TASK 210
SUBSURFACE SITE INVESTIGATION REPORT
CENTRAL WAREHOUSE
ROCKY HILL, CONNECTICUT

ConnDOT Project Number: 170-3476

Prepared for

State of Connecticut Department of Transportation
Division of Environmental Compliance

Newington, Connecticut

Prepared by

TRC

Windsor, Connecticut

January 2019

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TRC
Windsor, Connecticut

TRC Project No. 237612.005738.000210

January 2019

21 Griffin Road North
Windsor, CT 06095
Phone: (860) 298-9692
Fax: (860) 298-6399

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1.0 INTRODUCTION

1.1 Overview

Pursuant to TRC's Connecticut Department of Transportation (ConnDOT) Contract for On-Call Environmental Services, TRC performed a Task 210 Subsurface Site Investigation at their Central Warehouse facility located at 660 Brook Street (referred to as the "Site") in Rocky Hill, Connecticut (Figure 1). The Site is developed with several buildings with multi-use purposes. Specifically, this investigation was conducted to assess the subsurface conditions surrounding the 2,500-gallon diesel fuel underground storage tank (UST) associated with the emergency generator servicing the Central Warehouse building. The generator and associated UST will be removed and replaced with a new generator and diesel fuel aboveground storage tank (AST).

1.2 Objectives

The primary objectives of this Task 210 site investigation were to:

- Determine soil quality in the area of the facility's diesel fuel UST; and
- Utilize the gathered data to determine how best to manage soil during the tank removal activities, and whether Plans and Specifications are required for the impending construction activities.

The analytical results of the soil sampling conducted as part of this Task 210 have been compared to the numerical criteria set forth in Connecticut's Remediation Standard Regulations (RSRs) in order to determine the relative magnitude of potential impacts and aid in managing the materials encountered during the construction activities.

1.3 Background

Based on limited discussions with ConnDOT personnel, it is TRC's understanding that ConnDOT is closing a 2,500-gallon diesel fuel UST that is currently installed at their Central Warehouse facility located in Rocky Hill. The UST is located adjacent to the northwest corner of Central Warehouse building. The tank location is depicted on Figures 2 and 3.

1.4 Geologic/Physical Setting

As indicated on the Surficial Materials Map of Connecticut (Stone et al, 1992), the site is located in an area of sand and gravel overlying sand. The area consists of sand and gravel up to 20 feet thick, horizontally bedded, and overlies thicker, inclined layers of sand (interpreted to be deltaic deposits). The subsurface conditions encountered during the investigation generally consisted of brown fine to medium sand with varying amounts of silt, coarse sand, and gravel. TRC identified asphalt millings in the subsurface soils at depths ranging from approximately 1.5 to 10 feet below grade (ftbg) within the area of the UST, indicating the presence of fill material.

As indicated by the Geological Map of Connecticut (Rogers, 1985), the site is located within the Hartford Basin of the Newark (Rift Valley) Terrane. The layered sand and gravel overlying sand deposits are underlain by Portland Arkose, which is characterized as reddish-brown arkose (brownstone). Bedrock was not encountered during this investigation.

The topography in the immediate project area can be characterized as sloping from north to south/southwest. Groundwater generally flows from high topographic points to low topographic points, but can also be heavily influenced by aquifer type, depth to bedrock, nearby watercourses, groundwater use (withdrawal wells) and subsurface structures. Based on the local topography and features, groundwater is anticipated to flow to the southwest toward a nearby unnamed pond. During this investigation, groundwater was generally encountered in the soil borings at a depth of approximately six to 10 feet below grade (ftbg).

According to the Connecticut Department of Energy and Environmental Protection (CTDEEP) groundwater classification maps reviewed by TRC, groundwater beneath the northern-most portion of the site is classified as “GA”. The remainder of the site, including the project area, is classified as “GA-Impaired”, which means it currently may not be meeting the GA or GAA standards. Class GA designated uses are existing private and potential public or private supplies of water suitable for drinking without treatment and as baseflow for hydraulically-connected surface water bodies.

2.0 TECHNICAL APPROACH

This section of the report summarizes the soil sampling methods employed during the Task 210 field investigation. Observations made in the field are also summarized in this section. The Task 210 work performed at this site was completed in accordance with the *TRC Work Request for Task 210 Subsurface Site Investigation: Central Warehouse – UST Removal, Rocky Hill, CT,* completed by TRC in November 2018. Any exceptions to the proposed plan are noted in the following sub-sections.

As indicated above, the focus of the Task 210 Subsurface Site Investigation was to characterize soil at the site in the area of the existing diesel fuel oil UST. Six borings were advanced around the concrete pad covering the UST (see Figure 3). Soil borings were not advanced directly east of the UST, specifically in-between the concrete pad and the building, due to the presence of buried electrical lines and/or the fuel oil supply and return lines. Instead, soil borings were slightly off-set from the corners of the concrete pad. In addition, soil borings located to the west of the UST were also off-set from the corners of the concrete pad due to the presence of the riprap covered slope directly west of the UST.

A total of seven soil samples (including one duplicate sample) were collected from the six soil borings for submission to the laboratory for analysis (one sample per boring). No groundwater samples were collected as part of this investigation.

The seven soil samples were submitted to the laboratory for the analysis of the following:

- Volatile Organic Compounds (VOCs) by EPA Method 8260 (with Method 5035 field preservation);
- Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270; and
- Extractable Total Petroleum Hydrocarbons (ETPH) by Connecticut Department of Public Health Method.

All samples were analyzed by Phoenix Environmental Laboratories (Phoenix) of Manchester, Connecticut in accordance with Connecticut's Reasonable Confidence Protocols (RCPs).

2.1 Preliminary Activities

Prior to beginning the investigation, TRC marked the proposed boring locations at the site with white paint. "Call Before You Dig" (CBYD) was contacted by Cisco Geotechnical,

LLC (Cisco) of Glastonbury, Connecticut to mark the locations of buried utilities in the proposed work areas. In addition, TRC contracted Underground Surveying, LLC of Brookfield, Connecticut, a private utility locating service, to conduct a more detailed on-site mark-out given the presence of several utilities within the investigation area. Preliminary activities also included the preparation of a Health and Safety Plan (HASP) to address the field work to be completed as part of this Task 210.

2.2 Soil Boring Program

Methodology

A total of six soil borings were advanced on December 13, 2018 by Cisco under the direct supervision of TRC personnel. These borings were advanced utilizing a truck-mounted GeoProbe™ direct-push drill rig. Soil cores were collected continuously from the ground surface to depths ranging from eight to 12 ftbg.

Each four-foot soil core, collected in an acetate Macro-Core® liner, was logged with respect to soil characteristics (i.e., grain size, moisture content and any other physical characteristics) and indications of potential impacts (e.g., stains and odors). In addition, each core was field-screened using a photoionization detector (PID) prior to the collection of soil samples for laboratory analysis. Soil boring logs are presented in Appendix A. The soil boring/sampling locations are shown on Figure 3.

The initial criteria for selecting a sample interval for laboratory analysis were visual and olfactory observations and/or PID screening results. In the absence of obvious evidence of impacts, the soil sample intervals were chosen based on the most-likely interval for impacts, that typically being a depth corresponding with bottom of the tank and/or directly at or above the groundwater interface. TRC presumes the tank is six-feet in diameter with three to four feet of cover material. Therefore the bottom of the tank (estimated at nine to 10 ftbg) and the observed water table depths are in close proximity to one another.

Soil samples submitted to the laboratory for VOC analysis were collected in accordance with EPA Method 5035. This method outlines the collection of soil samples, without homogenization and with minimal disturbance, and direct transfer into extraction solvents. The remaining soil was then homogenized and placed in the appropriate laboratory-supplied sample containers and then placed in a cooler with ice, for delivery to the laboratory. The remaining

soils and drill cuttings were returned to their respective boreholes. Final borehole locations were documented by measuring from two or more fixed locations and recording those measurements in the project field notebook.

The probe tip and Macro-Core® sampler were decontaminated between uses to minimize the potential for cross-contamination. The decontamination was completed by washing with an Alconox and tap water mixture, followed by a tap water rinse and a final deionized water rinse.

Field Observations

Based on the descriptions of the soil cores, the area of the diesel fuel UST is primarily underlain by brown fine to medium sand with varying amounts of silt, coarse sand, and gravel. As discussed above, TRC identified asphalt millings in the soil at depths ranging from approximately 1.5 to 10 feet below grade (ftbg) within the area of the UST, indicating the presence of fill material.

Each soil core was screened with a PID for volatile organic vapors. One low-level PID measurement of 3.5 parts per million (ppm) was observed at a depth of 9.5 ftbg in soil boring CW-B4, which is located to the south of the UST. No significant PID measurements, odors, or staining were observed in any of the remaining soil borings. Neither bedrock nor boring refusal was encountered in any boring drilled as part of this investigation.

As discussed above, no soil borings were advanced directly the east of the UST, specifically in-between the concrete pad covering the UST and the building, due to the potential of striking buried electrical lines and/or the fuel oil supply and return lines. Instead, the two soil borings on eastern side of the UST were slightly off-set from the corners of the concrete pad. In addition, soil borings located to the west of the UST were also off-set from the corners of the concrete pad due to the riprap covered slope directly along the western side of the UST.

2.3 Quality Assurance/Quality Control Samples

Quality assurance/quality control (QA/QC) samples were collected as part of the Task 210 subsurface investigation.

In order to determine the effectiveness of the decontamination of the sampling equipment, a field rinsate blank was collected and analyzed for the same analyses as the primary samples submitted on the day of the sampling. The field equipment rinsate blank was collected

by pouring laboratory-supplied de-ionized water over and/or through the sampling equipment (acetate liner, sampling tubing, etc.) used in the collection of the samples. The rinsate water was then collected into the appropriate laboratory-supplied sample containers. The field rinsate blank associated with the sampling program was designated as "FB20181213."

In addition, solvent blanks were submitted to evaluate the effect of sample storage and shipment on sample integrity for the soil samples collected for VOC analysis. Furthermore, solvent blanks are used to ensure that proper sample container preparation and handling procedures were utilized following EPA 5035 Method protocols for field preservation of VOC soil samples. Vials of methanol and de-ionized water to be used for VOC soil sampling were prepared by the laboratory. The solvent blanks associated with the soil sampling program were designated as "SB20181213-H" and "SB20181213-L".

Duplicate samples are two separate samples collected from the same source. The procedure for collecting a duplicate sample consists of alternating the collection of the sample media between the primary sample container and the duplicate sample container. The duplicate soil sample collected as part of this soil sampling program was labeled as CW-B100(8-10) and was a duplicate of soil sample CW-B4(8-10).

3.0 INVESTIGATION RESULTS

The following section provides a summary of the analytical results for the soil sampling conducted at the site. Seven soil samples (including a duplicate soil sample) were collected and analyzed for VOCs, PAHs, and ETPH. The soil analytical results are summarized in Table 1. A copy of the laboratory report is provided in Appendix B.

Although the project site is not subject to the Transfer Act, the Voluntary Cleanup Program, nor the requirements of a Consent Order, the soil analytical results were compared to the Connecticut RSRs to evaluate the levels of any detected contaminants within the investigated area. This allows for management of any contaminated media encountered during the impending construction activities in a manner consistent with applicable regulations.

The reported concentrations for soils were compared to the Residential Direct Exposure Criteria (RES DEC) and the GA Pollutant Mobility Criteria (GA PMC) under the RSRs. The Industrial/Commercial (I/C) Criteria are not technically applicable at a site unless an Environmental Land Use Restriction (ELUR) is implemented, therefore, those criteria are not presented herein.

3.1 Soil Sample Results

As indicated above, a summary of the soil sample analytical results is presented in Table 1. A copy of the laboratory analytical report for soil samples is included in Appendix B.

VOCs

No VOCs were detected at concentrations above the laboratory reporting limits in any of the soil samples collected as part of this investigation.

PAHs

Several PAHs were reported at a concentrations above the laboratory reporting limits in all seven soil samples submitted for analysis. The reported concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, and pyrene were above the RES DEC and/or GA PMC in soil samples CW-B1(6-8), CW-B3(8-10), CW-B4(8-10), CW-B100(8-10) and CW-B6(4-6). The remaining reported concentrations of PAH compounds were below their respective RSR criteria.

ETPH

ETPH was not detected above laboratory reporting limits in any of the soil samples collected as part of this investigation.

3.2 Quality Assurance / Quality Control Sample Results

As indicated in Section 2.3, a field equipment rinsate blank, soil duplicate sample, and soil solvent blank were submitted to the laboratory as part of the sampling program for QA/QC purposes. The field rinsate blank did not exhibit detectable concentrations of any constituents, indicating that the field equipment used for the sampling had been adequately decontaminated and had no influence on the soil analytical results.

The concentration of detected PAHs in the duplicate sample CW-B100(8-10) varied slightly from those detected in the primary sample CW-B4(8-10). The minimal variation in the reported PAH compounds indicates that the samples were adequately homogenized in the field and the laboratory's processing of the samples was consistent.

VOCs were not detected in the soil solvent blank associated with this investigation.

4.0 CONCLUSIONS AND RECOMMENDATIONS

This section briefly summarizes the findings of the Task 210 exploratory site investigation activities conducted at the site on December 13, 2018. Also included are recommendations based on these findings/conclusions.

4.1 Soil

1. The soil borings drilled in the planned UST removal area were advanced to a maximum depth of 12 ftbg. In general, the site is primarily underlain by brown fine to medium sand with varying amounts of silt, coarse sand, and gravel. Asphalt millings were observed in the soils at depths ranging from 1.5 to 10 ftbg in all but one soil boring, indicating the presence of fill material surrounding the UST. In addition, one low-level PID measurements was detected in the soil from boring CW-B4 at a depth of 9.5 ftbg. No field evidence of contamination (i.e., elevated PID measurements, odors and/or staining) were observed in any of the remaining soil borings.

