



October 2, 2019

Mr. Lee Delcore
Wisconsin Department of Natural Resources
1155 Pilgrim Road
Plymouth, WI 53073

**Re: Sample Results Notification:
Heimes Garage.
3418 – 66th St.
Kenosha, WI 53142
PECFA# 53142-3443-18
BRRTS# 03-30-409382**

Dear Mr. Delcore:

The following Sample Results Notification is being provided as required by Wisconsin Administrative Code (WAC) Chapter NR 716.14(2). On September 16, 2019, soil and groundwater samples were collected from the above-referenced site and the Kenosha Steel Castings property adjacent to the east at 3303 – 66th Street. Soil samples were analyzed for petroleum volatile organic compounds (PVOCs) and polynuclear aromatic hydrocarbons (PAHs). Groundwater grab samples were analyzed for volatile organic compounds (VOCs). The sampling was conducted as part of the Heimes Garage environmental site investigation to determine the degree and extent of petroleum soil and groundwater contamination exceeding applicable standards that is associated with the past presence of underground and aboveground storage tanks at the site. The sampling locations are depicted on the attached Figure 1.

The soil sample laboratory results did not exhibit any petroleum contaminant concentrations exceeding residual contaminant levels (RCLs), however low-level petroleum soil contamination was detected at seven of the eight sampling locations. The groundwater sample laboratory results revealed contaminant concentrations exceeding groundwater quality standards at five of the eight sampling locations, with the remaining three sampling locations exhibiting no detections. The laboratory results are summarized on the attached tables. The laboratory report is attached.

Contamination does not appear to be severe or extensive however, additional definition of the extent will be required, particularly which respect to groundwater.



In accordance with WAC Chapter NR 714.05 (5), additional information can be made and requests for site or facility specific responses can be submitted to the WDNR in accordance with procedures that can be found here: http://docs.legis.wisconsin.gov/code/admin_code/nr/700/714/05/5. Contact information for the site is as follows:

Responsible Party
Michael Zacker
Talman Ventures, LLC
4515 Washington Rd.
Kenosha, WI 53144
(262) 308-3663

Wisconsin Department of Natural Resources
Lee Delcore
1155 Pilgrim Road
Plymouth, WI 53073
(920) 893-8524

If you have any questions or need additional information please contact me at (262) 237-4351.

Sincerely,

A handwritten signature in blue ink that reads "Sean Cranley". The signature is written over a horizontal line.

Sean Cranley, P.G.
Principal Hydrogeologist

Cc: Michael Zacker
Talman Ventures, LLC
4515 Washington Rd.
Kenosha, WI 53144
(262) 308-3663

