



# Hygenix, Inc.

Environmental Consultants and Laboratory Services

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## **GEOPHYSICAL SURVEY, TEST PIT INSTALLATIONS AND SAMPLING**

**Prepared for:**

495-519 Pacific Street, LLC  
c/o Frank Steinegger  
19 Clarks Hill Avenue  
Stamford, CT 06902

**Site Location:**

495-519 Pacific Street  
Stamford, CT

**Report Issued:**

May 29, 2020



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**GEOPHYSICAL SURVEY, TEST PIT INSTALLATIONS AND SAMPLING**

INSPECTION SITE: 495-519 Pacific Street  
Stamford, CT

CLIENT: 495-519 Pacific Street, LLC  
Attn: Frank Steinegger  
19 Clarks Hill Avenue  
Stamford, CT 06902

INVESTIGATOR: Arthur Morris MS, LEP  
Peter Antonucci, BS

INVESTIGATION DATE(S): April 22 and 23, 2020

**BACKGROUND**

HYGENIX, Inc. (Hygenix) was retained by Frank Steinegger of 495-519 Pacific Street LLC to assess site soils and underlying conditions at the above-mentioned contiguous properties, hereafter referred as the "Site" and/or "Subject Property". The purpose of this investigation is assessment of the soils to assist with future Site development where site soils will require export and or re-working during development. This information will provide the basis for preparation of a Soil Management Plan for future site development work.

Hygenix recently completed a Phase I Environmental Site Assessment to identify any Recognized Environmental Conditions also known as Areas of Concern. Although no specific Areas of Concern were identified, Hygenix recommended performing a geophysical survey to rule out the presence of any orphan underground storage tank(s). The recommendations included developing a sampling plan for assessing site soils to assist with future site development work.

A soil sampling proposal was submitted to Frank Steinegger of 495-519 Pacific Street LLC. On April 20, 2020, Mr. Steinegger approved the proposal to proceed with a geophysical survey, oversight of test pit installations, collection and submittal of soil samples for laboratory analysis. The following sections will describe the findings from this assessment.

**PREPARATION OF A SAMPLING PLAN**

The sampling plan called for installation of representative test pits across the four contiguous parcels that comprise the "Site" and a geophysical survey. This work consisted of the following investigative tasks:

- To rule out the presence of an orphan underground tank, a magnetometer or ground penetrating radar survey should be performed. If the location of an orphan

underground tank is identified, the orphan tank should be removed by a qualified contractor.

- Install test pits across the Site using either an excavator or backhoe to evaluate and assess underlying soil conditions. Conduct representative analysis of the soils for potential contaminants of concern (i.e. Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs/PAHs), Extractable Total Petroleum Hydrocarbons (ETPHs), Metals, herbicides/pesticides, and Polychlorinated Biphenyl (PCBs)).

The sampling plan calls for use of a backhoe for installation of test pits to evaluate underlying soils and soil types. Representative samples of the soil will be collected and submitted for laboratory analyses. The results of the sampling and analyses will be used for comparison against applicable regulatory standards and/or guidelines in order to determine the appropriate actions for handling of site soils during future development activities.

### **SITE LOCATION**

The Site consists of four contiguous parcels which totals approximately 0.42 acre. Currently, there are no structures on the Subject Property. The Site is situated on the west side of Pacific Street and also has road frontage on Dock Street to the north. The Site is located in the City of Stamford, Fairfield County, State of Connecticut. The Subject Property is officially designated on Tax Assessor Map 127 as Block 80 and Lot numbers 34-37 by the City's Tax Assessor's office. The Subject Parcels are as follows:

<b>Address</b>	<b>Tax ID No.</b>	<b>Lot No.</b>	<b>Parcel Size-Acre(s)</b>
495 Pacific Street	002-2255	34	0.16
501 Pacific Street	001-2055	35	0.09
511 Pacific Street	001-2056	36	0.07
519 Pacific Street	001-8693	37	0.10

The Site is bordered to the north by Dock Street. Bordering the Site to the east is Pacific Street and across the street is a commercial building formerly occupied by Pacific Plumbing & Heating Supply Company. Bordering the Site to the south is T's Wine Bar & Kitchen, Fine 20<sup>th</sup> Century Furnishing, followed by DeMott Auto Inc. Bordering the Site to the west are vacant parcels of land followed by Garden Street.

A chain-link fence surrounds the Subject Property on all sides. Access on to the Site is gained through a locked chain-link gate located on the eastern side of the Site. Portions of the Site have a slightly raised grade. The Site consist of grassy areas. Debris such as brick, stone, rock, concrete, asphalt, and wood was also observed on the surfaces of the Site. **Figures 1 and 2** consist of a street map and USGS map detailing the location of the Site.

Groundwater classification in the area is "GB", as noted on a Water Quality Classification Map of Connecticut, adopted on March 30, 1999. Based upon the water quality criteria according to the State of Connecticut, Department of Energy & Environmental Protection, GB classification implies that the groundwater is not suitable for direct human consumption without treatment.

### **SCOPE OF WORK**

The scope of work for this investigation consisted of the following:

- Perform a Geophysical Survey (i.e. Magnetometer Survey)
- Install ten (10) representative test pits
- Install a two-inch PVC well in one of the test pit locations
- Select representative samples for laboratory analyses
- Screen all samples with a photoionization analyzer to screen for volatile organic compounds with a MiniRae PID instrument

The focus of this investigation calls for the installation of representative test pits to characterize soils on the Site. The sampling plan calls for a total of ten (10) test pits. The soils and any visible non-native material within each test pit will be described and the underlying conditions recorded. Representative samples will be collected and analyzed for potential contaminants of concern (COCs) in order to characterize the soils and/or material present on the Site. This report describes the findings of our investigation.

### **GEOPHYSICAL SURVEY**

On April 22, 2020, Peter Antonucci of Hygenix performed a geophysical investigation. The investigation was performed using a Fisher Model TW-6 ferro-magnetometer to survey the Site. Several small diffuse magnetometer readings were identified as well as one larger magnetic profile within the northeastern section of the Site. The locations were identified for further investigation on the following day.

### **TEST PIT INSTALLATIONS**

On April 23, 2020, a total of ten (10) test pits were installed on the Site, under the direction of Arthur Morris and Pete Antonucci of Hygenix. The owner provided a backhoe and operator to install the test pits. Hygenix staff were present to observe soil conditions and collect samples from the various test pits of the different types of soil. **Figure 3** details the locations of the test pits on the Site.

The selection of the locations of the test pits were determined by the staff of Hygenix. The following provide a brief description of each test pit location:

**Test Pit 1** - This test pit was installed along the western property line about midway along the property. The surface materials overlying the test pit consist mostly of topsoil with pieces of

wood, trace coal, trace brick, trace pieces of asphalt; followed by dark brown F-M sand with some gravel from 12 inches to 30 inches below grade surface (bgs); followed by 30 inches to 36 inches below grade by a light brown F sand with some coarse gravel; then by a light brown M-C sand and gravel from approximately 36 inches to 60 inches below grade. The test pit terminated at 60 inches below grade.

**Test Pit 2** - This test pit was installed along the southwestern corner of the Site. The surface materials overlying the test pit consist mostly of topsoil F-M sand w/some coarse sand with trace pieces of brick, asphalt extending to about 18 inches below grade; followed by tan F-M sand with some gravel from 12 inches to 36 inches below grade surface (bgs); followed by tan M-C sand and gravel to 48 inches below grade. The test pit terminated at 48 inches below grade.

**Test Pit 3** - This test pit was installed along the southeastern corner of the Site. The surface materials overlying the test pit consist mostly of loamy dark brown topsoil w/trace pieces of brick and tile extending to about 18 inches below grade; followed by tan M-C sand and gravel from 18 inches to approximately 36 inches below grade surface (bgs); followed by tan C sand and gravel to 60 inches below grade. The test pit terminated at 60 inches below grade.

**Test Pit 4** - This test pit was installed between and slightly north of test pits 3 and 4. The surface materials overlying the test pit consist mostly dark brown topsoil w/pieces of building debris to about 24 inches below grade; followed by concrete footings from a former structure 24 inches to approximately 48 inches below grade surface (bgs); followed by tan C sand and gravel from 60 inches to 10 feet below grade. A two-inch monitoring well was set at the base of the test pit (5 feet of screen connected to 5 feet of solid riser). The test pit terminated at 10 feet below grade.

**Test Pit 5** - This test pit was installed northwest of test pit 5. The test pit surface materials overlying the test pit consist mostly of a thin layer of topsoil (0-6 inches); followed by reddish brown M sand with some gravel from 6 inches to 30 inches below grade; followed by tan to grey M-C sand and gravel to 6 feet below grade. The test pit terminated at 6 feet below grade.

**Test Pit 6** - This test pit was installed northwest of test pit 5. The surface materials overlying the test pit consist of a layer of topsoil approximately 0-12 inches below grade; followed by light brown F sand with some silt with cut stone from 12 inches to 48 inches below grade with layer containing some ash from 4-5 feet below grade; followed by light brown to light grey C sand and gravel to 7 feet below grade. The test pit terminated at 7 feet below grade.

**Test Pit 7** - This test pit was installed northeast of test pit 6 and also the location of a diffuse magnetic anomaly. The surface materials overlying the test pit consist of a layer of topsoil approximately (0-12 inches); followed by light brown F sand with some silt with some silt and pieces of brick from 12 inches to 24 inches below grade followed by a layer of fill containing some ash, glass, metal and wood from 2-4 feet below grade; followed by a concrete slab from a former structure initiating at about 4 feet below grade; followed by brown C sand and gravel to 5 feet below grade. The test pit terminated at 5 feet below grade.

**Test Pit 8** - This test pit was installed northeast corner of the Site. The test pit surface materials overlying the test pit consist of a layer of topsoil (0-12 inches); followed by reddish brown F sand from 12 inches to 30 inches below grade; followed by reddish brown F sand to 4 feet below grade. The test pit terminated at 4 feet below grade.

**Test Pit 9** - This test pit was installed along north-northeast side of the Site near the sidewalk along Dock Street. The north side of the test pit closest to the sidewalk and street contained more fill and debris and the southern side of the test pit contained topsoil (0-24 inches below grade followed by tan to grey M-C sand and gravel (24 inches to 48 inches). The test pit terminated at 4 feet below grade.

**Test Pit 10** - This test pit was installed in the northwest corner of the Site. The test pit surface materials overlying the test pit consist of topsoil (0-18 inches); followed by reddish brown F sand with some silt from 18 inches to 42 inches below grade; followed by tan C sand and gravel from 42 inches to 60 inches below grade. The test pit terminated at 5 feet below grade.

Each of the test pits was examined for the presence of any non-native materials. In general, loose fill material with miscellaneous debris was observed within some of the surface soils from the various test pits. Remnants of former structures including footings and concrete slab were encountered in Test Pits 4 and 7, respectively. Most of the test pits contained varying degrees of native/natural appearing soil, medium to coarse sand and gravel. The debris and soils from each test pit were screened for volatile organic compounds using a MiniRae PID analyzer. All of the PID readings were negligible (ND). A log for each test pit is further described in **Appendix 1**.

To further evaluate the condition of the soil types, representative soil samples were collected for analyses. The purpose was to assess each soil type for potential contaminants. The soil samples were submitted to Phoenix Environmental Laboratories in Manchester, CT for the following analyses: Extractable Total Petroleum Hydrocarbons (ETPH), Volatile Organic Compounds by EPA Method 8260 (VOCs); Semi Volatile Organic Compounds/Polycyclic Aromatic Hydrocarbons by EPA Method 8270 (SVOCs/PAHs); Polychlorinated biphenyls (PCBs) by EPA Method 8082, Priority 13 Metal analysis; Total Arsenic and Lead; Chlorinated Pesticides and Chlorinated Herbicides by EPA Method 8081/8151. Generally, discrete layers were sampled and submitted for analysis. The exception was Test Pit 7 where a composite sample was collected and submitted for waste characterization. All of the sample containers were supplied by the laboratory and upon collection the samples were placed on ice. The analyses were selected to represent contaminants that may be found in non-native materials.

The analytical results for the samples submitted and analyzed for volatile organic compounds (VOCs) and semi volatile organic compound (SVOCs/PAHs) are summarized in **Tables 1 and 2**. The two samples submitted for VOC analysis were both below the limits of laboratory detection. Of the five samples submitted for SVOC/PAH analysis, three of the samples contained varying levels of SVOC/PAH compounds. Test Pit 2 (0-1.5') contained concentrations of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene and Indeno(1,2,3-cd)pyrene present in the soil above the Residential Direct Exposure Criteria (RDEC) and Pollutant Mobility Criteria.