2. No VOCs or ETPH were detected in any of the soil samples collected as part of this investigation.

   Several PAH compounds were detected at concentrations above the RES DEC and/or GA PMC in soil samples CW-B1(6-8), CW-B3(8-10), CW-B4(8-10), CW-B100(8-10) and CW-B6(4-6).

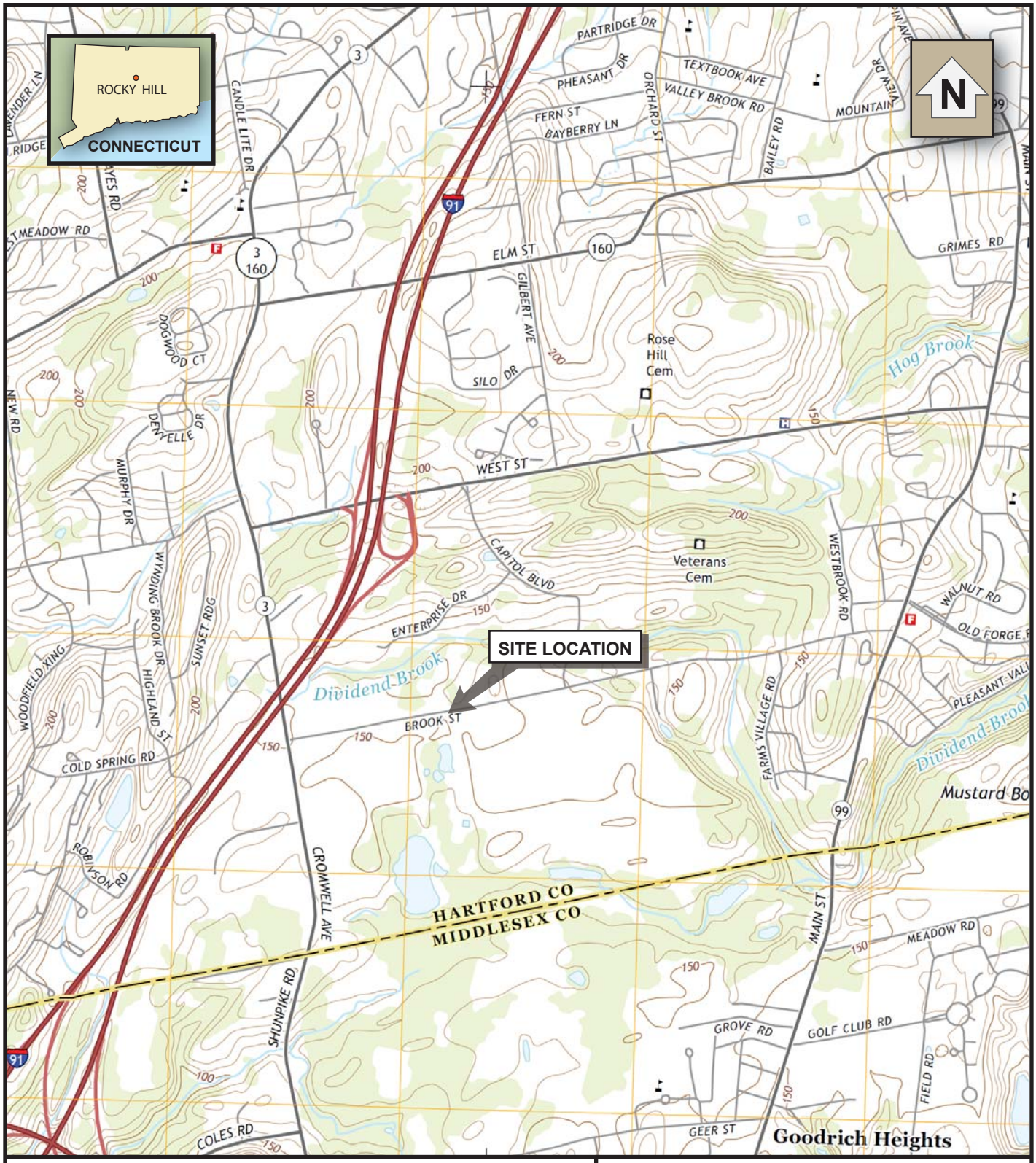
   Recommendation: It is recommended that a Notice To Contractor be prepared to notify the tank replacement contractor of the results of the investigation. In addition, a health and safety specification is warranted for the removal of the UST.

5.0 REFERENCES

Rogers, J. 1985. Bedrock Geological Map of Connecticut. State Geological and Natural History of Connecticut. Scale 1:125,000.

Stone, J.R. 1992. Surficial Materials Map of Connecticut. U.S. Department of the Interior, U.S. Geological Survey. Scale 1:125,000.

FIGURES



0 2000
Approximate Scale FT

0 1
Approximate Scale MILE

1:24000

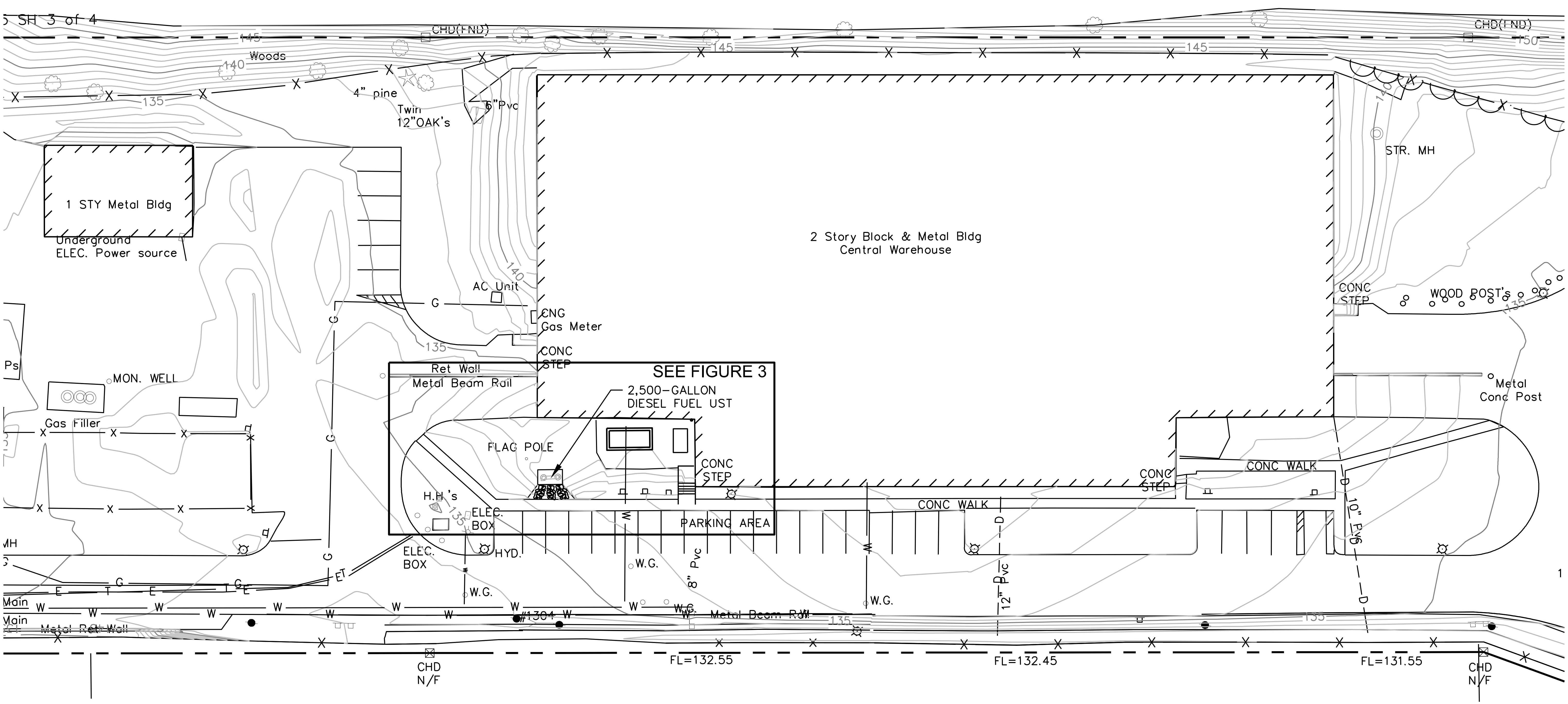
BASE CREATED WITH 7.5' USGS TOPOGRAPHIC MAPS
HARTFORD SOUTH, CT 2015 QUADRANGLE

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692

CONNDOT CENTRAL WAREHOUSE
660 BROOK STREET, ROCKY HILL, CONNECTICUT

FIGURE 1
SITE LOCATION MAP

DATE: 01/2019 | PROJECT NO. 237612.5738.0210



LEGEND

	BUILDING		PROPERTY LINE
			TREE LINE
	EDGE OF PAVEMENT		PARKING LOT LIGHT
	EDGE OF GRAVEL AREA		TREE
	GUIDE RAIL		
X	FENCE	C	UNDERGROUND TV CABLE
	CATCH BASIN	E	UNDERGROUND ELECTRIC
D	STORM DRAIN PIPE	W	WATER LINE
S	SANITARY SEWER PIPE	T	UNDERGROUND TELEPHONE
	MANHOLE		MONITORING WELL LOCATION

REFERENCE:
MAP TITLED "STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, BUILDING SURVEY, BROOK STREET FACILITY IN THE TOWN OF ROCKY HILL, PROJECT No. 118-167", SCALE: 1"=40', DATED: 12/30/14.

NORTH

0 40' 80'
GRAPHIC SCALE

CONNECTICUT DEPARTMENT OF TRANSPORTATION
CENTRAL WAREHOUSE
660 Brook Street
Rocky Hill, Connecticut

TITLE:
SITE PLAN

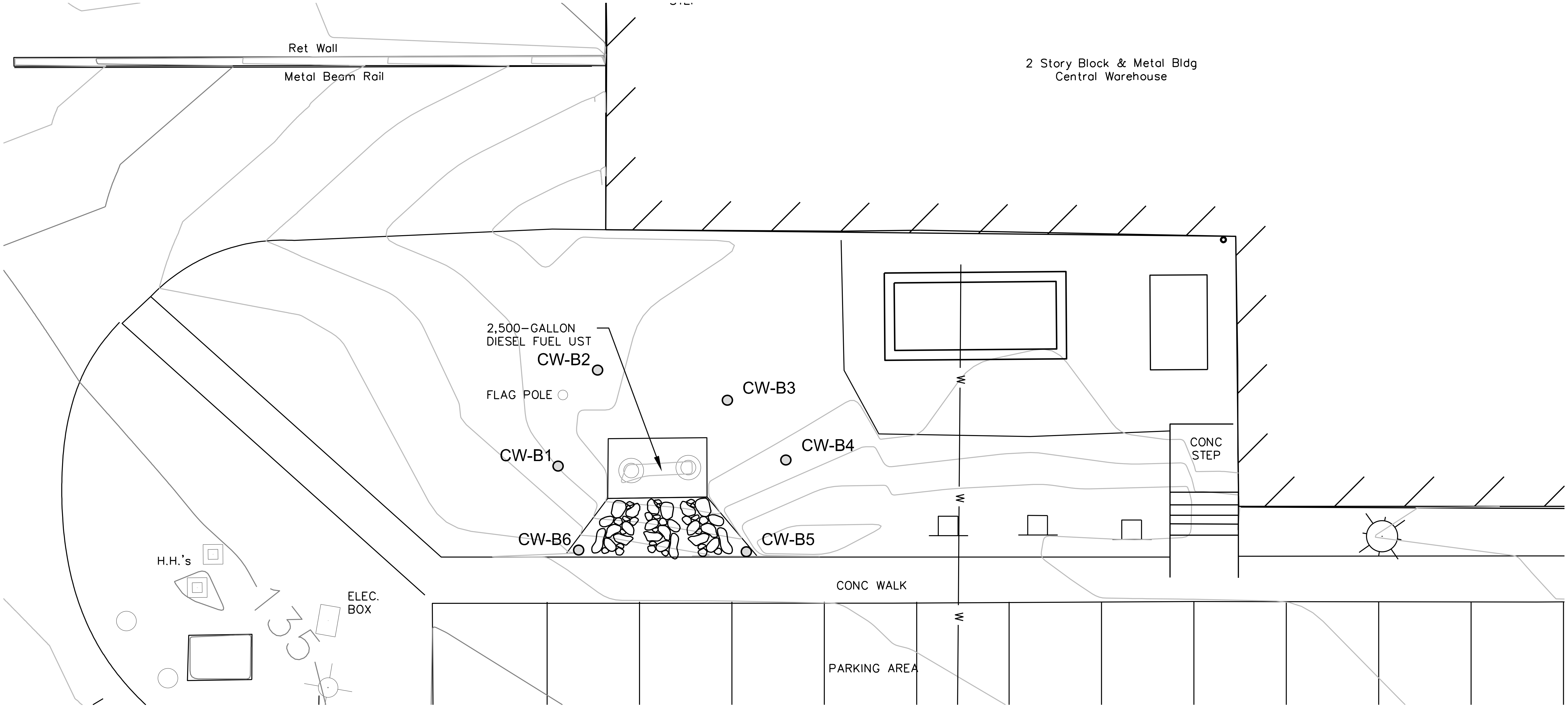
DRAWN BY:	K. HOLLENBECK	PROJ NO.:	237612-005738-000210
CHECKED BY:	L. BANE		**FIGURE 2**
APPROVED BY:	L. BANE		
DATE:	01/07/2019		

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trcsolutions.com

FILE NO.: Figure 2 & 3.dwg

DRAWING NAME: J:\CAD\CTDOT\Rocky Hill Central Warehouse\Site Investigation-237612-005738\000210\ Figure 2 & 3.dwg --- PLOT DATE: January 11, 2019 - 9:37AM --- LAYOUT: Figure 2

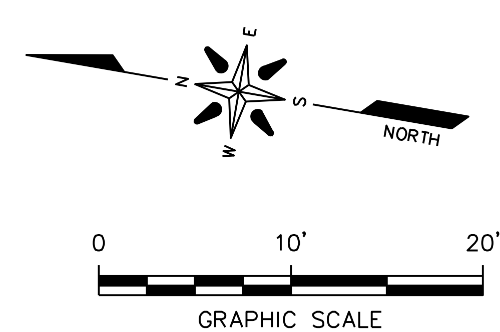
Version: 2017-10-21



LEGEND

Symbol	Description	Symbol	Description
	BUILDING		PROPERTY LINE
	EDGE OF PAVEMENT		TREE LINE
	EDGE OF GRAVEL AREA		PARKING LOT LIGHT
	GUIDE RAIL		TREE
X	FENCE	C	UNDERGROUND TV CABLE
	CATCH BASIN	E	UNDERGROUND ELECTRIC
D	STORM DRAIN PIPE	W	WATER LINE
S	SANITARY SEWER PIPE	T	UNDERGROUND TELEPHONE
	MANHOLE		MONITORING WELL LOCATION
			SOIL BORING LOCATION

REFERENCE:
MAP TITLED "STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, BUILDING SURVEY, BROOK STREET FACILITY IN THE TOWN OF ROCKY HILL, PROJECT No. 118-167", SCALE: 1"=40', DATED: 12/30/14.



