Relative humidity	0...100% condensing	
Sound pressure level, typical	<65 dB(A)@ 1m	
Maximum operating altitude without derating	2000 m / 6560 ft	
Physical		
Environmental protection rating	Cert. to UL 50E Type 4X – meets or exceeds NEMA 4X	
Cooling	Forced air cooling with variable speed cooling fan	
Dimension (H x W x D)	34.2x42.7x16.5 in (867 x 1086 x 419 mm) / -SX model 34.2x42.7x18 in (867 x 1086 x 458 mm) / -SX2 model	
Weight	~76.5kg / 168 lbs for power module ~76.8kg / 169 lbs for wiring box Overall max 153 kg / 338 lbs	
Mounting system	Bracket (included, vertical mounting only)	
Safety		
Isolation level	Transformer-less (floating array)	
Marking (Pending)	$_{C}$TUV$_{US}$	
Safety and EMC standard (Pending)	UL1741, IEEE1547, IEEE1547.1, CSA-C22.2 No. 107.1-01, UL1998, UL 1699B, FCC 47 CFR Part 15B Class A Limits	
Grid standard (Pending)	UL 1741 SA, IEEE1547, IEEE 1547a, Rule 21, Rule 14 (HI)	
Available products variants		
Inverter power module	PVS-166-TL-POWER MODULE	PVS-175-TL-POWER MODULE
24 quick fit connector pairs (2 each mppt) + DC switches + SPD Type 2 Pluggable Cartridges (DC & AC)	WB-SX-PVS-166-TL-US	WB-SX-PVS-175-TL-US
24 quick fit connector pairs (2 each mppt) + DC switches + AC disconnection switch + SPD Type 2 Pluggable Cartridges (DC & AC)	WB-SX2-PVS-166-TL-US	WB-SX2-PVS-175-TL-US
Optional available		
DC link recharge circuit	Night time operation with restart capability	
Anti-PID [6]	Based on night time polarization of the array	

1) Multicontact MC4-Evo2. Cable couplers may accept up to 10mm² (AWG8)
2) Performance in line with the relevant requirements of the Draft IEC 63027 standard
3) The AC voltage and frequency range may vary depending on specific country grid standard
4) Aluminum cable requires bi-metallic compression lug or bi-metallic adapter
5) as per IEEE 802.11 b/g/n standard, 2.4 GHz
6) Cannot operate simultaneously when installed in conjunction with the DC link recharge circuit

DETAILS - IDENTICAL TO ALL PROJECTS

Westwood
Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 westwoodps.com
Westwood Professional Services, Inc.



PREPARED FOR:

ecos ENERGY
222 South 9th St., Suite 1600
Minneapolis, MN 55402

REVISIONS:

#	DATE	COMMENT
A	06/11/2019	90% SUBMITTAL

Bilton Solar
Somers, Connecticut

Specification Sheet - Inverter

NOT FOR CONSTRUCTION

DATE: 06/11/2019

SHEET: E.901

Exhibit C

Bilton Phase 2 Report

NORTHSTAR
ENVIRONMENTAL MANAGEMENT, LLC

May 21, 2018

Mr. Christopher Little
Ecos Energy
222 South 9th Street, Suite 1600
Minneapolis, MN 55402

RE: Subsurface Explorations
134 Bilton Rd, Somers, CT
NorthStar Project No. 180101A

Dear Mr. Little:

NorthStar Environmental Management, LLC (NorthStar) is pleased to present the results of our subsurface explorations conducted at the above-referenced property. Subsurface explorations were conducted at the subject property to assess soil and groundwater at three areas of concern: 1) the farm shed where herbicides and pesticides had been stored for use at the orchard on the property, 2) in the area of a former above ground fuel oil storage tank which was located directly adjacent to the farm shed, and 3) in the area of two underground storage tanks (believed to be 500 to 1,000 gallon diesel and gasoline USTs) located between the farm shed and the dwelling.

Test boring B1 was conducted through a hole in the concrete floor of the farm shed. The shed had been used to store pesticides and herbicides used by the orchard, as well as, small tools and other maintenance supplies. NorthStar had been informed by the occupant of the property that the former property owner had disposed of pesticides into the hole in the concrete floor. The hole was located approximately 3 feet from the north wall of the shed at approximately 16 feet from the eastern wall. Soil samples at this location were collected directly in the hole at depths of 1-3 feet, 4-4.5 feet, 7.5-8 feet and 11-12 feet below grade. Refusal was encountered by the Geoprobe on apparent Till material at 14.5 feet below grade. Sample B1 1-3' was analyzed for Pesticides (SW8081B)/Chlorinated Herbicides (SW8151A), Arsenic, Cyanide, Volatile Organic Compounds by EPA Method 8260C (VOCs) and Extractable Total Petroleum Hydrocarbons (ETPH). Sample B1 4-4.5 was analyzed for pesticides/herbicides, Arsenic, Cyanide, and ETPH. The remaining samples at this location were analyzed only for pesticides/herbicides, Arsenic, Cyanide.

Test boring B2 was conducted just off the concrete slab on the north side of the shed. The boring was advanced to 4 feet below grade and a soil sample was collected at 3-4 feet. This bare soil area was at one time covered by a roof and was used to storage bulky items such as wood. Test borings B3 and B4 were conducted just north of the main shed in a bare soil area that was at one time covered by a roof and was used to store wooden crates for collecting fruit. Both borings were advanced to 4 feet below grade in this area. The samples from both borings were collected at 2-2.5 feet below grade. Test boring B5 was collected at the base of a concrete ramp that led into the farm shed. The sample at this location was collected at 1.5-2 feet below grade. Samples collected from borings B2, B3, B4, and B5 were all analyzed for pesticides/herbicides, Arsenic, Cyanide, and ETPH.

Test boring B6 was collected east of the shed in an area where an above ground fuel oil storage tank had been located. Soil at this location had a petroleum-like odor. Boring B-6 was advance to 12 feet below grade. Samples were collected at 0-0.5 feet, 5.5-6 feet, 7.5-8 feet and 11-12 feet below grade. Sample 0-0.5 was analyzed for pesticides/herbicides, Arsenic, Cyanide, and ETPH. The other three samples at this location were analyzed only for ETPH.

There are two USTs and the remnants of a former dispenser pump located approximately mid-way between the farm shed and the house. Neither the size nor the content of the two USTs is known for certain; however, it is thought that they are likely 500-gallon to 1000-gallon diesel and gasoline USTs. Test boring B7 was conducted about 6-8 feet east of the two USTs on their down gradient side. Test boring B7 was advanced to 12 feet below grade at which point refusal to the Geoprobe was encountered. Samples were collected at this location at 5.5-6 feet, 7.5-8 feet and 10-10.5 feet below grade.

Although, NorthStar had intended to install groundwater monitoring wells on the property, groundwater was not encountered above Geoprobe refusal at 12 to 14 feet below grade.

Pesticides were detected in samples B1 1-3' , B1 4-4.5', B4 2-2.5', and B6 0-0.5'. Laboratory data reports are included in Appendix A and summarized in Table 1. In sample B1 1-3 feet, concentrations of the pesticides 4,4' –DDD, 4,4' –DDE, 4,4' –DDT, and Dieldrin exceeded the GA PMC (APS) but not the Residential Direct Exposure Criterion . At 4-4.5 feet below grade the concertation of these substances were either non detected or were below the GA PMC indicating that the pesticides have not yet migrated deep into the subsurface. At 7.5 – 8 feet below grade, no pesticides were detected. Most of this area had until recently been covered by a roof and the existing concrete pad.

Sample B4 2-2.5 feet contained the highest concentrations of pesticides. Once again, 4,4' –DDD, 4,4'–DDE, 4,4'–DDT, and Dieldrin exceeded the GA PMC (APS) but not the Residential Direct Exposure Criterion. Also, Total Arsenic (10.1 mg/kg) exceeded the applicable standard of 10 mg/kg. This was the location where wood crates that were used to collect fruit had been stored. Nearby sample B3 2-2.5 collected in this same area contained no detectable pesticides. No pesticides were detected in Samples B5 1.5-2 collected at the front door to the shed and none where detected in Sample B2 3-4 feet collected outside the back door of the shed.

Samples B6 0-0.5, B6 5.5-6 and B6 7.5-8 collected in the area of the former fuel oil above ground storage tank contained ETPH concentrations of 7,800 mg/kg, 5,300 mg/kg and 2,700 mg/kg. All three concentrations exceed the Residential Direct Exposure Criterion and the GA Pollutant Mobility Criterion. The data suggest that there was a release of heating oil at this location.

Test boring B7 was conducted in the area of the two underground storage tanks suspected to have contained and may still contain diesel and gasoline for the farm tractors and trucks. Test boring B7 was conducted approximately 6 -8 feet east of the northern most tank and former dispenser. An ETPH concentration of 390 mg/kg was detected at 5.5 to 6 feet below grade. No ETPH concentrations were detected in boring B7 at 7.5-8 or 10–10.5 feet below grade. Boring

B7 hit refusal at approximately 12 feet below grade on what was believed to be compact till material. No groundwater was encountered above refusal. The data suggest that a release has occurred from one of both tanks at this location.

No chlorinated herbicides or total cyanide were detected in any of the samples.

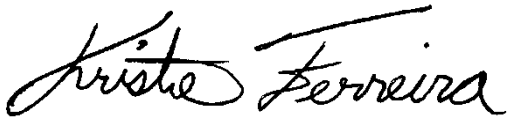
NorthStar recommends that the following three areas be remediated:

1. pesticide contaminated soil in the area of the farm shed;
2. fuel oil contamination in the area of the former fuel oil AST located adjacent to the east wall of the farm shed near it southeast corner;
3. abandoned gasoline and diesel USTs located between the shed and dwelling.

The two underground storage tanks should be removed in accordance with local, state, and federal guidelines. Any associated contaminated soil should be excavated and properly disposed of. The fuel oil contaminated soil in the area of the former AST should be excavated and disposed of along with the diesel and gasoline contaminated soil. The concrete foundation to the former farm shed should be removed and the pesticide contaminated soil beneath and around the foundation should be excavated to a depth of approximately 3-4 feet. Confirmatory soil samples should be collected in all remedial areas to confirm adequate contaminated soil removal. Upon completion of remediation a groundwater monitoring well should be installed down gradient of the remedial area utilizing air rotary drilling techniques. Groundwater should be sampled to determine if there has been any impact from the above mention areas of environmental concern.

We trust that the report presented herein will satisfy your current requirements. We appreciate the opportunity to be of continued service to your office. Should you have any questions or comments, please do not hesitate to contact the undersigned.

Very truly yours,
NorthStar Environmental Management, LLC



Kristie Ferreira, MS, LEP
Principal

NORTHSTAR
ENVIRONMENTAL MANAGEMENT, LLC

Table 2
Contaminant Concentrations in Soil (mg/kg) (Detected Substances Only)

Parameter	B1 1-3'	B1 4-4.5'	B1 7.5-8'	B1 11-12'	B2 3-4'	B3 2-2.5'	B4 2-2.5'	B5 1.5-2'	RES DEC	RES DEC (APS)	GA PMC	GA PMC (APS)
ETPH (mg/kg)	ND	ND	---	---	---	---	---	---	500		500	
Total Arsenic (mg/kg)	1.73	1.73	1.6	1.59	1.29	2.3	10.1	2.8				
Total Cyanide (mg/kg)	ND	ND	ND	ND	ND	ND	ND	ND				
Volatile Organic Compounds	ND	---	---	---	---	---	---	---				
Pesticides/Herbicides (µg/kg)												
4,4' -DDD	**37**	ND	ND	ND	ND	ND	**32**	ND		1,800		3
4,4' -DDE	**14**	ND	ND	ND	ND	ND	**23**	ND		1,800		3
4,4' -DDT	**120**	2.4	ND	ND	ND	ND	**440**	ND		1,800		3
Dieldrin	**22**	ND	ND	ND	ND	ND	**30**	ND	38		7	
Endosulfan sulfate	ND	ND	ND	ND	ND	ND	9.9	ND		41,000		84
Endrin	ND	ND	ND	ND	ND	ND	13	ND	20,000	20,000		40

Parameter	B6 0-0.5'	B6 5.5-6'	B6 7.5-8'	B6 11-12'	B7 5.5-6'	B7 7.5-8'	B7 10-10.5'		DEC RES	DEC RES (APS)	GA PMC	GA PMC (APS)
ETPH (mg/kg)	**7,800**	**5,300**	**2,700**	ND	390	ND	ND		500		**500**	
Total Arsenic (mg/kg)	3.29	---	---	---	---	---	---					
Total Cyanide (mg/kg)	ND	---	---	---	---	---	---					
Volatile Organic Compounds	---	---	---	---	---	---	---					
Pesticides/Herbicides (µg/kg)												
4,4' -DDD	ND	---	---	---	---	---	---			1,800		3
4,4' -DDE	8.6	---	---	---	---	---	---			1,800		3
4,4' -DDT	71	---	---	---	---	---	---			1,800		3
Dieldrin	ND	---	---	---	---	---	---		38		7	
Endosulfan sulfate	ND	---	---	---	---	---	---			41,000		84
Endrin	ND	---	---	---	---	---	---		20,000	20,000		40

Note: ---= not analyzed, ND = Not Detected, RDEC = Residential Direct Exposure Criteria, I/C DEC= Industrial/Commercial Direct Exposure Criteria, GA PMC = GA Pollutant Mobility Criteria, mg/kg = milligrams/kilogram (parts per million), µg/kg = micrograms per kilogram (parts per billion).

	= Substance exceeds standard

FIGURES

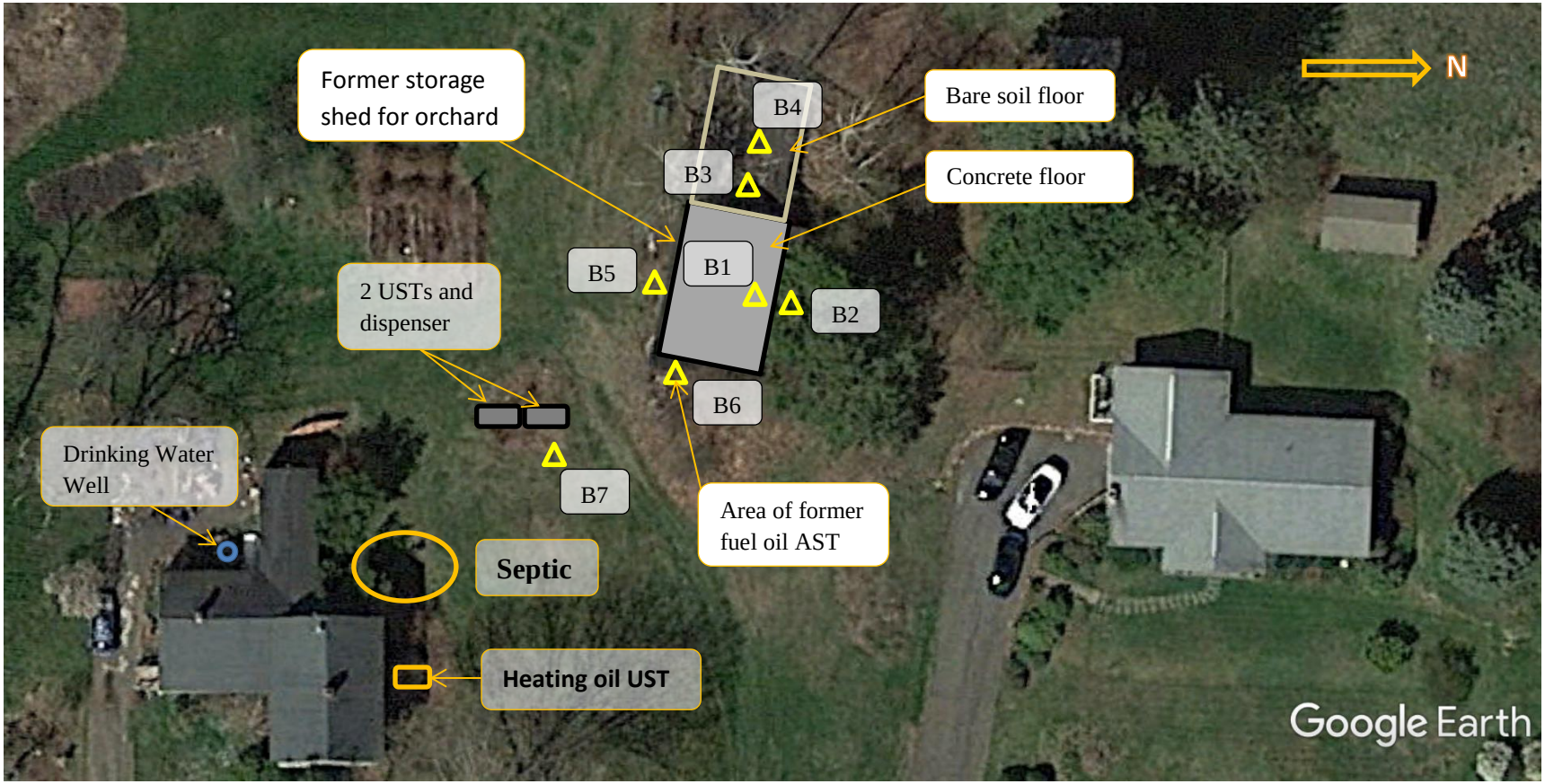


Figure 1
Sample Locations
134 Bilton Road, Somers, CT

APPENDIX A
Laboratory Results

800 Village Walk, No. 325, Guilford, CT 06437
Phone (203) 458-3426 • Fax (203) 458-1597 • e-mail: northstar_environmental@hotmail.com

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ No ☐

CHAIN OF CUSTODY RECORD

Temp 1.9 °C Pg of

PHOENIX Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☐ Email:

Customer: NorthStar
Address:

Project: 180101 134 Bilton Rd
Report to: NorthStar
Invoice to: NorthStar

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 5/11/18

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	8260 VOCs	ETPH	Total As + CN	Pest 8081	Herb 8151	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [✓] H2O	GL Soil container (4) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
46335	B1 1-3	S	5/11/18	830	✓	✓	✓	✓	✓		✓	✓									
46336	B1 4-4.5	↓	↓	840	.	✓	✓	✓	✓			✓									
46337	B1 7.5-8			850			✓	✓	✓			✓									
46338	B1 11-12			900			✓	✓	✓			✓									
46339	B2 3-4			910			✓	✓	✓			✓									
46340	B3 2-2.5			920			✓	✓	✓			✓									
46341	B4 2-2.5			930			✓	✓	✓			✓									
46342	B5 1.5-2			940			✓	✓	✓			✓									
46343	B6 0-0.5			950		✓	✓	✓	✓			✓									
46344	B6 5.5-6			955		✓						✓									
46345	B6 7.5-8			1000		✓						✓									
46346	B6 11-12	↓	↓	1005		✓						✓									

Relinquished by:	Accepted by:	Date:	Time:
K. Ferreira	[signature]	5/14/18	13:55
[signature]	Paradise	5/14/18	1540

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☐ RCP Cert
☐ GW Protection
☐ SW Protection
☒ GA Mobility
☐ GB Mobility
☒ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☒ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES

State where samples were collected: CT

PHOENIX
Environmental Laboratories, Inc.