**TABLE 1. Summary of Analytical Results SVOCs/ PAHs– Soil Samples**

Location	Analytical Methods	Compounds Detected	Result (mg/kg)	RDEC (mg/kg)	Pollutant Mobility Criteria
					"GB" (mg/kg)
Test Pit 1 (0 – 1')	EPA Method 8270 (SVOCs/PAHs)	Benz(a)anthracene	0.78	1	1
		Benzo(a)pyrene	0.87	1	1
		Benzo(b)fluoranthene	0.83	1	1
		Benzo(ghi)perylene	0.56	8.4	1
		Benzo(k)fluoranthene	0.73	8.4	1
		Chrysene	0.8	84	1
		Fluoranthene	1.3	1,000	56
		Indeno(1,2,3-cd)pyrene	0.6	1	1
		Phenanthrene	0.67	1,000	40
		Pyrene	1.2	1,000	40
Test Pit 2 (0 – 1.5')	EPA Method 8270 (SVOCs/PAHs)	Acenaphthene	0.52	1,000	84
		Acenaphthylene	2	1,000	84
		Anthracene	3.3	1,000	400
		Benz(a)anthracene	<b>15</b>	1	1
		Benzo(a)pyrene	<b>15</b>	1	1
		Benzo(b)fluoranthene	<b>14</b>	1	1
		Benzo(ghi)perylene	6.8	8.4	1
		Benzo(k)fluoranthene	7.1	8.4	1
		Chrysene	14	84	1
		Dibenz(a,h)anthracene	<b>2.4</b>	1	1
		Fluoranthene	29	1,000	56
		Fluorene	0.81	1,000	56
		Indeno(1,2,3-cd)pyrene	<b>7.6</b>	1	1
Phenanthrene	9.3	1,000	40		
Pyrene	26	1,000	40		
Test Pit 3 (4 – 6')	EPA Method 8270 (SVOCs/PAHs)	Benz(a)anthracene	0.74	1	1
		Benzo(a)pyrene	0.82	1	1
		Benzo(b)fluoranthene	0.62	1	1
		Benzo(ghi)perylene	0.3	8.4	1
		Benzo(k)fluoranthene	0.6	8.4	1
		Chrysene	0.64	84	1
		Fluoranthene	0.79	1,000	56
		Indeno(1,2,3-cd)pyrene	0.37	1	1
Pyrene	0.74	1,000	40		
Test Pit 5 (0.5 – 2.5')	EPA Method 8270 (SVOCs/PAHs)	None detected	ND	--	--
Test Pit 7 (5 – 6')	EPA Method 8270 (SVOCs/PAHs)	None detected	ND	--	--

Note: NE = Not Established; ***Bold italics*** = Above regulatory criteria; ND=None detected

**TABLE 2. Summary of Analytical Results VOCs – Soil Samples**

Location	Analytical Methods	Compounds Detected	Result (mg/kg)	RDEC (mg/kg)	Pollutant Mobility Criteria
					"GB" (mg/kg)
Test Pit 6 (5.5-7')	EPA Method 8260 (VOCs)	None detected	ND	--	--
Test Pit 8 (0 – 1')	EPA Method 8260 (VOCs)	None detected	ND	--	--

Note: NE = Not Established; ***Bold italics*** = Above regulatory criteria; ND=None detected



The analytical results for the samples analyzed for Polychlorinated biphenyls (PCBs) and for Chlorinated Pesticides and Chlorinated Herbicides are summarized in **Tables 3 and 4**. The two samples submitted for PCB analysis were both below limits of laboratory detection. Similarly, the sample submitted for Chlorinated Pesticides and Chlorinated Herbicides was also below limits of laboratory detection.

**TABLE 3. Summary of Analytical Results Chlorinated Herbicides & Pesticides – Soil**

Location	Analytical Methods	Compounds Detected	Result (mg/kg)	RDEC (mg/kg)	Pollutant Mobility Criteria
					"GB" (mg/kg)
Test Pit 2 (1.5' – 4')	EPA Methods 8151/8081 Chlorinated Herbicides/Pesticides	None detected	ND	--	--

Note: NE = Not Established; ***Bold italics*** = Above regulatory criteria; ND=None detected

**TABLE 4. Summary of Analytical Results PCBs – Soil Samples**

Location	Analytical Methods	Compounds Detected	Result (mg/kg)	RDEC (mg/kg)	Pollutant Mobility Criteria
					"GB" (mg/kg)
Test Pit 3 (0-1.5')	EPA Method 8082 (PCBs)	None detected	ND	--	--
Test Pit 9 (1 – 3')	EPA Method 8082 (PCBs)	None detected	ND	--	--

Note: NE = Not Established; ***Bold italics*** = Above regulatory criteria; ND=None detected

**TABLE 5. Summary of Analytical Results for CT ETPHs – Soil Samples**

Location	Analytical Methods	Result (mg/kg)	RDEC (mg/kg)	I/C DEC (mg/kg)	GB-PMC (mg/kg)
Test Pit 5 (0.5 – 2.5')	CT ETPH	ND < 53	500	2500	2500
Test Pit 6 (0 – 2.5')	CT ETPH	ND < 56	500	2500	2500
Test Pit 10 (0-1.5)	CT ETPH	ND < 100	500	2500	2500

Note: NE = Not Established; ***Bold italics*** = Above regulatory criteria; ND=None detected

The analytical results for the samples submitted and analyzed for Extractable Petroleum Hydrocarbons (ETPHs) are summarized in **Tables 5**. All three samples submitted for ETPH were all below limits of laboratory detection.

The results for Priority 13 Metals (mass analysis) present in the soil are summarized in **Table 5A**. The results for SPLP Leachable Metal Analysis are summarized in **Table 5B**. The results for Total Arsenic and Lead in the soil are summarized in **Table 5C**.

Two of the shallow surface soil samples (0-1.5') analyzed for total arsenic and lead by mass analysis, Test Pit 1 and Test Pit 2, contain levels of arsenic and/or lead above regulatory soil criteria (RDEC).

All four of the soil samples submitted and analyzed for SPLP arsenic and lead were below the GB PMC.

The samples results for metals in deeper soils (> 3' below grade) by mass analysis were either very low or below limits of laboratory detection. In general, the deeper soils from multiple locations contain levels of metals consistent with native/natural background levels.

**TABLE 5A. Summary of Analytical Results for Priority 13 Metals – Soil Samples**

Location	Analytical Methods	Compounds Detected	Result (mg/kg)	RDEC (mg/kg)	I/C DEC (mg/kg)	*GB-PMC (mg/kg)
Test Pit 1 (3 – 5')	Priority 13 Metals	Silver	< 0.36	340	10,000	0.36
		Arsenic	2.21	10	10	0.5
		Beryllium	0.30	2	2	0.04
		Cadmium	0.54	34	1,000	0.05
		Chromium	25.9	NE	NE	NE
		Copper	24.2	2,500	76,000	13
		Mercury	0.25	20	610	0.02
		Nickel	13.0	1,400	7,500	1.0
		Lead	47.5	400	1,000	0.15
		Antimony	< 3.6	27	8,200	0.06
		Selenium	< 1.5	340	10,000	0.5
		Thallium	< 3.3	5.4	160	0.05
		Zinc	37.8	20,000	610,000	50
Test Pit 3 (4 – 6')	Priority 13 Metals	Silver	< 0.33	340	10,000	0.36
		Arsenic	1.16	10	10	0.5
		Beryllium	0.29	2	2	0.04
		Cadmium	0.50	34	1,000	0.05
		Chromium	11.1	NE	NE	NE
		Copper	14.4	2,500	76,000	13
		Mercury	< 0.03	20	610	0.02
		Nickel	12.1	1,400	7,500	1.0
		Lead	21.3	400	1,000	0.15
		Antimony	< 3.3	27	8,200	0.06
		Selenium	< 1.3	340	10,000	0.5
		Thallium	< 2.9	5.4	160	0.05
		Zinc	48.7	20,000	610,000	50
Test Pit 7 (5 – 6')	Priority 13 Metals	Silver	< 0.33	340	10,000	0.36
		Arsenic	0.90	10	10	0.5
		Beryllium	< 0.26	2	2	0.04
		Cadmium	0.42	34	1,000	0.05
		Chromium	14.5	NE	NE	NE
		Copper	17.1	2,500	76,000	13
		Mercury	< 0.03	20	610	0.02
		Nickel	11.5	1,400	7,500	1.0
		Lead	5.07	400	1,000	0.15
		Antimony	< 3.3	27	8,200	0.06
		Selenium	< 1.3	340	10,000	0.5
		Thallium	< 3.0	5.4	160	0.05
		Zinc	136	20,000	610,000	50

*Note:* NE = Not Established; ***bold italics*** = Above regulatory criteria; \*Hygenix used the most restrictive criteria for chromium since total chromium consists of both the trivalent and hexavalent forms of chromium. The sample was still well below criteria using even the most restrictive level. \* All samples were analyzed by mass analysis not by SPLP. See Table 5 for SPLP analysis of metals.

TABLE 5B. Summary of Analytical Results for Metals – SPLP Leachable Analysis

Location	Analytical Methods	Compounds Detected	Result (mg/L)	RDEC (mg/kg)	I/C DEC (mg/kg)	GB-PMC (mg/L)
Test Pit 2 (0 – 1.5')	SPLP Leachable	Arsenic	0.007	10	10	0.5
		Lead	0.079	400	1,000	0.15
Test Pit 9 North (1 – 3')	SPLP Leachable	Arsenic	< 0.004	10	10	0.5
		Lead	0.015	400	1,000	0.15
Test Pit 9 South (2 – 4')	SPLP Leachable	Arsenic	< 0.004	10	10	0.5
		Lead	< 0.010	400	1,000	0.15
Test Pit 10 (0 – 1.5')	SPLP Leachable	Arsenic	< 0.004	10	10	0.5
		Lead	0.012	400	1,000	0.15

Note: NE = Not Established; ***Bold italics*** = Above regulatory criteria

TABLE 5C. Summary of Analytical Results for Total Lead &amp; Arsenic Metals – Soil

Location	Analytical Methods	Metals Detected	Result Total (mg/kg)	RDEC (mg/kg)	I/C DEC (mg/kg)	GB Pollutant Mobility (mg/l)
Test Pit 1 (0 – 1')	Total Lead & Arsenic	Arsenic	7.24	10	10	0.5
		Lead	<b><i>451</i></b>	400	1,000	0.15
Test Pit 1 (3 – 5')	Total Lead & Arsenic	Arsenic	2.21	10	10	0.5
		Lead	47.5	400	1,000	0.15
Test Pit 2 (0 – 1.5')	Total Lead & Arsenic	Arsenic	<b><i>15.7</i></b>	10	10	0.5
		Lead	<b><i>1,410</i></b>	400	1,000	0.15
Test Pit 3 (0 – 1.5')	Total Lead & Arsenic	Arsenic	3.96	10	10	0.5
		Lead	290	400	1,000	0.15
Test Pit 3 (1.5 – 3')	Total Lead	Lead	104	400	1,000	0.15
Test Pit 5 (0.5 – 2.5')	Total Lead & Arsenic	Arsenic	1.28	10	10	0.5
		Lead	6.51	400	1,000	0.15
Test Pit 6 (0.5 – 2')	Total Lead & Arsenic	Arsenic	2.88	10	10	0.5
		Lead	36.0	400	1,000	0.15
Test Pit 6 (5.5 – 7')	Total Lead & Arsenic	Arsenic	0.79	10	10	0.5
		Lead	7.88	400	1,000	0.15
Test Pit 9 North (1 – 3')	Total Lead & Arsenic	Arsenic	4.09	10	10	0.5
		Lead	272	400	1,000	0.15
Test Pit 9 South (2 – 4')	Total Lead & Arsenic	Arsenic	< 0.68	10	10	0.5
		Lead	5.20	400	1,000	0.15
Test Pit 10 (0 – 1.5')	Total Lead & Arsenic	Arsenic	5.39	10	10	0.5
		Lead	151	400	1,000	0.15
Test Pit 10 (1.5 – 3.5')	Total Lead & Arsenic	Arsenic	5.07	10	10	0.5
		Lead	10.6	400	1,000	0.15

Note: NE = Not Established; ***Bold italics*** = Above regulatory criteria

## **WASTE CHARACTERIZATION SAMPLE**

To assess non-native soil conditions present in Test Pit 7, a composite soil sample was collected from 0.5-4' bg. This test pit contained soils intermixed with debris (i.e. glass, ash, metal & wood) from a former structure. The sample was analyzed for waste characterization parameters. Attached is a copy of the analysis. In brief, TCLP leachable lead was above the RCRA hazardous waste criteria. The mass analysis for lead was also elevated at 9,130 mg/kg. The presence of the lead is likely associated with former building materials. Additionally, various PAH compounds including Benzo(a)anthracene, Benzo(a)pyrene and Chrysene were above regulatory criteria (i.e. RDEC and/or GB PMC).

## **SUMMARY OF FINDINGS, CONCLUSIONS & RECOMMENDATIONS**

On April 22, 2020 ten (10) test pits were installed within four vacant contiguous parcels (formerly 495, 501, 511 and 519 Pacific Street) to characterize soils for future development of the Site. The test pits were installed across representative areas across the Site. Based upon a physical assessment of soils several test pits contain loose fill, others contain former footings and/or building debris. Soils with native/natural soil profiles were also encountered across the Site. The principal visible impact consists of non-native materials present in Test Pit 4 and Test Pit 7 which can be attributed to debris from former building structures.

Representative soil samples were submitted to Phoenix Environmental Laboratories in Manchester, CT for the following analyses: Extractable Total Petroleum Hydrocarbons (ETPH), Volatile Organic Compounds by EPA Method 8260 (VOCs); Semi Volatile Organic Compounds/Polycyclic Aromatic Hydrocarbons by EPA Method 8270 (SVOCs/PAHs); Priority 13 Metal analysis; Total Arsenic and Lead; Polychlorinated biphenyls by EPA Method 8082; Chlorinated Pesticides and Chlorinated Herbicides by EPA Method 8081/8151; and SPLP leachable analysis for arsenic and lead.