CONNECTICUT DEPARTMENT OF TRANSPORTATION
CENTRAL WAREHOUSE
660 Brook Street
Rocky Hill, Connecticut

TITLE:

SAMPLE LOCATION PLAN

DRAWN BY:	K. HOLLENBECK	PROJ NO.:	237612-005738-000210
CHECKED BY:	L. BANE	**FIGURE 3**	
APPROVED BY:	L. BANE		
DATE:	01/07/2019		

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21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
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FILE NO.: Figure 2 & 3.dwg

DRAWING NAME: J:\CAD\CTDOT\Rocky Hill Central Warehouse\Site Investigation-237612-005738\000210\ Figure 2 & 3.dwg --- PLOT DATE: January 11, 2019 - 9:39AM --- LAYOUT: Figure 3
Version: 2017-10-21

TABLES

Table 1
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Central Warehouse, Rocky Hill, Connecticut
TRC Project No. 237612.005738.000210
ConnDOT Project No. 170-3476

Boring No. Sample Interval (ftbg): Sample Date: Notes:	**CW-B1(6-8)** 6-8 12/13/2018	**CW-B2(6-8)** 6-8 12/13/2018	**CW-B3(8-10)** 8-10 12/13/2018	**CW-B4(8-10)** 8-10 12/13/2018	**CW-B100(8-10)** 8-10 12/13/2018 Duplicate of CW-B4(8-10)	**CW-B5(4-6)** 4-6 12/13/2018	**CW-B6(4-6)** 4-6 12/13/2018	**SB20181213-L** SB-Low 12/13/2018 Solvent Blank	**SB20181213-H** SB-High 12/13/2018 Solvent Blank	**FB20181213** 12/13/2018 Field Blank	**CT RSRs**	
											RES DEC	GA PMC
Volatile Organic Compounds - mg/kg **Method 8260**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--
Polycyclic Armomatic Hydrocarbons - mg/kg **Method 8270**								NA	NA	ND		
Acenaphthylene	0.95		0.7	1.1	0.9		1.3				1,000	8.4
Anthracene	0.58		0.49	0.92	0.75		0.88				1,000	40
Benz(a)anthracene	**2.8**	0.63	**1.8**	**3.3**	**3.3**	0.43	**3.6**				1	1
Benzo(a)pyrene	**3.2**	0.75	**2.1**	**3.8**	**3.5**	0.52	**4**				1	1
Benzo(b)fluoranthene	**2.8**	0.6	**1.9**	**3.3**	**3.2**	0.51	**3.7**				1	1
Benzo(ghi)perylene	1.6	0.37	1	1.9	1.6	0.52	2				NE	NE
Benzo(k)fluoranthene	2.7	0.58	1.7	2.9	2.9	0.46	3.1				8.4	1
Chrysene	2.8	0.69	1.9	3.3	3.3	0.46	3.7				NE	NE
Dibenz(a,h)anthracene	0.44		0.26	0.5	0.47	0.25	0.55				NE	NE
Fluoranthene	3.7	0.94	3	4.6	4.6	0.64	5.2				1,000	5.6
Fluorene				0.26			0.36				1,000	5.6
Indeno(1,2,3-cd)pyrene	1.8	0.45	1.2	2.2	2	0.51	2.4				NE	NE
Phenanthrene	1.1	0.36	1.2	1.9	1.6		2.2				1,000	4
Pyrene	3.7	0.87	2.8	4.4	4.4	0.64	4.9				1,000	4
Extractable Total Petroleum Hydrocarbons - mg/kg **CT DPH Method**	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	500	500

NOTES:
CT RSRs - State of Connecticut Remediation Standard Regulations (CT RSRs) per RCSA 22a-133k-1 through 22a-133k-3, adopted January 1, 1996 and revised on June 27, 2013.
RES DEC - Residential Direct Exposure Criteria
GA PMC - GA Pollutant Mobility Criteria
ftbg - feet below grade
ND - Not detected above laboratory detection limits (all checked to be in compliance with established RSR criteria)
NA - Not analyzed
mg/kg - milligrams per kilogram
Bold value indicates an exceedance of the RES DEC
Shaded value indicates an exceedance of the GA PMC.

APPENDIX A

SOIL BORING LOGS

BORING NUMBER: **CW-B1**
Page 1 of 1

PROJECT INFORMATION

Project Name:	**Central Warehouse**
Project Location:	**660 Brook St, Rocky Hill, CT**
Project Number:	**237612.005738.000210**
Client:	**Connecticut Department of Transportation**
TRC Eng./Geol:	**Ashley Wright**
Checked By:	**Liam Bane**

BORING INFORMATION

Boring Depth (ft):	**12**	Hole Diameter (in):	
Date Started:	**12/13/18**	Date Completed:	**12/13/18**
Coordinate System:			
North:	**Not Surveyed**	East:	**Not Surveyed**
Vertical Datum:		Ground Elevation:	**Not Surveyed**
Well Elevation (Top of Casing)	**Not Surveyed**		

DRILLING INFORMATION

Drilling Contractor:	**Cisco Geotechnical, LLC**
Driller(s):	**Jim & Pat**
Drilling Method:	**Direct-Push**
Equipment/Model:	**Geoprobe 54DT**
Sampler:	**48-inch Macrocore**

GROUND WATER OBSERVATIONS

MEASUREMENT	▽ At Time of Drilling	▼ At End of Drilling	▼ After Drilling
DATE	**12/13/2018**		
DEPTH (ft.bgs.)	**8**		
REFERENCE			
STABILIZATION	**None**		

DEPTH (FT.)	SAMPLE NUMBER	SAMPLE TYPE	PENETRATION (FT.)	RECOVERY (FT.)	LITHOLOGY	MATERIAL DESCRIPTION	◆ VOC SCREENING RESULTS (ppm) 20 40 60 80
	MAC-0-4		4.0	1.0		0'- 1' Medium Brown F-SAND & SILT, some roots, trace gravel, dry, no odor, no staining (liner stuck in the macrocore, logged the loose material)	
5	MAC-4-8		4.0	2.3		4'- 4.6' Fall-in material 4.6'- 5.3' Medium Brown F-M SAND, trace silt and c-gravel, moist, no odor, no staining 5.3'- 5.4' Black ASPHALT MILLINGS 5.4'- 6.1' Medium Brown F-M SAND, little silt, c-sand and f-c gravel, very moist, no odor, no staining 6.1'- 6.3' Medium Brown F-M SAND, trace c-sand, very moist, no odor, no staining	
						8'- 8.9' Medium Brown F-M SAND, trace silt, c-sand, and gravel, moist to very moist, no odor, no staining 8.9'- 9' Medium Brown F-M SAND & GRAVEL, saturated, no odor, no staining	
10	MAC-8-12		4.0	1.0			
						Bottom of borehole at 12.0 feet.	

Notes: Soil sample CW-B1(6-8) collected from 6-8 ftbg and analyzed for VOCs, PAHs, and CT ETPH.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD US.GDT - 1/11/19
H:\HAZMAT\CONNDOT\PROJECT ASSIGNMENTS\ROCKY HILL_BROOK ST\TASK 210 REPORT\BORING LOGS ROCKY HILL.GPJ

BORING NUMBER: **CW-B2**
Page 1 of 1

PROJECT INFORMATION

Project Name:	**Central Warehouse**
Project Location:	**660 Brook St, Rocky Hill, CT**
Project Number:	**237612.005738.000210**
Client:	**Connecticut Department of Transportation**
TRC Eng./Geol:	**Ashley Wright**
Checked By:	**Liam Bane**

BORING INFORMATION

Boring Depth (ft):	**12**	Hole Diameter (in):	
Date Started:	**12/13/18**	Date Completed:	**12/13/18**
Coordinate System:			
North:	**Not Surveyed**	East:	**Not Surveyed**
Vertical Datum:		Ground Elevation:	**Not Surveyed**
Well Elevation (Top of Casing)	**Not Surveyed**		

DRILLING INFORMATION

Drilling Contractor:	**Cisco Geotechnical, LLC**
Driller(s):	**Jim & Pat**
Drilling Method:	**Direct-Push**
Equipment/Model:	**Geoprobe 54DT**
Sampler:	**48-inch Macrocore**

GROUND WATER OBSERVATIONS

MEASUREMENT	▽ At Time of Drilling	▼ At End of Drilling	▼ After Drilling
DATE	**12/13/2018**		
DEPTH (ft.bgs.)	**8**		
REFERENCE			
STABILIZATION	**None**		

DEPTH (FT.)	SAMPLE NUMBER	SAMPLE TYPE	PENETRATION (FT.)	RECOVERY (FT.)	LITHOLOGY	MATERIAL DESCRIPTION	◆ VOC SCREENING RESULTS (ppm) 20 40 60 80
	MAC-0-4		4.0	2.2		0'- 0.8' Medium Brown TOPSOIL, f-m sand and silt, trace gravel, slightly moist, no odor, no staining 0.8'- 2.2' Medium Brown F-M Sand, little c-sand and silt, trace f-gravel, slightly moist, no odor, no staining	◆
5	MAC-4-8		4.0	2.8		4'- 4.6' Fall-in material 4.6'- 4.7' Black ASPHALT MILLINGS 4.7'- 5.6' Medium Brown F-M SAND, little silt, trace f-c gravel, moist, no odor, no staining 5.6'- 6.8' Orangish Medium Brown F-M SAND, trace c-sand and f-gravel, moist to very moist, no odor, no staining	◆
10	MAC-8-12		4.0	3.0		8'- 8.2' Fall-in material 8.2'- 8.5' Orangish Medium Brown F-M SAND, trace c-sand and f-gravel, moist to very moist, no odor, no staining 8.5'- 8.9' Medium Brown F-M SAND, some silt, trace c-gravel, very moist, no odor, no staining 8.9'- 9.6' Black ASPHALT MILLINGS, some medium brown f-m sand, little c-gravel, no odor, no staining 9.6'- 9.9' Medium Brown F-M SAND & GRAVEL, saturated, no odor, no staining 9.9'- 11' Reddish Brown F-M SAND, trace f-gravel, saturated, no odor, no staining	◆
						Bottom of borehole at 12.0 feet.	

Notes: Soil sample CW-B2(6-8) collected from 6-8 ftbg and analyzed for VOCs, PAHs, and CT ETPH.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD US.GDT - 1/11/19
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BORING NUMBER: **CW-B3**
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PROJECT INFORMATION

Project Name:	**Central Warehouse**
Project Location:	**660 Brook St, Rocky Hill, CT**
Project Number:	**237612.005738.000210**
Client:	**Connecticut Department of Transportation**
TRC Eng./Geol:	**Ashley Wright**
Checked By:	**Liam Bane**

BORING INFORMATION

Boring Depth (ft):	**12**	Hole Diameter (in):	
Date Started:	**12/13/18**	Date Completed:	**12/13/18**
Coordinate System:			
North:	**Not Surveyed**	East:	**Not Surveyed**
Vertical Datum:		Ground Elevation:	**Not Surveyed**
Well Elevation (Top of Casing)	**Not Surveyed**		

DRILLING INFORMATION

Drilling Contractor:	**Cisco Geotechnical, LLC**
Driller(s):	**Jim & Pat**
Drilling Method:	**Direct-Push**
Equipment/Model:	**Geoprobe 54DT**
Sampler:	**48-inch Macrocore**

GROUND WATER OBSERVATIONS

MEASUREMENT	▽ At Time of Drilling	▼ At End of Drilling	▼ After Drilling
DATE	**12/13/2018**		
DEPTH (ft.bgs.)	**10**		
REFERENCE			
STABILIZATION	**None**		

DEPTH (FT.)	SAMPLE NUMBER	SAMPLE TYPE	PENETRATION (FT.)	RECOVERY (FT.)	LITHOLOGY	MATERIAL DESCRIPTION	◆ VOC SCREENING RESULTS (ppm) 20 40 60 80
	MAC-0-4		4.0	2.8		0'- 0.5' Medium Brown TOPSOIL (f-sand & silt, some root material, frozen, no odor, no staining) 0.5'- 1.9' Medium Brown F-SAND & SILT, little c-sand and f-gravel, loose, slightly moist, no odor, no staining 1.9'- 2.8' Medium Brown F-M SAND, little c-sand, trace f-c gravel, no odor, no staining	◆
5	MAC-4-8		4.0	2.5		4'- 5.1' Medium Brown F-M SAND, little f-gravel, trace silt, c-sand, and c-gravel, moist, no odor, no staining 5.1'- 5.2' PULVERIZED ROCK 5.2'- 6.5' Medium Brown F-M SAND, little f-gravel, trace silt, c-sand, and f-gravel, moist, no odor, no staining	◆
10	MAC-8-12		4.0	2.0		8'- 9.6' Medium Brown F-M SAND, trace c-sand and f-gravel, moist, no odor, no staining 9.6'- 10' Gray PEA-STONE, saturated, no odor, no staining ▽	◆
						Bottom of borehole at 12.0 feet.	