Friday, May 18, 2018

Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Project ID: 180101 134 BILTON RD
Sample ID#s: CA46335 - CA46346

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	8:30
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46335

Project ID: 180101 134 BILTON RD
Client ID: B1 1-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.73	0.78	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	89		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	05/16/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	93	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	93	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	190	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1900	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	93	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	93	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	190	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	190	ug/Kg	10	05/17/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	53		%	10	05/17/18	CW	30 - 150 %
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	05/16/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	67		%	1	05/16/18	JRB	50 - 150 %
Pesticides							
4,4' -DDD	37	7.4	ug/Kg	2	05/16/18	CW	SW8081B

Project ID: 180101 134 BILTON RD
Client ID: B1 1-3

Phoenix I.D.: CA46335

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,4' -DDE	14	7.4	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	120	74	ug/Kg	20	05/18/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	2.0	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/18	CW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	22	3.7	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	103		%	2	05/16/18	CW	30 - 150 %
% TCMX	74		%	2	05/16/18	CW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	05/16/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,1-Dichloroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,1-Dichloroethene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,1-Dichloropropene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2-Dibromoethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2-Dichloroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,2-Dichloropropane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,3-Dichloropropane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
2,2-Dichloropropane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
2-Chlorotoluene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
2-Hexanone	ND	24	ug/Kg	1	05/16/18	JLI	SW8260C
2-Isopropyltoluene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
4-Chlorotoluene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C

Project ID: 180101 134 BILTON RD
Client ID: B1 1-3

Phoenix I.D.: CA46335

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	24	ug/Kg	1	05/16/18	JLI	SW8260C
Acetone	ND	240	ug/Kg	1	05/16/18	JLI	SW8260C
Acrylonitrile	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Benzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Bromobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Bromochloromethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Bromodichloromethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Bromoform	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Bromomethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Carbon Disulfide	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Carbon tetrachloride	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Chlorobenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Chloroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Chloroform	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Chloromethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Dibromochloromethane	ND	2.9	ug/Kg	1	05/16/18	JLI	SW8260C
Dibromomethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Dichlorodifluoromethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Ethylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Hexachlorobutadiene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Isopropylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
m&p-Xylene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	29	ug/Kg	1	05/16/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.6	ug/Kg	1	05/16/18	JLI	SW8260C
Methylene chloride	ND	9.6	ug/Kg	1	05/16/18	JLI	SW8260C
Naphthalene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
n-Butylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
n-Propylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
o-Xylene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
p-Isopropyltoluene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
sec-Butylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Styrene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
tert-Butylbenzene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Tetrachloroethene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.6	ug/Kg	1	05/16/18	JLI	SW8260C
Toluene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Total Xylenes	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.6	ug/Kg	1	05/16/18	JLI	SW8260C
Trichloroethene	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Trichlorofluoromethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
Vinyl chloride	ND	4.8	ug/Kg	1	05/16/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	05/16/18	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/16/18	JLI	70 - 130 %

Project ID: 180101 134 BILTON RD
Client ID: B1 1-3

Phoenix I.D.: CA46335

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	96		%	1	05/16/18	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/16/18	JLI	70 - 130 %
Field Extraction	Completed				05/11/18		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 18, 2018
Reviewed and Released by: Helen Geoghegan, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	8:40
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46336

Project ID: 180101 134 BILTON RD
Client ID: B1 4-4.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.73	0.72	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	91		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.55	0.55	mg/Kg	1	05/16/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	60		%	10	05/17/18	CW	30 - 150 %
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	05/16/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	05/16/18	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B

Project ID: 180101 134 BILTON RD
Client ID: B1 4-4.5

Phoenix I.D.: CA46336

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	2.3	1.5	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/16/18	CW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	91		%	2	05/16/18	CW	30 - 150 %
% TCMX	69		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director

May 18, 2018

Reviewed and Released by: Helen Geoghegan, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	8:50
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46337

Project ID: 180101 134 BILTON RD
Client ID: B1 7.5-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.60	0.65	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	91		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.55	0.55	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	54		%	10	05/17/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/18	CW	SW8081B

Project ID: 180101 134 BILTON RD
Client ID: B1 7.5-8

Phoenix I.D.: CA46337

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	100		%	2	05/16/18	CW	30 - 150 %
% TCMX	63		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
May 18, 2018
Reviewed and Released by: Helen Geoghegan, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	9:00
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46338

Project ID: 180101 134 BILTON RD
Client ID: B1 11-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.59	0.76	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	91		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.55	0.55	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	AA/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	91	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	54		%	10	05/17/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	36	ug/Kg	2	05/16/18	CW	SW8081B

Project ID: 180101 134 BILTON RD
Client ID: B1 11-12

Phoenix I.D.: CA46338

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	86		%	2	05/16/18	CW	30 - 150 %
% TCMX	66		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
May 18, 2018
Reviewed and Released by: Helen Geoghegan, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	9:10
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46339

Project ID: 180101 134 BILTON RD
Client ID: B2 3-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.29	0.72	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	90		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	54		%	10	05/17/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/18	CW	SW8081B

Project ID: 180101 134 BILTON RD
Client ID: B2 3-4

Phoenix I.D.: CA46339

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	86		%	2	05/16/18	CW	30 - 150 %
% TCMX	59		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
May 18, 2018
Reviewed and Released by: Helen Geoghegan, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	9:20
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46340

Project ID: 180101 134 BILTON RD
Client ID: B3 2-2.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.30	0.69	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	90		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.51	0.51	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	40		%	10	05/17/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDE	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/16/18	CW	SW8081B

Ver 1

Project ID: 180101 134 BILTON RD
Client ID: B3 2-2.5

Phoenix I.D.: CA46340

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/16/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	83		%	2	05/16/18	CW	30 - 150 %
% TCMX	61		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	9:30
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46341

Project ID: 180101 134 BILTON RD
Client ID: B4 2-2.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	10.1	0.72	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	89		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.56	0.56	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	92	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	05/17/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	50		%	10	05/17/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	32	7.4	ug/Kg	2	05/18/18	CW	SW8081B
4,4' -DDE	23	7.4	ug/Kg	2	05/18/18	CW	SW8081B
4,4' -DDT	440	74	ug/Kg	20	05/18/18	CW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	05/18/18	CW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	05/18/18	CW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	05/18/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/18/18	CW	SW8081B

Ver 1

Project ID: 180101 134 BILTON RD
Client ID: B4 2-2.5

Phoenix I.D.: CA46341

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	1.5	ug/Kg	2	05/18/18	CW	SW8081B
Dieldrin	30	3.7	ug/Kg	2	05/18/18	CW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Endosulfan sulfate	9.9	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Endrin	13	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/18/18	CW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	05/18/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/18/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/18/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	99		%	2	05/18/18	CW	30 - 150 %
% TCMX	79		%	2	05/18/18	CW	30 - 150 %

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QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
May 18, 2018
Reviewed and Released by: Helen Geoghegan, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	9:40
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46342

Project ID: 180101 134 BILTON RD
Client ID: B5 1.5-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.80	0.83	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	85		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.59	0.59	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	97	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	97	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	190	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	1900	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	97	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	97	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	190	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	190	ug/Kg	10	05/17/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	50		%	10	05/17/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	39	ug/Kg	2	05/16/18	CW	SW8081B

Ver 1

Project ID: 180101 134 BILTON RD
Client ID: B5 1.5-2

Phoenix I.D.: CA46342

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/16/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	68		%	2	05/16/18	CW	30 - 150 %
% TCMX	50		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

Phyllis Shiller, Laboratory Director
May 18, 2018
Reviewed and Released by: Helen Geoghegan, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	9:50
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46343

Project ID: 180101 134 BILTON RD
Client ID: B6 0-0.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.29	0.81	mg/Kg	1	05/15/18	MA	SW6010C
Percent Solid	82		%		05/14/18	AP	SW846-%Solid
Total Cyanide (SW9010C Distill.)	< 0.61	0.61	mg/Kg	1	05/17/18	O/GD	SW9012B
Soil Extraction for Pesticide	Completed				05/15/18	JD/V	SW3545A
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A
Soil Extraction for Herbicide	Completed				05/16/18	S/D	SW8151A
Total Metals Digest	Completed				05/14/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	100	ug/Kg	10	05/17/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	100	ug/Kg	10	05/17/18	CW	SW8151A
2,4-D	ND	200	ug/Kg	10	05/17/18	CW	SW8151A
2,4-DB	ND	2000	ug/Kg	10	05/17/18	CW	SW8151A
Dalapon	ND	100	ug/Kg	10	05/17/18	CW	SW8151A
Dicamba	ND	100	ug/Kg	10	05/17/18	CW	SW8151A
Dichloroprop	ND	200	ug/Kg	10	05/17/18	CW	SW8151A
Dinoseb	ND	200	ug/Kg	10	05/17/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	39		%	10	05/17/18	CW	30 - 150 %
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	7800	300	mg/Kg	5	05/17/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	05/17/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	62		%	5	05/17/18	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	7.0	ug/Kg	2	05/16/18	CW	SW8081B

Ver 1

Project ID: 180101 134 BILTON RD
Client ID: B6 0-0.5

Phoenix I.D.: CA46343

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,4' -DDE	8.6	8.1	ug/Kg	2	05/16/18	CW	SW8081B
4,4' -DDT	71	8.1	ug/Kg	2	05/16/18	CW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Alachlor	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Chlordane	ND	40	ug/Kg	2	05/16/18	CW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Endrin	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Heptachlor epoxide	ND	8.1	ug/Kg	2	05/16/18	CW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	05/16/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/16/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	72		%	2	05/16/18	CW	30 - 150 %
% TCMX	78		%	2	05/16/18	CW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Pesticide Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the affected compounds.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

Phyllis Shiller, Laboratory Director
May 18, 2018
Reviewed and Released by: Helen Geoghegan, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	9:55
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46344

Project ID: 180101 134 BILTON RD
Client ID: B6 5.5-6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		05/14/18	AP	SW846-%Solid
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	5300	560	mg/Kg	10	05/17/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	10	05/17/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	Diluted Out		%	10	05/17/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

Phyllis Shiller, Laboratory Director
May 18, 2018
Reviewed and Released by: Helen Geoghegan, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	10:00
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46345

Project ID: 180101 134 BILTON RD
Client ID: B6 7.5-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		05/14/18	AP	SW846-%Solid
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	2700	270	mg/Kg	5	05/17/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	05/17/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	5	05/17/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

Phyllis Shiller, Laboratory Director
May 18, 2018
Reviewed and Released by: Helen Geoghegan, Project Manager

Environmental Laboratories, Inc.
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Analysis Report

May 18, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	10:05
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46335
Phoenix ID: CA46346

Project ID: 180101 134 BILTON RD
Client ID: B6 11-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		05/14/18	AP	SW846-%Solid
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	05/16/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	64		%	1	05/16/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

Phyllis Shiller, Laboratory Director
May 18, 2018
Reviewed and Released by: Helen Geoghegan, Project Manager

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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

May 18, 2018

QA/QC Data

SDG I.D.: GCA46335

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 430391 (mg/kg), QC Sample No: CA46474 (CA46335, CA46336, CA46337, CA46338, CA46339, CA46340, CA46341, CA46342, CA46343)													
ICP Metals - Soil													
Arsenic	BRL	0.67	2.92	3.20	NC	97.2			82.6			75 - 125	30

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QA/QC Report

May 18, 2018

QA/QC Data

SDG I.D.: GCA46335

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 430383 (mg/Kg), QC Sample No: CA43361 50X (CA46335, CA46336)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.48	<0.48	NC	87.9			109			80 - 120	30
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													
QA/QC Batch 430694 (mg/Kg), QC Sample No: CA46338 50X (CA46337, CA46338, CA46339, CA46340, CA46341, CA46342, CA46343)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.55	<0.55	NC	91.4			108			80 - 120	30
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													

Environmental Laboratories, Inc.
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QA/QC Report

May 18, 2018

QA/QC Data

SDG I.D.: GCA46335

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 430565 (mg/Kg), QC Sample No: CA46167 (CA46335, CA46336, CA46343, CA46344, CA46345, CA46346)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	83	85	2.4				60 - 120	30	
% n-Pentacosane	75	%	74	76	2.7				50 - 150	30	
Comment:											
*The MS/MSD could not be reported due to the presence of ETPH in the original sample. The LCS was within QA/QC criteria.											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 430859 (ug/kg), QC Sample No: CA46335 (CA46335)											
Volatiles - Soil											
1,1,1,2-Tetrachloroethane	ND	5.0	96	98	2.1	99	100	1.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	90	90	0.0	89	88	1.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	103	99	4.0	103	106	2.9	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	95	93	2.1	89	94	5.5	70 - 130	30	
1,1-Dichloroethane	ND	5.0	88	90	2.2	89	89	0.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	88	91	3.4	86	86	0.0	70 - 130	30	
1,1-Dichloropropene	ND	5.0	92	92	0.0	91	92	1.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	104	100	3.9	86	86	0.0	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	95	93	2.1	94	98	4.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	99	94	5.2	85	86	1.2	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	92	91	1.1	92	92	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	104	98	5.9	94	100	6.2	70 - 130	30	
1,2-Dibromoethane	ND	5.0	96	96	0.0	94	97	3.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	91	92	1.1	91	92	1.1	70 - 130	30	
1,2-Dichloroethane	ND	5.0	95	93	2.1	92	95	3.2	70 - 130	30	
1,2-Dichloropropane	ND	5.0	93	93	0.0	90	95	5.4	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	90	91	1.1	92	92	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	93	91	2.2	93	91	2.2	70 - 130	30	
1,3-Dichloropropane	ND	5.0	92	94	2.2	92	96	4.3	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	91	89	2.2	91	90	1.1	70 - 130	30	
2,2-Dichloropropane	ND	5.0	90	91	1.1	87	88	1.1	70 - 130	30	
2-Chlorotoluene	ND	5.0	92	91	1.1	93	95	2.1	70 - 130	30	
2-Hexanone	ND	25	95	89	6.5	86	89	3.4	70 - 130	30	
2-Isopropyltoluene	ND	5.0	100	100	0.0	99	100	1.0	70 - 130	30	
4-Chlorotoluene	ND	5.0	91	90	1.1	92	93	1.1	70 - 130	30	
4-Methyl-2-pentanone	ND	25	101	96	5.1	92	98	6.3	70 - 130	30	
Acetone	ND	10	75	77	2.6	54	58	7.1	70 - 130	30	m
Acrylonitrile	ND	5.0	101	95	6.1	99	99	0.0	70 - 130	30	
Benzene	ND	1.0	92	92	0.0	91	95	4.3	70 - 130	30	
Bromobenzene	ND	5.0	94	96	2.1	97	97	0.0	70 - 130	30	
Bromochloromethane	ND	5.0	92	94	2.2	94	96	2.1	70 - 130	30	
Bromodichloromethane	ND	5.0	98	100	2.0	96	98	2.1	70 - 130	30	

QA/QC Data

SDG I.D.: GCA46335

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bromoform	ND	5.0	103	102	1.0	98	106	7.8	70 - 130	30	
Bromomethane	ND	5.0	95	96	1.0	91	88	3.4	70 - 130	30	
Carbon Disulfide	ND	5.0	97	99	2.0	91	92	1.1	70 - 130	30	
Carbon tetrachloride	ND	5.0	92	95	3.2	91	92	1.1	70 - 130	30	
Chlorobenzene	ND	5.0	89	92	3.3	90	93	3.3	70 - 130	30	
Chloroethane	ND	5.0	92	92	0.0	91	90	1.1	70 - 130	30	
Chloroform	ND	5.0	88	89	1.1	90	91	1.1	70 - 130	30	
Chloromethane	ND	5.0	75	76	1.3	63	64	1.6	70 - 130	30	m
cis-1,2-Dichloroethene	ND	5.0	91	91	0.0	92	96	4.3	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	96	96	0.0	93	94	1.1	70 - 130	30	
Dibromochloromethane	ND	3.0	104	106	1.9	105	107	1.9	70 - 130	30	
Dibromomethane	ND	5.0	98	95	3.1	94	96	2.1	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	63	63	0.0	45	45	0.0	70 - 130	30	l,m
Ethylbenzene	ND	1.0	91	93	2.2	92	94	2.2	70 - 130	30	
Hexachlorobutadiene	ND	5.0	95	90	5.4	69	72	4.3	70 - 130	30	m
Isopropylbenzene	ND	1.0	93	92	1.1	95	94	1.1	70 - 130	30	
m&p-Xylene	ND	2.0	88	89	1.1	90	91	1.1	70 - 130	30	
Methyl ethyl ketone	ND	5.0	85	83	2.4	83	85	2.4	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	101	102	1.0	98	100	2.0	70 - 130	30	
Methylene chloride	ND	5.0	87	87	0.0	85	88	3.5	70 - 130	30	
Naphthalene	ND	5.0	111	107	3.7	98	99	1.0	70 - 130	30	
n-Butylbenzene	ND	1.0	94	90	4.3	89	89	0.0	70 - 130	30	
n-Propylbenzene	ND	1.0	93	90	3.3	93	92	1.1	70 - 130	30	
o-Xylene	ND	2.0	93	94	1.1	94	95	1.1	70 - 130	30	
p-Isopropyltoluene	ND	1.0	94	91	3.2	90	91	1.1	70 - 130	30	
sec-Butylbenzene	ND	1.0	95	93	2.1	92	94	2.2	70 - 130	30	
Styrene	ND	5.0	91	92	1.1	91	93	2.2	70 - 130	30	
tert-Butylbenzene	ND	1.0	90	90	0.0	91	92	1.1	70 - 130	30	
Tetrachloroethene	ND	5.0	93	92	1.1	92	95	3.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	95	90	5.4	87	91	4.5	70 - 130	30	
Toluene	ND	1.0	94	93	1.1	92	95	3.2	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	91	91	0.0	90	92	2.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	95	95	0.0	92	93	1.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	115	110	4.4	107	110	2.8	70 - 130	30	
Trichloroethene	ND	5.0	89	92	3.3	90	94	4.3	70 - 130	30	
Trichlorofluoromethane	ND	5.0	91	91	0.0	86	86	0.0	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	98	99	1.0	93	94	1.1	70 - 130	30	
Vinyl chloride	ND	5.0	82	81	1.2	70	70	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	102	100	2.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	99	%	101	100	1.0	99	98	1.0	70 - 130	30	
% Dibromofluoromethane	97	%	100	97	3.0	99	101	2.0	70 - 130	30	
% Toluene-d8	97	%	103	103	0.0	100	101	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 430483 (ug/Kg), QC Sample No: CA47073 2X (CA46335, CA46336, CA46337, CA46338, CA46339, CA46340, CA46341, CA46342, CA46343)

Pesticides - Soil

4,4' -DDD	ND	1.7	70	98	33.3	66	72	8.7	40 - 140	30	r
4,4' -DDE	ND	1.7	76	93	20.1	96	117	19.7	40 - 140	30	
4,4' -DDT	ND	1.7	75	97	25.6	NC	NC	NC	40 - 140	30	
a-BHC	ND	1.0	66	82	21.6	55	57	3.6	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	

QA/QC Data

SDG I.D.: GCA46335

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Aldrin	ND	1.0	71	85	17.9	59	64	8.1	40 - 140	30
b-BHC	ND	1.0	82	89	8.2	63	63	0.0	40 - 140	30
Chlordane	ND	33	67	79	16.4	64	69	7.5	40 - 140	30
d-BHC	ND	3.3	77	90	15.6	69	74	7.0	40 - 140	30
Dieldrin	ND	1.0	70	87	21.7	59	63	6.6	40 - 140	30
Endosulfan I	ND	3.3	74	91	20.6	61	65	6.3	40 - 140	30
Endosulfan II	ND	3.3	75	92	20.4	61	65	6.3	40 - 140	30
Endosulfan sulfate	ND	3.3	73	90	20.9	57	76	28.6	40 - 140	30
Endrin	ND	3.3	76	87	13.5	69	68	1.5	40 - 140	30
Endrin aldehyde	ND	3.3	74	86	15.0	55	57	3.6	40 - 140	30
Endrin ketone	ND	3.3	75	93	21.4	60	66	9.5	40 - 140	30
g-BHC	ND	1.0	69	84	19.6	55	62	12.0	40 - 140	30
Heptachlor	ND	3.3	79	91	14.1	70	75	6.9	40 - 140	30
Heptachlor epoxide	ND	3.3	75	93	21.4	65	72	10.2	40 - 140	30
Methoxychlor	ND	3.3	76	92	19.0	65	71	8.8	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	94	%	87	101	14.9	84	87	3.5	30 - 150	30
% TCMX	76	%	74	85	13.8	61	63	3.2	30 - 150	30

QA/QC Batch 430665 (ug/Kg), QC Sample No: CA47632 10X (CA46335, CA46336, CA46337, CA46338, CA46339, CA46340, CA46341, CA46342, CA46343)

Chlorinated Herbicides - Soil

2,4,5-T	ND	83	60	72	18.2	51	63	21.1	40 - 140	30
2,4,5-TP (Silvex)	ND	83	62	68	9.2	50	61	19.8	40 - 140	30
2,4-D	ND	170	69	67	2.9	60	68	12.5	40 - 140	30
2,4-DB	ND	1700	74	70	5.6	54	67	21.5	40 - 140	30
Dalapon	ND	83	52	60	14.3	39	46	16.5	40 - 140	30
Dicamba	ND	83	63	65	3.1	62	71	13.5	40 - 140	30
Dichloroprop	ND	170	70	78	10.8	63	76	18.7	40 - 140	30
Dinoseb	ND	170	54	58	7.1	48	62	25.5	40 - 140	30
% DCAA (Surrogate Rec)	48	%	53	51	3.8	47	56	17.5	30 - 150	30

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 18, 2018

Friday, May 18, 2018

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCA46335 - NORTHSTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CA46335	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	14	7.4	3	3	ug/Kg
CA46335	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	120	74	3	3	ug/Kg
CA46335	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	37	7.4	3	3	ug/Kg
CA46335	$PEST_SMR	Dieldrin	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	22	3.7	7	7	ug/Kg
CA46341	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	32	7.4	3	3	ug/Kg
CA46341	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	23	7.4	3	3	ug/Kg
CA46341	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	440	74	3	3	ug/Kg
CA46341	$PEST_SMR	Dieldrin	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	30	3.7	7	7	ug/Kg
CA46341	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	10.1	0.72	10	10	mg/Kg
CA46343	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	7800	300	500	500	mg/Kg
CA46343	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	7800	300	500	500	mg/Kg
CA46343	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	ND	7.0	3	3	ug/Kg
CA46343	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	8.6	8.1	3	3	ug/Kg
CA46343	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	71	8.1	3	3	ug/Kg
CA46344	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	5300	560	500	500	mg/Kg
CA46344	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	5300	560	500	500	mg/Kg
CA46345	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	2700	270	500	500	mg/Kg
CA46345	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	2700	270	500	500	mg/Kg

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

May 18, 2018 SDG I.D.: GCA46335

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

PEST Narration

AU-ECD4 05/17/18-1: CA46335, CA46341

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CA46335, CA46341
Preceding CC 517A026 - % DCBP 28%L (20%)
Succeeding CC 517A052 - None.