In brief, no volatile organic compounds were present in the soil samples submitted for analysis. There were no Polychlorinated biphenyls (PCBs) and no Extractable Total Petroleum Hydrocarbons (ETPH) present in any of the samples submitted for analysis. Similarly, no herbicides or pesticides were detected.

There were, however, varying levels of Polycyclic Aromatic Hydrocarbons/PAHs (i.e. semi-volatile organic compounds) present in Test Pit 3 (4'-6') and Test Pit 7 (0-1') at levels below applicable regulatory criteria. The presence of the PAHs above regulatory criteria in the shallow surface soils from Test Pit 2 (0-1.5') are likely associated with surficial debris present in the soil.

Representative soil samples were analyzed for total arsenic and total lead as well as Priority 13 metals. Surficial soils (0-1.5') from two of the test pits, Test Pit 1 and Test Pit 2, contain levels of lead and/or arsenic above regulatory soil criteria. The presence of these metals appears related to the surface debris observe at both these locations. For

comparison, deeper soil samples from both Test Pit 1 contains much lower levels of both arsenic and lead below regulatory criteria.

Several soil samples ranging in depths from 3 to 6 feet below grade were analyzed for full list of metals (i.e. Priority 13 metals by mass analysis). In general, the sample results for metals in deeper soils (> 3' below grade) were either very low or below limits of laboratory detection. In general, the deeper soils from multiple locations contain levels of metals consistent with native/natural background levels.

In summary, three types of soil were encountered during the installation of the test pits. There are "Native/Natural Soils", "Polluted Soils" and "Contaminated Soils". There was also a fourth category where soils containing TCLP leachable lead exhibit RCRA hazardous waste criteria.

Generally, the presence of M-C sand and gravel correlate with an analytical/testing profile consistent with "Native/Natural Soil". The presence of surficial soils with minor debris generally correlates with presence of "Polluted Soil". The presence of surficial soil intermixed with more visible debris and visible asphalt correlates with the presence of "Contaminated Soil" principally by PAHs and/or metals. Contaminated soils were also encountered where footings and building debris were observed in Test Pit 4.

The soils with elevated levels of total lead and TCLP lead encountered in Test Pit 7 (0.5-4') appear to correlate with the presence of former building debris containing wood and layer of ash. Both Test Pits 4 and 7 encountered remnants of former structures. The only dissimilarity was Test Pit 7 contained more wood and ash, where the wood may have been impacted by former painted surfaces containing lead. A further description of the soil types can be found in **Appendix A**.

To address the handling of the various soil types during site development, a Soils Management Plan will need to be developed that will require additional information about estimated quantities for export and re-use of site soils, part of any development plan. The focus of the Soils Management Plan will be to develop procedures for handling the various soil types and limit the export of soils requiring special handling and disposal. The emphasis would be segregating the various soil types, avoiding co-mingling of soil types and to extent possible on-site reuse of "Polluted Soil".

For purposes of future Soil Management, the Phase I ESA found no evidence to indicate the Site qualifies as an "establishment" subject to the requirements of the state's Transfer Act.

**LIMITATIONS**

HYGENIX, Inc. has performed its services, within the limits stated in the proposal, with the usual thoroughness and competence of the engineering/environmental profession.

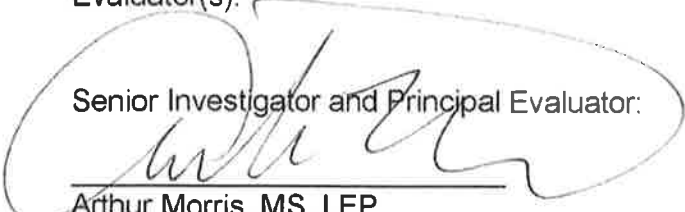
The findings in this report are based upon visual observation of the Site, documents reviewed and physical sampling or monitoring, as described in this report, and applied to Site conditions existing at the time of investigation and those reasonably foreseeable. Our findings cannot necessarily apply to changes to the Site of which this office is not aware and has not had the opportunity to evaluate. The conclusions in this report are professional opinions based solely upon these findings and are intended exclusively for the purpose outlined herein and at the site location or activities indicated. It should be noted that the sampling and testing was limited to areas subject to sampling and testing. The conclusions and recommendations are based upon the findings of this investigation, which may change with new or additional findings. The levels detected have been compared against current soil criteria set-forth in Sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies, and subject to interpretations thereof. For clarification, the materials submitted for analyses consisted of brick, cinder block and concrete. These solid waste materials are not subject to the above-mentioned regulations, and therefore the use of the soil criteria was used for comparison only and as a guide.

This report is for the sole use of our client. The scope of services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users and reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user.

Evaluator(s):

May 29, 2020

Senior Investigator and Principal Evaluator:



Arthur Morris, MS, LEP  
HYGENIX, Inc.

**REFERENCES/BIBLIOGRAPHY (RESOURCES)**

Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professional Paper 1270 by Hansford T. Shacklette and Josephine G. Boerngen

Remediation Standard Regulations, Regulations of Connecticut State Agencies Sections 22a-133k-1 through 22a-133k-3

Soil Survey of Fairfield County, CT, US department of Agriculture, February 1981

Bedrock Geology Map of Connecticut, John Rogers-Yale University 1985

Water Quality Classification Map adopted March 30, 1999 CT DEP

Construction & Demolition Material Processing Facilities, Volume Reduction Plants, prepared by CT DEEP Waste Engineering and Enforcement Division

**APPENDIX A - SOIL CRITERIA**

"Clean/Native/Natural Soil" - soil not containing pollutants, contaminants or hazardous substances and where metal concentrations can be attributed to natural and/or background conditions. "Natural Soil" as defined by RCSA 22a-133k-2(h)(4), means any naturally-occurring substances are present at concentrations not exceeding background levels, and in which no other substance is detectable at a concentration greater than its analytical detection limit. In brief, clean/native/ natural soils are unaffected by a release of a substance.

"Polluted Soil" - soil and/or sediment containing concentrations of VOCs, SVOCs, ETPH, Pesticides and/or Herbicides above analytical detection limits but below regulatory soil criteria contained in the state's Remediation Standard Regulations (RCRA Section 22a-133k-1 through k-3)

"Contaminated Soil" - soil containing concentrations of Metals, VOCs, SVOCs, ETPH, Pesticides and/or Herbicides above regulatory soil criteria contained in the state's Remediation Standard Regulations (RCRA Section 22a-133k-1 through k-3).

The following analytical methods were used for assessing the various soil types: native/natural soil, polluted soil and contaminated soil.

- Volatile Organic Compounds by EPA Method 8260
- Semi-volatile Organic Compounds (SVOCs) by EPA Method 8270
- PCBs by EPA Method 8020
- ETPH by CT DEEP Method
- Priority 13 Metals; Total and SPLP Metals
- Pesticides by EPA Method 8081
- Chlorinated Pesticides and Chlorinated Herbicides by EPA Methods 8151/8081



## Appendix 1. Test Pit Log

Boring Number	Depth (ft)	Description	PID READING PPM
TP-1	0.0' – 1.0'	Top soil with some pieces of wood and trace coal, brick, pieces of asphalt, and trace ash	ND
	1.0' – 2.5'	Dark brown fine-medium sand with some gravel	ND
	2.5' – 3.0'	Light brown fine sand with some coarse sand (appears native)	ND
	3.0' – 5.0'	Light brown to tan medium-coarse sand and gravel (appears native)	ND
	5.0' – 6.0'	Light brown to tan medium-coarse sand and gravel (appears native)	ND
TP-2	0.0' – 1.5'	Topsoil - Dark brown fine-medium loam, some coarse sand and pebbles trace amount of brick and asphalt (@ 0.5')	ND
	1.5' – 3.0'	Tan fine to medium sand with some coarse sand and gravel (appears native)	ND
	3.0' – 4.0'	Tan medium to coarse sand and gravel (appears native)	ND
TP-3	0.0' – 1.5'	Dark brown fine loamy soil with trace amount of brick and tile	ND
	1.5' – 3.0'	Tan medium to coarse sand and gravel (appears native)	ND
	3.0' – 6.0'	Tan medium to coarse sand and gravel (appears native)	ND
TP-4	0.0' – 2.0'	Top soil with building debris	ND
	2.0' – 4.0'	Footings – building debris	ND
	4.0' – 10.0'	Tan coarse sand and gravel to 10'	ND

**Developed 1" Well**

Bottom well at 10.0 feet; 5.0 feet of 2-inch diameter 0.010 slotted PVC screen 5.0 feet of solid riser; natural fill; Flush, metal curb box, set in concrete

TP-5	0.0' – 0.5'	Top soil	ND
	0.5' – 2.5'	Reddish brown medium sand with some coarse and gravel (appears native)	ND
	2.5' – 6.0'	Tan to grey medium-coarse sand with gravel (appears native)	ND

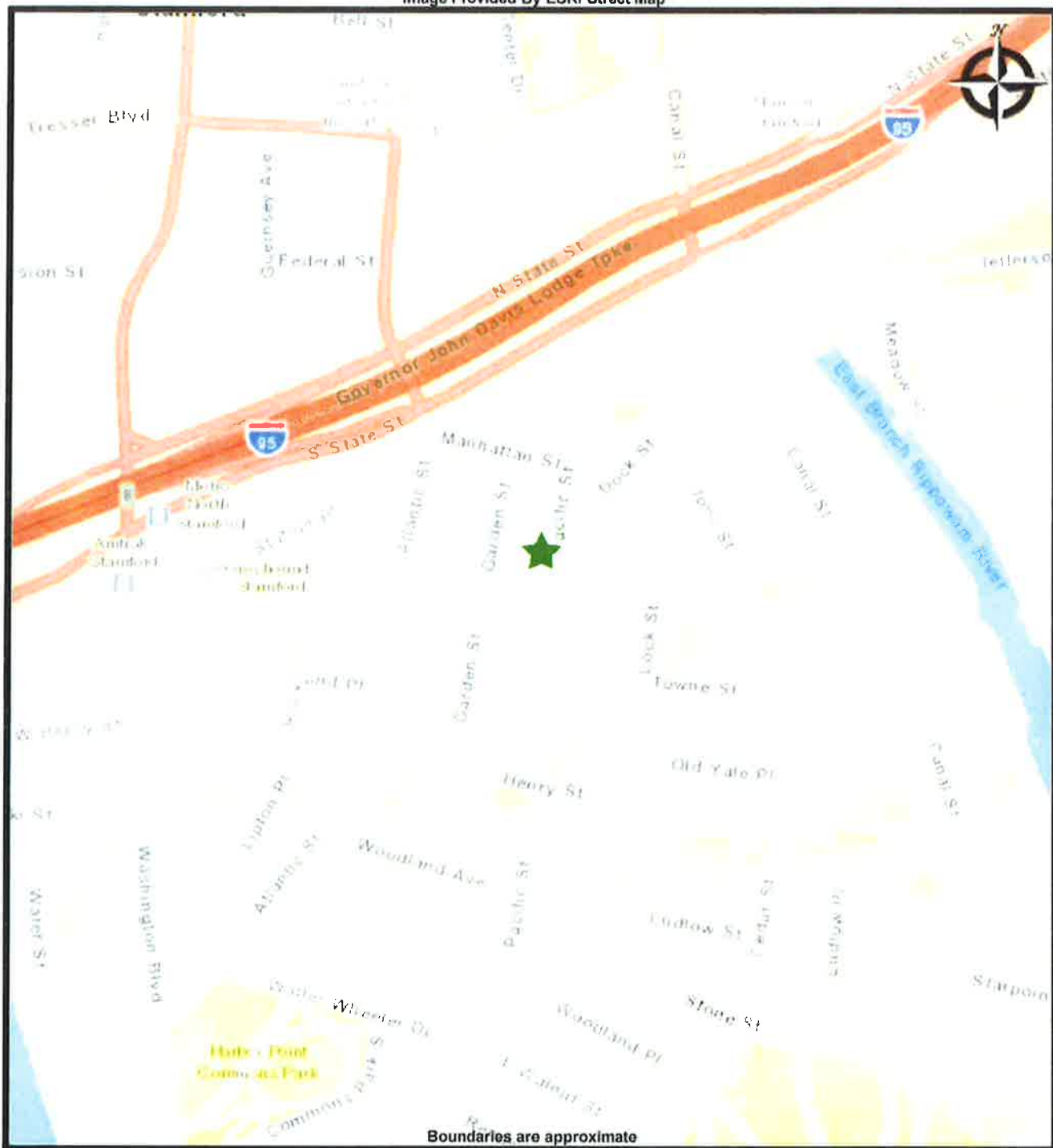
## Appendix 1. Test Pit Log (cont'd)