Notes: Soil sample CW-B3(8-10) collected from 8-10 ftbg and analyzed for VOCs, PAHs, and CT ETPH.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD US.GDT - 1/11/19
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BORING NUMBER: **CW-B4**
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PROJECT INFORMATION

Project Name:	**Central Warehouse**
Project Location:	**660 Brook St, Rocky Hill, CT**
Project Number:	**237612.005738.000210**
Client:	**Connecticut Department of Transportation**
TRC Eng./Geol:	**Ashley Wright**
Checked By:	**Liam Bane**

BORING INFORMATION

Boring Depth (ft):	**12**	Hole Diameter (in):	
Date Started:	**12/13/18**	Date Completed:	**12/13/18**
Coordinate System:			
North:	**Not Surveyed**	East:	**Not Surveyed**
Vertical Datum:		Ground Elevation:	**Not Surveyed**
Well Elevation (Top of Casing)	**Not Surveyed**		

DRILLING INFORMATION

Drilling Contractor:	**Cisco Geotechnical, LLC**
Driller(s):	**Jim & Pat**
Drilling Method:	**Direct-Push**
Equipment/Model:	**Geoprobe 54DT**
Sampler:	**48-inch Macrocore**

GROUND WATER OBSERVATIONS

MEASUREMENT	▽ At Time of Drilling	▼ At End of Drilling	▼ After Drilling
DATE	**12/13/2018**		
DEPTH (ft.bgs.)	**10**		
REFERENCE			
STABILIZATION	**None**		

DEPTH (FT.)	SAMPLE NUMBER	SAMPLE TYPE	PENETRATION (FT.)	RECOVERY (FT.)	LITHOLOGY	MATERIAL DESCRIPTION	◆ VOC SCREENING RESULTS (ppm) 20 40 60 80
	MAC-0-4		4.0	2.4		0'- 0.4' Medium Brown TOPSOIL (f-m sand, some root material, frozen, no odor, no staining) 0.4'- 1.7' Medium Brown F-SAND & SILT, some root material, little m-c sand, trace f-gravel, slightly moist, no odor, no staining 1.7'- 2.3' Medium Brown F-M SAND, trace silt, c-sand, and f-gravel, slightly moist, no odor, no staining 2.3'- 2.4' Medium Brown F-M SAND & GRAVEL, little silt, moist, no odor, no staining	◆
5	MAC-4-8		4.0	2.9		4'- 4.3' Fall-in material 4.3'- 4.6' Medium Brown F-SAND, some silt, little c-sand and f-gracel, trace asphalt millings, slightly moist, no odor, no staining 4.6'- 6.8' Medium Brown F-M SAND, little c-sand and f-gravel, trace silt and c-gravel, slightly moist, no odor, no staining 6.8'- 6.9' Black ASPHALT MILLINGS	◆
10	MAC-8-12		4.0	2.1		8'- 8.2' Fall-in material 8.2'- 9.5' Medium Brown F-M SAND, little silt, c-sand, and f-c gravel, moist, no odor, no staining 9.5'- 9.7' Medium Brown SILT & GRAVEL, saturated, no odor, no staining 9.7'- 10.1' Medium Brown M-SAND, little f-sand, asphalt millings at 9.9 ftbg, saturated, no odor, no staining	▽ ◆
						Bottom of borehole at 12.0 feet.	

Notes: Soil sample CW-B4(8-10)(and duplicate sample CW-B100(8-10)) collected from 8-10 ftbg and analyzed for VOCs, PAHs, and CT ETPH.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD US.GDT - 1/11/19
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BORING NUMBER: **CW-B5**
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PROJECT INFORMATION

Project Name:	**Central Warehouse**
Project Location:	**660 Brook St, Rocky Hill, CT**
Project Number:	**237612.005738.000210**
Client:	**Connecticut Department of Transportation**
TRC Eng./Geol:	**Ashley Wright**
Checked By:	**Liam Bane**

BORING INFORMATION

Boring Depth (ft):	**8**	Hole Diameter (in):	
Date Started:	**12/13/18**	Date Completed:	**12/13/18**
Coordinate System:			
North:	**Not Surveyed**	East:	**Not Surveyed**
Vertical Datum:		Ground Elevation:	**Not Surveyed**
Well Elevation (Top of Casing)	**Not Surveyed**		

DRILLING INFORMATION

Drilling Contractor:	**Cisco Geotechnical, LLC**
Driller(s):	**Jim & Pat**
Drilling Method:	**Direct-Push**
Equipment/Model:	**Geoprobe 54DT**
Sampler:	**48-inch Macrocore**

GROUND WATER OBSERVATIONS

MEASUREMENT	▽ At Time of Drilling	▼ At End of Drilling	▼ After Drilling
DATE	**12/13/2018**		
DEPTH (ft.bgs.)	**6**		
REFERENCE			
STABILIZATION	**None**		

DEPTH (FT.)	SAMPLE NUMBER	SAMPLE TYPE	PENETRATION (FT.)	RECOVERY (FT.)	LITHOLOGY	MATERIAL DESCRIPTION	◆ VOC SCREENING RESULTS (ppm) 20 40 60 80
	MAC-0-4		4.0	2.1		0'- 0.7' Medium Brown TOPSOIL (f-m sand, some root material, frozen, no odor, no staining)	
						0.7'- 1.4' Medium Brown F-M SAND, trace silt and f-c gravel, dry, no odor, no staining	
						1.4'- 1.6' Black ASPHALT MILLINGS	
						1.6'- 1.8' Medium Brown F-M SAND, some silt, slightly moist, no odor, no staining	◆
						1.8'- 2.1' Medium Brown F-M SAND, trace silt and c-sand, moist, no odor, no staining	
						4'- 4.3' Fall-in material	
5						4.3'- 6' Medium Brown F-M SAND, little c-sand and f-c gravel, trace silt, moist to very moist, no odor, no staining	◆
	MAC-4-8		4.0	2.2		6'- 6.2' Gray C-GRAVEL, saturated, no odor, no staining	▽
						Bottom of borehole at 8.0 feet.	
10							

Notes: Soil sample CW-B5(4-6) collected from 4-6 ftbg and analyzed for VOCs, PAHs, and CT ETPH.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD US.GDT - 1/11/19
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BORING NUMBER: **CW-B6**
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Results you can rely on

PROJECT INFORMATION		BORING INFORMATION	
Project Name:	**Central Warehouse**	Boring Depth (ft):	**8**
Project Location:	**660 Brook St, Rocky Hill, CT**	Hole Diameter (in):	
Project Number:	**237612.005738.000210**	Date Started:	**12/13/18**
Client:	**Connecticut Department of Transportation**	Date Completed:	**12/13/18**
TRC Eng./Geol:	**Ashley Wright**	Coordinate System:	
Checked By:	**Liam Bane**	North:	**Not Surveyed**
		East:	**Not Surveyed**
		Vertical Datum:	
		Ground Elevation:	**Not Surveyed**
		Well Elevation (Top of Casing)	**Not Surveyed**

DRILLING INFORMATION	
Drilling Contractor:	**Cisco Geotechnical, LLC**
Driller(s):	**Jim & Pat**
Drilling Method:	**Direct-Push**
Equipment/Model:	**Geoprobe 54DT**
Sampler:	**48-inch Macrocore**

GROUND WATER OBSERVATIONS			
MEASUREMENT	▽ At Time of Drilling	▼ At End of Drilling	▼ After Drilling
DATE	**12/13/2018**		
DEPTH (ft.bgs.)	**6**		
REFERENCE			
STABILIZATION	**None**		

DEPTH (FT.)	SAMPLE NUMBER	SAMPLE TYPE	PENETRATION (FT.)	RECOVERY (FT.)	LITHOLOGY	MATERIAL DESCRIPTION	◆ VOC SCREENING RESULTS (ppm) 20 40 60 80
	MAC-0-4		4.0	2.1		0'- 0.4' Medium Brown TOPSOIL (f-m sand, some root material, frozen, no odor, no staining)	
						0.4'- 0.9' Medium Brown F-SAND & SILT, some root material, little f-c gravel, slightly moist, no odor, no staining	
						0.9'- 1.3' Gray PEA-STONE, slightly moist, no odor, no staining	
						1.3'- 2.1' Medium Brown F-M SAND, little c-sand, trace silt and f-c gravel, band of asphalt millings at 1.9 ftbg, slightly moist, no odor, no staining	◆
						4'- 4.8' Gray PEA-STONE, slightly moist, no odor, no staining	
5							
	MAC-4-8		4.0	3.0		4.8'- 5.2' Medium Brown F-M SAND, little c-sand and f-gravel, trace silt, slightly moist, no odor, no staining	
						5.2'- 6.6' Medium Brown F-M SAND, some silt, little f-c gravel, moist to very moist at 6.2 ftbg, no odor, no staining	▽ ◆
						6.6'- 7' Medium Brown F-M SAND, trace c-sand and f-gravel, saturated, no odor, no staining	
						Bottom of borehole at 8.0 feet.	
10							

Notes: Soil sample CW-B6(4-6) collected from 4-6 ftbg and analyzed for VOCs, PAHs, and CT ETPH.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD US.GDT - 1/11/19
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APPENDIX B

LABORATORY ANALYTICAL REPORTS

PHOENIX
Environmental Laboratories, Inc.

Wednesday, December 19, 2018

Attn: Liam Bane
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Project ID: CONNDOT- CENTRAL WAREHOUSE
Sample ID#s: CC14011 - CC14020

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

NY # 11301

SDG Comments

December 19, 2018

SDG I.D.: GCC14011

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

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

Analysis Report

December 19, 2018

FOR: Attn: Liam Bane
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AW	12/13/18	8:15
Location Code:	TRC-DOT	Received by:	CP	12/13/18	16:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC14011
Phoenix ID: CC14011

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: SB20181213-H

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.05	mg/Kg	50	12/14/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.05	mg/Kg	50	12/14/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.1	mg/Kg	50	12/14/18	JLI	SW8260C
1,1-Dichloroethane	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
1,1-Dichloroethene	ND	0.14	mg/Kg	50	12/14/18	JLI	SW8260C
1,1-Dichloropropene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.05	mg/Kg	50	12/14/18	JLI	SW8260C
1,2-Dibromoethane	ND	0.025	mg/Kg	50	12/14/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
1,2-Dichloroethane	ND	0.025	mg/Kg	50	12/14/18	JLI	SW8260C
1,2-Dichloropropane	ND	0.1	mg/Kg	50	12/14/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
1,3-Dichloropropane	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
2,2-Dichloropropane	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
2-Chlorotoluene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
2-Hexanone	ND	0.7	mg/Kg	50	12/14/18	JLI	SW8260C
2-Isopropyltoluene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
4-Chlorotoluene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	1.3	mg/Kg	50	12/14/18	JLI	SW8260C

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: SB20181213-H

Phoenix I.D.: CC14011

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5	mg/Kg	50	12/14/18	JLI	SW8260C
Acrylonitrile	ND	0.025	mg/Kg	50	12/14/18	JLI	SW8260C
Benzene	ND	0.025	mg/Kg	50	12/14/18	JLI	SW8260C
Bromobenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Bromochloromethane	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Bromodichloromethane	ND	0.05	mg/Kg	50	12/14/18	JLI	SW8260C
Bromoform	ND	0.08	mg/Kg	50	12/14/18	JLI	SW8260C
Bromomethane	ND	0.1	mg/Kg	50	12/14/18	JLI	SW8260C
Carbon Disulfide	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Carbon tetrachloride	ND	0.1	mg/Kg	50	12/14/18	JLI	SW8260C
Chlorobenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Chloroethane	ND	0.15	mg/Kg	50	12/14/18	JLI	SW8260C
Chloroform	ND	0.12	mg/Kg	50	12/14/18	JLI	SW8260C
Chloromethane	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.025	mg/Kg	50	12/14/18	JLI	SW8260C
Dibromochloromethane	ND	0.05	mg/Kg	50	12/14/18	JLI	SW8260C
Dibromomethane	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Dichlorodifluoromethane	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Ethylbenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	12/14/18	JLI	SW8260C
Isopropylbenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
m&p-Xylene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	3	mg/Kg	50	12/14/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Methylene chloride	ND	0.1	mg/Kg	50	12/14/18	JLI	SW8260C
Naphthalene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
n-Butylbenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
n-Propylbenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
o-Xylene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
p-Isopropyltoluene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
sec-Butylbenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Styrene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
tert-Butylbenzene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Tetrachloroethene	ND	0.1	mg/Kg	50	12/14/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.13	mg/Kg	50	12/14/18	JLI	SW8260C
Toluene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Total Xylenes	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.025	mg/Kg	50	12/14/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.5	mg/Kg	50	12/14/18	JLI	SW8260C
Trichloroethene	ND	0.1	mg/Kg	50	12/14/18	JLI	SW8260C
Trichlorofluoromethane	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.25	mg/Kg	50	12/14/18	JLI	SW8260C
Vinyl chloride	ND	0.04	mg/Kg	50	12/14/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	50	12/14/18	JLI	70 - 130 %
% Bromofluorobenzene	98		%	50	12/14/18	JLI	70 - 130 %
% Dibromofluoromethane	101		%	50	12/14/18	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99		%	50	12/14/18	JLI	70 - 130 %
Field Extraction	Completed				12/13/18		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:

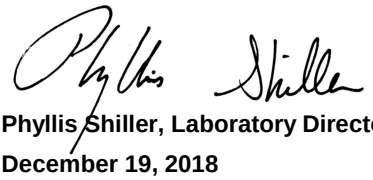
TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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
December 19, 2018
Reviewed and Released by: Maryam Taylor, 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

December 19, 2018

FOR: Attn: Liam Bane
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AW	12/13/18	8:15
Location Code:	TRC-DOT	Received by:	CP	12/13/18	16:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC14011
Phoenix ID: CC14012

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: SB20181213-L

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.003	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloropropene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromoethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloroethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloropropane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,3-Dichloropropane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
2,2-Dichloropropane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
2-Chlorotoluene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
2-Hexanone	ND	0.025	mg/Kg	1	12/14/18	JLI	SW8260C
2-Isopropyltoluene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
4-Chlorotoluene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.025	mg/Kg	1	12/14/18	JLI	SW8260C

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: SB20181213-L

Phoenix I.D.: CC14012

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	0.25	mg/Kg	1	12/14/18	JLI	SW8260C
Acrylonitrile	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Benzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Bromobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Bromochloromethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Bromodichloromethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Bromoform	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Bromomethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon Disulfide	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon tetrachloride	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Chlorobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroform	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Chloromethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromochloromethane	ND	0.003	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromomethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Dichlorodifluoromethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Ethylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Hexachlorobutadiene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Isopropylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
m&p-Xylene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.03	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Methylene chloride	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Naphthalene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
n-Butylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
n-Propylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
o-Xylene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
p-Isopropyltoluene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
sec-Butylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Styrene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
tert-Butylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrachloroethene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Toluene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Total Xylenes	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Trichloroethene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorofluoromethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Vinyl chloride	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	12/14/18	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	12/14/18	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	12/14/18	JLI	70 - 130 %

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: SB20181213-L

Phoenix I.D.: CC14012

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99		%	1	12/14/18	JLI	70 - 130 %
Field Extraction	Completed				12/13/18		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.