VOA Narration

CHEM14 05/16/18-1: CA46335

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 25% (20%), Bromoform 23% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

PHOENIX
Environmental Laboratories, Inc.

Thursday, May 17, 2018

Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Project ID: 180101 134 BILTON RD
Sample ID#s: CA46332 - CA46334

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 17, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	10:10
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46332
Phoenix ID: CA46332

Project ID: 180101 134 BILTON RD
Client ID: B7 5.5-6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		05/14/18	AP	SW846-%Solid
Extraction of CT ETPH	Completed				05/15/18	JC/T	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	390	56	mg/Kg	1	05/16/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	05/16/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	81		%	1	05/16/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

Phyllis Shiller, Laboratory Director
May 17, 2018
Reviewed and Released by: Helen Geoghegan, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 17, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	10:15
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46332
Phoenix ID: CA46333

Project ID: 180101 134 BILTON RD
Client ID: B7 7.5-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		05/14/18	AP	SW846-%Solid
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	05/16/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	76		%	1	05/16/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

Phyllis Shiller, Laboratory Director
May 17, 2018
Reviewed and Released by: Helen Geoghegan, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 17, 2018

FOR: Attn:
Northstar Environmental
800 Village Walk No.325
Guilford, CT 06437

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KF	05/11/18	10:20
Location Code:	NORTHSTR	Received by:	CP	05/14/18	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA46332
Phoenix ID: CA46334

Project ID: 180101 134 BILTON RD
Client ID: B7 10-10.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		05/14/18	AP	SW846-%Solid
Extraction of CT ETPH	Completed				05/15/18	JC/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/16/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	05/16/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	64		%	1	05/16/18	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.

Phyllis Shiller, Laboratory Director
May 17, 2018
Reviewed and Released by: Helen Geoghegan, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

May 17, 2018

QA/QC Data

SDG I.D.: GCA46332

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 430565 (mg/Kg), QC Sample No: CA46167 (CA46332, CA46333, CA46334)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	83	85	2.4				60 - 120	30
% n-Pentacosane	75	%	74	76	2.7				50 - 150	30

Comment:

*The MS/MSD could not be reported due to the presence of ETPH in the original sample. The LCS was within QA/QC criteria.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 17, 2018

Thursday, May 17, 2018

Criteria: CT: GAM, RC

State: CT

Sample Criteria Exceedances Report

GCA46332 - NORTHSTR

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

May 17, 2018 SDG I.D.: GCA46332

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

CHAIN OF CUSTODY RECORD

Temp 1.9 °C Pg of

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[ ] Email:

Customer: North Star
Address:

Project: 180101 134 Bilton Rd
Report to: NorthStar
Invoice to: North Star

Project P.O:

This section MUST be completed with Bottle Quantities.

Sampler's Signature: Kristen Ferreira Date: 5/11/18

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	ETPH	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container (4) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
46332	B7 5.5-6	S	5/11/18	1010	✓				✓								
46333	B7 7.5-8	↓	↓	1015	✓				✓								
46334	B7 10-10.5	↓	↓	1020	✓				✓								

Relinquished by:	Accepted by:	Date:	Time:
K. Ferreira	Dan C	5/14/18	13:55
Dan C	Caroline	5/14/18	1540

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[✓] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[✓] GA Mobility
[ ] GB Mobility
[✓] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1
[ ] GW-2
[ ] GW-3
[ ] S-1
[ ] S-2
[ ] S-3
[ ] MWRA eSMART
[ ] Other

State where samples were collected: CT

Data Format
[✓] Excel
[✓] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[✓] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Exhibit D

Bilton Phase 3 Report

NORTHSTAR
ENVIRONMENTAL MANAGEMENT, LLC

November 21, 2019

Mr. Christopher Little
Ecos Energy
222 South 9th Street, Suite 1600
Minneapolis, MN 55402

RE: Petroleum Storage Tank Removal
and Soil Remediation
134 Bilton Road, Somers, CT
NorthStar Project No. 180101D

Dear Mr. Little:

NorthStar Environmental Management, LLC (NorthStar) is pleased to present herewith this underground storage tank closure and soil remediation report for the above-referenced property.

A 550-gallon gasoline UST and a 350-gallon diesel UST were removed from the subject property on October 8, 2018. The tanks had been improperly abandoned on the property by the former property owner. Holes were apparent in the gasoline UST and obvious soil contamination was present. The diesel UST appeared to be intact. An initial excavation of approximately 30 feet long by 3 feet wide by 10 feet deep reveal substantial petroleum contamination beyond the extents excavated. A small area of superficial ETPH contamination in the area of a former heating oil AST was also excavated at this time. Approximately 50 tons of soil was excavated and stock piled on site before rainy weather precluded further excavation. The stock piled soil was placed on plastic and covered with plastic.

Frequent heavy rains hindered work at the site for the next five to six months. The excavation eventually filled with rain water and the ground on the property became saturated and nearly impossible to work on. On April 1, 2019 the water in the excavation hole was sampled to determine if it was impacted from the contaminated soil. No odors or sheen were observed on the water and no VOCs were detected in the water based on an EPA Method 8260C analysis. The water was pumped out of the excavation hole to a drainage area and the excavation was continued.

On April 10, 2019 an additional 100 tons of contaminated soil were excavate. The excavation averaged 8 to 10 feet deep with one area up to 20 feet deep.

By April 18, 2019, NorthStar reached relatively clean soil to the east and west sides of the excavation but still needed to further explore contaminated soil to the north and south. At this

point the excavation was 50 feet long (east/west axis) by 20 feet wide (N/S axis) by 14 feet deep on average with a maximum depth of 20 feet. Approximately 200 tons of soil had been excavated and stock piled on site.

NorthStar recommended that augur test borings and monitoring wells be conducted to better characterize soil and groundwater contamination in the area.

NorthStar conducted six test borings around the area of the former underground storage tanks using a auger drill rig operated by Martin Geoenvironmental LLC in order to better characterized petroleum contamination on the subject property as a result of historic leaking of gasoline and diesel underground storage tanks. Test boring locations are illustrated in Figure 1. Monitoring wells were installed in borings AB-2 north of the tank grave and AB-6 located south of the tank grave. The other borings were conducted across the groundwater table thus provide additional information on groundwater quality. The groundwater table was encountered at approximately 13 feet below grade. Soil encountered in the test borings is a tightly packed till consisting predominantly of fines such as fine sand, silt and clay with 25 to 30% medium to course grave, cobbles and boulders. Test boring logs are included in Appendix A.

Soil samples were collected in various borings at 10-12 feet, 15-17 feet and 20-22 feet below grade. In test boring AB-6 where a petroleum odor was very noticeable, samples were also collected at 24-26 feet below grade. Temporary monitoring wells were installed in test borings AB-2 (MW-1) and AB-6 (MW-2).

Soil and groundwater sample results are presented in Table 1 and the laboratory data reports are included in Appendix B. No petroleum contamination was detected in test borings AB-1, AB-2, AB-3, and AB-4, or in monitoring well MW-1 all located north, east, and west of the tank grave. This was unexpected as area topography slopes toward the northeast. Petroleum contamination (mostly gasoline) was encountered in test borings AB-5, AB-6 and monitoring well MW-2 located south of the tank grave. Although petroleum contamination in soil was detected in test borings AB-5 and AB-6, it did not exceed an applicable remediation standard and was only detected in soil samples collected below the groundwater table. The groundwater sample from monitoring well MW-2 on the other hand contained volatile organic compounds consistent with gasoline that exceed the Groundwater Protection Criteria, the Surface Water Protection Criteria and the Residential Groundwater Volatilization Criteria. NorthStar collected a sample from the property's drinking water well which is about 40 feet from monitoring well MW-2 and it contained no detectable volatile organic compounds indicating that the contaminant plume had not yet reached that location.

NorthStar opined that the bulk of the soil contamination had been effectively excavated. Additional excavation would not likely improve groundwater quality to a notable degree and could mobilize the contamination. The groundwater contamination did not appear to be migrating off site. Given that the source of contamination has been removed, petroleum constituents in groundwater should diminish over time as a result of natural attenuation (i.e., natural biological, physical and chemical remediation processes). NorthStar recommends that monitoring well MW-2 be sampled once a year to monitor the natural attenuation process. In addition, the drinking water well for the residence should be tested for VOCs on an annual basis. Finally, because certain VOCs exceeded the Groundwater Volatilization Criterion, air samples should be collected inside the house on an annual basis and analyzed for volatile organic compounds to ensure that the occupants are not exposed to VOCs as a result of vapor intrusion. Air quality should be tested during the winter when doors and windows are kept closed.

The final extents of the soil excavation are shown in Figure 1. The AST surficial soil excavation was excavated to approximately 12 feet below grade at which point an ETPH concentration of 130 mg/kg was detected. The AST confirmatory sample result is included in Appendix C. The Residential Direct Exposure Criterion and GA Pollutant Mobility Criterion for ETPH in soil is 500 mg/kg.

On July 8, 2019 NorthStar collected samples from the stockpiled soil to characterize it for disposal. After communicating with several disposal firms, Ondrick Material and Recycling was selected as the best place to ship the soil. On October 1, 2019 Ondrick approved the soil for shipment to their facility (19-09-M-6385CT). A total of 237 tons of soil were loaded and transported to Ondrick on October 16 and 17, 2019. Shipping logs and weight tickets from Ordrick is included in Appendix D.

We trust that this report will be responsive to your needs and appreciate the opportunity to be of continued service to your office. Please feel free to call if you have any questions or if you would like to discuss this report.

Very truly yours,
NorthStar Environmental Management, LLC

Kristie Ferreira, LEP
Principal

Jean Bissonnette
Project Manager

Figures

800 Village Walk, No. 325, Guilford, CT 06437
Phone (203) 458-3426 • Fax (203) 458-1597 • e-mail: northstar_environmental@hotmail.com

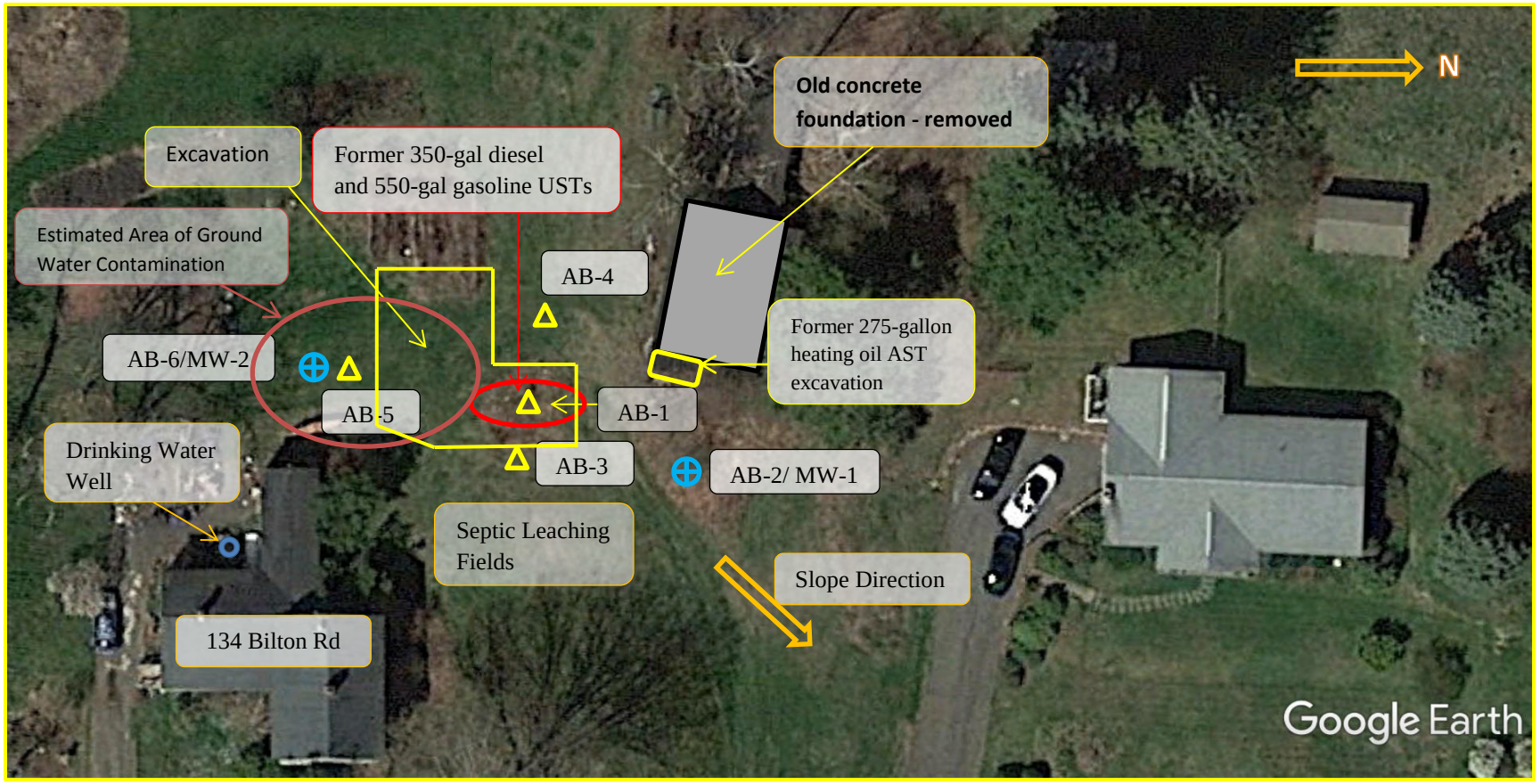

Figure 1
Test Boring Locations and Area of Soil Excavation
134 Bilton Road, Somers, CT
1 inch = 40 feet

Tables

800 Village Walk, No. 325, Guilford, CT 06437
Phone (203) 458-3426 • Fax (203) 458-1597 • e-mail: northstar_environmental@hotmail.com

Table 1.
Soil Sample Results

Client:	Northstar Environmental Mgt LLC
Project:	180101C, 134 Bilton Rd, Somers
ProjectNumber:	[none]
Matrix:	Soil
Collect Dates:	5/9/2019 Thru 5/9/2019

Lab Number					9050305-01		9050305-02		9050305-03		9050305-04		9050305-05	
Sampled Name					AB1 20		AB1 30		AB2 20		AB3 15		AB3 20	
Sampled Date					5/9/2019		5/9/2019		5/9/2019		5/9/2019		5/9/2019	
Parameter	GA PMC	GB PMC	I/C DEC	RES DEC	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
CT-ETPH (mg/kg)														
ETPH	500	2500	2500	500	<58		<56		<56		<55		<58	
EPA 8260C (ug/Kg)														
Benzene	20	200	200000	21000	<4.0		<3.0		<4.4		<5.2		<4.1	
Bromobenzene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
n-Butylbenzene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
sec-Butylbenzene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
tert-Butylbenzene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
Chlorobenzene	2000	20000	1000000	500000	<4.0		<3.0		<4.4		<5.2		<4.1	
2-Chlorotoluene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
4-Chlorotoluene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
1,2-Dichlorobenzene	3100	3100	1000000	500000	<4.0		<3.0		<4.4		<5.2		<4.1	
1,3-Dichlorobenzene	12000	120000	1000000	500000	<4.0		<3.0		<4.4		<5.2		<4.1	
1,4-Dichlorobenzene	1500	15000	240000	26000	<4.0		<3.0		<4.4		<5.2		<4.1	
Ethylbenzene	10100	10100	1000000	500000	<4.0		<3.0		<4.4		<5.2		<4.1	
Hexachlorobutadiene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
isopropylbenzene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
4-Isopropyltoluene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
Methyl-t-Butyl Ether (MTBE)	2000	20000	1000000	500000	<4.0		<3.0		<4.4		<5.2		<4.1	
Naphthalene	5600	56000	2500000	1000000	<4.0		<3.0		<4.4		<5.2		<4.1	
n-Propylbenzene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
Styrene	2000	20000	1000000	500000	<4.0		<3.0		<4.4		<5.2		<4.1	
Toluene	20000	67000	1000000	500000	<4.0		<3.0		<4.4		<5.2		<4.1	
1,2,3-Trichlorobenzene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
1,2,4-Trichlorobenzene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
1,2,4-Trimethylbenzene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
1,3,5-Trimethylbenzene	NA	NA	NA	NA	<4.0		<3.0		<4.4		<5.2		<4.1	
m+p Xylenes	19500	19500	1000000	500000	<4.0		<3.0		<4.4		<5.2		<4.1	
o-Xylene	19500	19500	1000000	500000	<4.0		<3.0		<4.4		<5.2		<4.1	
SM 2540 G (%)														
Percent Solids	NA	NA	NA	NA	85		88		88		89		84	

Notes:

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Qualifiers:

Table 1. Continued
Soil Sample Results

Client:	Northstar Environmental Mgt LLC
Project:	AB Bilton Rd
ProjectNumber:	[none]
Matrix:	Soil
Collect Dates:	5/10/2019 Thru 5/10/2019

Lab Number					9050355-01		9050355-02		9050355-03	
Sampled Name					AB4 15-17ft		AB4 20-22ft		AB5 10-12ft	
Sampled Date					5/10/2019		5/10/2019		5/10/2019	
Parameter	GA PMC	GB PMC	I/C DEC	RES DEC	Value	Qual	Value	Qual	Value	Qual
CT-ETPH (mg/kg)										
ETPH	500	2500	2500	500	<55		<58		<55	
EPA 8260C (ug/Kg)										
Benzene	20	200	200000	21000	<3.7		<3.7		<4.1	
Bromobenzene	NA	NA	NA	NA	<3.7		<3.7		<4.1	
n-Butylbenzene	NA	NA	NA	NA	<3.7		<3.7		<4.1	
sec-Butylbenzene	NA	NA	NA	NA	<3.7		<3.7		<4.1	
tert-Butylbenzene	NA	NA	NA	NA	<3.7		<3.7		<4.1	
Chlorobenzene	2000	20000	1000000	500000	<3.7		<3.7		<4.1	
2-Chlorotoluene	NA	NA	NA	NA	<3.7		<3.7		<4.1	
4-Chlorotoluene	NA	NA	NA	NA	<3.7		<3.7		<4.1	
1,2-Dichlorobenzene	3100	3100	1000000	500000	<3.7		<3.7		<4.1	
1,3-Dichlorobenzene	12000	120000	1000000	500000	<3.7		<3.7		<4.1	
1,4-Dichlorobenzene	1500	15000	240000	26000	<3.7		<3.7		<4.1	
Ethylbenzene	10100	10100	1000000	500000	<3.7		<3.7		<4.1	
Hexachlorobutadiene	NA	NA	NA	NA	<3.7		<3.7		<4.1	
isopropylbenzene	NA	NA	NA	NA	<3.7		<3.7		<4.1	
4-Isopropyltoluene	NA	NA	NA	NA	<3.7		<3.7		<4.1	
Methyl-t-Butyl Ether (MTBE)	2000	20000	1000000	500000	<3.7		<3.7		<4.1	
Naphthalene	5600	56000	2500000	1000000	<7.4		<7.3		<8.2	
n-Propylbenzene	NA	NA	NA	NA	<3.7		<3.7		<4.1	
Styrene	2000	20000	1000000	500000	<3.7		<3.7		<4.1	
Toluene	20000	67000	1000000	500000	<3.7		<3.7		<4.1	
1,2,3-Trichlorobenzene	NA	NA	NA	NA	<7.4		<7.3		<8.2	
1,2,4-Trichlorobenzene	NA	NA	NA	NA	<3.7		<3.7		<4.1	
1,2,4-Trimethylbenzene	NA	NA	NA	NA	<3.7		<3.7		<4.1	
1,3,5-Trimethylbenzene	NA	NA	NA	NA	<3.7		<3.7		<4.1	
m+p Xylenes	19500	19500	1000000	500000	<3.7		<3.7		<4.1	
o-Xylene	19500	19500	1000000	500000	<3.7		<3.7		<4.1	
SM 2540 G (%)										
Percent Solids	NA	NA	NA	NA	90		86		90	

Notes:

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Qualifiers:

Table 1. Continued
Soil Sample Results

Client:	Northstar Environmental Mgt LLC
Project:	180101C, 134 Bilton Rd, Somers
ProjectNumber:	[none]
Matrix:	Soil
Collect Dates:	5/13/2019 Thru 5/13/2019