Boring Number	Depth (ft)	Description	PID READING PPM
TP-6	0.0' – 5.0'	Grass and topsoil, brown to light brown fine and with silt, cut stones, and some medium sand, some ash (at 4.0' – 5.0'); possible foundation	ND
	5.0' – 7.0'	Light brown to light grey coarse sand and gravel (appears native at 5.0')	0.3
TP-7	0.0' – 1.0'	Grass and top soil, brown to grey fine sand with some silt, medium sand, and gravel	ND
	1.0' – 2.0'	Light brown fine sand with some silt, gravel, brick, and cut stone	ND
	2.0' – 4.0'	Ash – dark color with some brick, glass, metal, and wood	ND
	4.0'	Possible concrete slab	ND
	5.0'	Brown to grey coarse sand and gravel	ND
TP-8	0.0' – 1.0'	Topsoil – dark brown loamy fine-medium sand	0.1
	1.0' – 3.0'	Reddish brown fine sand	ND
	3.0' – 4.0'	Reddish brown fine sand (appears native)	ND
TP-9	<u>Northern Part of Test Pit</u>		
	0.4 – 1.0'	Pieces of brick, rubber hose, and wires (appears to be fill material)	ND
	<u>Southern Part of Test Pit</u>		
	0.0' – 2.0'	Top soil	ND
	2.0' – 4.0'	Tan to grey medium-coarse sand and gravel	ND
TP-10	0.0' – 1.5'	Topsoil – brown loam material	ND
	1.5' – 3.5'	Reddish brown fine sand with some silt (appears native)	ND
	3.5' – 5.0'	Tan coarse sand and gravel (appears native)	ND

**LIST OF FIGURES:**

- FIGURE 1: STREET MAP W/SITE LOCATION  
FIGURE 2: USGS MAP W/SITE LOCATION  
FIGURE 3: SKETCH OF SITE DETAILING TEST PIT LOCATIONS

Image Provided By ESRI Street Map



Boundaries are approximate



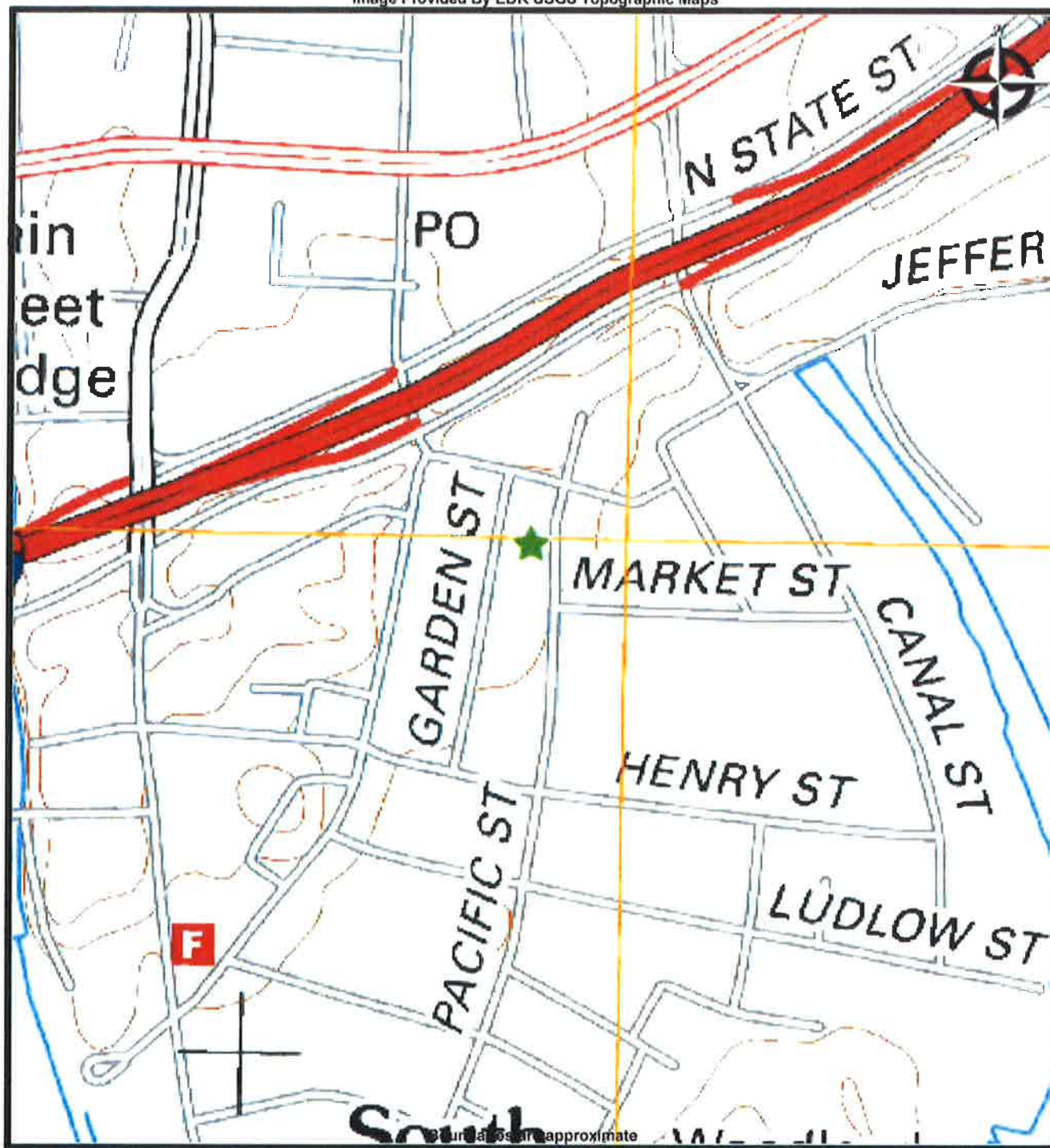
**HYGENIX, INC.**

49 Woodside Street Stamford, CT 06902  
Environmental Consultants & Laboratory Services

**FIGURE 1: STREET MAP**

**495-519 Pacific Street  
Stamford, Connecticut 06902**

Image Provided By EDR USGS Topographic Maps

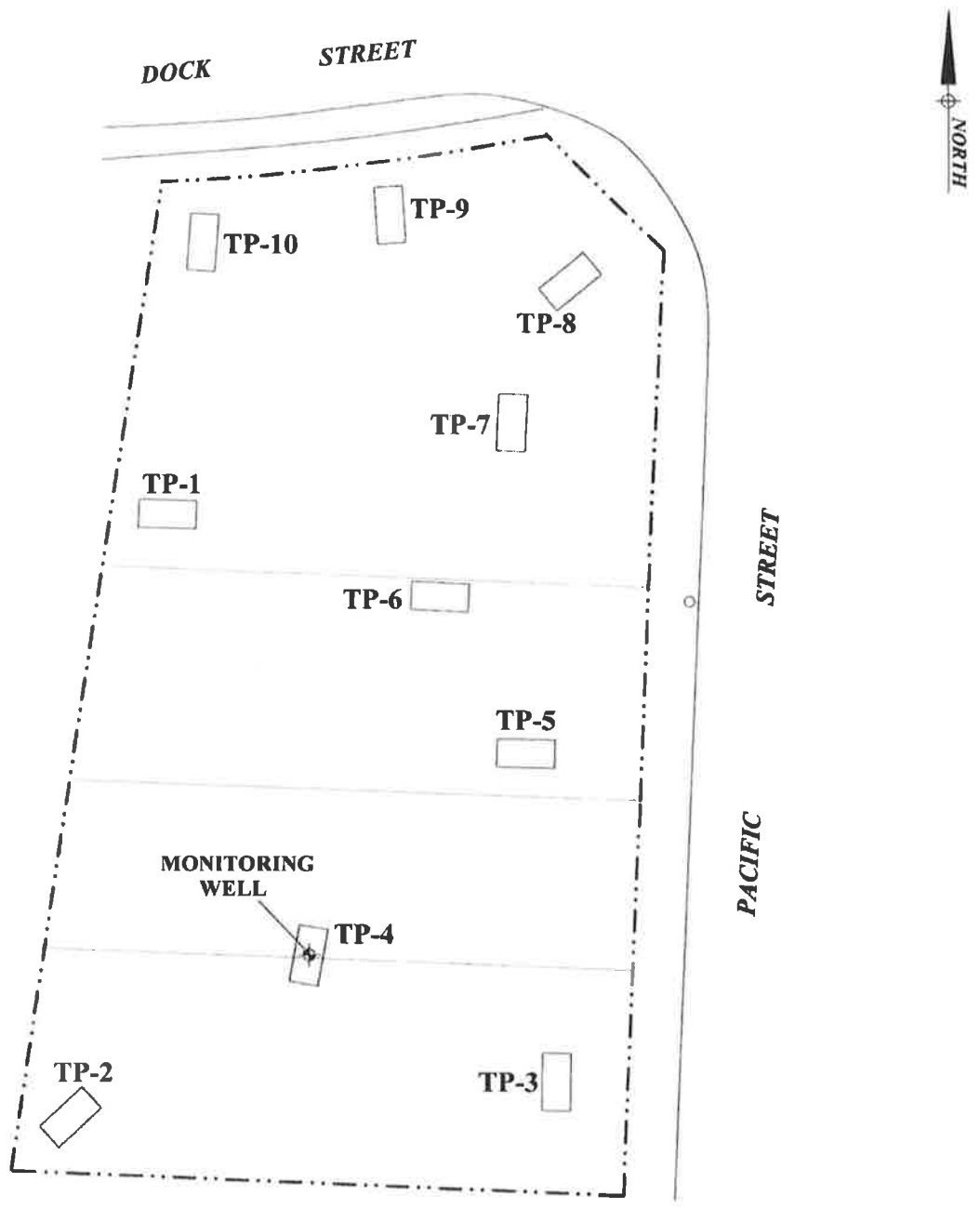


**HYGENIX, INC.**

49 Woodside Street Stamford, CT 06902  
Environmental Consultants & Laboratory Services

FIGURE 2: TOPO MAP

495-519 Pacific Street  
Stamford, Connecticut 06902



<b>LEGEND</b>	
	TP-1 TEST PIT LOCATION
	APPROXIMATE PROPERTY LINE



APPROXIMATE SCALE: 1"=30'

<b>HYGENIX, INC.</b> 49 Woodside Street, Stamford, CT 06902 Phone: (203) 324-2222 Fax: (203) 324- 9857	Figure: 3
	Date: 5/29/2020
	By: PA
Title: TEST PIT LOCATIONS	
Site: 495-519 PACIFIC STREET, STAMFORD, CT	
Client: FRANK STEINAGGER	

**LABORATORY REPORTS**



Thursday, April 30, 2020

Attn: Art Morris  
Hygenix  
49 Woodside St.  
Stamford, CT 06902

Project ID: 495-519 PACIFIC ST STAMFORD CT  
SDG ID: GCF78704  
Sample ID#s: CF78704 - CF78719

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 are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller".

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

## Sample Id Cross Reference

April 30, 2020

SDG I.D.: GCF78704

Project ID: 495-519 PACIFIC ST STAMFORD CT

---

Client Id	Lab Id	Matrix
TP-1 (0-1')	CF78704	SOIL
TP-1 (3-5')	CF78705	SOIL
TP-2 (0-1.5')	CF78706	SOIL
TP-2 (1.5-4')	CF78707	SOIL
TP-3 (0-1.5')	CF78708	SOIL
TP-3 (1.5-3')	CF78709	SOIL
TP-3 (4-6')	CF78710	SOIL
TP-5 (0.5-2.5')	CF78711	SOIL
TP-6 (0.5-2')	CF78712	SOIL
TP-6 (5.5-7')	CF78713	SOIL
TP-7 (5-6')	CF78714	SOIL
TP-8 (0-1')	CF78715	SOIL
TP-9 NORTH (1'-3')	CF78716	SOIL
TP-9 SOUTH (2'-4')	CF78717	SOIL
TP-10 (0-1.5')	CF78718	SOIL
TP-10 (1.5'-3.5')	CF78719	SOIL



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

**Analysis Report**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date            Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78704

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-1 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	7.24	0.80	mg/Kg	1	04/25/20	EK	SW8010D
Lead	451	0.40	mg/Kg	1	04/25/20	EK	SW8010D
Percent Solid	84		%		04/24/20	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	0.78	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.87	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	0.83	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	0.56	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	0.73	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	0.8	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	1.3	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.6	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	0.67	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	1.2	0.28	mg/Kg	1	04/25/20	WB	SW8270D

QA/QC Surrogates

% 2-Fluorobiphenyl	73		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	69		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	76		%	1	04/25/20	WB	30 - 130 %

Project ID: 495-519 PACIFIC ST STAMFORD CT  
Client ID: TP-1 (0-1')

Phoenix I.D.: CF78704

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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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 you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.  
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78705

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-1 (3-5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	2.21	0.73	mg/Kg	1	04/25/20	EK	SW6010D
Beryllium	0.30	0.29	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	0.54	0.36	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	25.9	0.36	mg/Kg	1	04/25/20	EK	SW6010D
Copper	24.2	0.7	mg/kg	1	04/25/20	EK	SW6010D
Mercury	0.25	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Nickel	13.0	0.36	mg/Kg	1	04/25/20	EK	SW6010D
Lead	47.5	0.36	mg/Kg	1	04/25/20	EK	SW6010D
Antimony	< 3.6	3.6	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/25/20	EK	SW6010D
Thallium	< 3.3	3.3	mg/Kg	1	04/25/20	EK	SW6010D
Zinc	37.8	0.7	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	94		%		04/24/20	VT	SW846-%Solid
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B