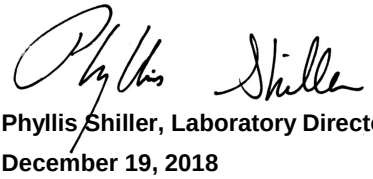
Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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
December 19, 2018
Reviewed and Released by: Maryam Taylor, 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

December 19, 2018

FOR: Attn: Liam Bane
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	AW	12/13/18	8:25
Location Code:	TRC-DOT	Received by:	CP	12/13/18	16:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC14011
Phoenix ID: CC14013

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: FB20181213

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				12/13/18	P/R	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				12/14/18	P/D	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	12/15/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	12/15/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	67		%	1	12/15/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	12/13/18	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	12/13/18	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: FB20181213

Phoenix I.D.: CC14013

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	12/13/18	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	12/13/18	MH	SW8260C
Acetone	ND	25	ug/L	1	12/13/18	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Benzene	ND	0.70	ug/L	1	12/13/18	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	12/13/18	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	12/13/18	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	12/13/18	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	12/13/18	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	12/13/18	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	12/13/18	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Styrene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	12/13/18	MH	SW8260C
Toluene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	12/13/18	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	12/13/18	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	12/13/18	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	12/13/18	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	12/13/18	MH	70 - 130 %
% Dibromofluoromethane	104		%	1	12/13/18	MH	70 - 130 %
% Toluene-d8	89		%	1	12/13/18	MH	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.47	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.06	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.08	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Phenanthrene	ND	0.07	ug/L	1	12/16/18	KCA	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	12/16/18	KCA	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	51		%	1	12/16/18	KCA	30 - 130 %
% Nitrobenzene-d5	58		%	1	12/16/18	KCA	30 - 130 %
% Terphenyl-d14	74		%	1	12/16/18	KCA	30 - 130 %

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:

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

Phyllis Shiller, Laboratory Director
December 19, 2018
Reviewed and Released by: Maryam Taylor, Project Manager

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

Analysis Report

December 19, 2018

FOR: Attn: Liam Bane
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	AW	12/13/18	9:15
Location Code:	TRC-DOT	Received by:	CP	12/13/18	16:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC14011
Phoenix ID: CC14014

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B2 (6-8)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		12/13/18	AK	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/14/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/13/18	JJ/UCK	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	12/14/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	12/14/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	99		%	1	12/14/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0028	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloropropene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromoethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloroethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloropropane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B2 (6-8)

Phoenix I.D.: CC14014

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,3-Dichloropropane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
2,2-Dichloropropane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
2-Chlorotoluene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
2-Hexanone	ND	0.024	mg/Kg	1	12/14/18	JLI	SW8260C
2-Isopropyltoluene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
4-Chlorotoluene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.024	mg/Kg	1	12/14/18	JLI	SW8260C
Acetone	ND	0.24	mg/Kg	1	12/14/18	JLI	SW8260C
Acrylonitrile	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Benzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Bromobenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Bromochloromethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Bromodichloromethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Bromoform	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Bromomethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon Disulfide	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon tetrachloride	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Chlorobenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroform	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Chloromethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromochloromethane	ND	0.0028	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromomethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Ethylbenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Hexachlorobutadiene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Isopropylbenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
m&p-Xylene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.028	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0095	mg/Kg	1	12/14/18	JLI	SW8260C
Methylene chloride	ND	0.0095	mg/Kg	1	12/14/18	JLI	SW8260C
Naphthalene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
n-Butylbenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
n-Propylbenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
o-Xylene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
p-Isopropyltoluene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
sec-Butylbenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Styrene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
tert-Butylbenzene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrachloroethene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0095	mg/Kg	1	12/14/18	JLI	SW8260C
Toluene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Total Xylenes	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	0.0095	mg/Kg	1	12/14/18	JLI	SW8260C
Trichloroethene	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorofluoromethane	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0095	mg/Kg	1	12/14/18	JLI	SW8260C
Vinyl chloride	ND	0.0047	mg/Kg	1	12/14/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	12/14/18	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	12/14/18	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	12/14/18	JLI	70 - 130 %
% Toluene-d8	97		%	1	12/14/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Acenaphthylene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Anthracene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benz(a)anthracene	0.63	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(a)pyrene	0.75	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(b)fluoranthene	0.6	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(ghi)perylene	0.37	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(k)fluoranthene	0.58	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Chrysene	0.69	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Fluoranthene	0.94	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Fluorene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	0.45	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Phenanthrene	0.36	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Pyrene	0.87	0.25	mg/Kg	1	12/16/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	12/16/18	AW	30 - 130 %
% Nitrobenzene-d5	65		%	1	12/16/18	AW	30 - 130 %
% Terphenyl-d14	50		%	1	12/16/18	AW	30 - 130 %
Field Extraction	Completed				12/13/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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
December 19, 2018
Reviewed and Released by: Maryam Taylor, 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

December 19, 2018

FOR: Attn: Liam Bane
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	AW	12/13/18	9:50
Location Code:	TRC-DOT	Received by:	CP	12/13/18	16:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC14011
Phoenix ID: CC14015

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B1 (6-8)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		12/13/18	AK	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/14/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/13/18	JJ/UCK	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	270	mg/Kg	5	12/14/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	12/14/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	106		%	5	12/14/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0027	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloropropene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromoethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloroethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloropropane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B1 (6-8)

Phoenix I.D.: CC14015

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,3-Dichloropropane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
2,2-Dichloropropane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
2-Chlorotoluene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
2-Hexanone	ND	0.023	mg/Kg	1	12/14/18	JLI	SW8260C
2-Isopropyltoluene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
4-Chlorotoluene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.023	mg/Kg	1	12/14/18	JLI	SW8260C
Acetone	ND	0.23	mg/Kg	1	12/14/18	JLI	SW8260C
Acrylonitrile	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Benzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Bromobenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Bromochloromethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Bromodichloromethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Bromoform	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Bromomethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon Disulfide	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon tetrachloride	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Chlorobenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroform	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Chloromethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromochloromethane	ND	0.0027	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromomethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Ethylbenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Hexachlorobutadiene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Isopropylbenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
m&p-Xylene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.027	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.009	mg/Kg	1	12/14/18	JLI	SW8260C
Methylene chloride	ND	0.009	mg/Kg	1	12/14/18	JLI	SW8260C
Naphthalene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
n-Butylbenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
n-Propylbenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
o-Xylene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
p-Isopropyltoluene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
sec-Butylbenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Styrene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
tert-Butylbenzene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrachloroethene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.009	mg/Kg	1	12/14/18	JLI	SW8260C
Toluene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Total Xylenes	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B1 (6-8)

Phoenix I.D.: CC14015

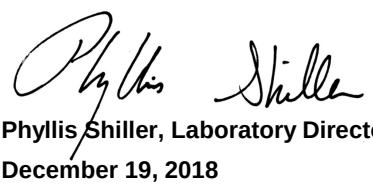
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	0.009	mg/Kg	1	12/14/18	JLI	SW8260C
Trichloroethene	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorofluoromethane	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.009	mg/Kg	1	12/14/18	JLI	SW8260C
Vinyl chloride	ND	0.0045	mg/Kg	1	12/14/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	12/14/18	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	12/14/18	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	12/14/18	JLI	70 - 130 %
% Toluene-d8	97		%	1	12/14/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Acenaphthylene	0.95	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Anthracene	0.58	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benz(a)anthracene	2.8	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(a)pyrene	3.2	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(b)fluoranthene	2.8	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(ghi)perylene	1.6	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(k)fluoranthene	2.7	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Chrysene	2.8	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Dibenz(a,h)anthracene	0.44	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Fluoranthene	3.7	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Fluorene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	1.8	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Phenanthrene	1.1	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Pyrene	3.7	0.25	mg/Kg	1	12/16/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	57		%	1	12/16/18	AW	30 - 130 %
% Nitrobenzene-d5	58		%	1	12/16/18	AW	30 - 130 %
% Terphenyl-d14	41		%	1	12/16/18	AW	30 - 130 %
Field Extraction	Completed				12/13/18		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.



Phyllis Shiller, Laboratory Director
December 19, 2018
Reviewed and Released by: Maryam Taylor, Project Manager

Ver 1

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

Analysis Report

December 19, 2018

FOR: Attn: Liam Bane
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	AW	12/13/18	10:25
Location Code:	TRC-DOT	Received by:	CP	12/13/18	16:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC14011
Phoenix ID: CC14016

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B3 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		12/13/18	AK	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/14/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/13/18	JJ/UCK	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	260	mg/Kg	5	12/14/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	12/14/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	103		%	5	12/14/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0034	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloropropene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromoethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloroethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloropropane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B3 (8-10)

Phoenix I.D.: CC14016

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,3-Dichloropropane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
2,2-Dichloropropane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
2-Chlorotoluene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
2-Hexanone	ND	0.028	mg/Kg	1	12/14/18	JLI	SW8260C
2-Isopropyltoluene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
4-Chlorotoluene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.028	mg/Kg	1	12/14/18	JLI	SW8260C
Acetone	ND	0.28	mg/Kg	1	12/14/18	JLI	SW8260C
Acrylonitrile	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Benzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Bromobenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Bromochloromethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Bromodichloromethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Bromoform	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Bromomethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon Disulfide	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon tetrachloride	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Chlorobenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroform	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Chloromethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromochloromethane	ND	0.0034	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromomethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Ethylbenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Hexachlorobutadiene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Isopropylbenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
m&p-Xylene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.034	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.011	mg/Kg	1	12/14/18	JLI	SW8260C
Methylene chloride	ND	0.011	mg/Kg	1	12/14/18	JLI	SW8260C
Naphthalene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
n-Butylbenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
n-Propylbenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
o-Xylene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
p-Isopropyltoluene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
sec-Butylbenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Styrene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
tert-Butylbenzene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrachloroethene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.011	mg/Kg	1	12/14/18	JLI	SW8260C
Toluene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Total Xylenes	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	0.011	mg/Kg	1	12/14/18	JLI	SW8260C
Trichloroethene	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorofluoromethane	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.011	mg/Kg	1	12/14/18	JLI	SW8260C
Vinyl chloride	ND	0.0056	mg/Kg	1	12/14/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	12/14/18	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	12/14/18	JLI	70 - 130 %
% Dibromofluoromethane	107		%	1	12/14/18	JLI	70 - 130 %
% Toluene-d8	99		%	1	12/14/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Acenaphthylene	0.7	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Anthracene	0.49	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benz(a)anthracene	1.8	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(a)pyrene	2.1	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(b)fluoranthene	1.9	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(ghi)perylene	1	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(k)fluoranthene	1.7	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Chrysene	1.9	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Dibenz(a,h)anthracene	0.26	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Fluoranthene	3	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Fluorene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	1.2	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Phenanthrene	1.2	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Pyrene	2.8	0.25	mg/Kg	1	12/16/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	63		%	1	12/16/18	AW	30 - 130 %
% Nitrobenzene-d5	59		%	1	12/16/18	AW	30 - 130 %
% Terphenyl-d14	49		%	1	12/16/18	AW	30 - 130 %
Field Extraction	Completed				12/13/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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
December 19, 2018
Reviewed and Released by: Maryam Taylor, Project Manager

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 19, 2018

FOR: Attn: Liam Bane
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	AW	12/13/18	11:15
Location Code:	TRC-DOT	Received by:	CP	12/13/18	16:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC14011
Phoenix ID: CC14017

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B4 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		12/13/18	AK	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/14/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/13/18	JJ/U	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	270	mg/Kg	5	12/14/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	12/14/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	5	12/14/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0031	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloropropene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromoethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloroethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloropropane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B4 (8-10)