Lab Number					9050382-01		9050382-02		9050382-03	
Sampled Name					AB5 15-17ft		AB6 15-17ft		AB6 24-26ft	
Sampled Date					5/13/2019		5/13/2019		5/13/2019	
Parameter	GA PMC	GB PMC	I/C DEC	RES DEC	Value	Qual	Value	Qual	Value	Qual
CT-ETPH (mg/kg)										
ETPH	500	2500	2500	500			<55		<55	
EPA 8260C (ug/Kg)										
Benzene	20	200	200000	21000	<3.7		<3.3		<3.5	
Bromobenzene	NA	NA	NA	NA	<3.7		<3.3		<3.5	
n-Butylbenzene	NA	NA	NA	NA	<3.7		<3.3		<3.5	
sec-Butylbenzene	NA	NA	NA	NA	<3.7		<3.3		<3.5	
tert-Butylbenzene	NA	NA	NA	NA	<3.7		<3.3		<3.5	
Chlorobenzene	2000	20000	1000000	500000	<3.7		<3.3		<3.5	
2-Chlorotoluene	NA	NA	NA	NA	<3.7		<3.3		<3.5	
4-Chlorotoluene	NA	NA	NA	NA	<3.7		<3.3		<3.5	
1,2-Dichlorobenzene	3100	3100	1000000	500000	<3.7		<3.3		<3.5	
1,3-Dichlorobenzene	12000	120000	1000000	500000	<3.7		<3.3		<3.5	
1,4-Dichlorobenzene	1500	15000	240000	26000	<3.7		<3.3		<3.5	
Ethylbenzene	10100	10100	1000000	500000	<3.7		<3.3		4.9	
Hexachlorobutadiene	NA	NA	NA	NA	<3.7		<3.3		<3.5	
isopropylbenzene	NA	NA	NA	NA	<3.7		<3.3		<3.5	
4-Isopropyltoluene	NA	NA	NA	NA	<3.7		<3.3		<3.5	
Methyl-t-Butyl Ether (MTBE)	2000	20000	1000000	500000	<3.7		<3.3		<3.5	
Naphthalene	5600	56000	2500000	1000000	7.8		<3.3		4	
n-Propylbenzene	NA	NA	NA	NA	<3.7		<3.3		<3.5	
Styrene	2000	20000	1000000	500000	<3.7		<3.3		<3.5	
Toluene	20000	67000	1000000	500000	<3.7		<3.3		9.5	
1,2,3-Trichlorobenzene	NA	NA	NA	NA	<3.7		<3.3		<3.5	
1,2,4-Trichlorobenzene	NA	NA	NA	NA	<3.7		<3.3		<3.5	
1,2,4-Trimethylbenzene	NA	NA	NA	NA	<3.7		<3.3		4.1	
1,3,5-Trimethylbenzene	NA	NA	NA	NA	<3.7		<3.3		<3.5	
m+p Xylenes	19500	19500	1000000	500000	<3.7		<3.3		15	
o-Xylene	19500	19500	1000000	500000	<3.7		<3.3		3.5	
SM 2540 G (%)										
Percent Solids	NA	NA	NA	NA	90		90		90	

Notes:

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Qualifiers:

Table 2
Groundwater Sample Results
MW-1

Client:	Northstar Environmental Mgt LLC					
Project:	AB Bilton Rd					
ProjectNumber:	[none]					
Matrix:	Water					
Collect Dates:	5/10/2019 Thru 5/10/2019					
Lab Number					9050355-04	
Sampled Name					MW-1	
Sampled Date					5/10/2019	
Parameter	GWPC	SWPC	I/C GWVC	Res GWVC	Value	Qual
EPA 8260C (ug/L)						
Benzene	1	710	530	215	<1.0	
Bromobenzene	NA	NA	NA	NA	<1.0	
n-Butylbenzene	NA	NA	NA	NA	<1.0	
sec-Butylbenzene	NA	NA	NA	NA	<1.0	
tert-Butylbenzene	NA	NA	NA	NA	<1.0	
Chlorobenzene	100	420000	6150	1800	<1.0	
2-Chlorotoluene	NA	NA	NA	NA	<1.0	
4-Chlorotoluene	NA	NA	NA	NA	<1.0	
1,2-Dichlorobenzene	600	170000	50000	30500	<1.0	
1,3-Dichlorobenzene	600	26000	50000	24200	<1.0	
1,4-Dichlorobenzene	75	26000	50000	50000	<1.0	
Ethylbenzene	700	580000	50000	50000	<1.0	
Hexachlorobutadiene	NA	NA	NA	NA	<0.45	
isopropylbenzene	NA	NA	NA	NA	<1.0	
4-Isopropyltoluene	NA	NA	NA	NA	<1.0	
Methyl-t-Butyl Ether (MTBE)	100	NE	50000	50000	<5.0	
Naphthalene	280	NE	NE	NE	<1.0	
n-Propylbenzene	NA	NA	NA	NA	<1.0	
Styrene	100	NE	2065	580	<1.0	
Toluene	1000	4000000	50000	23500	<1.0	
1,2,3-Trichlorobenzene	NA	NA	NA	NA	<1.0	
1,2,4-Trichlorobenzene	NA	NA	NA	NA	<1.0	
1,2,4-Trimethylbenzene	NA	NA	NA	NA	<1.0	
1,3,5-Trimethylbenzene	NA	NA	NA	NA	<1.0	
m+p Xylenes	530	NE	50000	21300	<1.0	
o-Xylene	530	NE	50000	21300	<1.0	
Notes:						
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Qualifiers:						

Table 2 (Continued) MW-2 and Dug Well

Client:	Northstar Environmental Mgt LLC									
Project:	180101C, 134 Bilton Rd, Somers									
ProjectNumber:	180101C, 134 Bilton Rd, Somers									
Matrix:	Water									
Collect Dates:	5/13/2019 Thru 5/13/2019									
Lab Number					9050382-04		9050382-04RE1		9050382-05	
Sampled Name					MW-2		MW-2		Dug Well	
Sampled Date					5/13/2019		5/13/2019		5/13/2019	
Parameter	GWPC	SWPC	I/C GWVC	Res GWVC	Value	Qual	Value	Qual	Value	Qual
EPA 524.2 (ug/L)										
Benzene	1	710	530	215					<0.50	
Bromobenzene	NA	NA	NA	NA					<0.50	
n-Butylbenzene	NA	NA	NA	NA					<0.50	
sec-Butylbenzene	NA	NA	NA	NA					<0.50	
tert-Butylbenzene	NA	NA	NA	NA					<0.50	
Chlorobenzene	100	420000	6150	1800					<0.50	
2-Chlorotoluene	NA	NA	NA	NA					<0.50	
4-Chlorotoluene	NA	NA	NA	NA					<0.50	
1,2-Dichlorobenzene	600	170000	50000	30500					<0.50	
1,3-Dichlorobenzene	600	26000	50000	24200					<0.50	
1,4-Dichlorobenzene	75	26000	50000	50000					<0.50	
Ethylbenzene	700	580000	50000	50000					<0.50	
Hexachlorobutadiene	NA	NA	NA	NA					<0.50	
isopropylbenzene	NA	NA	NA	NA					<0.50	
4-Isopropyltoluene	NA	NA	NA	NA					<0.50	
Methyl-t-Butyl Ether (MTBE)	100	NE	50000	50000					<1.0	
Naphthalene	280	NE	NE	NE					<0.50	
n-Propylbenzene	NA	NA	NA	NA					<0.50	
Styrene	100	NE	2065	580					<0.50	
Toluene	1000	4000000	50000	23500					<0.50	
1,2,3-Trichlorobenzene	NA	NA	NA	NA					<0.50	
1,2,4-Trichlorobenzene	NA	NA	NA	NA					<0.50	
1,2,4-Trimethylbenzene	NA	NA	NA	NA					<0.50	
1,3,5-Trimethylbenzene	NA	NA	NA	NA					<0.50	
m+p Xylenes	530	NE	50000	21300					<0.50	
o-Xylene	530	NE	50000	21300					<0.50	
EPA 524.2 TICs (ug/L)										
No Tentatively Identified Com	NA	NA	NA	NA					<2.0	
EPA 8260C (ug/L)										
Benzene	1	710	530	215	840	E	1000			
Bromobenzene	NA	NA	NA	NA	<1.0		<200			
n-Butylbenzene	NA	NA	NA	NA	24		<200			
sec-Butylbenzene	NA	NA	NA	NA	12		<200			
tert-Butylbenzene	NA	NA	NA	NA	<1.0		<200			
Chlorobenzene	100	420000	6150	1800	<1.0		<200			
2-Chlorotoluene	NA	NA	NA	NA	<1.0		<200			
4-Chlorotoluene	NA	NA	NA	NA	<1.0		<200			
1,2-Dichlorobenzene	600	170000	50000	30500	<1.0		<200			
1,3-Dichlorobenzene	600	26000	50000	24200	<1.0		<200			
1,4-Dichlorobenzene	75	26000	50000	50000	<1.0		<200			
Ethylbenzene	700	580000	50000	50000	590	E	3500			
Hexachlorobutadiene	NA	NA	NA	NA	<0.45		<90			
isopropylbenzene	NA	NA	NA	NA	110		<200			
4-Isopropyltoluene	NA	NA	NA	NA	6.3		<200			
Methyl-t-Butyl Ether (MTBE)	100	NE	50000	50000	<5.0		<1000			
Naphthalene	280	NE	NE	NE	370	E	1100			
n-Propylbenzene	NA	NA	NA	NA	240	E	320			
Styrene	100	NE	2065	580	26		<200			
Toluene	1000	4000000	50000	23500	1900	E	22000			
1,2,3-Trichlorobenzene	NA	NA	NA	NA	<1.0		<200			
1,2,4-Trichlorobenzene	NA	NA	NA	NA	<1.0		<200			
1,2,4-Trimethylbenzene	NA	NA	NA	NA	500	E	2400			
1,3,5-Trimethylbenzene	NA	NA	NA	NA	380	E	740			
m+p Xylenes	530	NE	50000	21300	1700	E	13000			
o-Xylene	530	NE	50000	21300	620	E	2400			
Notes:										
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Qualifiers: E	The result is estimated above the calibration range.									

Appendices

800 Village Walk, No. 325, Guilford, CT 06437
Phone (203) 458-3426 • Fax (203) 458-1597 • e-mail: northstar_environmental@hotmail.com

NORTHSTAR
ENVIRONMENTAL MANAGEMENT, LLC

Appendix A
Test Boring Logs

800 Village Walk, No. 325, Guilford, CT 06437
Phone (203) 458-3426 • Fax (203) 458-1597 • e-mail: northstar_environmental@hotmail.com

Martin

Geo-Environmental, LLC

Drilling Contractors

P.O. Box 646
Belchertown, MA 01007 Tel: (413) 323-8700

Boring #: AB-1 Start: 5-9-2019 Finish: 5-9-2019

Sheet: 1 of 1

Client: NorthStar Env. Inspector: J.B.

Project: Residence #:

Location: 134 Bilton Rd. Somers CT

Well Locus: _____

Drill/Crew: J.M.

Auger 4.25 ID	Casing Size	Sampling 5’	Core Barrel	Utility Clearance #: Town Permit #:

Sample No.	Depth Range	Blows per 6 “ 0-6	6-12	12-18	18-24	REC.	Strata Change	Sample Descriptions
								No Sampling require to 20’’
S-1	20-	31	51	61	68	22”		Red SILT and fine SAND, little gravel, trace clay. (till) WET
	22’							
								EOB 22’ Water @ 13 No odors
S-2	30-	23	34	49	58	24”		Red SILT, little fine-medium sand, trace gravel, trace clay.
	32’							(till) WET
								EOB 32’ Water @ 14-15’ No odors

Field Obs. Only	Location:		Rig: Mobile B-53
Portions Used Trace: 0-10% Little: 10-20% Some: 20-35% And: 35-50%	Weather:		Hammer: 140#

Martin

Geo-Environmental, LLC

Drilling Contractors

P.O. Box 646
Belchertown, MA 01007 Tel: (413) 323-8700

Boring #: AB-2 Start: 5-9-2019 Finish: 5-9-2019

Sheet: 1 of 1

Client: NorthStar Env. Inspector: J.B.

Project: Residence #:

Location: 134 Bilton Rd. Somers CT

Well Locus: _____

Drill/Crew: J.M.

Auger 4.25 ID	Casing Size	Sampling 5’	Core Barrel	Utility Clearance #: Town Permit #:

Sample No.	Depth Range	Blows per 6 “ 0-6	6-12	12-18	18-24	REC.	Strata Change	Sample Descriptions
								No Sampling require to 15’
S-1	15-	17	23	100/5”		17”		Red SILT and fine SAND, little gravel, little clay. (till) WET
	17’							
S-1	20-	49				6”		Red TILL WET
	22’							(hammer broke)
								EOB 20’ Water @ 13-14’ No odors
								Set 2” PVC well at 20’
								Screen 10-20’
								Riser +2’-10’
								Sand pack 8-20’
								Bentonite seal 6-8’
								Native 0-6’

Field Obs. Only	Location:		Rig: Mobile B-53
Portions Used Trace: 0-10% Little: 10-20% Some: 20-35% And: 35-50%	Weather:		Hammer: 140#

Martin

Geo-Environmental, LLC

Drilling Contractors

P.O. Box 646
Belchertown, MA 01007 Tel: (413) 323-8700

Boring #: AB-3 Start: 5-9-2019 Finish: 5-9-2019

Sheet: 1 of 1

Client: NorthStar Env. Inspector: J.B.

Project: Residence #:

Location: 134 Bilton Rd. Somers CT

Well Locus: _____

Drill/Crew: J.M.

Auger 4.25 ID	Casing Size	Sampling 5’	Core Barrel	Utility Clearance #: Town Permit #:

Sample No.	Depth Range	Blows per 6 “ 0-6	6-12	12-18	18-24	REC.	Strata Change	Sample Descriptions
								No Sampling require to 15’
S-1	15-	22	34	68	45	20”		Red fine-medium SAND and SILT, little gravel. (till) WET
	17’							
S-2	20-	23	38	44	41	18”		Red SILT and fine SAND, little medium sand, little gravel, little clay.
	22’							(till) WET
								EOB 22’ Water @ 13 No odors

Field Obs. Only	Location:		Rig: Mobile B-53
Portions Used Trace: 0-10% Little: 10-20% Some: 20-35% And: 35-50%	Weather:		Hammer: 140#

NORTHSTAR
ENVIRONMENTAL MANAGEMENT, LLC

Appendix B
Laboratory Data Reports

800 Village Walk, No. 325, Guilford, CT 06437
Phone (203) 458-3426 • Fax (203) 458-1597 • e-mail: northstar_environmental@hotmail.com

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Kristie Ferreira
Northstar Environmental Mgt LLC
1100 Boston Post Road
Guilford, CT 06437

Analytical Report

CET# 9050305

Report Date:May 15, 2019
Project: 180101C, 134 Bilton Rd, Somers

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 2.6°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
AB1 20	9050305-01	Soil	5/09/2019	05/10/2019
AB1 30	9050305-02	Soil	5/09/2019	05/10/2019
AB2 20	9050305-03	Soil	5/09/2019	05/10/2019
AB3 15	9050305-04	Soil	5/09/2019	05/10/2019
AB3 20	9050305-05	Soil	5/09/2019	05/10/2019

Analyte: Percent Solids [SM 2540 G]

Analyst: JRO

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9050305-01	AB1 20	85	1.0	%	1	B9E1416	05/14/2019	05/15/2019 12:00	
9050305-02	AB1 30	88	1.0	%	1	B9E1416	05/14/2019	05/15/2019 12:00	
9050305-03	AB2 20	88	1.0	%	1	B9E1416	05/14/2019	05/15/2019 12:00	
9050305-04	AB3 15	89	1.0	%	1	B9E1416	05/14/2019	05/15/2019 12:00	
9050305-05	AB3 20	84	1.0	%	1	B9E1416	05/14/2019	05/15/2019 12:00	

Client Sample ID AB1 20

Lab ID: 9050305-01

Conn. Extractable TPH **Analyst: KER**

Method: CT-ETPH **Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	58	1	EPA 3550C	B9E1103	05/11/2019	05/12/2019 18:26	
Surrogate: Octacosane	*105 %*	*50 - 150*			B9E1103	05/11/2019	*05/12/2019 18:26*	

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
Benzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
Toluene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
Chlorobenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
Ethylbenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
m+p Xylenes	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
o-Xylene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
Styrene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
Isopropylbenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
Bromobenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
n-Propylbenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
2-Chlorotoluene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
4-Chlorotoluene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
1,3,5-Trimethylbenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
tert-Butylbenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
1,2,4-Trimethylbenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
sec-Butylbenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
1,3-Dichlorobenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
4-Isopropyltoluene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
1,4-Dichlorobenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
1,2-Dichlorobenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
n-Butylbenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
1,2,4-Trichlorobenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
Hexachlorobutadiene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
Naphthalene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	
1,2,3-Trichlorobenzene	ND	4.0	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:03	

Client Sample ID AB1 20

Lab ID: 9050305-01

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg)	RL (ug/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*92.3 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 13:03*	
Surrogate: Toluene-d8	*95.7 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 13:03*	
Surrogate: 4-Bromofluorobenzene	*118 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 13:03*	

Client Sample ID AB1 30

Lab ID: 9050305-02

Conn. Extractable TPH **Analyst: KER**

Method: CT-ETPH **Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	56	1	EPA 3550C	B9E1336	05/13/2019	05/13/2019 22:12	
Surrogate: Octacosane	*85.0 %*	*50 - 150*			B9E1336	05/13/2019	*05/13/2019 22:12*	

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
Benzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
Toluene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
Chlorobenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
Ethylbenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
m+p Xylenes	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
o-Xylene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
Styrene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
Isopropylbenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
Bromobenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
n-Propylbenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
2-Chlorotoluene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
4-Chlorotoluene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
1,3,5-Trimethylbenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
tert-Butylbenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
1,2,4-Trimethylbenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
sec-Butylbenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
1,3-Dichlorobenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
4-Isopropyltoluene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
1,4-Dichlorobenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
1,2-Dichlorobenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
n-Butylbenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
1,2,4-Trichlorobenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
Hexachlorobutadiene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
Naphthalene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	
1,2,3-Trichlorobenzene	ND	3.0	1.07	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:25	

Client Sample ID AB1 30

Lab ID: 9050305-02

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg)	RL (ug/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*85.5 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 13:25*	
Surrogate: Toluene-d8	*95.5 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 13:25*	
Surrogate: 4-Bromofluorobenzene	*117 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 13:25*	

Client Sample ID AB2 20

Lab ID: 9050305-03

Conn. Extractable TPH **Analyst: KER**

Method: CT-ETPH **Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	56	1	EPA 3550C	B9E1336	05/13/2019	05/13/2019 23:43	
Surrogate: Octacosane	*107 %*	*50 - 150*			B9E1336	05/13/2019	*05/13/2019 23:43*	

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
Benzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
Toluene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
Chlorobenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
Ethylbenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
m+p Xylenes	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
o-Xylene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
Styrene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
Isopropylbenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
Bromobenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
n-Propylbenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
2-Chlorotoluene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
4-Chlorotoluene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
1,3,5-Trimethylbenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
tert-Butylbenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
1,2,4-Trimethylbenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
sec-Butylbenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
1,3-Dichlorobenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
4-Isopropyltoluene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
1,4-Dichlorobenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
1,2-Dichlorobenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
n-Butylbenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
1,2,4-Trichlorobenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
Hexachlorobutadiene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
Naphthalene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	
1,2,3-Trichlorobenzene	ND	4.4	1.56	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 13:48	

Client Sample ID AB2 20

Lab ID: 9050305-03

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg)	RL (ug/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*83.9 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 13:48*	
Surrogate: Toluene-d8	*96.0 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 13:48*	
Surrogate: 4-Bromofluorobenzene	*117 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 13:48*	

Client Sample ID AB3 15

Lab ID: 9050305-04

Conn. Extractable TPH **Analyst: KER**

Method: CT-ETPH **Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	55	1	EPA 3550C	B9E1336	05/13/2019	05/14/2019 00:06	
Surrogate: Octacosane	*92.5 %*	*50 - 150*			B9E1336	05/13/2019	*05/14/2019 00:06*	

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
Benzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
Toluene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
Chlorobenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
Ethylbenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
m+p Xylenes	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
o-Xylene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
Styrene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
Isopropylbenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
Bromobenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
n-Propylbenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
2-Chlorotoluene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
4-Chlorotoluene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
1,3,5-Trimethylbenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
tert-Butylbenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
1,2,4-Trimethylbenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
sec-Butylbenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
1,3-Dichlorobenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
4-Isopropyltoluene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
1,4-Dichlorobenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
1,2-Dichlorobenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
n-Butylbenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
1,2,4-Trichlorobenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
Hexachlorobutadiene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
Naphthalene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	
1,2,3-Trichlorobenzene	ND	5.2	1.86	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 18:58	

Client Sample ID AB3 15

Lab ID: 9050305-04

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg)	RL (ug/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*79.7 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 18:58*	
Surrogate: Toluene-d8	*95.8 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 18:58*	
Surrogate: 4-Bromofluorobenzene	*114 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 18:58*	