Project ID: 495-519 PACIFIC ST STAMFORD CT  
Client ID: TP-1 (3-5')

Phoenix I.D.: CF78705

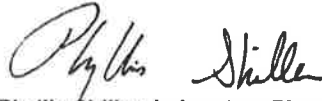
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

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

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Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78706

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-2 (0-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	15.7	0.83	mg/Kg	1	04/25/20	EK	SW6010D
Lead	1410	42	mg/Kg	100	04/28/20	TH	SW6010D
SPLP Arsenic	0.007	0.004	mg/L	1	04/27/20	EK	SW6010D
SPLP Lead	0.079	0.010	mg/L	1	04/27/20	EK	SW6010D
SPLP Metals Digestion	Completed				04/27/20	W/RA	SW3010A
Percent Solid	77		%		04/24/20	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
SPLP Extraction for Metals	Completed				04/24/20	W	SW1312
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	0.44	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	0.52	0.44	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	2	0.44	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	3.3	0.44	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	15	4.4	mg/Kg	10	04/27/20	WB	SW8270D
Benzo(a)pyrene	15	4.4	mg/Kg	10	04/27/20	WB	SW8270D
Benzo(b)fluoranthene	14	4.4	mg/Kg	10	04/27/20	WB	SW8270D
Benzo(ghi)perylene	6.8	0.44	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	7.1	0.44	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	14	4.4	mg/Kg	10	04/27/20	WB	SW8270D
Dibenz(a,h)anthracene	2.4	0.44	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	29	4.4	mg/Kg	10	04/27/20	WB	SW8270D
Fluorene	0.81	0.44	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	7.6	0.44	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.44	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	9.3	0.44	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	26	4.4	mg/Kg	10	04/27/20	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b>QA/QC Surrogates</b>							
% 2-Fluorobiphenyl	75		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	83		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	82		%	1	04/25/20	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	04/27/20	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	04/27/20	WB	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	04/27/20	WB	30 - 130 %

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

**Comments:**

SPLP Non-Volatile Extraction:  
Sample weight was < 100 grams (the minimum requirement of the method to insure homogeneity).

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Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78707

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-2 (1.5-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/24/20	LL/E	SW3545A
Soil Extraction for Herbicide	Completed				04/24/20	J/D	SW8151A

**Chlorinated Herbicides**

2,4,5-T	ND	0.088	mg/Kg	10	04/27/20	JRB	SW8151A
2,4,5-TP (Silvex)	ND	0.088	mg/Kg	10	04/27/20	JRB	SW8151A
2,4-D	ND	0.18	mg/Kg	10	04/27/20	JRB	SW8151A
2,4-DB	ND	1.8	mg/Kg	10	04/27/20	JRB	SW8151A
Dalapon	ND	0.088	mg/Kg	10	04/27/20	JRB	SW8151A
Dicamba	ND	0.088	mg/Kg	10	04/27/20	JRB	SW8151A
Dichloroprop	ND	0.18	mg/Kg	10	04/27/20	JRB	SW8151A
Dinoseb	ND	0.18	mg/Kg	10	04/27/20	JRB	SW8151A

**QA/QC Surrogates**

% DCAA	70		%	10	04/27/20	JRB	30 - 150 %
% DCAA (Confirmation)	69		%	10	04/27/20	JRB	30 - 150 %

**Pesticides**

4,4' -DDD	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
4,4' -DDE	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
4,4' -DDT	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
a-BHC	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
Alachlor	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
Aldrin	ND	0.0035	mg/Kg	2	04/28/20	CG	SW8081B
b-BHC	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
Chlordane	ND	0.035	mg/Kg	2	04/28/20	CG	SW8081B
d-BHC	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
Dieldrin	ND	0.0035	mg/Kg	2	04/28/20	CG	SW8081B



Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan I	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan II	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan sulfate	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
Endrin	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
Endrin aldehyde	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
Endrin ketone	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
g-BHC	ND	0.0014	mg/Kg	2	04/28/20	CG	SW8081B
Heptachlor	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
Heptachlor epoxide	ND	0.0071	mg/Kg	2	04/28/20	CG	SW8081B
Methoxychlor	ND	0.035	mg/Kg	2	04/28/20	CG	SW8081B
Toxaphene	ND	0.14	mg/Kg	2	04/28/20	CG	SW8081B
<b><u>QA/QC Surrogates</u></b>							
% DCBP	66		%	2	04/28/20	CG	30 - 150 %
% DCBP (Confirmation)	58		%	2	04/28/20	CG	30 - 150 %
% TCMX	60		%	2	04/28/20	CG	30 - 150 %
% TCMX (Confirmation)	60		%	2	04/28/20	CG	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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**Comments:**

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Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78708

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-3 (0-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.96	0.80	mg/Kg	1	04/25/20	EK	SW6010D
Lead	290	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	83		%		04/24/20	VT	SW846-%Solid
Soil Extraction for PCB	Completed				04/27/20	VV/AA	SW3545A
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	0.4	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1221	ND	0.4	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1232	ND	0.4	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1242	ND	0.4	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1248	ND	0.4	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1254	ND	0.4	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1260	ND	0.4	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1262	ND	0.4	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1268	ND	0.4	mg/Kg	10	04/28/20	SC	SW8082A

QA/QC Surrogates

% DCBP	67		%	10	04/28/20	SC	30 - 150 %
% DCBP (Confirmation)	66		%	10	04/28/20	SC	30 - 150 %
% TCMX	64		%	10	04/28/20	SC	30 - 150 %
% TCMX (Confirmation)	62		%	10	04/28/20	SC	30 - 150 %

Project ID: 495-519 PACIFIC ST STAMFORD CT  
Client ID: TP-3 (0-1.5')

Phoenix I.D.: CF78708

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

**Comments:**

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Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78709

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-3 (1.5-3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	104	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	93		%		04/24/20	VT	SW846-%Solid
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

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Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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

April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

### Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

### Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date: 04/23/20  
 Time: 04/24/20 14:17

## Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78710

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-3 (4-6')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	04/25/20	EK	SW8010D
Arsenic	1.16	0.65	mg/Kg	1	04/25/20	EK	SW8010D
Beryllium	0.29	0.26	mg/Kg	1	04/25/20	EK	SW8010D
Cadmium	0.50	0.33	mg/Kg	1	04/25/20	EK	SW8010D
Chromium	11.1	0.33	mg/Kg	1	04/25/20	EK	SW8010D
Copper	14.4	0.7	mg/kg	1	04/25/20	EK	SW8010D
Mercury	< 0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Nickel	12.1	0.33	mg/Kg	1	04/25/20	EK	SW8010D
Lead	21.3	0.33	mg/Kg	1	04/25/20	EK	SW8010D
Antimony	< 3.3	3.3	mg/Kg	1	04/25/20	EK	SW8010D
Selenium	< 1.3	1.3	mg/Kg	1	04/25/20	EK	SW8010D
Thallium	< 2.9	2.9	mg/Kg	1	04/25/20	EK	SW8010D
Zinc	48.7	0.7	mg/Kg	1	04/25/20	EK	SW8010D
Percent Solid	97		%		04/24/20	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B

### Polynuclear Aromatic HC

2-Methylnaphthalene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	0.74	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.82	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	0.62	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	0.3	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	0.6	0.24	mg/Kg	1	04/25/20	WB	SW8270D

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	0.64	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.79	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.37	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.74	0.24	mg/Kg	1	04/25/20	WB	SW8270D
<b>QA/QC Surrogates</b>							
% 2-Fluorobiphenyl	74		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	71		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	77		%	1	04/25/20	WB	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:**

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Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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

April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

## Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

## Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

## Date

04/23/20  
 04/24/20 14:17

## Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78711

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-5 (0.5-2.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.28	0.72	mg/Kg	1	04/25/20	EK	SW6010D
Lead	6.51	0.36	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	94		%		04/24/20	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Extraction of CT ETPH	Completed				04/24/20	GG/MA	SW3545A
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B

## TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D

## QA/QC Surrogates

% n-Pentacosane	73		%	1	04/25/20	JRB	50 - 150 %
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## Polynuclear Aromatic HC

2-Methylnaphthalene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	ND	0.24	mg/Kg	1	04/25/20	WB	SW8270D
<b><u>QA/QC Surrogates</u></b>							
% 2-Fluorobiphenyl	67		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	66		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	79		%	1	04/25/20	WB	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:**

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Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78712

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-6 (0.5-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.88	0.71	mg/Kg	1	04/25/20	EK	SW6010D
Lead	36.0	0.36	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	88		%		04/24/20	VT	SW846-%Solid
Extraction of CT ETPH	Completed				04/24/20	GG/MA	SW3545A
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	76		%	1	04/25/20	JRB	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78713

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-6 (5.5-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	0.79	0.73	mg/Kg	1	04/25/20	EK	SW6010D
Lead	7.88	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	96		%		04/24/20	VT	SW846-%Solid
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0028	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Hexanone	ND	0.022	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.022	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.22	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Benzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.026	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0088	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0088	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0088	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0088	mg/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0088	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: 495-519 PACIFIC ST STAMFORD CT  
Client ID: TP-6 (5.5-7')

Phoenix I.D.: CF78713

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	99		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	04/25/20	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	98		%	1	04/25/20	JLI	70 - 130 %
Field Extraction	Completed				04/23/20		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded 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 you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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**

April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date Time

04/23/20  
 04/24/20 14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78714

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-7 (5-6')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	0.90	0.66	mg/Kg	1	04/25/20	EK	SW6010D
Beryllium	< 0.26	0.26	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	0.42	0.33	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	14.5	0.33	mg/Kg	1	04/25/20	EK	SW6010D
Copper	17.1	0.7	mg/kg	1	04/25/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Nickel	11.5	0.33	mg/Kg	1	04/25/20	EK	SW6010D
Lead	5.07	0.33	mg/Kg	1	04/25/20	EK	SW6010D
Antimony	< 3.3	3.3	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	04/25/20	EK	SW6010D
Thallium	< 3.0	3.0	mg/Kg	1	04/25/20	EK	SW6010D
Zinc	136	0.7	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	97		%		04/24/20	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	ND	0.23	mg/Kg	1	04/25/20	WB	SW8270D
<b>QA/QC Surrogates</b>							
% 2-Fluorobiphenyl	59		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	58		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	78		%	1	04/25/20	WB	30 - 130 %

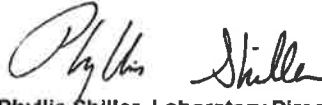
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded 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 you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78715

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-8 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		04/24/20	VT	SW846-%Solid

**Volatiles**

1,1,1,2-Tetrachloroethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0034	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
2-Hexanone	ND	0.028	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.028	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.28	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Benzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0034	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.034	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.011	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.011	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.011	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.011	mg/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.011	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0057	mg/Kg	1	04/25/20	JLI	SW8260C
<b>QA/QC Surrogates</b>							
% 1,2-dichlorobenzene-d4	99		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	04/25/20	JLI	70 - 130 %



Project ID: 495-519 PACIFIC ST STAMFORD CT  
Client ID: TP-8 (0-1')

Phoenix I.D.: CF78715

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	102		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	95		%	1	04/25/20	JLI	70 - 130 %
Field Extraction	Completed				04/23/20		SW5035A

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

**Comments:**

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Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78716

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-9 NORTH (1'-3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.09	0.73	mg/Kg	1	04/27/20	TH	SW6010D
Lead	272	0.37	mg/Kg	1	04/27/20	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	04/27/20	EK	SW6010D
SPLP Lead	0.015	0.010	mg/L	1	04/27/20	EK	SW6010D
SPLP Metals Digestion	Completed				04/27/20	W/RA	SW3010A
Percent Solid	84		%		04/24/20	VT	SW846-%Solid
Soil Extraction for PCB	Completed				04/27/20	VV/AA	SW3545A
SPLP Extraction for Metals	Completed				04/24/20	W	SW1312
Total Metals Digest	Completed				04/24/20	3/AG/MGF	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1221	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1232	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1242	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1248	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1254	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1260	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1262	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1268	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A

QA/QC Surrogates

% DCBP	67		%	10	04/28/20	SC	30 - 150 %
% DCBP (Confirmation)	63		%	10	04/28/20	SC	30 - 150 %
% TCMX	68		%	10	04/28/20	SC	30 - 150 %
% TCMX (Confirmation)	66		%	10	04/28/20	SC	30 - 150 %

Project ID: 495-519 PACIFIC ST STAMFORD CT  
Client ID: TP-9 NORTH (1'-3')

Phoenix I.D.: CF78716

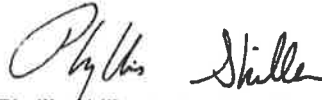
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis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

**Comments:**

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Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78717

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-9 SOUTH (2'-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	< 0.68	0.68	mg/Kg	1	04/27/20	TH	SW6010D
Lead	5.20	0.34	mg/Kg	1	04/27/20	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	04/27/20	EK	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	04/27/20	EK	SW6010D
SPLP Metals Digestion	Completed				04/27/20	W/RA	SW3010A
Percent Solid	95		%		04/24/20	VT	SW846-%Solid
SPLP Extraction for Metals	Completed				04/24/20	W	SW1312
Total Metals Digest	Completed				04/24/20	3/AG/MGF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