Phoenix I.D.: CC14017

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,3-Dichloropropane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
2,2-Dichloropropane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
2-Chlorotoluene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
2-Hexanone	ND	0.026	mg/Kg	1	12/14/18	JLI	SW8260C
2-Isopropyltoluene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
4-Chlorotoluene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.026	mg/Kg	1	12/14/18	JLI	SW8260C
Acetone	ND	0.26	mg/Kg	1	12/14/18	JLI	SW8260C
Acrylonitrile	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Benzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Bromobenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Bromochloromethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Bromodichloromethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Bromoform	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Bromomethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon Disulfide	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon tetrachloride	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Chlorobenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroform	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Chloromethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromochloromethane	ND	0.0031	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromomethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Ethylbenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Hexachlorobutadiene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Isopropylbenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
m&p-Xylene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.031	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Methylene chloride	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Naphthalene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
n-Butylbenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
n-Propylbenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
o-Xylene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
p-Isopropyltoluene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
sec-Butylbenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Styrene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
tert-Butylbenzene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrachloroethene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Toluene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Total Xylenes	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Trichloroethene	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorofluoromethane	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Vinyl chloride	ND	0.0052	mg/Kg	1	12/14/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	12/14/18	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	12/14/18	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	12/14/18	JLI	70 - 130 %
% Toluene-d8	98		%	1	12/14/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Acenaphthylene	1.1	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Anthracene	0.92	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benz(a)anthracene	3.3	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(a)pyrene	3.8	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(b)fluoranthene	3.3	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(ghi)perylene	1.9	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(k)fluoranthene	2.9	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Chrysene	3.3	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Dibenz(a,h)anthracene	0.5	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Fluoranthene	4.6	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Fluorene	0.26	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	2.2	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Phenanthrene	1.9	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Pyrene	4.4	0.25	mg/Kg	1	12/16/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	12/16/18	AW	30 - 130 %
% Nitrobenzene-d5	59		%	1	12/16/18	AW	30 - 130 %
% Terphenyl-d14	44		%	1	12/16/18	AW	30 - 130 %
Field Extraction	Completed				12/13/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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
December 19, 2018
Reviewed and Released by: Maryam Taylor, 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

December 19, 2018

FOR: Attn: Liam Bane
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	AW	12/13/18	11:20
Location Code:	TRC-DOT	Received by:	CP	12/13/18	16:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC14011
Phoenix ID: CC14018

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B100 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		12/13/18	AK	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/14/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/13/18	JJ/U	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	270	mg/Kg	5	12/14/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	12/14/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	5	12/14/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0029	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloropropene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromoethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloroethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloropropane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B100 (8-10)

Phoenix I.D.: CC14018

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,3-Dichloropropane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
2,2-Dichloropropane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
2-Chlorotoluene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
2-Hexanone	ND	0.024	mg/Kg	1	12/14/18	JLI	SW8260C
2-Isopropyltoluene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
4-Chlorotoluene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.024	mg/Kg	1	12/14/18	JLI	SW8260C
Acetone	ND	0.24	mg/Kg	1	12/14/18	JLI	SW8260C
Acrylonitrile	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Benzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Bromobenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Bromochloromethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Bromodichloromethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Bromoform	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Bromomethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon Disulfide	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon tetrachloride	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Chlorobenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroform	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Chloromethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromochloromethane	ND	0.0029	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromomethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Ethylbenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Hexachlorobutadiene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Isopropylbenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
m&p-Xylene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.029	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0097	mg/Kg	1	12/14/18	JLI	SW8260C
Methylene chloride	ND	0.0097	mg/Kg	1	12/14/18	JLI	SW8260C
Naphthalene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
n-Butylbenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
n-Propylbenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
o-Xylene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
p-Isopropyltoluene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
sec-Butylbenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Styrene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
tert-Butylbenzene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrachloroethene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0097	mg/Kg	1	12/14/18	JLI	SW8260C
Toluene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Total Xylenes	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	0.0097	mg/Kg	1	12/14/18	JLI	SW8260C
Trichloroethene	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorofluoromethane	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0097	mg/Kg	1	12/14/18	JLI	SW8260C
Vinyl chloride	ND	0.0048	mg/Kg	1	12/14/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	12/14/18	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	12/14/18	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	12/14/18	JLI	70 - 130 %
% Toluene-d8	97		%	1	12/14/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Acenaphthylene	0.9	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Anthracene	0.75	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benz(a)anthracene	3.3	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(a)pyrene	3.5	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(b)fluoranthene	3.2	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(ghi)perylene	1.6	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(k)fluoranthene	2.9	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Chrysene	3.3	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Dibenz(a,h)anthracene	0.47	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Fluoranthene	4.6	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Fluorene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	2	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Phenanthrene	1.6	0.25	mg/Kg	1	12/16/18	AW	SW8270D
Pyrene	4.4	0.25	mg/Kg	1	12/16/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	53		%	1	12/16/18	AW	30 - 130 %
% Nitrobenzene-d5	54		%	1	12/16/18	AW	30 - 130 %
% Terphenyl-d14	39		%	1	12/16/18	AW	30 - 130 %
Field Extraction	Completed				12/13/18		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.

Phyllis Shiller, Laboratory Director
December 19, 2018
Reviewed and Released by: Maryam Taylor, Project Manager

Ver 1

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

Analysis Report

December 19, 2018

FOR: Attn: Liam Bane
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	AW	12/13/18	11:45
Location Code:	TRC-DOT	Received by:	CP	12/13/18	16:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC14011
Phoenix ID: CC14019

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B6 (4-6)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		12/13/18	AK	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/14/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/13/18	JJ/U	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	270	mg/Kg	5	12/14/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	12/14/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	66		%	5	12/14/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0032	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloropropene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromoethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloroethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloropropane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B6 (4-6)

Phoenix I.D.: CC14019

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,3-Dichloropropane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
2,2-Dichloropropane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
2-Chlorotoluene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
2-Hexanone	ND	0.026	mg/Kg	1	12/14/18	JLI	SW8260C
2-Isopropyltoluene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
4-Chlorotoluene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.026	mg/Kg	1	12/14/18	JLI	SW8260C
Acetone	ND	0.26	mg/Kg	1	12/14/18	JLI	SW8260C
Acrylonitrile	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Benzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Bromobenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Bromochloromethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Bromodichloromethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Bromoform	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Bromomethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon Disulfide	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon tetrachloride	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Chlorobenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroform	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Chloromethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromochloromethane	ND	0.0032	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromomethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Ethylbenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Hexachlorobutadiene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Isopropylbenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
m&p-Xylene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.032	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.011	mg/Kg	1	12/14/18	JLI	SW8260C
Methylene chloride	ND	0.011	mg/Kg	1	12/14/18	JLI	SW8260C
Naphthalene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
n-Butylbenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
n-Propylbenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
o-Xylene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
p-Isopropyltoluene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
sec-Butylbenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Styrene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
tert-Butylbenzene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrachloroethene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.011	mg/Kg	1	12/14/18	JLI	SW8260C
Toluene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Total Xylenes	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	0.011	mg/Kg	1	12/14/18	JLI	SW8260C
Trichloroethene	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorofluoromethane	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.011	mg/Kg	1	12/14/18	JLI	SW8260C
Vinyl chloride	ND	0.0053	mg/Kg	1	12/14/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	12/14/18	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	12/14/18	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	12/14/18	JLI	70 - 130 %
% Toluene-d8	99		%	1	12/14/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Acenaphthylene	1.3	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Anthracene	0.88	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Benz(a)anthracene	3.6	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(a)pyrene	4	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(b)fluoranthene	3.7	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(ghi)perylene	2	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Benzo(k)fluoranthene	3.1	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Chrysene	3.7	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Dibenz(a,h)anthracene	0.55	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Fluoranthene	5.2	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Fluorene	0.36	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	2.4	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Phenanthrene	2.2	0.26	mg/Kg	1	12/16/18	AW	SW8270D
Pyrene	4.9	0.26	mg/Kg	1	12/16/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	12/16/18	AW	30 - 130 %
% Nitrobenzene-d5	61		%	1	12/16/18	AW	30 - 130 %
% Terphenyl-d14	44		%	1	12/16/18	AW	30 - 130 %
Field Extraction	Completed				12/13/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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
December 19, 2018
Reviewed and Released by: Maryam Taylor, 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

December 19, 2018

FOR: Attn: Liam Bane
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	AW	12/13/18	12:20
Location Code:	TRC-DOT	Received by:	CP	12/13/18	16:20
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCC14011
Phoenix ID: CC14020

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B5 (4-6)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		12/13/18	AK	SW846-%Solid
Soil Extraction SVOA PAH	Completed				12/17/18	JJ/CKV	SW3545A
Extraction of CT ETPH	Completed				12/13/18	JJ/U	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	12/14/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	12/14/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	76		%	1	12/14/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.003	mg/Kg	1	12/14/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloroethene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,1-Dichloropropene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dibromoethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloroethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,2-Dichloropropane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B5 (4-6)

Phoenix I.D.: CC14020

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,3-Dichloropropane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
2,2-Dichloropropane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
2-Chlorotoluene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
2-Hexanone	ND	0.025	mg/Kg	1	12/14/18	JLI	SW8260C
2-Isopropyltoluene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
4-Chlorotoluene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.025	mg/Kg	1	12/14/18	JLI	SW8260C
Acetone	ND	0.25	mg/Kg	1	12/14/18	JLI	SW8260C
Acrylonitrile	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Benzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Bromobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Bromochloromethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Bromodichloromethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Bromoform	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Bromomethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon Disulfide	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Carbon tetrachloride	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Chlorobenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Chloroform	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Chloromethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromochloromethane	ND	0.003	mg/Kg	1	12/14/18	JLI	SW8260C
Dibromomethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Dichlorodifluoromethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Ethylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Hexachlorobutadiene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Isopropylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
m&p-Xylene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.03	mg/Kg	1	12/14/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Methylene chloride	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Naphthalene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
n-Butylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
n-Propylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
o-Xylene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
p-Isopropyltoluene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
sec-Butylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Styrene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
tert-Butylbenzene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrachloroethene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Toluene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Total Xylenes	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C

Project ID: CONNDOT- CENTRAL WAREHOUSE
Client ID: CW-B5 (4-6)

Phoenix I.D.: CC14020

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Trichloroethene	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorofluoromethane	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.01	mg/Kg	1	12/14/18	JLI	SW8260C
Vinyl chloride	ND	0.005	mg/Kg	1	12/14/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	12/14/18	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	12/14/18	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	12/14/18	JLI	70 - 130 %
% Toluene-d8	98		%	1	12/14/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Acenaphthylene	ND	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Anthracene	ND	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Benz(a)anthracene	0.43	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Benzo(a)pyrene	0.52	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Benzo(b)fluoranthene	0.51	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Benzo(ghi)perylene	0.52	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Benzo(k)fluoranthene	0.46	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Chrysene	0.46	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Dibenz(a,h)anthracene	0.25	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Fluoranthene	0.64	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Fluorene	ND	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	0.51	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Phenanthrene	ND	0.25	mg/Kg	1	12/17/18	AW	SW8270D
Pyrene	0.64	0.25	mg/Kg	1	12/17/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	57		%	1	12/17/18	AW	30 - 130 %
% Nitrobenzene-d5	59		%	1	12/17/18	AW	30 - 130 %
% Terphenyl-d14	45		%	1	12/17/18	AW	30 - 130 %
Field Extraction	Completed				12/13/18		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.

Phyllis Shiller, Laboratory Director
December 19, 2018
Reviewed and Released by: Maryam Taylor, Project Manager

Ver 1

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

December 19, 2018

QA/QC Data

SDG I.D.: GCC14011

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 459843 (mg/L), QC Sample No: CC13609 (CC14013)										
TPH by GC (Extractable Products) - Water										
Ext. Petroleum H.C. (C9-C36)	ND	0.10	87	86	1.2				60 - 120	30
% n-Pentacosane	61	%	70	61	13.7				50 - 150	20
Comment:										
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 459888 (mg/Kg), QC Sample No: CC14036 (CC14014, CC14015, CC14016, CC14017, CC14018, CC14019, CC14020)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	85	72	16.6	96	93	3.2	60 - 120	30
% n-Pentacosane	67	%	77	68	12.4	98	91	7.4	50 - 150	30
Comment:										
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 460170 (mg/Kg), QC Sample No: CC14020 (CC14020)										
Polynuclear Aromatic HC - Soil										
2-Methylnaphthalene	ND	0.23	57	59	3.4	56	59	5.2	30 - 130	30
Acenaphthene	ND	0.23	68	70	2.9	61	66	7.9	30 - 130	30
Acenaphthylene	ND	0.23	64	65	1.6	58	62	6.7	30 - 130	30
Anthracene	ND	0.23	71	71	0.0	67	69	2.9	30 - 130	30
Benz(a)anthracene	ND	0.23	74	76	2.7	85	72	16.6	30 - 130	30
Benzo(a)pyrene	ND	0.23	71	74	4.1	76	67	12.6	30 - 130	30
Benzo(b)fluoranthene	ND	0.23	72	78	8.0	82	76	7.6	30 - 130	30
Benzo(ghi)perylene	ND	0.23	62	57	8.4	49	49	0.0	30 - 130	30
Benzo(k)fluoranthene	ND	0.23	77	78	1.3	81	71	13.2	30 - 130	30
Chrysene	ND	0.23	70	72	2.8	81	69	16.0	30 - 130	30
Dibenz(a,h)anthracene	ND	0.23	70	64	9.0	46	60	26.4	30 - 130	30
Fluoranthene	ND	0.23	68	71	4.3	96	72	28.6	30 - 130	30
Fluorene	ND	0.23	79	81	2.5	69	75	8.3	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	0.23	69	64	7.5	54	54	0.0	30 - 130	30
Naphthalene	ND	0.23	60	59	1.7	57	64	11.6	30 - 130	30
Phenanthrene	ND	0.23	74	73	1.4	81	70	14.6	30 - 130	30
Pyrene	ND	0.23	70	71	1.4	93	73	24.1	30 - 130	30
% 2-Fluorobiphenyl	56	%	57	58	1.7	50	55	9.5	30 - 130	30
% Nitrobenzene-d5	56	%	58	58	0.0	52	60	14.3	30 - 130	30
% Terphenyl-d14	50	%	55	56	1.8	42	47	11.2	30 - 130	30
Comment:										
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)										
QA/QC Batch 459995 (mg/Kg), QC Sample No: CC14036 (CC14014, CC14015, CC14016, CC14017, CC14018, CC14019)										
Polynuclear Aromatic HC - Soil										
2-Methylnaphthalene	ND	0.23	74	61	19.3	76	70	8.2	30 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Acenaphthene	ND	0.23	78	65	18.2	82	77	6.3	30 - 130	30	
Acenaphthylene	ND	0.23	73	61	17.9	77	71	8.1	30 - 130	30	
Anthracene	ND	0.23	78	67	15.2	83	77	7.5	30 - 130	30	
Benz(a)anthracene	ND	0.23	80	67	17.7	84	79	6.1	30 - 130	30	
Benzo(a)pyrene	ND	0.23	81	68	17.4	87	81	7.1	30 - 130	30	
Benzo(b)fluoranthene	ND	0.23	87	70	21.7	89	85	4.6	30 - 130	30	
Benzo(ghi)perylene	ND	0.23	72	60	18.2	73	67	8.6	30 - 130	30	
Benzo(k)fluoranthene	ND	0.23	81	71	13.2	91	84	8.0	30 - 130	30	
Chrysene	ND	0.23	80	68	16.2	83	80	3.7	30 - 130	30	
Dibenz(a,h)anthracene	ND	0.23	81	66	20.4	82	78	5.0	30 - 130	30	
Fluoranthene	ND	0.23	80	66	19.2	83	77	7.5	30 - 130	30	
Fluorene	ND	0.23	82	68	18.7	85	81	4.8	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	0.23	77	64	18.4	81	76	6.4	30 - 130	30	
Naphthalene	ND	0.23	69	56	20.8	72	67	7.2	30 - 130	30	
Phenanthrene	ND	0.23	76	66	14.1	80	75	6.5	30 - 130	30	
Pyrene	ND	0.23	80	67	17.7	84	77	8.7	30 - 130	30	
% 2-Fluorobiphenyl	71	%	72	59	19.8	72	68	5.7	30 - 130	30	
% Nitrobenzene-d5	68	%	66	54	20.0	71	66	7.3	30 - 130	30	
% Terphenyl-d14	67	%	67	54	21.5	68	62	9.2	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 460021 (ug/L), QC Sample No: CC14406 (CC14013)