Client Sample ID AB3 20

Lab ID: 9050305-05

Conn. Extractable TPH **Analyst: KER**

Method: CT-ETPH **Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	58	1	EPA 3550C	B9E1336	05/13/2019	05/14/2019 00:29	
Surrogate: Octacosane	*126 %*	*50 - 150*			B9E1336	05/13/2019	*05/14/2019 00:29*	

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
Benzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
Toluene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
Chlorobenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
Ethylbenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
m+p Xylenes	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
o-Xylene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
Styrene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
Isopropylbenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
Bromobenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
n-Propylbenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
2-Chlorotoluene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
4-Chlorotoluene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
1,3,5-Trimethylbenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
tert-Butylbenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
1,2,4-Trimethylbenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
sec-Butylbenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
1,3-Dichlorobenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
4-Isopropyltoluene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
1,4-Dichlorobenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
1,2-Dichlorobenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
n-Butylbenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
1,2,4-Trichlorobenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
Hexachlorobutadiene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
Naphthalene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	
1,2,3-Trichlorobenzene	ND	4.1	1.37	EPA 5035A-L	B9E1348	05/14/2019	05/14/2019 14:32	

Client Sample ID AB3 20

Lab ID: 9050305-05

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg)	RL (ug/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*94.7 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 14:32*	
Surrogate: Toluene-d8	*97.4 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 14:32*	
Surrogate: 4-Bromofluorobenzene	*117 %*		*70 - 130*		B9E1348	05/14/2019	*05/14/2019 14:32*	

QUALITY CONTROL SECTION

Batch B9E1103 - CT-ETPH

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B9E1103-BLK1)					Prepared: 5/11/2019 Analyzed: 5/12/2019				
ETPH	ND	50							
Surrogate: Octacosane					*97.5*	*50 - 150*			
LCS (B9E1103-BS1)					Prepared: 5/11/2019 Analyzed: 5/12/2019				
ETPH	1790	50	1,500.000		119	60 - 120			
Surrogate: Octacosane					*115*	*50 - 150*			

Batch B9E1336 - CT-ETPH

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B9E1336-BLK1)					Prepared: 5/13/2019 Analyzed: 5/13/2019				
ETPH	ND	50							
Surrogate: Octacosane					*122*	*50 - 150*			
LCS (B9E1336-BS1)					Prepared: 5/13/2019 Analyzed: 5/14/2019				
ETPH	1380	50	1,500.000		92.2	60 - 120			
Surrogate: Octacosane					*99.6*	*50 - 150*			
Duplicate (B9E1336-DUP1)		**Source: 9050305-02**			Prepared: 5/13/2019 Analyzed: 5/13/2019				
ETPH	ND	56		ND				30	
Surrogate: Octacosane					*114*	*50 - 150*			
Matrix Spike (B9E1336-MS1)		**Source: 9050305-02**			Prepared: 5/13/2019 Analyzed: 5/14/2019				
ETPH	1630	56	1,679.348	ND	97.3	50 - 150			
Surrogate: Octacosane					*99.0*	*50 - 150*			
Matrix Spike Dup (B9E1336-MSD1)		**Source: 9050305-02**			Prepared: 5/13/2019 Analyzed: 5/14/2019				
ETPH	1910	56	1,687.703	ND	113	50 - 150	15.6	30	
Surrogate: Octacosane					*115*	*50 - 150*			

Batch B9E1348 - EPA 8260C

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B9E1348-BLK1)					Prepared: 5/14/2019 Analyzed: 5/14/2019				
Methyl-t-Butyl Ether (MTBE)	ND	2.5							
Benzene	ND	2.5							
Toluene	ND	2.5							
Chlorobenzene	ND	2.5							
Ethylbenzene	ND	2.5							
m+p Xylenes	ND	2.5							
o-Xylene	ND	2.5							
Styrene	ND	2.5							
Isopropylbenzene	ND	2.5							
Bromobenzene	ND	2.5							
n-Propylbenzene	ND	2.5							
2-Chlorotoluene	ND	2.5							
4-Chlorotoluene	ND	2.5							
1,3,5-Trimethylbenzene	ND	2.5							
tert-Butylbenzene	ND	2.5							
1,2,4-Trimethylbenzene	ND	2.5							
sec-Butylbenzene	ND	2.5							
1,3-Dichlorobenzene	ND	2.5							
4-Isopropyltoluene	ND	2.5							
1,4-Dichlorobenzene	ND	2.5							
1,2-Dichlorobenzene	ND	2.5							
n-Butylbenzene	ND	2.5							
1,2,4-Trichlorobenzene	ND	2.5							
Hexachlorobutadiene	ND	2.5							
Naphthalene	ND	2.5							
1,2,3-Trichlorobenzene	ND	2.5							
Surrogate: 1,2-Dichloroethane-d4					*94.0*	*70 - 130*			
Surrogate: Toluene-d8					*98.7*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*117*	*70 - 130*			
LCS (B9E1348-BS1)					Prepared: 5/14/2019 Analyzed: 5/14/2019				
Methyl-t-Butyl Ether (MTBE)	50.7	2.5	50.000		101	70 - 130			
Benzene	45.2	2.5	50.000		90.4	70 - 130			
Toluene	45.5	2.5	50.000		90.9	70 - 130			
Chlorobenzene	46.3	2.5	50.000		92.5	70 - 130			
Ethylbenzene	46.7	2.5	50.000		93.5	70 - 130			
m+p Xylenes	94.7	2.5	100.000		94.7	70 - 130			
o-Xylene	49.7	2.5	50.000		99.4	70 - 130			
Styrene	46.4	2.5	50.000		92.9	70 - 130			
Isopropylbenzene	51.2	2.5	50.000		102	70 - 130			
Bromobenzene	43.5	2.5	50.000		86.9	70 - 130			
n-Propylbenzene	44.6	2.5	50.000		89.2	70 - 130			
2-Chlorotoluene	45.3	2.5	50.000		90.6	70 - 130			
4-Chlorotoluene	45.6	2.5	50.000		91.3	70 - 130			
1,3,5-Trimethylbenzene	46.4	2.5	50.000		92.9	70 - 130			
tert-Butylbenzene	49.4	2.5	50.000		98.8	70 - 130			
1,2,4-Trimethylbenzene	47.5	2.5	50.000		95.0	70 - 130			
sec-Butylbenzene	47.3	2.5	50.000		94.5	70 - 130			
1,3-Dichlorobenzene	50.0	2.5	50.000		99.9	70 - 130			
4-Isopropyltoluene	50.7	2.5	50.000		101	70 - 130			
1,4-Dichlorobenzene	47.0	2.5	50.000		93.9	70 - 130			

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
LCS (B9E1348-BS1) - Continued					Prepared: 5/14/2019 Analyzed: 5/14/2019				
1,2-Dichlorobenzene	50.6	2.5	50.000		101	70 - 130			
n-Butylbenzene	47.4	2.5	50.000		94.8	70 - 130			
1,2,4-Trichlorobenzene	59.2	2.5	50.000		118	70 - 130			
Hexachlorobutadiene	62.6	2.5	50.000		125	70 - 130			
Naphthalene	55.5	2.5	50.000		111	70 - 130			
1,2,3-Trichlorobenzene	59.0	2.5	50.000		118	70 - 130			
Surrogate: 1,2-Dichloroethane-d4					*86.1*	*70 - 130*			
Surrogate: Toluene-d8					*97.0*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*117*	*70 - 130*			

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903

New York NELAP Accreditation 11982
Rhode Island Certification 199

CASE NARRATIVE

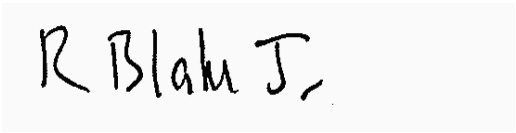
No collection times provided by client on chain of custody for the following samples: 9050305-01 through -05.

All 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

This technical report was reviewed by Robert Blake



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- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No 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
CT-ETPH in Soil	
ETPH	CT
EPA 8260C in Soil	
Methyl-t-Butyl Ether (MTBE)	CT,NY,PA
Benzene	CT,NY,PA
Toluene	CT,NY,PA
Chlorobenzene	CT,NY,PA
Ethylbenzene	CT,NY,PA
m+p Xylenes	CT,NY,PA
o-Xylene	CT,NY,PA
Styrene	CT,NY,PA
Isopropylbenzene	CT,NY,PA
Bromobenzene	CT,NY,PA
n-Propylbenzene	CT,NY,PA
2-Chlorotoluene	CT,NY,PA
4-Chlorotoluene	CT,NY,PA
1,3,5-Trimethylbenzene	CT,NY,PA
tert-Butylbenzene	CT,NY,PA
1,2,4-Trimethylbenzene	CT,NY,PA
sec-Butylbenzene	CT,NY,PA
1,3-Dichlorobenzene	CT,NY,PA
4-Isopropyltoluene	CT,NY,PA
1,4-Dichlorobenzene	CT,NY,PA
1,2-Dichlorobenzene	CT,NY,PA
n-Butylbenzene	CT,NY,PA
1,2,4-Trichlorobenzene	CT,NY,PA
Hexachlorobutadiene	CT,NY,PA
Naphthalene	CT,NY,PA
1,2,3-Trichlorobenzene	CT
SM 2540 G in Soil	
Percent Solids	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2020
NY	New York Certification (NELAC)	11982	04/01/2020
PA	Pennsylvania DEP	68-02927	05/31/2019

9050305

CET
COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

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, DW=Drinking Water, C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one)

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	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	Metals: 8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Additional Analysis	TOTAL # OF CONT.	NOTE #
AB1 20	5/9/19	S					✓		✓		✓															[illegible]	
AB1 30	↓	↓					✓		✓		✓															[illegible]	
AB2 20	↓	↓					✓		✓		✓															[illegible]	
AB3 15	↓	↓					✓		✓		✓															[illegible]	
AB3 20	↓	↓					✓		✓		✓															[illegible]	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

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

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

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Krista Ferreira	5/10/19 8:50	[signature]
[signature]	5/10/19 930	[signature] 5/10/19

NOTES:

Client / Reporting Information

Company Name: NorthStar Environmental
Address: 1100 Boston Post Rd Suite B
City: Guilford State: CT Zip: 06437
Report To:
E-mail: northstar_environmental@hotmail.com
Phone #: 203 458 3426 Fax #: 458 1597

Project Information

Project: 134 Bilton Rd PO #:
Location: Somers, CT Project #: 180101C
CET Quote #: Collector(s): JAB
QA/QC ☑ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *
Data Report ☑ PDF ☐ EDD - Specify Format Excel Other
RSR Reporting Limits (check one) ☑ GA ☐ GB ☐ SWP ☐ Other
Laboratory Certification Needed (check one) ☑ CT ☐ NY ☐ RI ☐ MA
Temp Upon Receipt 2.6 °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.

REV. 10/16

80 Lupes Drive
Stratford, CT 06615

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Client: Ms. Kristie Ferreira
Northstar Environmental Mgt LLC
1100 Boston Post Road
Guilford, CT 06437

Analytical Report

CET# 9050355

Report Date:May 17, 2019
Project: AB Bilton Rd

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 2.3°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
AB4 15-17ft	9050355-01	Soil	5/10/2019	05/13/2019
AB4 20-22ft	9050355-02	Soil	5/10/2019	05/13/2019
AB5 10-12ft	9050355-03	Soil	5/10/2019	05/13/2019
MW-1	9050355-04	Water	5/10/2019	05/13/2019

Analyte: Percent Solids [SM 2540 G]

Analyst: RAJ

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9050355-01	AB4 15-17ft	90	1.0	%	1	B9E1444	05/14/2019	05/15/2019 09:58	
9050355-02	AB4 20-22ft	86	1.0	%	1	B9E1444	05/14/2019	05/15/2019 09:58	
9050355-03	AB5 10-12ft	90	1.0	%	1	B9E1444	05/14/2019	05/15/2019 09:58	

Client Sample ID AB4 15-17ft

Lab ID: 9050355-01

Conn. Extractable TPH
Method: CT-ETPH

Analyst: KER
Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	55	1	EPA 3550C	B9E1515	05/15/2019	05/17/2019 07:41	
Surrogate: Octacosane	*115 %*	*50 - 150*			B9E1515	05/15/2019	*05/17/2019 07:41*	

Volatile Organics
Method: EPA 8260C

Analyst: TWF
Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
Benzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
Toluene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
Chlorobenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
Ethylbenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
m+p Xylenes	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
o-Xylene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
Styrene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
Isopropylbenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
Bromobenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
n-Propylbenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
2-Chlorotoluene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
4-Chlorotoluene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
1,3,5-Trimethylbenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
tert-Butylbenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
1,2,4-Trimethylbenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
sec-Butylbenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
1,3-Dichlorobenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
4-Isopropyltoluene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
1,4-Dichlorobenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
1,2-Dichlorobenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
n-Butylbenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
1,2,4-Trichlorobenzene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	*C2
Hexachlorobutadiene	ND	3.7	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	*F2
Naphthalene	ND	7.4	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	
1,2,3-Trichlorobenzene	ND	7.4	1.34	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:03	

Client Sample ID AB4 15-17ft

Lab ID: 9050355-01

Volatile Organics **Analyst: TWF**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg)	RL (ug/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*96.8 %*		*70 - 130*		B9E1446	05/14/2019	*05/14/2019 14:03*	
Surrogate: Toluene-d8	*95.2 %*		*70 - 130*		B9E1446	05/14/2019	*05/14/2019 14:03*	
Surrogate: 4-Bromofluorobenzene	*102 %*		*70 - 130*		B9E1446	05/14/2019	*05/14/2019 14:03*	

Client Sample ID AB4 20-22ft

Lab ID: 9050355-02

Conn. Extractable TPH
Method: CT-ETPH

Analyst: KER
Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	58	1	EPA 3550C	B9E1515	05/15/2019	05/17/2019 08:04	
Surrogate: Octacosane	*101 %*	*50 - 150*			B9E1515	05/15/2019	*05/17/2019 08:04*	

Volatile Organics
Method: EPA 8260C

Analyst: TWF
Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
Benzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
Toluene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
Chlorobenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
Ethylbenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
m+p Xylenes	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
o-Xylene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
Styrene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
Isopropylbenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
Bromobenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
n-Propylbenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
2-Chlorotoluene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
4-Chlorotoluene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
1,3,5-Trimethylbenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
tert-Butylbenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
1,2,4-Trimethylbenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
sec-Butylbenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
1,3-Dichlorobenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
4-Isopropyltoluene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
1,4-Dichlorobenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
1,2-Dichlorobenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
n-Butylbenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
1,2,4-Trichlorobenzene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	*C2
Hexachlorobutadiene	ND	3.7	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	*F2
Naphthalene	ND	7.3	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	
1,2,3-Trichlorobenzene	ND	7.3	1.27	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:24	

Client Sample ID AB4 20-22ft

Lab ID: 9050355-02

Volatile Organics **Analyst: TWF**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg)	RL (ug/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*99.7 %*		*70 - 130*		B9E1446	05/14/2019	*05/14/2019 14:24*	
Surrogate: Toluene-d8	*97.2 %*		*70 - 130*		B9E1446	05/14/2019	*05/14/2019 14:24*	
Surrogate: 4-Bromofluorobenzene	*101 %*		*70 - 130*		B9E1446	05/14/2019	*05/14/2019 14:24*	

Client Sample ID AB5 10-12ft

Lab ID: 9050355-03

Conn. Extractable TPH
Method: CT-ETPH

Analyst: KER

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	55	1	EPA 3550C	B9E1515	05/15/2019	05/17/2019 08:27	
Surrogate: Octacosane	*116 %*	*50 - 150*			B9E1515	05/15/2019	*05/17/2019 08:27*	

Volatile Organics
Method: EPA 8260C

Analyst: TWF

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
Benzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
Toluene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
Chlorobenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
Ethylbenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
m+p Xylenes	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
o-Xylene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
Styrene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
Isopropylbenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
Bromobenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
n-Propylbenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
2-Chlorotoluene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
4-Chlorotoluene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
1,3,5-Trimethylbenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
tert-Butylbenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
1,2,4-Trimethylbenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
sec-Butylbenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
1,3-Dichlorobenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
4-Isopropyltoluene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
1,4-Dichlorobenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
1,2-Dichlorobenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
n-Butylbenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
1,2,4-Trichlorobenzene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	*C2
Hexachlorobutadiene	ND	4.1	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	*F2
Naphthalene	ND	8.2	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	
1,2,3-Trichlorobenzene	ND	8.2	1.48	EPA 5035A-L	B9E1446	05/14/2019	05/14/2019 14:46	

Client Sample ID AB5 10-12ft

Lab ID: 9050355-03

Volatile Organics **Analyst: TWF**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg)	RL (ug/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*94.0 %*		*70 - 130*		B9E1446	05/14/2019	*05/14/2019 14:46*	
Surrogate: Toluene-d8	*96.3 %*		*70 - 130*		B9E1446	05/14/2019	*05/14/2019 14:46*	
Surrogate: 4-Bromofluorobenzene	*103 %*		*70 - 130*		B9E1446	05/14/2019	*05/14/2019 14:46*	

Client Sample ID MW-1

Lab ID: 9050355-04

Volatile Organics **Analyst: TWF**

Method: EPA 8260C **Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
Benzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
Toluene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
Chlorobenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
Ethylbenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
m+p Xylenes	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
o-Xylene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
Styrene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
Isopropylbenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
Bromobenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
n-Propylbenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
2-Chlorotoluene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
4-Chlorotoluene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
1,3,5-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
tert-Butylbenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
1,2,4-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
sec-Butylbenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
1,3-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
4-Isopropyltoluene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
1,4-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
1,2-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
n-Butylbenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
1,2,4-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
Hexachlorobutadiene	ND	0.45	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
Naphthalene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
1,2,3-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9E1535	05/15/2019	05/15/2019 18:42	
Surrogate: 1,2-Dichloroethane-d4	*93.1 %*		*70 - 130*		B9E1535	05/15/2019	*05/15/2019 18:42*	
Surrogate: Toluene-d8	*102 %*		*70 - 130*		B9E1535	05/15/2019	*05/15/2019 18:42*	
Surrogate: 4-Bromofluorobenzene	*98.6 %*		*70 - 130*		B9E1535	05/15/2019	*05/15/2019 18:42*	

QUALITY CONTROL SECTION

Batch B9E1446 - EPA 8260C

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B9E1446-BLK1)					Prepared: 5/14/2019 Analyzed: 5/14/2019				
Methyl-t-Butyl Ether (MTBE)	ND	2.5							
Benzene	ND	2.5							
Toluene	ND	2.5							
Chlorobenzene	ND	2.5							
Ethylbenzene	ND	2.5							
m+p Xylenes	ND	2.5							
o-Xylene	ND	2.5							
Styrene	ND	2.5							
Isopropylbenzene	ND	2.5							
Bromobenzene	ND	2.5							
n-Propylbenzene	ND	2.5							
2-Chlorotoluene	ND	2.5							
4-Chlorotoluene	ND	2.5							
1,3,5-Trimethylbenzene	ND	2.5							
tert-Butylbenzene	ND	2.5							
1,2,4-Trimethylbenzene	ND	2.5							
sec-Butylbenzene	ND	2.5							
1,3-Dichlorobenzene	ND	2.5							
4-Isopropyltoluene	ND	2.5							
1,4-Dichlorobenzene	ND	2.5							
1,2-Dichlorobenzene	ND	2.5							
n-Butylbenzene	ND	2.5							
1,2,4-Trichlorobenzene	ND	2.5							
Hexachlorobutadiene	ND	2.5							
Naphthalene	ND	5.0							
1,2,3-Trichlorobenzene	ND	5.0							
Surrogate: 1,2-Dichloroethane-d4					*83.5*	*70 - 130*			
Surrogate: Toluene-d8					*95.9*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*99.9*	*70 - 130*			
LCS (B9E1446-BS1)					Prepared: 5/14/2019 Analyzed: 5/14/2019				
Methyl-t-Butyl Ether (MTBE)	49.1	2.5	50.000		98.1	70 - 130			
Benzene	58.5	2.5	50.000		117	70 - 130			
Toluene	58.5	2.5	50.000		117	70 - 130			
Chlorobenzene	58.5	2.5	50.000		117	70 - 130			
Ethylbenzene	59.8	2.5	50.000		120	70 - 130			
m+p Xylenes	124	2.5	100.000		124	70 - 130			
o-Xylene	58.6	2.5	50.000		117	70 - 130			
Styrene	58.7	2.5	50.000		117	70 - 130			
Isopropylbenzene	63.9	2.5	50.000		128	70 - 130			
Bromobenzene	52.6	2.5	50.000		105	70 - 130			
n-Propylbenzene	60.0	2.5	50.000		120	70 - 130			
2-Chlorotoluene	56.9	2.5	50.000		114	70 - 130			
4-Chlorotoluene	57.1	2.5	50.000		114	70 - 130			
1,3,5-Trimethylbenzene	59.5	2.5	50.000		119	70 - 130			
tert-Butylbenzene	61.6	2.5	50.000		123	70 - 130			
1,2,4-Trimethylbenzene	57.8	2.5	50.000		116	70 - 130			
sec-Butylbenzene	63.9	2.5	50.000		128	70 - 130			
1,3-Dichlorobenzene	57.7	2.5	50.000		115	70 - 130			