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Phyllis Shiller, Laboratory Director  
 April 30, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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

**Analysis Report**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78718

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-10 (0-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.39	0.69	mg/Kg	1	04/27/20	TH	SW6010D
Lead	151	0.35	mg/Kg	1	04/27/20	TH	SW6010D
SPLP Arsenic	< 0.004	0.004	mg/L	1	04/27/20	EK	SW6010D
SPLP Lead	0.012	0.010	mg/L	1	04/27/20	EK	SW6010D
SPLP Metals Digestion	Completed				04/27/20	W/RA	SW3010A
Percent Solid	88		%		04/24/20	VT	SW846-%Solid
Extraction of CT ETPH	Completed				04/24/20	GG/MA	SW3545A
SPLP Extraction for Metals	Completed				04/24/20	W	SW1312
Total Metals Digest	Completed				04/24/20	3/AG/MGF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	100	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	64		%	1	04/25/20	JRB	50 - 150 %
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Project ID: 495-519 PACIFIC ST STAMFORD CT  
Client ID: TP-10 (0-1.5')

Phoenix I.D.: CF78718

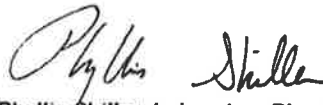
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level  
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis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

**Comments:**

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Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, 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**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78704  
 Phoenix ID: CF78719

Project ID: 495-519 PACIFIC ST STAMFORD CT  
 Client ID: TP-10 (1.5'-3.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.07	0.80	mg/Kg	1	04/27/20	TH	SW6010D
Lead	10.6	0.40	mg/Kg	1	04/27/20	TH	SW6010D
Percent Solid	81		%		04/24/20	VT	SW846-%Solid
Total Metals Digest	Completed				04/24/20	S/AG/MGF	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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## QA/QC Report

April 30, 2020

### QA/QC Data

SDG I.D.: GCF78704

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 527775 (mg/kg), QC Sample No: CF78788 2X (CF78705, CF78710, CF78714)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	107	102	4.8	101	94.3	6.9	70 - 130	30

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 527667 (mg/kg), QC Sample No: CF78703 (CF78704, CF78705, CF78706, CF78708, CF78709, CF78710, CF78711, CF78712, CF78713, CF78714)

#### ICP Metals - Soil

Antimony	BRL	3.3	<4.2	<4.0	NC	121	102	17.0	92.7			75 - 125	35
Arsenic	BRL	0.67	4.15	4.26	2.60	113	93.3	19.1	95.2			75 - 125	35
Beryllium	BRL	0.27	0.34	0.39	NC	110	90.6	19.3	106			75 - 125	35
Cadmium	BRL	0.33	3.35	4.21	22.8	113	89.9	22.8	101			75 - 125	35
Chromium	BRL	0.33	27.1	24.7	9.30	111	90.9	19.9	97.9			75 - 125	35
Copper	BRL	0.67	55.3	54.0	2.40	105	86.6	19.2	108			75 - 125	35
Lead	BRL	0.33	9130	2520	114	109	90.2	18.9	NC			75 - 125	35
Nickel	BRL	0.33	17.7	16.9	4.60	111	92.0	18.7	97.6			75 - 125	35
Selenium	BRL	1.3	<1.7	<1.6	NC	108	89.0	19.3	79.8			75 - 125	35
Silver	BRL	0.33	<0.42	<0.40	NC	104	86.3	18.6	100			75 - 125	35
Thallium	BRL	3.0	<3.7	<3.6	NC	110	92.4	17.4	103			75 - 125	35
Zinc	BRL	0.67	798	725	9.60	109	91.1	17.9	NC			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 527759 (mg/L), QC Sample No: CF78706 (CF78706, CF78716, CF78717, CF78718, CF78719)

#### ICP Metals - SPLP Extraction

Arsenic	BRL	0.004	0.007	0.008	NC	106	103	2.9	103			80 - 120	20
Lead	BRL	0.010	0.079	0.079	0	100	97.6	2.4	97.5			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 527694 (mg/kg), QC Sample No: CF78716 (CF78716, CF78717, CF78718, CF78719)

#### ICP Metals - Soil

Arsenic	BRL	0.67	4.09	4.15	1.50	92.3	104	11.9	101			75 - 125	35
Lead	BRL	0.33	272	192	34.5	87.9	97.6	10.5	77.1			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

r = This parameter is outside laboratory RPD specified recovery limits.





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

## QA/QC Report

April 30, 2020

### QA/QC Data

SDG I.D.: GCF78704

Parameter	Blk		LCS %	LCS %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 527641 (mg/Kg), QC Sample No: CF78712 (CF78711, CF78712, CF78718)										
<u>TPH by GC (Extractable Products) - Soil</u>										
Ext. Petroleum H.C. (C9-C36)	ND	50	88	85	3.5	112	82	30.9	60 - 120	30
% n-Pentacosane	67	%	71	69	2.9	92	71	25.8	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 527654 (mg/Kg), QC Sample No: CF79108 10X (CF78707)										
<u>Chlorinated Herbicides - Soil</u>										
2,4,5-T	ND	0.083	92	83	10.3	82	82	0.0	40 - 140	30
2,4,5-TP (Silvex)	ND	0.083	88	77	13.3	78	78	0.0	40 - 140	30
2,4-D	ND	0.17	91	83	9.2	79	81	2.5	40 - 140	30
2,4-DB	ND	1.7	83	74	11.5	74	74	0.0	40 - 140	30
Delepon	ND	0.083	63	60	4.9	64	66	3.1	40 - 140	30
Dicamba	ND	0.083	91	84	8.0	79	79	0.0	40 - 140	30
Dichloroprop	ND	0.083	103	94	9.1	90	89	1.1	40 - 140	30
Dinoseb	ND	0.083	80	77	3.8	74	74	0.0	40 - 140	30
% DCAA (Surrogate Rec)	51	%	70	65	7.4	62	62	0.0	30 - 150	30
% DCAA (Surrogate Rec) (Confirm)	48	%	68	64	6.1	61	56	8.5	30 - 150	30
Comment:										
Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.										
QA/QC Batch 527814 (mg/Kg), QC Sample No: CF79545 2X (CF78708, CF78716)										
<u>Polychlorinated Biphenyls - Soil</u>										
PCB-1016	ND	0.033	71	69	2.9	65	58	11.4	40 - 140	30
PCB-1221	ND	0.033							40 - 140	30
PCB-1232	ND	0.033							40 - 140	30
PCB-1242	ND	0.033							40 - 140	30
PCB-1248	ND	0.033							40 - 140	30
PCB-1254	ND	0.033							40 - 140	30
PCB-1260	ND	0.033	69	67	2.9	63	57	10.0	40 - 140	30
PCB-1262	ND	0.033							40 - 140	30
PCB-1268	ND	0.033							40 - 140	30
% DCBP (Surrogate Rec)	70	%	76	76	0.0	66	62	6.3	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	70	%	79	77	2.6	68	62	9.2	30 - 150	30
% TCMX (Surrogate Rec)	70	%	77	74	4.0	67	59	12.7	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	68	%	78	75	3.9	67	59	12.7	30 - 150	30
QA/QC Batch 527624 (mg/Kg), QC Sample No: CF78647 2X (CF78707)										
<u>Pesticides - Soil</u>										
4,4' -DDD	ND	0.0017	68	87	24.5	81	76	6.4	40 - 140	30
4,4' -DDE	ND	0.0017	64	84	27.0	80	76	5.1	40 - 140	30
4,4' -DDT	ND	0.0017	64	91	34.8	83	80	3.7	40 - 140	30

**QA/QC Data**

SDG I.D.: GCF78704

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
a-BHC	ND	0.001	59	74	22.6	67	68	1.5	40 - 140	30
Alachlor	ND	0.0033	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	0.001	61	75	20.6	67	70	4.4	40 - 140	30
b-BHC	ND	0.001	66	81	20.4	105	81	25.8	40 - 140	30
Chlordane	ND	0.033	64	79	21.0	75	72	4.1	40 - 140	30
d-BHC	ND	0.0033	57	72	23.3	67	66	1.5	40 - 140	30
Dieldrin	ND	0.001	64	83	25.9	77	74	4.0	40 - 140	30
Endosulfan I	ND	0.0033	68	84	21.1	79	75	5.2	40 - 140	30
Endosulfan II	ND	0.0033	68	88	25.6	80	77	3.8	40 - 140	30
Endosulfan sulfate	ND	0.0033	67	86	24.8	79	74	6.5	40 - 140	30
Endrin	ND	0.0033	64	85	28.2	80	76	5.1	40 - 140	30
Endrin aldehyde	ND	0.0033	60	73	19.5	74	57	26.0	40 - 140	30
Endrin ketone	ND	0.0033	66	84	24.0	77	71	8.1	40 - 140	30
g-BHC	ND	0.001	56	77	31.6	71	71	0.0	40 - 140	30
Heptachlor	ND	0.0033	59	74	22.6	71	74	4.1	40 - 140	30
Heptachlor epoxide	ND	0.0033	61	78	24.5	73	70	4.2	40 - 140	30
Methoxychlor	ND	0.0033	64	94	38.0	124	118	5.0	40 - 140	30
Toxaphene	ND	0.13	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	75	%	72	84	15.4	78	73	6.6	30 - 150	30
% DCBP (Confirmation)	85	%	86	96	11.0	88	80	9.5	30 - 150	30
% TCMX	61	%	63	65	3.1	63	64	1.6	30 - 150	30
% TCMX (Confirmation)	61	%	65	66	1.5	63	64	1.6	30 - 150	30

QA/QC Batch 527622 (mg/Kg), QC Sample No: CF78704 (CF78704, CF78706, CF78710, CF78711, CF78714)

**Polynuclear Aromatic HC - Soil**

2-Methylnaphthalene	ND	0.23			73		76	64	17.1	40 - 140	30
Acenaphthene	ND	0.23			80		78	70	10.8	30 - 130	30
Acenaphthylene	ND	0.23			75		74	65	12.9	40 - 140	30
Anthracene	ND	0.23			79		82	70	15.8	40 - 140	30
Benz(a)anthracene	ND	0.23			78		86	70	20.5	40 - 140	30
Benzo(a)pyrene	ND	0.23			79		83	67	21.3	40 - 140	30
Benzo(b)fluoranthene	ND	0.23			94		102	77	27.9	40 - 140	30
Benzo(ghi)perylene	ND	0.23			58		66	54	20.0	40 - 140	30
Benzo(k)fluoranthene	ND	0.23			56		61	47	25.9	40 - 140	30
Chrysene	ND	0.23			79		84	70	18.2	40 - 140	30
Dibenz(a,h)anthracene	ND	0.23			72		75	58	25.6	40 - 140	30
Fluoranthene	ND	0.23			78		93	68	31.1	40 - 140	30
Fluorene	ND	0.23			76		76	68	11.1	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	0.23			66		73	54	29.9	40 - 140	30
Naphthalene	ND	0.23			68		67	58	14.4	40 - 140	30
Phenanthrene	ND	0.23			78		105	82	24.6	40 - 140	30
Pyrene	ND	0.23			78		88	69	24.2	30 - 130	30
% 2-Fluorobiphenyl	56	%			63		65	58	11.4	30 - 130	30
% Nitrobenzene-d5	50	%			66		63	54	15.4	30 - 130	30
% Terphenyl-d14	76	%			75		69	60	14.0	30 - 130	30

Comment:

This Batch consists of 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 527807 (mg/Kg), QC Sample No: CF78688 (CF78713, CF78715)

**Volatiles - Soil (Low Level)**

1,1,1,2-Tetrachloroethane	ND	0.005			107	107	0.0	112	90	21.8	70 - 130	30
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## QA/QC Data