Semivolatiles by SIM, PAH - Water

2-Methylnaphthalene	ND	0.50	51			52	61	15.9	30 - 130	20	
Acenaphthene	ND	0.50	57			64	72	11.8	30 - 130	20	
Acenaphthylene	ND	0.30	53			57	65	13.1	30 - 130	20	
Anthracene	ND	0.50	72			71	76	6.8	30 - 130	20	
Benz(a)anthracene	ND	0.06	80			72	71	1.4	30 - 130	20	
Benzo(a)pyrene	ND	0.10	79			65	57	13.1	30 - 130	20	
Benzo(b)fluoranthene	ND	0.08	75			61	54	12.2	30 - 130	20	
Benzo(ghi)perylene	ND	0.48	67			49	41	17.8	30 - 130	20	
Benzo(k)fluoranthene	ND	0.30	74			58	51	12.8	30 - 130	20	
Chrysene	ND	0.50	71			61	59	3.3	30 - 130	20	
Dibenz(a,h)anthracene	ND	0.10	83			61	49	21.8	30 - 130	20	r
Fluoranthene	ND	0.50	73			70	72	2.8	30 - 130	20	
Fluorene	ND	0.50	62			67	74	9.9	30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.10	80			60	51	16.2	30 - 130	20	
Naphthalene	ND	0.50	44			47	56	17.5	30 - 130	20	
Phenanthrene	ND	0.07	65			64	69	7.5	30 - 130	20	
Pyrene	ND	0.50	75			74	77	4.0	30 - 130	20	
% 2-Fluorobiphenyl	58	%	50			49	58	16.8	30 - 130	20	
% Nitrobenzene-d5	61	%	53			52	65	22.2	30 - 130	20	r
% Terphenyl-d14	77	%	78			67	66	1.5	30 - 130	20	

Comment:

This batch consists of a Blank, LCS, MS and MSD.

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 459963 (ug/L), QC Sample No: CC12830 (CC14013)

Volatiles - Water

1,1,1,2-Tetrachloroethane	ND	1.0	100	94	6.2				70 - 130	30	

QA/QC Data

SDG I.D.: GCC14011

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,1-Trichloroethane	ND	1.0	102	90	12.5				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	105	100	4.9				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	94	90	4.3				70 - 130	30
1,1-Dichloroethane	ND	1.0	105	96	9.0				70 - 130	30
1,1-Dichloroethene	ND	1.0	108	93	14.9				70 - 130	30
1,1-Dichloropropene	ND	1.0	103	87	16.8				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	85	95	11.1				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	97	92	5.3				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	95	94	1.1				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	101	91	10.4				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	98	96	2.1				70 - 130	30
1,2-Dibromoethane	ND	1.0	100	97	3.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	101	94	7.2				70 - 130	30
1,2-Dichloroethane	ND	1.0	104	98	5.9				70 - 130	30
1,2-Dichloropropane	ND	1.0	97	92	5.3				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	101	90	11.5				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	102	94	8.2				70 - 130	30
1,3-Dichloropropane	ND	1.0	100	95	5.1				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	101	92	9.3				70 - 130	30
2,2-Dichloropropane	ND	1.0	98	85	14.2				70 - 130	30
2-Chlorotoluene	ND	1.0	102	93	9.2				70 - 130	30
2-Hexanone	ND	5.0	94	90	4.3				70 - 130	30
2-Isopropyltoluene	ND	1.0	104	92	12.2				70 - 130	30
4-Chlorotoluene	ND	1.0	103	93	10.2				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	94	90	4.3				70 - 130	30
Acetone	ND	5.0	100	92	8.3				70 - 130	30
Acrylonitrile	ND	5.0	98	96	2.1				70 - 130	30
Benzene	ND	0.70	100	91	9.4				70 - 130	30
Bromobenzene	ND	1.0	102	95	7.1				70 - 130	30
Bromochloromethane	ND	1.0	102	97	5.0				70 - 130	30
Bromodichloromethane	ND	0.50	96	91	5.3				70 - 130	30
Bromoform	ND	1.0	93	90	3.3				70 - 130	30
Bromomethane	ND	1.0	113	107	5.5				70 - 130	30
Carbon Disulfide	ND	1.0	106	94	12.0				70 - 130	30
Carbon tetrachloride	ND	1.0	100	86	15.1				70 - 130	30
Chlorobenzene	ND	1.0	102	94	8.2				70 - 130	30
Chloroethane	ND	1.0	106	94	12.0				70 - 130	30
Chloroform	ND	1.0	108	100	7.7				70 - 130	30
Chloromethane	ND	1.0	95	84	12.3				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	103	97	6.0				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	93	89	4.4				70 - 130	30
Dibromochloromethane	ND	0.50	102	98	4.0				70 - 130	30
Dibromomethane	ND	1.0	99	102	3.0				70 - 130	30
Dichlorodifluoromethane	ND	1.0	109	91	18.0				70 - 130	30
Ethylbenzene	ND	1.0	102	90	12.5				70 - 130	30
Hexachlorobutadiene	ND	0.40	100	96	4.1				70 - 130	30
Isopropylbenzene	ND	1.0	103	89	14.6				70 - 130	30
m&p-Xylene	ND	1.0	100	90	10.5				70 - 130	30
Methyl ethyl ketone	ND	5.0	108	106	1.9				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	98	93	5.2				70 - 130	30
Methylene chloride	ND	1.0	103	97	6.0				70 - 130	30
Naphthalene	ND	1.0	90	95	5.4				70 - 130	30
n-Butylbenzene	ND	1.0	104	90	14.4				70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
n-Propylbenzene	ND	1.0	104	89	15.5				70 - 130	30
o-Xylene	ND	1.0	102	92	10.3				70 - 130	30
p-Isopropyltoluene	ND	1.0	103	90	13.5				70 - 130	30
sec-Butylbenzene	ND	1.0	105	90	15.4				70 - 130	30
Styrene	ND	1.0	100	92	8.3				70 - 130	30
tert-Butylbenzene	ND	1.0	102	87	15.9				70 - 130	30
Tetrachloroethene	ND	1.0	94	82	13.6				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	97	95	2.1				70 - 130	30
Toluene	ND	1.0	96	87	9.8				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	105	97	7.9				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	91	88	3.4				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	100	96	4.1				70 - 130	30
Trichloroethene	ND	1.0	104	93	11.2				70 - 130	30
Trichlorofluoromethane	ND	1.0	104	86	18.9				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	106	84	23.2				70 - 130	30
Vinyl chloride	ND	1.0	102	89	13.6				70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	101	101	0.0				70 - 130	30
% Bromofluorobenzene	99	%	100	101	1.0				70 - 130	30
% Dibromofluoromethane	99	%	100	103	3.0				70 - 130	30
% Toluene-d8	89	%	95	95	0.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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

QA/QC Batch 460186 (mg/Kg), QC Sample No: CC14014 (CC14011 (50X) , CC14012, CC14014, CC14015, CC14016, CC14017, CC14018, CC14019, CC14020)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	0.005	106	110	3.7	108	110	1.8	70 - 130	30
1,1,1-Trichloroethane	ND	0.005	102	109	6.6	101	103	2.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	108	115	6.3	119	117	1.7	70 - 130	30
1,1,2-Trichloroethane	ND	0.005	97	99	2.0	103	103	0.0	70 - 130	30
1,1-Dichloroethane	ND	0.005	102	109	6.6	103	105	1.9	70 - 130	30
1,1-Dichloroethene	ND	0.005	109	113	3.6	90	100	10.5	70 - 130	30
1,1-Dichloropropene	ND	0.005	107	109	1.9	107	111	3.7	70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	112	116	3.5	111	117	5.3	70 - 130	30
1,2,3-Trichloropropane	ND	0.005	101	107	5.8	108	109	0.9	70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	118	119	0.8	119	124	4.1	70 - 130	30
1,2,4-Trimethylbenzene	ND	0.001	109	114	4.5	112	113	0.9	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	0.005	112	118	5.2	115	119	3.4	70 - 130	30
1,2-Dibromoethane	ND	0.005	104	110	5.6	109	111	1.8	70 - 130	30
1,2-Dichlorobenzene	ND	0.005	105	112	6.5	112	114	1.8	70 - 130	30
1,2-Dichloroethane	ND	0.005	102	107	4.8	102	103	1.0	70 - 130	30
1,2-Dichloropropane	ND	0.005	94	104	10.1	103	103	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	109	113	3.6	109	112	2.7	70 - 130	30
1,3-Dichlorobenzene	ND	0.005	108	111	2.7	113	115	1.8	70 - 130	30
1,3-Dichloropropane	ND	0.005	103	109	5.7	107	107	0.0	70 - 130	30
1,4-Dichlorobenzene	ND	0.005	106	111	4.6	110	114	3.6	70 - 130	30
2,2-Dichloropropane	ND	0.005	107	112	4.6	99	104	4.9	70 - 130	30
2-Chlorotoluene	ND	0.005	105	110	4.7	108	110	1.8	70 - 130	30
2-Hexanone	ND	0.025	102	111	8.5	109	111	1.8	70 - 130	30
2-Isopropyltoluene	ND	0.005	110	115	4.4	111	115	3.5	70 - 130	30
4-Chlorotoluene	ND	0.005	107	110	2.8	110	113	2.7	70 - 130	30
4-Methyl-2-pentanone	ND	0.025	103	112	8.4	115	113	1.8	70 - 130	30

QA/QC Data

SDG I.D.: GCC14011

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Acetone	ND	0.01	72	76	5.4	58	63	8.3	70 - 130	30	m
Acrylonitrile	ND	0.005	100	108	7.7	105	111	5.6	70 - 130	30	
Benzene	ND	0.001	96	101	5.1	101	103	2.0	70 - 130	30	
Bromobenzene	ND	0.005	103	107	3.8	106	107	0.9	70 - 130	30	
Bromochloromethane	ND	0.005	95	108	12.8	105	103	1.9	70 - 130	30	
Bromodichloromethane	ND	0.005	104	111	6.5	105	105	0.0	70 - 130	30	
Bromoform	ND	0.005	114	123	7.6	118	119	0.8	70 - 130	30	
Bromomethane	ND	0.005	89	94	5.5	82	85	3.6	70 - 130	30	
Carbon Disulfide	ND	0.005	110	116	5.3	94	106	12.0	70 - 130	30	
Carbon tetrachloride	ND	0.005	105	109	3.7	101	105	3.9	70 - 130	30	
Chlorobenzene	ND	0.005	102	105	2.9	105	108	2.8	70 - 130	30	
Chloroethane	ND	0.005	107	109	1.9	90	95	5.4	70 - 130	30	
Chloroform	ND	0.005	98	105	6.9	93	101	8.2	70 - 130	30	
Chloromethane	ND	0.005	92	93	1.1	92	98	6.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	105	92	13.2	113	111	1.8	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	103	110	6.6	107	106	0.9	70 - 130	30	
Dibromochloromethane	ND	0.003	114	123	7.6	117	117	0.0	70 - 130	30	
Dibromomethane	ND	0.005	97	106	8.9	104	103	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	0.005	111	114	2.7	103	112	8.4	70 - 130	30	
Ethylbenzene	ND	0.001	105	107	1.9	106	111	4.6	70 - 130	30	
Hexachlorobutadiene	ND	0.005	116	122	5.0	120	124	3.3	70 - 130	30	
Isopropylbenzene	ND	0.001	108	111	2.7	106	109	2.8	70 - 130	30	
m&p-Xylene	ND	0.002	103	108	4.7	106	110	3.7	70 - 130	30	
Methyl ethyl ketone	ND	0.005	92	98	6.3	99	98	1.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	98	107	8.8	102	103	1.0	70 - 130	30	
Methylene chloride	ND	0.005	95	105	10.0	101	102	1.0	70 - 130	30	
Naphthalene	ND	0.005	113	120	6.0	113	117	3.5	70 - 130	30	
n-Butylbenzene	ND	0.001	116	118	1.7	115	120	4.3	70 - 130	30	
n-Propylbenzene	ND	0.001	108	112	3.6	107	112	4.6	70 - 130	30	
o-Xylene	ND	0.002	107	112	4.6	113	114	0.9	70 - 130	30	
p-Isopropyltoluene	ND	0.001	114	117	2.6	113	116	2.6	70 - 130	30	
sec-Butylbenzene	ND	0.001	114	119	4.3	116	119	2.6	70 - 130	30	
Styrene	ND	0.005	108	113	4.5	115	117	1.7	70 - 130	30	
tert-Butylbenzene	ND	0.001	108	113	4.5	109	113	3.6	70 - 130	30	
Tetrachloroethene	ND	0.005	100	103	3.0	107	108	0.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	97	108	10.7	104	104	0.0	70 - 130	30	
Toluene	ND	0.001	96	102	6.1	101	104	2.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	102	114	11.1	105	111	5.6	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	102	108	5.7	106	105	0.9	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	117	124	5.8	117	117	0.0	70 - 130	30	
Trichloroethene	ND	0.005	99	103	4.0	103	106	2.9	70 - 130	30	
Trichlorofluoromethane	ND	0.005	103	107	3.8	79	86	8.5	70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	102	109	6.6	85	97	13.2	70 - 130	30	
Vinyl chloride	ND	0.005	98	105	6.9	101	111	9.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	100	101	1.0	99	100	1.0	70 - 130	30	
% Bromofluorobenzene	95	%	100	100	0.0	101	101	0.0	70 - 130	30	
% Dibromofluoromethane	106	%	102	102	0.0	99	100	1.0	70 - 130	30	
% Toluene-d8	99	%	100	101	1.0	100	99	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%.