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
LCS (B9E1446-BS1) - Continued					Prepared: 5/14/2019 Analyzed: 5/14/2019				
4-Isopropyltoluene	63.3	2.5	50.000		127	70 - 130			
1,4-Dichlorobenzene	56.4	2.5	50.000		113	70 - 130			
1,2-Dichlorobenzene	55.2	2.5	50.000		110	70 - 130			
n-Butylbenzene	63.5	2.5	50.000		127	70 - 130			
1,2,4-Trichlorobenzene	59.6	2.5	50.000		119	70 - 130			
Hexachlorobutadiene	66.3	2.5	50.000		**133**	70 - 130			**H**
Naphthalene	54.6	5.0	50.000		109	70 - 130			
1,2,3-Trichlorobenzene	55.1	5.0	50.000		110	70 - 130			
Surrogate: 1,2-Dichloroethane-d4					*89.1*	*70 - 130*			
Surrogate: Toluene-d8					*96.9*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*104*	*70 - 130*			

Batch B9E1515 - CT-ETPH

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B9E1515-BLK1)					Prepared: 5/15/2019 Analyzed: 5/15/2019				
ETPH	ND	50							
Surrogate: Octacosane					*101*	*50 - 150*			
LCS (B9E1515-BS1)					Prepared: 5/15/2019 Analyzed: 5/15/2019				
ETPH	1640	50	1,500.000		109	60 - 120			
Surrogate: Octacosane					*114*	*50 - 150*			

Batch B9E1535 - EPA 8260C

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B9E1535-BLK1)					Prepared: 5/15/2019 Analyzed: 5/15/2019				
Methyl-t-Butyl Ether (MTBE)	ND	5.0							
Benzene	ND	1.0							
Toluene	ND	1.0							
Chlorobenzene	ND	1.0							
Ethylbenzene	ND	1.0							
m+p Xylenes	ND	1.0							
o-Xylene	ND	1.0							
Styrene	ND	1.0							
Isopropylbenzene	ND	1.0							
Bromobenzene	ND	1.0							
n-Propylbenzene	ND	1.0							
2-Chlorotoluene	ND	1.0							
4-Chlorotoluene	ND	1.0							
1,3,5-Trimethylbenzene	ND	1.0							
tert-Butylbenzene	ND	1.0							
1,2,4-Trimethylbenzene	ND	1.0							
sec-Butylbenzene	ND	1.0							
1,3-Dichlorobenzene	ND	1.0							
4-Isopropyltoluene	ND	1.0							
1,4-Dichlorobenzene	ND	1.0							
1,2-Dichlorobenzene	ND	1.0							
n-Butylbenzene	ND	1.0							
1,2,4-Trichlorobenzene	ND	1.0							
Hexachlorobutadiene	ND	0.45							
Naphthalene	ND	1.0							
1,2,3-Trichlorobenzene	ND	1.0							
Surrogate: 1,2-Dichloroethane-d4					*86.4*	*70 - 130*			
Surrogate: Toluene-d8					*98.6*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*114*	*70 - 130*			
LCS (B9E1535-BS1)					Prepared: 5/15/2019 Analyzed: 5/15/2019				
Methyl-t-Butyl Ether (MTBE)	43.1	5.0	50.000		86.1	70 - 130			
Benzene	47.2	1.0	50.000		94.4	70 - 130			
Toluene	47.8	1.0	50.000		95.5	70 - 130			
Chlorobenzene	47.6	1.0	50.000		95.3	70 - 130			
Ethylbenzene	47.9	1.0	50.000		95.7	70 - 130			
m+p Xylenes	93.6	1.0	100.000		93.6	70 - 130			
o-Xylene	48.4	1.0	50.000		96.9	70 - 130			
Styrene	49.2	1.0	50.000		98.3	70 - 130			
Isopropylbenzene	49.3	1.0	50.000		98.7	70 - 130			
Bromobenzene	46.1	1.0	50.000		92.2	70 - 130			
n-Propylbenzene	48.2	1.0	50.000		96.3	70 - 130			
2-Chlorotoluene	47.5	1.0	50.000		94.9	70 - 130			
4-Chlorotoluene	48.4	1.0	50.000		96.8	70 - 130			
1,3,5-Trimethylbenzene	47.0	1.0	50.000		94.0	70 - 130			
tert-Butylbenzene	46.8	1.0	50.000		93.5	70 - 130			
1,2,4-Trimethylbenzene	48.2	1.0	50.000		96.4	70 - 130			
sec-Butylbenzene	46.7	1.0	50.000		93.4	70 - 130			
1,3-Dichlorobenzene	48.7	1.0	50.000		97.3	70 - 130			
4-Isopropyltoluene	48.5	1.0	50.000		97.0	70 - 130			
1,4-Dichlorobenzene	47.7	1.0	50.000		95.4	70 - 130			

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
LCS (B9E1535-BS1) - Continued					Prepared: 5/15/2019 Analyzed: 5/15/2019				
1,2-Dichlorobenzene	48.2	1.0	50.000		96.4	70 - 130			
n-Butylbenzene	47.7	1.0	50.000		95.3	70 - 130			
1,2,4-Trichlorobenzene	46.5	1.0	50.000		93.0	70 - 130			
Hexachlorobutadiene	47.0	0.45	50.000		94.0	70 - 130			
Naphthalene	46.8	1.0	50.000		93.5	70 - 130			
1,2,3-Trichlorobenzene	46.5	1.0	50.000		92.9	70 - 130			
Surrogate: 1,2-Dichloroethane-d4					*79.1*	*70 - 130*			
Surrogate: Toluene-d8					*103*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*108*	*70 - 130*			

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903

New York NELAP Accreditation 11982
Rhode Island Certification 199

CASE NARRATIVE

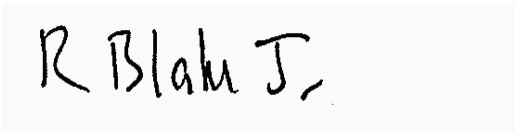
No collection times provided by client on chain of custody for the following samples: 9050355-01 through -04.

All 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

This technical report was reviewed by Robert Blake



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- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No 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
CT-ETPH in Soil	
ETPH	CT
EPA 8260C in Soil	
Methyl-t-Butyl Ether (MTBE)	CT,NY,PA
Benzene	CT,NY,PA
Toluene	CT,NY,PA
Chlorobenzene	CT,NY,PA
Ethylbenzene	CT,NY,PA
m+p Xylenes	CT,NY,PA
o-Xylene	CT,NY,PA
Styrene	CT,NY,PA
Isopropylbenzene	CT,NY,PA
Bromobenzene	CT,NY,PA
n-Propylbenzene	CT,NY,PA
2-Chlorotoluene	CT,NY,PA
4-Chlorotoluene	CT,NY,PA
1,3,5-Trimethylbenzene	CT,NY,PA
tert-Butylbenzene	CT,NY,PA
1,2,4-Trimethylbenzene	CT,NY,PA
sec-Butylbenzene	CT,NY,PA
1,3-Dichlorobenzene	CT,NY,PA
4-Isopropyltoluene	CT,NY,PA
1,4-Dichlorobenzene	CT,NY,PA
1,2-Dichlorobenzene	CT,NY,PA
n-Butylbenzene	CT,NY,PA
1,2,4-Trichlorobenzene	CT,NY,PA
Hexachlorobutadiene	CT,NY,PA
Naphthalene	CT,NY,PA
1,2,3-Trichlorobenzene	CT
EPA 8260C in Water	
Methyl-t-Butyl Ether (MTBE)	CT,NY
Benzene	CT,NY
Toluene	CT,NY
Chlorobenzene	CT,NY
Ethylbenzene	CT,NY
m+p Xylenes	CT,NY
o-Xylene	CT,NY
Styrene	CT,NY
Isopropylbenzene	CT,NY
Bromobenzene	CT,NY
n-Propylbenzene	CT,NY
2-Chlorotoluene	CT,NY
4-Chlorotoluene	CT,NY
1,3,5-Trimethylbenzene	CT,NY
tert-Butylbenzene	CT,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 8260C in Water	
1,2,4-Trimethylbenzene	CT,NY
sec-Butylbenzene	CT,NY
1,3-Dichlorobenzene	CT,NY
4-Isopropyltoluene	CT,NY
1,4-Dichlorobenzene	CT,NY
1,2-Dichlorobenzene	CT,NY
n-Butylbenzene	CT,NY
1,2,4-Trichlorobenzene	CT,NY
Hexachlorobutadiene	CT,NY
Naphthalene	CT,NY
1,2,3-Trichlorobenzene	CT,NY
SM 2540 G in Soil	
Percent Solids	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2020
NY	New York Certification (NELAC)	11982	04/01/2020
PA	Pennsylvania DEP	68-02927	05/31/2020

9050355

CET

COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

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, DW=Drinking Water, C=Cassette Solid, Wipe, Other (Specify)

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

Metals: 8 RCRA, 13 Priority Poll, 15 CT DEP, Total, SPLP, TCLP, Dissolved, Field Filtered, Lab to Filter

Additional Analysis: 8260 CT List, 8260 Aromatics, 8260 Halogens, CT ETPH, 8270 CT List, 8270 PNAs, PCBs ☐ SOX ☐ ASE, Pesticides

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	Std (5-7 Days)	8260 Aromatics	CT ETPH	TOTAL # OF CONT.	NOTE #
AB 4 15-17	5/10/19	S	✓	✓	✓	5	
AB 4 20-22	"	S	✓	✓	✓	5	
AB 5 10-12	"	S	✓	✓	✓	4	
MW-1	"	W	✓	✓		3	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

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

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

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Kristie Ferreira	5/13/19 2:45	
	5/13/19 1000	

NOTES:

Client / Reporting Information

Company Name: North Star Environ Mgt
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 (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *

Data Report: ☑ PDF ☐ EDD - Specify Format xcell Other

RSR Reporting Limits (check one): ☑ GA ☐ GB ☐ SWP ☐ Other

Laboratory Certification Needed (check one): ☑ CT ☐ NY ☐ RI ☐ MA

Temp Upon Receipt 2.3 °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.

REV. 10/16

80 Lupes Drive
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Client: Ms. Kristie Ferreira
Northstar Environmental Mgt LLC
1100 Boston Post Road
Guilford, CT 06437

Analytical Report

CET# 9050382

Report Date:May 22, 2019
Project: 180101C, 134 Bilton Rd, Somers

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 3.4°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
AB5 15-17ft	9050382-01	Soil	5/13/2019	05/14/2019
AB6 15-17ft	9050382-02	Soil	5/13/2019	05/14/2019
AB6 24-26ft	9050382-03	Soil	5/13/2019	05/14/2019
MW-2	9050382-04	Water	5/13/2019	05/14/2019
Dug Well	9050382-05	Drinking Water	5/13/2019	05/14/2019

Analyte: Percent Solids [SM 2540 G]

Analyst: KRG

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9050382-01	AB5 15-17ft	90	1.0	%	1	B9E1518	05/15/2019	05/15/2019 03:45	
9050382-02	AB6 15-17ft	90	1.0	%	1	B9E1518	05/15/2019	05/15/2019 03:45	
9050382-03	AB6 24-26ft	90	1.0	%	1	B9E1518	05/15/2019	05/15/2019 03:45	

Analyte: No Tentatively Identified Compounds [EPA 524.2 TICs]

Analyst: TWF

Matrix: Drinking Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9050382-05	Dug Well	ND	2.0	ug/L	1	B9E2145	05/21/2019	05/21/2019 14:11	

Client Sample ID AB5 15-17ft

Lab ID: 9050382-01

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
Benzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
Toluene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
Chlorobenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
Ethylbenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
m+p Xylenes	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
o-Xylene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
Styrene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
Isopropylbenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
Bromobenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
n-Propylbenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
2-Chlorotoluene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
4-Chlorotoluene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
1,3,5-Trimethylbenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
tert-Butylbenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
1,2,4-Trimethylbenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
sec-Butylbenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
1,3-Dichlorobenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
4-Isopropyltoluene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
1,4-Dichlorobenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
1,2-Dichlorobenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
n-Butylbenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
1,2,4-Trichlorobenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
Hexachlorobutadiene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
Naphthalene	**7.8**	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
1,2,3-Trichlorobenzene	ND	3.7	1.33	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:15	
Surrogate: 1,2-Dichloroethane-d4	*110 %*		*70 - 130*		B9E1750	05/17/2019	*05/17/2019 15:15*	
Surrogate: Toluene-d8	*101 %*		*70 - 130*		B9E1750	05/17/2019	*05/17/2019 15:15*	
Surrogate: 4-Bromofluorobenzene	*106 %*		*70 - 130*		B9E1750	05/17/2019	*05/17/2019 15:15*	

Client Sample ID AB6 15-17ft

Lab ID: 9050382-02

Conn. Extractable TPH **Analyst: KER**

Method: CT-ETPH **Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	55	1	EPA 3550C	B9E1623	05/16/2019	05/18/2019 07:22	
Surrogate: Octacosane	*108 %*	*50 - 150*			B9E1623	05/16/2019	*05/18/2019 07:22*	

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
Benzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
Toluene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
Chlorobenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
Ethylbenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
m+p Xylenes	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
o-Xylene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
Styrene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
Isopropylbenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
Bromobenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
n-Propylbenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
2-Chlorotoluene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
4-Chlorotoluene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
1,3,5-Trimethylbenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
tert-Butylbenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
1,2,4-Trimethylbenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
sec-Butylbenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
1,3-Dichlorobenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
4-Isopropyltoluene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
1,4-Dichlorobenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
1,2-Dichlorobenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
n-Butylbenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
1,2,4-Trichlorobenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
Hexachlorobutadiene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
Naphthalene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	
1,2,3-Trichlorobenzene	ND	3.3	1.2	EPA 5035A-L	B9E1750	05/17/2019	05/17/2019 15:38	

Client Sample ID AB6 15-17ft

Lab ID: 9050382-02

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg)	RL (ug/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*109 %*		*70 - 130*		B9E1750	05/17/2019	*05/17/2019 15:38*	
Surrogate: Toluene-d8	*101 %*		*70 - 130*		B9E1750	05/17/2019	*05/17/2019 15:38*	
Surrogate: 4-Bromofluorobenzene	*106 %*		*70 - 130*		B9E1750	05/17/2019	*05/17/2019 15:38*	

Client Sample ID AB6 24-26ft

Lab ID: 9050382-03

Conn. Extractable TPH **Analyst: KER**

Method: CT-ETPH **Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	55	1	EPA 3550C	B9E1623	05/16/2019	05/18/2019 07:45	
Surrogate: Octacosane	*111 %*	*50 - 150*			B9E1623	05/16/2019	*05/18/2019 07:45*	

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
Benzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
Toluene	**9.5**	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
Chlorobenzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
Ethylbenzene	**4.9**	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
m+p Xylenes	**15**	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
o-Xylene	**3.5**	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
Styrene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
Isopropylbenzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
Bromobenzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
n-Propylbenzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
2-Chlorotoluene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
4-Chlorotoluene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
1,3,5-Trimethylbenzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
tert-Butylbenzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
1,2,4-Trimethylbenzene	**4.1**	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
sec-Butylbenzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
1,3-Dichlorobenzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
4-Isopropyltoluene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
1,4-Dichlorobenzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
1,2-Dichlorobenzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
n-Butylbenzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
1,2,4-Trichlorobenzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
Hexachlorobutadiene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
Naphthalene	**4.0**	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	
1,2,3-Trichlorobenzene	ND	3.5	1.24	EPA 5035A-L	B9E2149	05/21/2019	05/21/2019 16:09	

Client Sample ID AB6 24-26ft

Lab ID: 9050382-03

Volatile Organics **Analyst: ALM**

Method: EPA 8260C **Matrix: Soil**

Analyte	Result (ug/kg)	RL (ug/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: 1,2-Dichloroethane-d4	*98.3 %*		*70 - 130*		B9E2149	05/21/2019	*05/21/2019 16:09*	
Surrogate: Toluene-d8	*95.6 %*		*70 - 130*		B9E2149	05/21/2019	*05/21/2019 16:09*	
Surrogate: 4-Bromofluorobenzene	*101 %*		*70 - 130*		B9E2149	05/21/2019	*05/21/2019 16:09*	

Client Sample ID MW-2

Lab ID: 9050382-04

Volatile Organics **Analyst: TWF**

Method: EPA 8260C **Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
Benzene	**840**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	E
Toluene	**1900**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	E
Chlorobenzene	ND	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
Ethylbenzene	**590**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	E
m+p Xylenes	**1700**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	E
o-Xylene	**620**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	E
Styrene	**26**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
Isopropylbenzene	**110**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
Bromobenzene	ND	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
n-Propylbenzene	**240**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	E
2-Chlorotoluene	ND	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
4-Chlorotoluene	ND	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
1,3,5-Trimethylbenzene	**380**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	E
tert-Butylbenzene	ND	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
1,2,4-Trimethylbenzene	**500**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	E
sec-Butylbenzene	**12**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
1,3-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
4-Isopropyltoluene	**6.3**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
1,4-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
1,2-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
n-Butylbenzene	**24**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
1,2,4-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
Hexachlorobutadiene	ND	0.45	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
Naphthalene	**370**	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	E*C2
1,2,3-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9E1633	05/16/2019	05/16/2019 17:23	
Surrogate: 1,2-Dichloroethane-d4	*99.4 %*		*70 - 130*		B9E1633	05/16/2019	*05/16/2019 17:23*	
Surrogate: Toluene-d8	*125 %*		*70 - 130*		B9E1633	05/16/2019	*05/16/2019 17:23*	
Surrogate: 4-Bromofluorobenzene	*109 %*		*70 - 130*		B9E1633	05/16/2019	*05/16/2019 17:23*	

Client Sample ID MW-2

Lab ID: 9050382-04RE1(Dilution)

Volatile Organics **Analyst: TWF**

Method: EPA 8260C **Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	1000	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
Benzene	**1000**	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
Toluene	**22000**	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
Chlorobenzene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
Ethylbenzene	**3500**	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
m+p Xylenes	**13000**	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
o-Xylene	**2400**	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
Styrene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
Isopropylbenzene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
Bromobenzene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
n-Propylbenzene	**320**	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
2-Chlorotoluene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
4-Chlorotoluene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
1,3,5-Trimethylbenzene	**740**	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
tert-Butylbenzene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
1,2,4-Trimethylbenzene	**2400**	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
sec-Butylbenzene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
1,3-Dichlorobenzene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
4-Isopropyltoluene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
1,4-Dichlorobenzene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
1,2-Dichlorobenzene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
n-Butylbenzene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
1,2,4-Trichlorobenzene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
Hexachlorobutadiene	ND	90	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
Naphthalene	**1100**	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
1,2,3-Trichlorobenzene	ND	200	200	EPA 5030C	B9E2035	05/17/2019	05/17/2019 16:38	
Surrogate: 1,2-Dichloroethane-d4	*97.8 %*		*70 - 130*		B9E2035	05/17/2019	*05/17/2019 16:38*	
Surrogate: Toluene-d8	*101 %*		*70 - 130*		B9E2035	05/17/2019	*05/17/2019 16:38*	
Surrogate: 4-Bromofluorobenzene	*104 %*		*70 - 130*		B9E2035	05/17/2019	*05/17/2019 16:38*	

Client Sample ID Dug Well

Lab ID: 9050382-05

Volatile Organics by 524.2

Analyst: TWF

Method: EPA 524.2

Matrix: Drinking Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
Benzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
Toluene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
Chlorobenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
Ethylbenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
m+p Xylenes	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
o-Xylene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
Styrene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
Isopropylbenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
Bromobenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
n-Propylbenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
2-Chlorotoluene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
4-Chlorotoluene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
1,3,5-Trimethylbenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
tert-Butylbenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
1,2,4-Trimethylbenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
sec-Butylbenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
1,3-Dichlorobenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
4-Isopropyltoluene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
1,4-Dichlorobenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
1,2-Dichlorobenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
n-Butylbenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
1,2,4-Trichlorobenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
Hexachlorobutadiene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
Naphthalene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
1,2,3-Trichlorobenzene	ND	0.50	1	EPA 5030C	B9E2145	05/21/2019	05/21/2019 14:11	
Surrogate: 1,2-Dichloroethane-d4	*104 %*		*70 - 130*		B9E2145	05/21/2019	*05/21/2019 14:11*	
Surrogate: Toluene-d8	*96.6 %*		*70 - 130*		B9E2145	05/21/2019	*05/21/2019 14:11*	
Surrogate: 4-Bromofluorobenzene	*95.9 %*		*70 - 130*		B9E2145	05/21/2019	*05/21/2019 14:11*	

QUALITY CONTROL SECTION

Batch B9E1623 - CT-ETPH

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B9E1623-BLK1)					Prepared: 5/16/2019 Analyzed: 5/16/2019				
ETPH	ND	50							
Surrogate: Octacosane					*108*	*50 - 150*			
LCS (B9E1623-BS1)					Prepared: 5/16/2019 Analyzed: 5/16/2019				
ETPH	1450	50	1,500.000		96.5	60 - 120			
Surrogate: Octacosane					*96.5*	*50 - 150*			