SDG I.D.: GCF78704

Parameter	Blank	Bik RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1-Trichloroethane	ND	0.005	102	101	1.0	109	103	5.7	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	101	105	3.9	123	83	38.8	70 - 130	30	r
1,1,2-Trichloroethane	ND	0.005	98	97	1.0	98	86	13.0	70 - 130	30	
1,1-Dichloroethane	ND	0.005	102	102	0.0	105	97	7.9	70 - 130	30	
1,1-Dichloroethene	ND	0.005	102	101	1.0	109	104	4.7	70 - 130	30	
1,1-Dichloropropene	ND	0.005	99	96	3.1	99	95	4.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	94	97	3.1	52	34	41.9	70 - 130	30	m,r
1,2,3-Trichloropropane	ND	0.005	96	98	2.1	128	83	42.7	70 - 130	30	r
1,2,4-Trichlorobenzene	ND	0.005	97	97	0.0	57	38	40.0	70 - 130	30	m,r
1,2,4-Trimethylbenzene	ND	0.001	99	99	0.0	85	62	31.3	70 - 130	30	m,r
1,2-Dibromo-3-chloropropane	ND	0.005	112	112	0.0	115	81	34.7	70 - 130	30	r
1,2-Dibromoethane	ND	0.005	100	102	2.0	108	88	20.4	70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	97	98	1.0	81	53	41.8	70 - 130	30	m,r
1,2-Dichloroethane	ND	0.005	101	102	1.0	108	95	12.8	70 - 130	30	
1,2-Dichloropropane	ND	0.005	97	98	1.0	102	88	14.7	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	101	101	0.0	100	70	35.3	70 - 130	30	r
1,3-Dichlorobenzene	ND	0.005	98	98	0.0	93	60	43.1	70 - 130	30	m,r
1,3-Dichloropropane	ND	0.005	101	100	1.0	109	90	19.1	70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	94	94	0.0	88	57	42.8	70 - 130	30	m,r
2,2-Dichloropropane	ND	0.005	108	102	5.7	112	106	5.5	70 - 130	30	
2-Chlorotoluene	ND	0.005	98	98	0.0	98	69	34.7	70 - 130	30	m,r
2-Hexanone	ND	0.025	110	110	0.0	112	98	13.3	70 - 130	30	
2-Isopropyltoluene	ND	0.005	102	101	1.0	96	66	37.0	70 - 130	30	m,r
4-Chlorotoluene	ND	0.005	95	96	1.0	99	66	40.0	70 - 130	30	m,r
4-Methyl-2-pentanone	ND	0.025	111	114	2.7	114	104	9.2	70 - 130	30	
Acetone	ND	0.01	93	94	1.1	75	61	20.6	70 - 130	30	m
Acrylonitrile	ND	0.005	101	103	2.0	103	92	11.3	70 - 130	30	
Benzene	ND	0.001	102	100	2.0	102	95	7.1	70 - 130	30	
Bromobenzene	ND	0.005	98	99	1.0	109	70	43.6	70 - 130	30	r
Bromochloromethane	ND	0.005	99	101	2.0	105	93	12.1	70 - 130	30	
Bromodichloromethane	ND	0.005	108	107	0.9	110	96	13.6	70 - 130	30	
Bromoform	ND	0.005	111	113	1.8	107	86	21.8	70 - 130	30	
Bromomethane	ND	0.005	115	116	0.9	131	118	10.4	70 - 130	30	m
Carbon Disulfide	ND	0.005	104	103	1.0	103	99	4.0	70 - 130	30	
Carbon tetrachloride	ND	0.005	111	95	15.5	98	93	5.2	70 - 130	30	
Chlorobenzene	ND	0.005	100	99	1.0	99	82	18.8	70 - 130	30	
Chloroethane	ND	0.005	104	101	2.9	112	103	8.4	70 - 130	30	
Chloroform	ND	0.005	101	100	1.0	105	96	9.0	70 - 130	30	
Chloromethane	ND	0.005	96	97	1.0	98	93	5.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	98	98	0.0	100	91	9.4	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	103	104	1.0	100	87	13.9	70 - 130	30	
Dibromochloromethane	ND	0.003	111	113	1.8	116	96	18.9	70 - 130	30	
Dibromomethane	ND	0.005	99	100	1.0	102	90	12.5	70 - 130	30	
Dichlorodifluoromethane	ND	0.005	101	100	1.0	106	105	0.9	70 - 130	30	
Ethylbenzene	ND	0.001	102	101	1.0	99	86	14.1	70 - 130	30	
Hexachlorobutadiene	ND	0.005	100	98	2.0	59	40	38.4	70 - 130	30	m,r
Isopropylbenzene	ND	0.001	99	100	1.0	109	77	34.4	70 - 130	30	r
m&p-Xylene	ND	0.002	100	99	1.0	92	82	11.5	70 - 130	30	
Methyl ethyl ketone	ND	0.005	95	105	10.0	105	98	6.9	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	98	100	2.0	107	93	14.0	70 - 130	30	
Methylene chloride	ND	0.005	95	94	1.1	100	89	11.6	70 - 130	30	
Naphthalene	ND	0.005	102	104	1.9	31	20	43.1	70 - 130	30	m,r
n-Butylbenzene	ND	0.001	100	99	1.0	83	57	37.1	70 - 130	30	m,r

QA/QC Data

SDG I.D.: GCF78704

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
n-Propylbenzene	ND	0.001	99	99	0.0	105	72	37.3	70 - 130	30	r
o-Xylene	ND	0.002	102	102	0.0	94	80	16.1	70 - 130	30	
p-Isopropyltoluene	ND	0.001	101	102	1.0	96	65	38.5	70 - 130	30	m,r
sec-Butylbenzene	ND	0.001	106	106	0.0	101	69	37.6	70 - 130	30	m,r
Styrene	ND	0.005	100	103	3.0	86	73	16.4	70 - 130	30	
tert-Butylbenzene	ND	0.001	100	100	0.0	105	70	40.0	70 - 130	30	r
Tetrachloroethene	ND	0.005	97	94	3.1	93	84	10.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	98	99	1.0	100	89	11.6	70 - 130	30	
Toluene	ND	0.001	100	101	1.0	97	89	8.6	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	102	100	2.0	106	100	5.8	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	107	106	0.9	100	87	13.9	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	114	116	1.7	126	88	35.5	70 - 130	30	r
Trichloroethene	ND	0.005	97	97	0.0	99	93	6.3	70 - 130	30	
Trichlorofluoromethane	ND	0.005	110	106	3.7	119	115	3.4	70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	105	102	2.9	109	104	4.7	70 - 130	30	
Vinyl chloride	ND	0.005	108	106	1.9	110	108	1.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0	99	101	2.0	70 - 130	30	
% Bromofluorobenzene	97	%	102	102	0.0	95	104	9.0	70 - 130	30	
% Dibromofluoromethane	101	%	104	102	1.9	100	101	1.0	70 - 130	30	
% Toluene-d8	99	%	100	100	0.0	97	99	2.0	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%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

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

r = This parameter is outside laboratory RPD specified recovery limits.

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

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

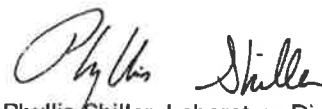
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

April 30, 2020

Thursday, April 30, 2020

Criteria: CT GBM

State: CT

### Sample Criteria Exceedances Report GCF78704 - HYGEX

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF78708	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	7800	440	1000	1000	ug/Kg
CF78708	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GB (mg/kg) / APS Organics	2400	440	1000	1000	ug/Kg
CF78708	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	14000	4400	1000	1000	ug/Kg
CF78708	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	8800	440	1000	1000	ug/Kg
CF78708	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	7100	440	1000	1000	ug/Kg
CF78708	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	14000	4400	1000	1000	ug/Kg
CF78708	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	15000	4400	1000	1000	ug/Kg
CF78708	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	15000	4400	1000	1000	ug/Kg

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



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



## Analysis Comments

April 30, 2020

SDG I.D.: GCF78704

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

### **PEST Narration**

AU-ECD7 04/27/20-1: CF78707

The following Continuing Calibration compounds did not meet % deviation criteria:

Samples: CF78707

Preceding CC 427A037 - None.

Succeeding CC 427A047 - g-BHC 21%H (20%)

### **VOA Narration**

CHEM03 04/24/20-1: CF78713, CF78715

The following Initial Calibration compounds did not meet RSD% criteria: 1,2-Dibromo-3-chloropropane 21% (20%), Bromoform 26% (20%)

The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.098 (0.1), Tetrachloroethene 0.188 (0.2)

The following Initial Calibration compounds did not meet minimum response factors: None.

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

1 of 2

Cooler: Yes  No   
 IPK  ICE   
 Temp: C Pg of

Data Delivery/Contact Options:  
 Fax:   
 Phone:   
 Email:  phoenix@hygenix.com

**CHAIN OF CUSTODY RECORD**  
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 845-0823  
 Client Services (860) 645-8726



Customer: Hygenix Inc  
 Address: 45 Woodside Street  
STAMFORD CT

Project: 495-519 Pacific Street  
 Report to: STAMFORD CT  
 Invoice to: Art Morris  
 QUOTE # \_\_\_\_\_

Project P.O.: \_\_\_\_\_  
 This section **MUST** be completed with **Bottle Quantities.**

PHOENIX USE ONLY	SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request	SW YOA Year 1	SW YOA Year 2	SW YOA Year 3	SW YOA Year 4	SW YOA Year 5	SW YOA Year 6	SW YOA Year 7	SW YOA Year 8	SW YOA Year 9	SW YOA Year 10	SW YOA Year 11	SW YOA Year 12	SW YOA Year 13	SW YOA Year 14	SW YOA Year 15	SW YOA Year 16	SW YOA Year 17	SW YOA Year 18	SW YOA Year 19	SW YOA Year 20
	78704	TP-1 (0-1')	Soil	4-23-2020		X																				
	78705	TP-1 (3-5')				X																				
	78706	TP-2 (0-1.5')				X																				
	78707	TP-2 (1.5-4')				X																				
	78708	TP-3 (0-1.5')				X																				
	78709	TP-3 (1.5-3')				X																				
	78710	TP-3 (4-6')				X																				
	78711	TP-5 (0.5-2.5')				X																				
	78712	TP-6 (0.5-2')				X																				
	78713	TP-6 (5.5-7')				X																				
	78714	TP-7 (5-6')				X																				
	78715	TP-8 (0-1')				X																				

Relinquished by: \_\_\_\_\_ Accepted by: \_\_\_\_\_  
 Date: 4/23/2020 Time: 11:50  
 Date: 4/24/2020 Time: 14:17

Comments, Special Requirements or Regulations: \_\_\_\_\_

Turnaround Time:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 Standard  
 Other

State where samples were collected: CT

\* SURCHARGE APPLIES

**CHAIN OF CUSTODY RECORD**

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

**PHOENIX**  
 Environmental Laboratories, Inc.

Customer: HYGENIX  
 Address: 49 Woodside St  
Stamford, CT

Project: 495-519 PAJER STREET  
 Report to: STAMFORD CT  
 Invoice to:  
 QUOTE #

Cooler: Yes  No   
 IPK  ICE  No   
 Temp: 7 C Pg of 1  
 Data Delivery/Contact Options:  
 Fax:  
 Phone:  
 Email: Q.MARTIN@HYGENIX.COM

This section MUST be completed with Bottle Quantities.

PHOENIX USE ONLY	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request	GL VOA Vials / Wipe Swab	GL VOA Vials / Inhibitor	GL Soil Container / HFO	GL VOA Vial / As Is / HCl	GL Amber 100ml / As Is / HCl	PL H2SO4 / 150ml / 1500ml	PL HNO3 250ml	Beaker Wash with
78710	TP-9 North (1'-3')	Soil	4-23-2010		X								
78717	TP-9 South (2'-4')	"	"		X								
78718	TP-10 (0'-1.5')	"	"		X								
78719	TP-10 (1.5'-3.5')	"	"		X								

Relinquished by: [Signature] Date: 4/23/2010  
 Accepted by: [Signature] Date: 4/23/2010

Turnaround Time:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 Standard  
 Other

Comments, Special Requirements or Regulations:

State where samples were collected: CT

\* SURCHARGE APPLIES





Thursday, April 30, 2020

Attn: Art Morris  
Hygenix  
49 Woodside St.  
Stamford, CT 06902

Project ID: 495-519 PACIFIC ST STAMFORD  
SDG ID: GCF78703  
Sample ID#s: CF78703

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 are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

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

## Sample Id Cross Reference

April 30, 2020

SDG I.D.: GCF78703

Project ID: 495-519 PACIFIC ST STAMFORD

---

Client Id	Lab Id	Matrix
TP-7 (0.5-4')	CF78703	SOIL



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

**Analysis Report**  
 April 30, 2020

FOR: Attn: Art Morris  
 Hygenix  
 49 Woodside St.  
 Stamford, CT 06902

Sample Information

Matrix: SOIL  
 Location Code: HYGENIX  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 04/23/20  
 04/24/20      14:17