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

QA/QC Data

SDG I.D.: GCC14011

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD 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
December 19, 2018

Wednesday, December 19, 2018

Criteria: CT: GAM, GBM, RC

State: CT

Sample Criteria Exceedances Report

GCC14011 - TRC-DOT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC14015	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1800	250	1000	1000	ug/Kg
CC14015	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3200	250	1000	1000	ug/Kg
CC14015	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2800	250	1000	1000	ug/Kg
CC14015	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2800	250	1000	1000	ug/Kg
CC14015	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	2800	250	1000	1000	ug/Kg
CC14015	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	1800	250	1000	1000	ug/Kg
CC14015	$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	1600	250	1000	1000	ug/Kg
CC14015	$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2700	250	1000	1000	ug/Kg
CC14015	$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2800	250	1000	1000	ug/Kg
CC14015	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2800	250	1000	1000	ug/Kg
CC14015	$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3200	250	1000	1000	ug/Kg
CC14015	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1800	250	1000	1000	ug/Kg
CC14015	$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	2800	250	1000	1000	ug/Kg
CC14015	$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1600	250	1000	1000	ug/Kg
CC14015	$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	3200	250	1000	1000	ug/Kg
CC14015	$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2800	250	1000	1000	ug/Kg
CC14015	$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2700	250	1000	1000	ug/Kg
CC14015	$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	2800	250	1000	1000	ug/Kg
CC14016	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1200	250	1000	1000	ug/Kg
CC14016	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1900	250	1000	1000	ug/Kg
CC14016	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1800	250	1000	1000	ug/Kg
CC14016	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2100	250	1000	1000	ug/Kg
CC14016	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	1200	250	1000	1000	ug/Kg
CC14016	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1900	250	1000	1000	ug/Kg
CC14016	$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1700	250	1000	1000	ug/Kg
CC14016	$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2100	250	1000	1000	ug/Kg
CC14016	$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1800	250	1000	1000	ug/Kg
CC14016	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1900	250	1000	1000	ug/Kg
CC14016	$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1900	250	1000	1000	ug/Kg
CC14016	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1200	250	1000	1000	ug/Kg
CC14016	$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1900	250	1000	1000	ug/Kg
CC14016	$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1700	250	1000	1000	ug/Kg
CC14016	$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1800	250	1000	1000	ug/Kg
CC14016	$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2100	250	1000	1000	ug/Kg
CC14017	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	2200	250	1000	1000	ug/Kg
CC14017	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3300	250	1000	1000	ug/Kg
CC14017	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3300	250	1000	1000	ug/Kg
CC14017	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3800	250	1000	1000	ug/Kg
CC14017	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	2200	250	1000	1000	ug/Kg
CC14017	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	3300	250	1000	1000	ug/Kg

Wednesday, December 19, 2018

Criteria: CT: GAM, GBM, RC

State: CT

Sample Criteria Exceedances Report

GCC14011 - TRC-DOT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC14017	$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	1900	250	1000	1000	ug/Kg
CC14017	$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3800	250	1000	1000	ug/Kg
CC14017	$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4400	250	4000	4000	ug/Kg
CC14017	$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2900	250	1000	1000	ug/Kg
CC14017	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3300	250	1000	1000	ug/Kg
CC14017	$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3300	250	1000	1000	ug/Kg
CC14017	$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	3300	250	1000	1000	ug/Kg
CC14017	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	2200	250	1000	1000	ug/Kg
CC14017	$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1900	250	1000	1000	ug/Kg
CC14017	$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2900	250	1000	1000	ug/Kg
CC14017	$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3300	250	1000	1000	ug/Kg
CC14017	$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	3800	250	1000	1000	ug/Kg
CC14017	$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	3300	250	1000	1000	ug/Kg
CC14018	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	2000	250	1000	1000	ug/Kg
CC14018	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3300	250	1000	1000	ug/Kg
CC14018	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3500	250	1000	1000	ug/Kg
CC14018	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3200	250	1000	1000	ug/Kg
CC14018	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	2000	250	1000	1000	ug/Kg
CC14018	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	3300	250	1000	1000	ug/Kg
CC14018	$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	1600	250	1000	1000	ug/Kg
CC14018	$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4400	250	4000	4000	ug/Kg
CC14018	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3200	250	1000	1000	ug/Kg
CC14018	$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2900	250	1000	1000	ug/Kg
CC14018	$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3300	250	1000	1000	ug/Kg
CC14018	$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3500	250	1000	1000	ug/Kg
CC14018	$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	3300	250	1000	1000	ug/Kg
CC14018	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	2000	250	1000	1000	ug/Kg
CC14018	$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1600	250	1000	1000	ug/Kg
CC14018	$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	3300	250	1000	1000	ug/Kg
CC14018	$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2900	250	1000	1000	ug/Kg
CC14018	$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	3500	250	1000	1000	ug/Kg
CC14018	$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3200	250	1000	1000	ug/Kg
CC14019	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	2400	260	1000	1000	ug/Kg
CC14019	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4000	260	1000	1000	ug/Kg
CC14019	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3600	260	1000	1000	ug/Kg
CC14019	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3700	260	1000	1000	ug/Kg
CC14019	$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	2000	260	1000	1000	ug/Kg
CC14019	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	3700	260	1000	1000	ug/Kg
CC14019	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	2400	260	1000	1000	ug/Kg
CC14019	$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3100	260	1000	1000	ug/Kg

Wednesday, December 19, 2018

Criteria: CT: GAM, GBM, RC

State: CT

Sample Criteria Exceedances Report

GCC14011 - TRC-DOT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CC14019	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3700	260	1000	1000	ug/Kg
CC14019	$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4000	260	1000	1000	ug/Kg
CC14019	$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	3600	260	1000	1000	ug/Kg
CC14019	$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4900	260	4000	4000	ug/Kg
CC14019	$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	2000	260	1000	1000	ug/Kg
CC14019	$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	3700	260	1000	1000	ug/Kg
CC14019	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	2400	260	1000	1000	ug/Kg
CC14019	$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3700	260	1000	1000	ug/Kg
CC14019	$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	4000	260	1000	1000	ug/Kg
CC14019	$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3100	260	1000	1000	ug/Kg
CC14019	$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	3600	260	1000	1000	ug/Kg

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** TRC Environmental Corp.

Project Location: CONNDOT- CENTRAL WAREHOUSE ***Project Number:***

Laboratory Sample ID(s): CC14011-CC14020 ***Sampling Date(s):*** 12/13/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: MTaylor **Position:** Project Manager

Printed Name: Maryam Taylor **Date:** Wednesday, December 19, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

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

NY # 11301

RCP Certification Report

December 19, 2018

SDG I.D.: GCC14011

SDG Comments

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID21 12/14/18-1 Jeff Bucko, Chemist 12/14/18

CC14014, CC14020

The initial calibration (ETPHD05I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID22 12/14/18-1 Jeff Bucko, Chemist 12/14/18

CC14015, CC14016, CC14017, CC14018, CC14019

The initial calibration (ETPHD05I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 12/14/18-1 Jeff Bucko, Chemist 12/14/18

CC14013

The initial calibration (ETPHN06I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 459843 (CC13609)

CC14013

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
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.

Batch 459888 (CC14036)

CC14014, CC14015, CC14016, CC14017, CC14018, CC14019, CC14020

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
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.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM05 12/16/18-1 Adam Werner, Chemist 12/16/18

CC14014, CC14015, CC14016, CC14017, CC14018, CC14019

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RCP Certification Report

December 19, 2018

SDG I.D.: GCC14011

SVOA Narration

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM05/5_BN_1114):
[PCTMET]% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/1216_03-5_BN_1114):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM28 12/17/18-1 Adam Werner, Chemist 12/17/18

CC14020

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM28/28_BN_1121):
[PCTMET]% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM28/1217_06-28_BN_1121):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 459995 (CC14036)

CC14014, CC14015, CC14016, CC14017, CC14018, CC14019

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QC (Site Specific):

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

December 19, 2018

SDG I.D.: GCC14011

SVOA Narration

Batch 460170 (CC14020)

CC14020

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM27 12/16/18-1 Keith Aloisa, Chemist 12/16/18

CC14013

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM27/27_BNSIM18_1206):
[PCTMET]% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/1216_03-27_BNSIM18_1206):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 460021 (CC14406)

CC14013

All LCS recoveries were within 30 - 130 with the following exceptions: None.
This batch consists of a Blank, LCS, MS and MSD.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QC (Site Specific):

Batch 460170 (CC14020)

CC14020

All LCS recoveries were within 30 - 130 with the following exceptions: None.

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RCP Certification Report

December 19, 2018

SDG I.D.: GCC14011

SVOASIM Narration

All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 460186 (Samples: CC14011, CC14012, CC14014, CC14015, CC14016, CC14017, CC14018, CC14019, CC14020): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely. (Acetone)

Instrument:

CHEM17 12/13/18-2 Michael Hahn, Chemist 12/13/18

CC14013

Initial Calibration Evaluation (CHEM17/VT-S1211):
[PCTMET]% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.036 (0.05), 2-Hexanone 0.077 (0.1), Acetone 0.035 (0.1), Bromoform 0.096 (0.1), Methyl ethyl ketone 0.058 (0.1), Tetrahydrofuran (THF) 0.044 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM17/1213_28-VT-S1211):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.035 (0.05), Bromoform 0.090 (0.1), Tetrahydrofuran (THF) 0.044 (0.05)
The following compounds did not meet minimum response factors: None.

CHEM31 12/14/18-1 Jane Li, Chemist 12/14/18

CC14011, CC14012, CC14014, CC14015, CC14016, CC14017, CC14018, CC14019, CC14020

Initial Calibration Evaluation (CHEM31/VT-L1210):
[PCTMET]% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 36% (20%), Chloroethane 23% (20%), Methyl Ethyl Ketone 24% (20%)
The following compounds did not meet recommended response factors: Tetrachloroethene 0.189 (0.2)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM31/1214_04-VT-L1210):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.

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NY # 11301

RCP Certification Report

December 19, 2018

SDG I.D.: GCC14011

VOA Narration

The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 459963 (CC12830)

CC14013

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QC (Site Specific):

Batch 460186 (CC14014)

CC14011, CC14012, CC14014, CC14015, CC14016, CC14017, CC14018, CC14019, CC14020

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: Acetone(58%)
All MSD recoveries were within 70 - 130 with the following exceptions: Acetone(63%)
All MS/MSD RPDs were less than 30% with the following exceptions: None.
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 2.3C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

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

CHAIN OF CUSTODY RECORD

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

Temp 2.3 °C Pg 1 of 1

Data Delivery/Contact Options:
☐ Fax:
☐ Phone:
☑ Email: LBane@TRCsolutions.com

Customer: TRC
Address: 21 Griffin Rd N
Windsor, CT 06095

Project: Connor-Central Warehouse
Project P.O: To be issued by DOT
Report to: Liam Bane - TRC
Invoice to: Connor - ISP form needed
QUOTE # NA

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
Sampler's Signature: Ashley [signature] Date: 12/13/18

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 **X** = ____________(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs	PAHs	CT ETPH	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) 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
14011	SB20181213-H	DI	12/13/18	0815	X			1											1
14012	SB20181213-L	↓	↓	0815	X			2											2
14013	FB20181213	↓		0825	X	X	X				3	3							6
14014	CW-B2 (6-8)	Soil		0915	↓	↓	↓	3	1										4
14015	CW-B1 (6-8)	↓		0950				↓	↓										↓
14016	CW-B3 (8-10)			1025															
14017	CW-B4 (8-10)			1115															
14018	CW-B100 (8-10)			1120															
14019	CW-B6 (4-6)			1145															
14020	CW-B5 (4-6)	↓	↓	1220	↓	↓	↓	↓	↓										↓

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	12/13/18	1620

Comments, Special Requirements or Regulations:
Pricing per DAS contract:
13PSX0173

Turnaround Time:
☐ 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 GW-1 ☐ S-1 GW-2 ☐ S-1 GW-3
☐ S-2 GW-1 ☐ S-2 GW-2 ☐ S-2 GW-3
☐ S-3 GW-1 ☐ S-3 GW-2 ☐ S-3 GW-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