Batch B9E1633 - EPA 8260C

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B9E1633-BLK1)					Prepared: 5/16/2019 Analyzed: 5/16/2019				
Methyl-t-Butyl Ether (MTBE)	ND	5.0							
Benzene	ND	1.0							
Toluene	ND	1.0							
Chlorobenzene	ND	1.0							
Ethylbenzene	ND	1.0							
m+p Xylenes	ND	1.0							
o-Xylene	ND	1.0							
Styrene	ND	1.0							
Isopropylbenzene	ND	1.0							
Bromobenzene	ND	1.0							
n-Propylbenzene	ND	1.0							
2-Chlorotoluene	ND	1.0							
4-Chlorotoluene	ND	1.0							
1,3,5-Trimethylbenzene	ND	1.0							
tert-Butylbenzene	ND	1.0							
1,2,4-Trimethylbenzene	ND	1.0							
sec-Butylbenzene	ND	1.0							
1,3-Dichlorobenzene	ND	1.0							
4-Isopropyltoluene	ND	1.0							
1,4-Dichlorobenzene	ND	1.0							
1,2-Dichlorobenzene	ND	1.0							
n-Butylbenzene	ND	1.0							
1,2,4-Trichlorobenzene	ND	1.0							
Hexachlorobutadiene	ND	0.45							
Naphthalene	ND	1.0							
1,2,3-Trichlorobenzene	ND	1.0							
Surrogate: 1,2-Dichloroethane-d4					*102*	*70 - 130*			
Surrogate: Toluene-d8					*103*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*99.4*	*70 - 130*			
LCS (B9E1633-BS1)					Prepared: 5/16/2019 Analyzed: 5/16/2019				
Methyl-t-Butyl Ether (MTBE)	55.8	5.0	50.000		112	70 - 130			
Benzene	54.2	1.0	50.000		108	70 - 130			
Toluene	54.1	1.0	50.000		108	70 - 130			
Chlorobenzene	53.2	1.0	50.000		106	70 - 130			
Ethylbenzene	56.1	1.0	50.000		112	70 - 130			
m+p Xylenes	110	1.0	100.000		110	70 - 130			
o-Xylene	56.3	1.0	50.000		113	70 - 130			
Styrene	57.0	1.0	50.000		114	70 - 130			
Isopropylbenzene	59.4	1.0	50.000		119	70 - 130			
Bromobenzene	54.4	1.0	50.000		109	70 - 130			
n-Propylbenzene	58.9	1.0	50.000		118	70 - 130			
2-Chlorotoluene	55.3	1.0	50.000		111	70 - 130			
4-Chlorotoluene	56.3	1.0	50.000		113	70 - 130			
1,3,5-Trimethylbenzene	57.5	1.0	50.000		115	70 - 130			
tert-Butylbenzene	55.0	1.0	50.000		110	70 - 130			
1,2,4-Trimethylbenzene	57.0	1.0	50.000		114	70 - 130			
sec-Butylbenzene	57.5	1.0	50.000		115	70 - 130			
1,3-Dichlorobenzene	54.4	1.0	50.000		109	70 - 130			
4-Isopropyltoluene	58.1	1.0	50.000		116	70 - 130			
1,4-Dichlorobenzene	53.7	1.0	50.000		107	70 - 130			

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
LCS (B9E1633-BS1) - Continued					Prepared: 5/16/2019 Analyzed: 5/16/2019				
1,2-Dichlorobenzene	54.3	1.0	50.000		109	70 - 130			
n-Butylbenzene	58.0	1.0	50.000		116	70 - 130			
1,2,4-Trichlorobenzene	48.8	1.0	50.000		97.6	70 - 130			
Hexachlorobutadiene	47.4	0.45	50.000		94.9	70 - 130			
Naphthalene	46.4	1.0	50.000		92.7	70 - 130			
1,2,3-Trichlorobenzene	43.6	1.0	50.000		87.1	70 - 130			
Surrogate: 1,2-Dichloroethane-d4					*104*	*70 - 130*			
Surrogate: Toluene-d8					*101*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*101*	*70 - 130*			

Batch B9E1750 - EPA 8260C

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B9E1750-BLK1)					Prepared: 5/17/2019 Analyzed: 5/17/2019				
Methyl-t-Butyl Ether (MTBE)	ND	2.5							
Benzene	ND	2.5							
Toluene	ND	2.5							
Chlorobenzene	ND	2.5							
Ethylbenzene	ND	2.5							
m+p Xylenes	ND	2.5							
o-Xylene	ND	2.5							
Styrene	ND	2.5							
Isopropylbenzene	ND	2.5							
Bromobenzene	ND	2.5							
n-Propylbenzene	ND	2.5							
2-Chlorotoluene	ND	2.5							
4-Chlorotoluene	ND	2.5							
1,3,5-Trimethylbenzene	ND	2.5							
tert-Butylbenzene	ND	2.5							
1,2,4-Trimethylbenzene	ND	2.5							
sec-Butylbenzene	ND	2.5							
1,3-Dichlorobenzene	ND	2.5							
4-Isopropyltoluene	ND	2.5							
1,4-Dichlorobenzene	ND	2.5							
1,2-Dichlorobenzene	ND	2.5							
n-Butylbenzene	ND	2.5							
1,2,4-Trichlorobenzene	ND	2.5							
Hexachlorobutadiene	ND	2.5							
Naphthalene	ND	2.5							
1,2,3-Trichlorobenzene	ND	2.5							
Surrogate: 1,2-Dichloroethane-d4					*106*	*70 - 130*			
Surrogate: Toluene-d8					*97.6*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*108*	*70 - 130*			
LCS (B9E1750-BS1)					Prepared: 5/17/2019 Analyzed: 5/17/2019				
Methyl-t-Butyl Ether (MTBE)	52.5	2.5	50.000		105	70 - 130			
Benzene	48.8	2.5	50.000		97.6	70 - 130			
Toluene	50.5	2.5	50.000		101	70 - 130			
Chlorobenzene	49.5	2.5	50.000		98.9	70 - 130			
Ethylbenzene	50.5	2.5	50.000		101	70 - 130			
m+p Xylenes	104	2.5	100.000		104	70 - 130			
o-Xylene	50.8	2.5	50.000		102	70 - 130			
Styrene	50.5	2.5	50.000		101	70 - 130			
Isopropylbenzene	51.4	2.5	50.000		103	70 - 130			
Bromobenzene	46.3	2.5	50.000		92.6	70 - 130			
n-Propylbenzene	48.4	2.5	50.000		96.9	70 - 130			
2-Chlorotoluene	48.3	2.5	50.000		96.6	70 - 130			
4-Chlorotoluene	48.2	2.5	50.000		96.4	70 - 130			
1,3,5-Trimethylbenzene	49.2	2.5	50.000		98.4	70 - 130			
tert-Butylbenzene	48.9	2.5	50.000		97.7	70 - 130			
1,2,4-Trimethylbenzene	48.9	2.5	50.000		97.8	70 - 130			
sec-Butylbenzene	47.5	2.5	50.000		95.0	70 - 130			
1,3-Dichlorobenzene	48.5	2.5	50.000		97.0	70 - 130			
4-Isopropyltoluene	48.6	2.5	50.000		97.2	70 - 130			
1,4-Dichlorobenzene	48.0	2.5	50.000		96.0	70 - 130			

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
LCS (B9E1750-BS1) - Continued					Prepared: 5/17/2019 Analyzed: 5/17/2019				
1,2-Dichlorobenzene	48.0	2.5	50.000		96.0	70 - 130			
n-Butylbenzene	46.3	2.5	50.000		92.6	70 - 130			
1,2,4-Trichlorobenzene	48.2	2.5	50.000		96.3	70 - 130			
Hexachlorobutadiene	45.8	2.5	50.000		91.6	70 - 130			
Naphthalene	47.1	2.5	50.000		94.2	70 - 130			
1,2,3-Trichlorobenzene	47.4	2.5	50.000		94.8	70 - 130			
Surrogate: 1,2-Dichloroethane-d4					*99.0*	*70 - 130*			
Surrogate: Toluene-d8					*98.5*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*111*	*70 - 130*			

Batch B9E2035 - EPA 8260C

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B9E2035-BLK1)					Prepared: 5/17/2019 Analyzed: 5/17/2019				
Methyl-t-Butyl Ether (MTBE)	ND	5.0							
Benzene	ND	1.0							
Toluene	ND	1.0							
Chlorobenzene	ND	1.0							
Ethylbenzene	ND	1.0							
m+p Xylenes	ND	1.0							
o-Xylene	ND	1.0							
Styrene	ND	1.0							
Isopropylbenzene	ND	1.0							
Bromobenzene	ND	1.0							
n-Propylbenzene	ND	1.0							
2-Chlorotoluene	ND	1.0							
4-Chlorotoluene	ND	1.0							
1,3,5-Trimethylbenzene	ND	1.0							
tert-Butylbenzene	ND	1.0							
1,2,4-Trimethylbenzene	ND	1.0							
sec-Butylbenzene	ND	1.0							
1,3-Dichlorobenzene	ND	1.0							
4-Isopropyltoluene	ND	1.0							
1,4-Dichlorobenzene	ND	1.0							
1,2-Dichlorobenzene	ND	1.0							
n-Butylbenzene	ND	1.0							
1,2,4-Trichlorobenzene	ND	1.0							
Hexachlorobutadiene	ND	0.45							
Naphthalene	ND	1.0							
1,2,3-Trichlorobenzene	ND	1.0							
Surrogate: 1,2-Dichloroethane-d4					*102*	*70 - 130*			
Surrogate: Toluene-d8					*103*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*99.2*	*70 - 130*			
LCS (B9E2035-BS1)					Prepared: 5/17/2019 Analyzed: 5/17/2019				
Methyl-t-Butyl Ether (MTBE)	56.2	5.0	50.000		112	70 - 130			
Benzene	56.1	1.0	50.000		112	70 - 130			
Toluene	55.9	1.0	50.000		112	70 - 130			
Chlorobenzene	55.8	1.0	50.000		112	70 - 130			
Ethylbenzene	57.5	1.0	50.000		115	70 - 130			
m+p Xylenes	115	1.0	100.000		115	70 - 130			
o-Xylene	58.3	1.0	50.000		117	70 - 130			
Styrene	58.6	1.0	50.000		117	70 - 130			
Isopropylbenzene	60.1	1.0	50.000		120	70 - 130			
Bromobenzene	55.2	1.0	50.000		110	70 - 130			
n-Propylbenzene	59.5	1.0	50.000		119	70 - 130			
2-Chlorotoluene	56.3	1.0	50.000		113	70 - 130			
4-Chlorotoluene	56.6	1.0	50.000		113	70 - 130			
1,3,5-Trimethylbenzene	58.7	1.0	50.000		117	70 - 130			
tert-Butylbenzene	55.7	1.0	50.000		111	70 - 130			
1,2,4-Trimethylbenzene	57.9	1.0	50.000		116	70 - 130			
sec-Butylbenzene	57.6	1.0	50.000		115	70 - 130			
1,3-Dichlorobenzene	54.7	1.0	50.000		109	70 - 130			
4-Isopropyltoluene	58.7	1.0	50.000		117	70 - 130			
1,4-Dichlorobenzene	53.6	1.0	50.000		107	70 - 130			

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
LCS (B9E2035-BS1) - Continued					Prepared: 5/17/2019 Analyzed: 5/17/2019				
1,2-Dichlorobenzene	55.4	1.0	50.000		111	70 - 130			
n-Butylbenzene	57.2	1.0	50.000		114	70 - 130			
1,2,4-Trichlorobenzene	49.3	1.0	50.000		98.6	70 - 130			
Hexachlorobutadiene	48.3	0.45	50.000		96.6	70 - 130			
Naphthalene	48.4	1.0	50.000		96.9	70 - 130			
1,2,3-Trichlorobenzene	45.5	1.0	50.000		91.0	70 - 130			
Surrogate: 1,2-Dichloroethane-d4					*101*	*70 - 130*			
Surrogate: Toluene-d8					*99.8*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*98.9*	*70 - 130*			

Batch B9E2145 - EPA 524.2 TICs

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B9E2145-BLK1)					Prepared: 5/21/2019 Analyzed: 5/21/2019				
No Tentatively Identified Compounds	ND	2.0							
Methyl-t-Butyl Ether (MTBE)	ND	1.0							
Benzene	ND	0.50							
Toluene	ND	0.50							
Chlorobenzene	ND	0.50							
Ethylbenzene	ND	0.50							
m+p Xylenes	ND	0.50							
o-Xylene	ND	0.50							
Styrene	ND	0.50							
Isopropylbenzene	ND	0.50							
Bromobenzene	ND	0.50							
n-Propylbenzene	ND	0.50							
2-Chlorotoluene	ND	0.50							
4-Chlorotoluene	ND	0.50							
1,3,5-Trimethylbenzene	ND	0.50							
tert-Butylbenzene	ND	0.50							
1,2,4-Trimethylbenzene	ND	0.50							
sec-Butylbenzene	ND	0.50							
1,3-Dichlorobenzene	ND	0.50							
4-Isopropyltoluene	ND	0.50							
1,4-Dichlorobenzene	ND	0.50							
1,2-Dichlorobenzene	ND	0.50							
n-Butylbenzene	ND	0.50							
1,2,4-Trichlorobenzene	ND	0.50							
Hexachlorobutadiene	ND	0.50							
Naphthalene	ND	0.50							
1,2,3-Trichlorobenzene	ND	0.50							
Surrogate: 1,2-Dichloroethane-d4					*78.4*	*70 - 130*			
Surrogate: Toluene-d8					*107*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*109*	*70 - 130*			
LCS (B9E2145-BS1)					Prepared: 5/21/2019 Analyzed: 5/21/2019				
Methyl-t-Butyl Ether (MTBE)	29.3	1.0	30.000		97.7	70 - 130			
Benzene	33.6	0.50	30.000		112	70 - 130			
Toluene	34.1	0.50	30.000		114	70 - 130			
Chlorobenzene	33.6	0.50	30.000		112	70 - 130			
Ethylbenzene	33.1	0.50	30.000		110	70 - 130			
m+p Xylenes	68.7	0.50	60.000		115	70 - 130			
o-Xylene	33.3	0.50	30.000		111	70 - 130			
Styrene	34.0	0.50	30.000		113	70 - 130			
Isopropylbenzene	34.3	0.50	30.000		114	70 - 130			
Bromobenzene	34.1	0.50	30.000		114	70 - 130			
n-Propylbenzene	34.9	0.50	30.000		116	70 - 130			
2-Chlorotoluene	33.9	0.50	30.000		113	70 - 130			
4-Chlorotoluene	33.7	0.50	30.000		112	70 - 130			
1,3,5-Trimethylbenzene	35.4	0.50	30.000		118	70 - 130			
tert-Butylbenzene	34.2	0.50	30.000		114	70 - 130			
1,2,4-Trimethylbenzene	34.4	0.50	30.000		115	70 - 130			
sec-Butylbenzene	34.1	0.50	30.000		114	70 - 130			
1,3-Dichlorobenzene	33.3	0.50	30.000		111	70 - 130			
4-Isopropyltoluene	34.6	0.50	30.000		115	70 - 130			

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
LCS (B9E2145-BS1) - Continued					Prepared: 5/21/2019 Analyzed: 5/21/2019				
1,4-Dichlorobenzene	34.4	0.50	30.000		115	70 - 130			
1,2-Dichlorobenzene	34.7	0.50	30.000		116	70 - 130			
n-Butylbenzene	33.9	0.50	30.000		113	70 - 130			
1,2,4-Trichlorobenzene	35.8	0.50	30.000		119	70 - 130			
Hexachlorobutadiene	34.5	0.50	30.000		115	70 - 130			
Naphthalene	35.0	0.50	30.000		117	70 - 130			
1,2,3-Trichlorobenzene	34.8	0.50	30.000		116	70 - 130			
Surrogate: 1,2-Dichloroethane-d4					*97.5*	*70 - 130*			
Surrogate: Toluene-d8					*99.9*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*99.0*	*70 - 130*			

Batch B9E2149 - EPA 8260C

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B9E2149-BLK1)					Prepared: 5/21/2019 Analyzed: 5/21/2019				
Methyl-t-Butyl Ether (MTBE)	ND	2.5							
Benzene	ND	2.5							
Toluene	ND	2.5							
Chlorobenzene	ND	2.5							
Ethylbenzene	ND	2.5							
m+p Xylenes	ND	2.5							
o-Xylene	ND	2.5							
Styrene	ND	2.5							
Isopropylbenzene	ND	2.5							
Bromobenzene	ND	2.5							
n-Propylbenzene	ND	2.5							
2-Chlorotoluene	ND	2.5							
4-Chlorotoluene	ND	2.5							
1,3,5-Trimethylbenzene	ND	2.5							
tert-Butylbenzene	ND	2.5							
1,2,4-Trimethylbenzene	ND	2.5							
sec-Butylbenzene	ND	2.5							
1,3-Dichlorobenzene	ND	2.5							
4-Isopropyltoluene	ND	2.5							
1,4-Dichlorobenzene	ND	2.5							
1,2-Dichlorobenzene	ND	2.5							
n-Butylbenzene	ND	2.5							
1,2,4-Trichlorobenzene	ND	2.5							
Hexachlorobutadiene	ND	2.5							
Naphthalene	ND	2.5							
1,2,3-Trichlorobenzene	ND	2.5							
Surrogate: 1,2-Dichloroethane-d4					*99.9*	*70 - 130*			
Surrogate: Toluene-d8					*97.3*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*101*	*70 - 130*			
LCS (B9E2149-BS1)					Prepared: 5/21/2019 Analyzed: 5/21/2019				
Methyl-t-Butyl Ether (MTBE)	60.7	2.5	50.000		121	70 - 130			
Benzene	56.5	2.5	50.000		113	70 - 130			
Toluene	58.9	2.5	50.000		118	70 - 130			
Chlorobenzene	60.7	2.5	50.000		121	70 - 130			
Ethylbenzene	59.4	2.5	50.000		119	70 - 130			
m+p Xylenes	126	2.5	100.000		126	70 - 130			
o-Xylene	61.3	2.5	50.000		123	70 - 130			
Styrene	63.2	2.5	50.000		126	70 - 130			
Isopropylbenzene	60.9	2.5	50.000		122	70 - 130			
Bromobenzene	56.8	2.5	50.000		114	70 - 130			
n-Propylbenzene	57.4	2.5	50.000		115	70 - 130			
2-Chlorotoluene	57.4	2.5	50.000		115	70 - 130			
4-Chlorotoluene	57.3	2.5	50.000		115	70 - 130			
1,3,5-Trimethylbenzene	59.3	2.5	50.000		119	70 - 130			
tert-Butylbenzene	58.6	2.5	50.000		117	70 - 130			
1,2,4-Trimethylbenzene	59.1	2.5	50.000		118	70 - 130			
sec-Butylbenzene	57.9	2.5	50.000		116	70 - 130			
1,3-Dichlorobenzene	59.3	2.5	50.000		119	70 - 130			
4-Isopropyltoluene	60.1	2.5	50.000		120	70 - 130			
1,4-Dichlorobenzene	58.9	2.5	50.000		118	70 - 130			

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
LCS (B9E2149-BS1) - Continued					Prepared: 5/21/2019 Analyzed: 5/21/2019				
1,2-Dichlorobenzene	59.3	2.5	50.000		119	70 - 130			
n-Butylbenzene	59.3	2.5	50.000		119	70 - 130			
1,2,4-Trichlorobenzene	64.1	2.5	50.000		128	70 - 130			
Hexachlorobutadiene	62.8	2.5	50.000		126	70 - 130			
Naphthalene	61.4	2.5	50.000		123	70 - 130			
1,2,3-Trichlorobenzene	62.7	2.5	50.000		125	70 - 130			
Surrogate: 1,2-Dichloroethane-d4					*103*	*70 - 130*			
Surrogate: Toluene-d8					*98.4*	*70 - 130*			
Surrogate: 4-Bromofluorobenzene					*103*	*70 - 130*			

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COMPLETE ENVIRONMENTAL TESTING, INC.

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Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903

New York NELAP Accreditation 11982
Rhode Island Certification 199

CASE NARRATIVE

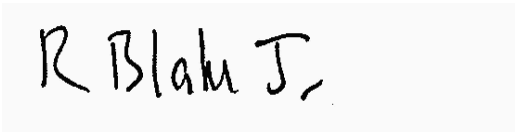
No collection times provided by client on chain of custody for the following samples: 9050382-01 through -05.