Laboratory Data

SDG ID: GCF78703  
 Phoenix ID: CF78703

Project ID: 495-519 PACIFIC ST STAMFORD  
 Client ID: TP-7 (0.5-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	4.15	0.83	mg/Kg	1	04/25/20	EK	SW6010D
Barium	1020	0.42	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	3.35	0.42	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	27.1	0.42	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	0.82	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	9130	42	mg/Kg	100	04/28/20	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	04/25/20	EK	SW6010D
TCLP Lead	10.7	0.10	mg/L	1	04/27/20	TH	SW846 1311/6010
TCLP Metals Digestion	Completed				04/27/20	RA/RA	SW3010A
Percent Solid	86		%		04/24/20	VT	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	04/24/20	AP	SW846-Corr
Flash Point	>200	200	Degree F	1	04/28/20	BJA	1010/CH7/ASTMD92
Ignitability	Passed	140	degree F	1	04/28/20	BJA	SW846-Ignit
pH at 25C - Soil	7.14	1.00	pH Units	1	04/24/20 22:48	AP	SW846 9045
Reactivity Cyanide	< 6	6	mg/Kg	1	04/28/20	KT/GD	SW846 7 3 3 1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	04/28/20	KT/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	04/28/20	KT/GD	SW846-React
<b>Total Cyanide (SW8010C Distill.)</b>	0.61	0.52	mg/Kg	1	04/28/20	O/GD	SW9012B
Soil Extraction for PCB	Completed				04/27/20	VV/AA	SW3545A
Soil Extraction for SVOA	Completed				04/27/20	VV/MA	SW3545A
Extraction of CT ETPH	Completed				04/24/20	GG/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Paint Filter Test	Passed		PASS/FAIL		04/27/20	R	SW9095B
TCLP Extraction for Metals	Completed				04/24/20	W	SW1311
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<b><u>TPH by GC (Extractable Products)</u></b>							
Ext. Petroleum H.C. (C9-C36)	ND	280	mg/Kg	5	04/28/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	04/28/20	JRB	CTETPH 8015D
<b><u>QA/QC Surrogates</u></b>							
% n-Pentacosane	82		%	5	04/28/20	JRB	50 - 150 %
<b><u>Polychlorinated Biphenyls</u></b>							
PCB-1016	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1221	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1232	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1242	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1248	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1254	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1260	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1262	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
PCB-1268	ND	0.39	mg/Kg	10	04/28/20	SC	SW8082A
<b><u>QA/QC Surrogates</u></b>							
% DCBP	86		%	10	04/28/20	SC	30 - 150 %
% DCBP (Confirmation)	87		%	10	04/28/20	SC	30 - 150 %
% TCMX	72		%	10	04/28/20	SC	30 - 150 %
% TCMX (Confirmation)	69		%	10	04/28/20	SC	30 - 150 %
<b><u>Semivolatiles</u></b>							
1,2-Dichlorobenzene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
1,2-Diphenylhydrazine	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
1,3-Dichlorobenzene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
1,4-Dichlorobenzene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
2,4-Dinitrotoluene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
2,6-Dinitrotoluene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
2-Chloronaphthalene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
2-Nitroaniline	ND	1.1	mg/Kg	1	04/28/20	WB	SW8270D
3,3'-Dichlorobenzidine	ND	1.5	mg/Kg	1	04/28/20	WB	SW8270D
3-Nitroaniline	ND	1.1	mg/Kg	1	04/28/20	WB	SW8270D
4-Bromophenyl phenyl ether	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
4-Chloroaniline	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
4-Nitroaniline	ND	1.1	mg/Kg	1	04/28/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Acenaphthylene	0.33	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Anthracene	0.32	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Benz(a)anthracene	1.1	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Benzidine	ND	0.38	mg/Kg	1	04/28/20	WB	SW8270D
Benzo(a)pyrene	1.1	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Benzo(b)fluoranthene	0.92	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Benzo(ghi)perylene	0.68	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Benzo(k)fluoranthene	0.86	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Benzoic acid	ND	0.76	mg/Kg	1	04/28/20	WB	SW8270D
Benzyl alcohol	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzyl butyl phthalate	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Bis(2-chloroethyl)ether	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Chrysene	1.1	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Dibenzofuran	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Diethyl phthalate	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Dimethylphthalate	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Di-n-butylphthalate	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Di-n-octylphthalate	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Fluoranthene	1.9	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Hexachlorobenzene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Hexachlorobutadiene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Hexachlorocyclopentadiene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Hexachloroethane	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.76	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Isophorone	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Nitrobenzene	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
N-Nitrosodimethylamine	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
N-Nitrosodiphenylamine	ND	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Phenanthrene	1	0.27	mg/Kg	1	04/28/20	WB	SW8270D
Pyrene	1.7	0.27	mg/Kg	1	04/28/20	WB	SW8270D
<b>QA/QC Surrogates</b>							
% 2-Fluorobiphenyl	66		%	1	04/28/20	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	04/28/20	WB	30 - 130 %
% Terphenyl-d14	66		%	1	04/28/20	WB	30 - 130 %

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

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Corrosivity is based solely on the pH analysis performed above.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 30, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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

# QA/QC Report

April 30, 2020

## QA/QC Data

SDG I.D.: GCF78703

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 527775 (mg/kg), QC Sample No: CF78788 2X (CF78703)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	107	102	4.8	101	94.3	6.9	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 527757 (mg/L), QC Sample No: CF78681 (CF78703)

### ICP Metals - TCLP Extraction

Lead	BRL	0.010	<0.010	<0.010	NC	91.3	91.8	0.5	93.1			80 - 120	20
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Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 527667 (mg/kg), QC Sample No: CF78703 (CF78703)

### ICP Metals - Soil

Arsenic	BRL	0.87	4.15	4.26	2.60	113	93.3	19.1	95.2			75 - 125	35
Barium	BRL	0.33	1020	692	38.3	104	88.4	16.2	NC			75 - 125	35
Cadmium	BRL	0.33	3.35	4.21	22.8	113	89.9	22.8	101			75 - 125	35
Chromium	BRL	0.33	27.1	24.7	9.30	111	90.9	19.9	97.9			75 - 125	35
Lead	BRL	0.33	9130	2520	114	109	90.2	18.9	NC			75 - 125	35
Selenium	BRL	1.3	<1.7	<1.6	NC	108	89.0	19.3	79.8			75 - 125	35
Silver	BRL	0.33	<0.42	<0.40	NC	104	86.3	18.6	100			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

r = This parameter is outside laboratory RPD specified recovery limits.



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# QA/QC Report

April 30, 2020

## QA/QC Data

SDG I.D.: GCF78703

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 527779 (mg/Kg), QC Sample No: CF78470 4.9X (CF78703)													
Reactivity Cyanide	BRL	0.05	<5	<5.4	NC	98.4						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	104						80 - 120	30
QA/QC Batch 527858 (mg/Kg), QC Sample No: CF78703 50X (CF78703)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	0.61	0.77	NC	89.3			90.7			80 - 120	30
Comment:													
Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils													
QA/QC Batch 527949 (Degree F), QC Sample No: CF76551 (CF78703)													
Flash Point			100	97	NC	100						75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 527741 (PH), QC Sample No: CF78647 (CF78703)													
pH at 25C - Soil			8.24	8.13	1.30							85 - 115	20





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# QA/QC Report

April 30, 2020

## QA/QC Data

SDG I.D.: GCF78703

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
QA/QC Batch 527641 (mg/Kg), QC Sample No: CF78712 (CF78703)										
<u>TPH by GC (Extractable Products) - Soil</u>										
Ext. Petroleum H.C. (C9-C36)	ND	50	88	85	3.5	112	82	30.9	60 - 120	30
% n-Pentacosane	67	%	71	69	2.9	92	71	25.8	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 527814 (mg/Kg), QC Sample No: CF79545 2X (CF78703)										
<u>Polychlorinated Biphenyls - Soil</u>										
PCB-1016	ND	0.033	71	69	2.9	65	58	11.4	40 - 140	30
PCB-1221	ND	0.033							40 - 140	30
PCB-1232	ND	0.033							40 - 140	30
PCB-1242	ND	0.033							40 - 140	30
PCB-1248	ND	0.033							40 - 140	30
PCB-1254	ND	0.033							40 - 140	30
PCB-1260	ND	0.033	69	67	2.9	63	57	10.0	40 - 140	30
PCB-1262	ND	0.033							40 - 140	30
PCB-1268	ND	0.033							40 - 140	30
% DCBP (Surrogate Rec)	70	%	76	76	0.0	66	62	6.3	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	70	%	79	77	2.6	68	62	9.2	30 - 150	30
% TCMX (Surrogate Rec)	70	%	77	74	4.0	67	59	12.7	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	68	%	78	75	3.9	67	59	12.7	30 - 150	30
QA/QC Batch 527809 (mg/Kg), QC Sample No: CF78782 (CF78703)										
<u>Semivolatiles - Soil</u>										
1,2-Dichlorobenzene	ND	0.18	64	67	4.6	40			40 - 140	30
1,2-Diphenylhydrazine	ND	0.23	81	80	1.2	49			40 - 140	30
1,3-Dichlorobenzene	ND	0.23	60	64	6.5	36			40 - 140	30
1,4-Dichlorobenzene	ND	0.23	62	65	4.7	36			40 - 140	30
2,4-Dinitrotoluene	ND	0.13	85	82	3.6	54			30 - 130	30
2,6-Dinitrotoluene	ND	0.13	84	84	0.0	50			40 - 140	30
2-Chloronaphthalene	ND	0.23	75	77	2.6	47			40 - 140	30
2-Methylnaphthalene	ND	0.23	74	77	4.0	48			40 - 140	30
2-Nitroaniline	ND	0.33	138	135	2.2	86			40 - 140	30
3,3'-Dichlorobenzidine	ND	0.13	100	93	7.3	62			40 - 140	30
3-Nitroaniline	ND	0.33	104	99	4.9	63			40 - 140	30
4-Bromophenyl phenyl ether	ND	0.23	78	77	1.3	48			40 - 140	30
4-Chloroaniline	ND	0.23	82	80	2.5	55			40 - 140	30
4-Chlorophenyl phenyl ether	ND	0.23	77	77	0.0	45			40 - 140	30
4-Nitroaniline	ND	0.23	91	92	1.1	58			40 - 140	30
Acenaphthene	ND	0.23	79	79	0.0	49			30 - 130	30
Acenaphthylene	ND	0.13	78	79	1.3	49			40 - 140	30
Anthracene	ND	0.23	82	81	1.2	51			40 - 140	30

QA/QC Data

SDG I.D.: GCF78703

Parameter	Blank	Bik RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benz(a)anthracene	ND	0.23	83	83	0.0	49			40 - 140	30	
Benzidine	ND	0.33	27	11	84.2	30			40 - 140	30	l, m, r
Benzo(a)pyrene	ND	0.13	81	80	1.2	46			40 - 140	30	
Benzo(b)fluoranthene	ND	0.16	97	93	4.2	57			40 - 140	30	
Benzo(ghi)perylene	ND	0.23	76	71	6.8	38			40 - 140	30	m
Benzo(k)fluoranthene	ND	0.23	59	61	3.3	38			40 - 140	30	m
Benzoic Acid	ND	0.33	59	75	23.9	<10			30 - 130	30	m
Benzyl Alcohol	ND	0.23	86	89	3.4	54			30 - 130	30	
Benzyl butyl phthalate	ND	0.23	85	86	1.2	51			40 - 140	30	
Bis(2-chloroethoxy)methane	ND	0.23	67	72	7.2	44			40 - 140	30	
Bis(2-chloroethyl)ether	ND	0.13	60	58	3.4	35			40 - 140	30	m
Bis(2-chloroisopropyl)ether	ND	0.23	57	57	0.0	34			40 - 140	30	m
Bis(2-ethylhexyl)phthalate	ND	0.23	89	86	3.4	48			40 - 140	30	
Chrysene	ND	0.23	83	83	0.0	46			40 - 140	30	
Dibenz(a,h)anthracene	ND	0.13	81	76	6.4	45			40 - 140	30	
Dibenzofuran	ND	0.23	82	81	1.2	50			40 - 140	30	
Diethyl phthalate	ND	0.23	84	82	2.4	52			40 - 140	30	
Dimethylphthalate	ND	0.23	80	80	0.0	50			40 - 140	30	
Di-n-butylphthalate	ND	0.67	88	86	2.3	52			40 - 140	30	
Di-n-octylphthalate	ND	0.23	90	89	1.1	42			40 - 140	30	
Fluoranthene	ND	0.23	82	79	3.7	46			40 - 140	30	
Fluorene	ND	0.23	76	77	1.3	48			40 - 140	30	
Hexachlorobenzene	ND	0.13	88	86	2.3	50			40 - 140	30	
Hexachlorobutadiene	ND	0.23	73	81	10.4	45			40 - 140	30	
Hexachlorocyclopentadiene	ND	0.23	47	45	4.3	<10			40 - 140	30	m
Hexachloroethane	ND	0.13	65	66	1.5	36			40 - 140	30	m
Indeno(1,2,3-cd)pyrene	ND	0.23	76	73	4.0	42			40 - 140	30	
Isophorone	ND	0.13	67	71	5.8	41			40 - 140	30	
Naphthalene	ND	0.23	69	70	1.4	44			40 - 140	30	
Nitrobenzene	ND	0.13	76	75	1.3	46			40 - 140	30	
N-Nitrosodimethylamine	ND	0.23	44	46	4.4	22			40 - 140	30	m
N-Nitrosodi-n-propylamine	ND	0.13	72	74	2.7	44			40 - 140	30	
N-Nitrosodiphenylamine	ND	0.13	79	78	1.3	47			40 - 140	30	
Phenanthrene	ND	0.13	82	80	2.5	53			40 - 140	30	
Pyrene	ND	0.23	85	83	2.4	45			30 - 130	30	
% 2-Fluorobiphenyl	66	%	71	74	4.1	44			30 - 130	30	
% Nitrobenzene-d5	64	%	76	75	1.3	43			30 - 130	30	
% Terphenyl-d14	86	%	94	86	8.9	47			30 - 130	30	

Comment:

This batch consists of a Blank, LCS, LCSD and MS

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%)

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

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

r = This parameter is outside laboratory RPD specified recovery limits.

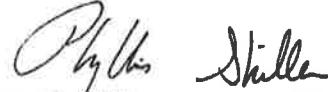
QA/QC Data

SDG I.D.: GCF78703

Parameter	Blk		LCS	LCSD	LCS	MS	MSD	MS	%	%
	Blank	RL	%	%	RPD	%	%	RPD	Rec	RPD
<hr/>										

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  
April 30, 2020

Thursday, April 30, 2020

Criteria: None

State: CT

### Sample Criteria Exceedances Report GCF78703 - HYGENIX

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF78703	TCLP-PB	TCLP Lead	EPA / 40 CFR 281.24 / Toxicity Characteristics	10.7	0.10	5	5	mg/L

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



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## Analysis Comments

April 30, 2020

SDG I.D.: GCF78703

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