All 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

This technical report was reviewed by Robert Blake



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- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No 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
CT-ETPH in Soil	
ETPH	CT
EPA 524.2 in Water	
Methyl-t-Butyl Ether (MTBE)	CT,MA,RI
Benzene	CT,MA,RI
Toluene	CT,MA,RI
Chlorobenzene	CT,MA,RI
Ethylbenzene	CT,MA,RI
m+p Xylenes	CT,MA,RI
o-Xylene	CT,MA,RI
Styrene	CT,MA,RI
Isopropylbenzene	CT,MA,RI
Bromobenzene	CT,MA,RI
n-Propylbenzene	CT,MA,RI
2-Chlorotoluene	CT,MA,RI
4-Chlorotoluene	CT,MA,RI
1,3,5-Trimethylbenzene	CT,MA,RI
tert-Butylbenzene	CT,MA,RI
1,2,4-Trimethylbenzene	CT,MA,RI
sec-Butylbenzene	CT,MA,RI
1,3-Dichlorobenzene	CT,MA,RI
4-Isopropyltoluene	CT,MA,RI
1,4-Dichlorobenzene	CT,MA,RI
1,2-Dichlorobenzene	CT,MA,RI
n-Butylbenzene	CT,MA,RI
1,2,4-Trichlorobenzene	CT,MA,RI
Hexachlorobutadiene	CT,MA,RI
Naphthalene	CT,MA,RI
1,2,3-Trichlorobenzene	CT,MA,RI
EPA 8260C in Soil	
Methyl-t-Butyl Ether (MTBE)	CT,NY,PA
Benzene	CT,NY,PA
Toluene	CT,NY,PA
Chlorobenzene	CT,NY,PA
Ethylbenzene	CT,NY,PA
m+p Xylenes	CT,NY,PA
o-Xylene	CT,NY,PA
Styrene	CT,NY,PA
Isopropylbenzene	CT,NY,PA
Bromobenzene	CT,NY,PA
n-Propylbenzene	CT,NY,PA
2-Chlorotoluene	CT,NY,PA
4-Chlorotoluene	CT,NY,PA
1,3,5-Trimethylbenzene	CT,NY,PA
tert-Butylbenzene	CT,NY,PA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 8260C in Soil	
1,2,4-Trimethylbenzene	CT,NY,PA
sec-Butylbenzene	CT,NY,PA
1,3-Dichlorobenzene	CT,NY,PA
4-Isopropyltoluene	CT,NY,PA
1,4-Dichlorobenzene	CT,NY,PA
1,2-Dichlorobenzene	CT,NY,PA
n-Butylbenzene	CT,NY,PA
1,2,4-Trichlorobenzene	CT,NY,PA
Hexachlorobutadiene	CT,NY,PA
Naphthalene	CT,NY,PA
1,2,3-Trichlorobenzene	CT
EPA 8260C in Water	
Methyl-t-Butyl Ether (MTBE)	CT,NY
Benzene	CT,NY
Toluene	CT,NY
Chlorobenzene	CT,NY
Ethylbenzene	CT,NY
m+p Xylenes	CT,NY
o-Xylene	CT,NY
Styrene	CT,NY
Isopropylbenzene	CT,NY
Bromobenzene	CT,NY
n-Propylbenzene	CT,NY
2-Chlorotoluene	CT,NY
4-Chlorotoluene	CT,NY
1,3,5-Trimethylbenzene	CT,NY
tert-Butylbenzene	CT,NY
1,2,4-Trimethylbenzene	CT,NY
sec-Butylbenzene	CT,NY
1,3-Dichlorobenzene	CT,NY
4-Isopropyltoluene	CT,NY
1,4-Dichlorobenzene	CT,NY
1,2-Dichlorobenzene	CT,NY
n-Butylbenzene	CT,NY
1,2,4-Trichlorobenzene	CT,NY
Hexachlorobutadiene	CT,NY
Naphthalene	CT,NY
1,2,3-Trichlorobenzene	CT,NY
SM 2540 G in Soil	
Percent Solids	CT

CET # : 9050382

Project: 180101C, 134 Bilton Rd, Somers

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2020
MA	Massachusetts Laboratory Certification	M-CT903	06/30/2019
NY	New York Certification (NELAC)	11982	04/01/2020
PA	Pennsylvania DEP	68-02927	05/31/2020
RI	Rhode Island Certification	LAO 00227	12/30/2019

9050382

CET
COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

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, DW=Drinking Water, C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one)

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	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	Metals: 8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Additional Analysis	TOTAL # OF CONT.	NOTE #
AB5 15-17	5/13/19	S					✓		✓																	4	
AB6 15-17	5/13/19	S					✓		✓		✓															5	
AB6 24-26	5/13/19	S					✓		✓		✓															5	
MW-2	5/13/19	W					✓		✓																	2	
Dug well	5/13/19	DW					✓		✓																	2	
PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)									CL		C																
CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)									G		G																
Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)									1M/2F																		

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Kristie Ferreira	5/14/19 9:20	[signature]
[signature]	5-14-19 11:10	Bau

NOTES:

Client / Reporting Information

Company Name: North Star Environmental
Address:
City: State: Zip:
Report To: E-mail:
Phone #: Fax #:

Project Information

Project: 134 Bilton Rd PO #:
Location: Somers CT Project #: 180101C
CET Quote #: Collector(s): KAF
QA/QC: ☑ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *
Data Report: ☑ PDF ☐ EDD - Specify Format: X-cell Other:
RSR Reporting Limits (check one): ☑ GA ☐ GB ☐ SWP ☐ Other
Laboratory Certification Needed (check one): ☑ CT ☐ NY ☐ RI ☐ MA
Temp Upon Receipt: 3.4 °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.

REV. 10/16

NORTHSTAR
ENVIRONMENTAL MANAGEMENT, LLC

Appendix C
AST Confirmatory Sample

800 Village Walk, No. 325, Guilford, CT 06437
Phone (203) 458-3426 • Fax (203) 458-1597 • e-mail: northstar_environmental@hotmail.com

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Kristie Ferreira
Northstar Environmental Mgt LLC
1100 Boston Post Road
Guilford, CT 06437

Analytical Report

CET# 9100474

Report Date:October 24, 2019
Project: Bilton Rd

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Certificate: 68-02927

CET # : 9100474
Project: Bilton Rd

Client Sample ID AST-2

Lab ID: 9100474-03

Conn. Extractable TPH **Analyst: ACS**

Method: CT-ETPH **Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	**130**	55	1	EPA 3550C	B9J1718	10/17/2019	10/17/2019 21:39	R
Surrogate: Octacosane	*110 %*	*50 - 150*			B9J1718	10/17/2019	*10/17/2019 21:39*	

R C14-C36 Unknown

CASE NARRATIVE

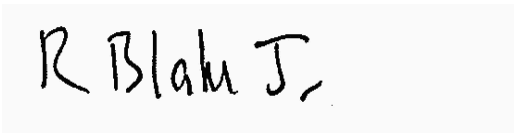
No collection times provided by client on chain of custody for the following samples: 9100474-01 through -03.

All 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

This technical report was reviewed by Robert Blake



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- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No 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
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

NORTHSTAR
ENVIRONMENTAL MANAGEMENT, LLC

Appendix D
Shipping Logs and Weight Tickets

800 Village Walk, No. 325, Guilford, CT 06437
Phone (203) 458-3426 • Fax (203) 458-1597 • e-mail: northstar_environmental@hotmail.com

Ondrick Materials & Recycling, LLC
22 Industry Road, Chicopee, MA 01020

Ticket **321518**
10/16/19 2:10 PM

Truck ID	SCOOBY	SCOOBY.
Customer	10590	Ecos Energy
Order	19-09-M-6385CT	134 Bilton Road, Somers, CT
P.O.		
Product	GAS/OIL/PETROLEUM	
Site Addr.	134 Bilton Road Somers, CT	

Driver: _____

Customer: _____

Arrival Time: _____ **Depart Time:** _____

Gross	81760 Lb	
Tare	27200 Lb	*
Net	27.28 Ton	

	Today	To Date
Loads	6	2
Qty	158.10	62.10

NOTICE TO PURCHASERS: The Purchaser, through their officer, principal, employee or agent, hereby acknowledges that in consideration of the purchase and loading of product from Ted Ondrick Construction Company, hereafter referred to as Seller, the Purchaser agrees that SELLER'S LIABBILITY, IN TORT, IN NEGLIGENCE OR OTHERWISE SHALL BE LIMITED TO THE AMOUNT OF THE PURCHASE PRICE OF THE SELLER'S PRODUCT AND UNDER NO CIRCUMSTANCE SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES arising out of the fact that the vehicle loaded by the seller for the purchaser was loaded in excess of its permitted and certified capacity. Purchaser, through their officer, principal, employee or agent, further agrees in consideration of the purchase and loading of Seller's product, TO RELEASE, REMISE AND FOREVER DISCHARGE THE SELLER, ITS REPRESENTATIVES, SUCCESSORS AND ASSIGNS OF AND FROM ANY AND ALL DEBTS, DEMANDS, ACTIONS, CAUSES OF ACTION, SUITS, PRECEEDINGS, AGREEMENTS, CONTRACTS, JUDGEMENTS, DAMAGES, EXECUTIONS, CLAIMS AND LIABILITIES WHATSOEVER OF EVERY NATURE AND NAME, WHETHER KNOWN OR UNKNOWN, WHETHER IN LAW OR IN EQUITY, WHICH THE PURCHASER HAS OR MAY HAVE FOR ANY REASON, MATTER OR CAUSE, AND PURCHASER FURTHER INDEMNIFIES AND HOLDS SELLER HARMLESS FROM ANY LOSS, COST, EXPENSE, DAMAGE, OR ATTORNEY'S FEES ARISING OUT OF THE SELLER'S LOADING OF ANY VEHICLE FOR THE PURCHASER IN EXCESS OF ITS PERMITTED AND CERTIFIED CAPACITY

CAUTION: HOT MATERIAL (275°F-325°F) Avoid contact with skin & eyes - Thermal Burns could result. Fumes count cause nausea or irritation. Seek proper medical assistance in all emergencies. Consult Material Safety Data Sheet for more information. KNOW & RESPECT THE PRODUCTS YOU HANDLE.

Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket 321502
10/16/19 12:40 PM

Truck ID	SCOOBY	SCOOBY.
Customer	10590	Ecos Energy
Order	19-09-M-6385CT	134 Bilton Road, Somers, CT
P.O.		
Product	GAS/OIL/PETROLEUM	
Site Addr.	134 Bilton Road Somers, CT	

Driver: _____

Customer: _____

Arrival Time: _____ **Depart Time:** _____

Gross	79660 Lb	
Tare	27200 Lb	*
Net	26.23 Ton	

	Today	To Date
Loads	5	1
Qty	130.82	34.82

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Ondrick Materials & Recycling, LLC
22 Industry Road, Chicopee, MA 01020

Ticket **321487**
10/16/19 11:22 AM

Truck ID	SCOOBY	SCOOBY.
Customer	10590	Ecos Energy
Order	19-09-M-6385CT	134 Bilton Road, Somers, CT
P.O.		
Product	GAS/OIL/PETROLEUM	
Site Addr.	134 Bilton Road Somers, CT	

Driver: _____

Customer: _____

Arrival Time: _____ **Depart Time:** _____

Gross	80440 Lb	m
Tare	27200 Lb	*
Net	26.62 Ton	m

	Today	To Date
Loads	4	0
Qty	104.59	8.59

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Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket 321476
10/16/19 10:07 AM

Truck ID	SCOOBY	SCOOBY.
Customer	10590	Ecos Energy
Order	19-09-M-6385CT	134 Bilton Road, Somers, CT
P.O.		
Product	GAS/OIL/PETROLEUM	
Site Addr.	134 Bilton Road Somers, CT	

Driver: _____

Customer: _____

Arrival Time: _____ **Depart Time:** _____

Gross	78900 Lb	m
Tare	27200 Lb	*
Net	25.85 Ton	m

	Today	To Date
Loads	3	-1
Qty	77.97	-18.03

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Ondrick Materials & Recycling, LLC
22 Industry Road, Chicopee, MA 01020

Ticket 321464
10/16/19 8:55 AM

Truck ID	SCOOBY	SCOOBY.
Customer	10590	Ecos Energy
Order	19-09-M-6385CT	134 Bilton Road, Somers, CT
P.O.		
Product	GAS/OIL/PETROLEUM	
Site Addr.	134 Bilton Road Somers, CT	

Driver: _____

Customer: _____

Arrival Time: _____ **Depart Time:** _____

Gross	79360 Lb	m
Tare	27200 Lb	*
Net	26.08 Ton	m

	Today	To Date
Loads	2	-2
Qty	52.12	-43.88

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Ondrick Materials & Recycling, LLC
22 Industry Road, Chicopee, MA 01020

Ticket 321454
10/16/19 7:38 AM

Truck ID	SCOOBY	SCOOBY.
Customer	10590	Ecos Energy
Order	19-09-M-6385CT	134 Bilton Road, Somers, CT
P.O.		
Product	GAS/OIL/PETROLEUM	
Site Addr.	134 Bilton Road Somers, CT	

Driver: _____

Customer: _____

Arrival Time: _____ **Depart Time:** _____

Gross	79280 Lb	m
Tare	27200 Lb	*
Net	26.04 Ton	m

	Today	To Date
Loads	1	-3
Qty	26.04	-69.96

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Massachusetts Department of Environmental Protection
Bureau of Air & Waste

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

1909 M 6385 CT
Tracking Number

Scooby

J. Load Information

Note: Make additional copies of this page as necessary.

Load#: 1

Robert Auger
Signature of transporter

10/16/18 — 737 AM
Date received — Time received

405804
Truck/Tractor registration

26.04
Load size (cubic yards/tons)

ondrocks / DWS
Receiving facility

10/16/18 — 7:00 AM
Date of shipment — Time of shipment

Trailer registration

Load#: 2

Robert Auger
Signature of transporter

10/16/18 — 855 AM
Date received — Time received

405804
Truck/Tractor registration

26.08
Load size (cubic yards/tons)

ondrocks / DWS
Receiving facility

10/16/18 — 825 AM
Date of shipment — Time of shipment

Trailer registration

Load#: 3

Robert Auger
Signature of transporter

10/16/18 — 1007 AM
Date received — Time received

405804
Truck/Tractor registration

25.85
Load size (cubic yards/tons)

ondrocks / DWS
Receiving facility

10/16/18 — 935 AM
Date of shipment — Time of shipment

Trailer registration

K. Log Sheet Volume Information

Total volume this page (cubic yards/tons)

Total carried forward (cubic yards/tons)

Total carried forward and this page (cubic yards/tons)

Page 1 of 2

Massachusetts Department of Environmental Protection
Bureau of Air & Waste

Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

1909 M 6385 CT
Tracking Number

Scooby

J. Load Information

Note:
Make additional copies of this page as necessary.

Load#: 4

Signature of transporter

Receiving facility: Ondricks / DWS

Date received: 10/16/18 Time received: 1121 am

Date of shipment: 10/16/18 Time of shipment: 10:50 am

Truck/Tractor registration: 40580-M

Trailer registration

Load size (cubic yards/tons): 26.62

Load#: 5

Signature of transporter

Receiving facility: Ondricks / DWS

Date received: 10/16/18 Time received: 1239 pm

Date of shipment: 10/16/18 Time of shipment: 1210 pm

Truck/Tractor registration: 40580-A

Trailer registration

Load size (cubic yards/tons): 26.23

Load#: 6

Signature of transporter

Receiving facility: Ondricks / DWS

Date received: 10/16/18 Time received: 209 pm

Date of shipment: 10/16/18 Time of shipment: 135 pm

Truck/Tractor registration: 40580-A

Trailer registration

Load size (cubic yards/tons): 27.28

K. Log Sheet Volume Information

Total volume this page (cubic yards/tons)

Total carried forward (cubic yards/tons)

Total carried forward and this page (cubic yards/tons)

Page 2 of 2

Ondrick Materials & Recycling, LLC
22 Industry Road, Chicopee, MA 01020

Ticket **321610**
10/17/19 12:57 PM

Truck ID	SCOOBY	SCOOBY.
Customer	10590	Ecos Energy
Order	19-09-M-6385CT	134 Bilton Road, Somers, CT
P.O.		
Product	GAS/OIL/PETROLEUM	
Site Addr.	134 Bilton Road Somers, CT	

Driver: _____

Customer: _____

Arrival Time: _____ **Depart Time:** _____

Gross	79420 Lb	m
Tare	27200 Lb	*
Net	26.11 Ton	m

	Today	**To Date**
Loads	3	5
Qty	79.25	141.35

NOTICE TO PURCHASERS: The Purchaser, through their officer, principal, employee or agent, hereby acknowledges that in consideration of the purchase and loading of product from Ted Ondrick Construction Company, hereafter referred to as Seller, the Purchaser agrees that SELLER'S LIABBILITY, IN TORT, IN NEGLIGENCE OR OTHERWISE SHALL BE LIMITED TO THE AMOUNT OF THE PURCHASE PRICE OF THE SELLER'S PRODUCT AND UNDER NO CIRCUMSTANCE SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES arising out of the fact that the vehicle loaded by the seller for the purchaser was loaded in excess of its permitted and certified capacity. Purchaser, through their officer, principal, employee or agent, further agrees in consideration of the purchase and loading of Seller's product, TO RELEASE, REMISE AND FOREVER DISCHARGE THE SELLER, ITS REPRESENTATIVES, SUCCESSORS AND ASSIGNS OF AND FROM ANY AND ALL DEBTS, DEMANDS, ACTIONS, CAUSES OF ACTION, SUITS, PRECEEDINGS, AGREEMENTS, CONTRACTS, JUDGEMENTS, DAMAGES, EXECUTIONS, CLAIMS AND LIABILITIES WHATSOEVER OF EVERY NATURE AND NAME, WHETHER KNOWN OR UNKNOWN, WHETHER IN LAW OR IN EQUITY, WHICH THE PURCHASER HAS OR MAY HAVE FOR ANY REASON, MATTER OR CAUSE, AND PURCHASER FURTHER INDEMNIFIES AND HOLDS SELLER HARMLESS FROM ANY LOSS, COST, EXPENSE, DAMAGE, OR ATTORNEY'S FEES ARISING OUT OF THE SELLER'S LOADING OF ANY VEHICLE FOR THE PURCHASER IN EXCESS OF ITS PERMITTED AND CERTIFIED CAPACITY

CAUTION: HOT MATERIAL (275°F-325°F) Avoid contact with skin & eyes - Thermal Burns could result. Fumes count cause nausea or irritation. Seek proper medical assistance in all emergencies. Consult Material Safety Data Sheet for more information. KNOW & RESPECT THE PRODUCTS YOU HANDLE.

Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket 321588
10/17/19 11:21 AM

Truck ID	SCOOBY	SCOOBY.
Customer	10590	Ecos Energy
Order	19-09-M-6385CT	134 Bilton Road, Somers, CT
P.O.		
Product	GAS/OIL/PETROLEUM	
Site Addr.	134 Bilton Road Somers, CT	

Driver: _____

Customer: _____

Arrival Time: _____ **Depart Time:** _____

Gross	81040 Lb	m
Tare	27200 Lb	*
Net	26.92 Ton	m

	Today	To Date
Loads	2	4
Qty	53.14	115.24

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Ondrick Materials & Recycling, LLC

22 Industry Road, Chicopee, MA 01020

Ticket 321568
10/17/19 10:00 AM

Truck ID	SCOOBY	SCOOBY.
Customer	10590	Ecos Energy
Order	19-09-M-6385CT	134 Bilton Road, Somers, CT
P.O.		
Product	GAS/OIL/PETROLEUM	
Site Addr.	134 Bilton Road Somers, CT	

Driver: _____

Customer: _____

Arrival Time: _____ **Depart Time:** _____

Gross	79640 Lb	m
Tare	27200 Lb	*
Net	26.22 Ton	m

	Today	To Date
Loads	1	3
Qty	26.22	88.32

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Material Shipping Record & Log

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

1909M6385CT
Tracking Number

Scooby

J. Load Information

Note: Make additional copies of this page as necessary.

Load#: 1

Signature of transporter

10/17/18 — Date received — 1000 AM — Time received

405 SUA — Truck/Tractor registration

26.22 — Load size (cubic yards/tons)

Ondracks/DWS — Receiving facility

10/17/18 — Date of shipment — 9:15 — Time of shipment

Trailer registration

Load#: 2

Signature of transporter

10/17/18 — Date received — 1120 AM — Time received

405 SUA — Truck/Tractor registration

26.92 — Load size (cubic yards/tons)

Ondracks/DWS — Receiving facility

10/17/18 — Date of shipment — 1045 AM — Time of shipment

Trailer registration

Load#: 3

Signature of transporter

10/17/18 — Date received — 1256 pm — Time received

405 SUA — Truck/Tractor registration

26.11 — Load size (cubic yards/tons)

Ondracks/DWS — Receiving facility

10/17/18 — Date of shipment — 1210 pm — Time of shipment

Trailer registration

K. Log Sheet Volume Information

Total volume this page (cubic yards/tons)

Total carried forward (cubic yards/tons)

Total carried forward and this page (cubic yards/tons)

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