Gary Lento
3418 – 66th St.
Kenosha, WI 53142
(262) 349-5344

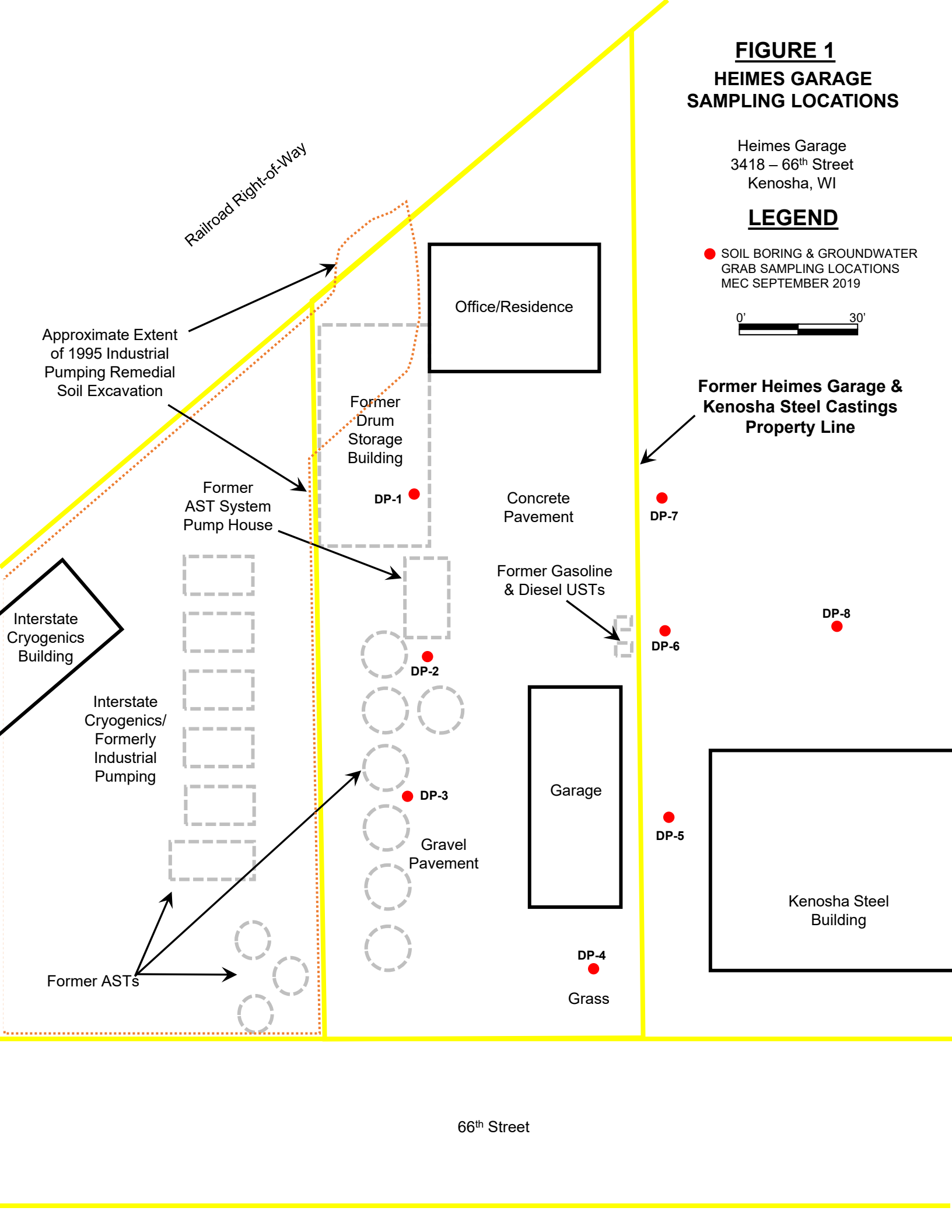
Kenosha Steel Castings
Rich Flahive
3303 – 66th St.
Kenosha, WI 53142
(262) 657-8040

FIGURE 1
HEIMES GARAGE
SAMPLING LOCATIONS

Heimes Garage
 3418 – 66th Street
 Kenosha, WI

LEGEND

- SOIL BORING & GROUNDWATER GRAB SAMPLING LOCATIONS MEC SEPTEMBER 2019



66th Street

Table 1 (Page 1 of 2)
Soil Analytical Results Table
Heimes Garage
3418 66th Street
Kenosha, WI

Parameters	Sample Information / Results					Residual Contaminant Levels		
Sample ID	DP-1	DP-2	DP-2	DP-3	DP-4			
Sample Depth (ft/bls)	5-7	2-3	3-4	3-4	2-2.5	Groundwater	Not to Exceed	Not to Exceed
Sample Date	9/16/19	9/16/19	9/16/19	9/16/19	9/16/19			Protection
PVOCs (mg/kg)						mg/kg	mg/kg	mg/kg
1,2,4-Trimethylbenzene	<0.025	<0.20	<0.12	<0.12	<0.025	1.3787*	219	219
Ethylbenzene	<0.025	<0.20	<0.12	<0.12	<0.025	1.57	8.02	35.4
PAHs (mg/kg)						mg/kg	mg/kg	mg/kg
Acenaphthene	<0.0049	0.21	0.67J	0.15J	<0.0051	NS	3,590	45,200
Acenaphthylene	<0.0042	0.047J	0.15J	0.048J	<0.0043	NS	NS	NS
Anthracene	<0.0072	0.076J	0.22J	0.039J	<0.0075	196.9492	17,900	100,000
Benzo(a)anthracene	0.0047J	<0.027	<0.11	0.032J	0.0042J	NS	1.14	20.8
Benzo(b)fluoranthene	0.0038J	<0.029	<0.11	<0.028	<0.0037	0.4781	1.15	21.1
Fluoranthene	<0.0066	<0.025	<0.098	<0.024	<0.0068	88.8778	2,390	30,100
Fluorene	<0.0052	0.24	0.75J	0.15J	<0.0054	14.8299	2,390	30,100
1-Methylnaphthalene	<0.0051	2.1	6.7	2.2	0.011J	NS	17.6	72.7
2-Methylnaphthalene	<0.0063	3.6	12.1	3.4	0.027	NS	239	3,010
Naphthalene	<0.011	1.3	4.2	1.6	0.011J	0.6582	5.52	24.1
Phenanthrene	<0.015	0.69	2.1	0.26	<0.015	NS	NS	NS
Pyrene	<0.0057	<0.031	<0.12	0.046J	<0.0059	54.5455	1,790	22,600

Notes:

Table includes detected analytes only.

Bold type indicates concentration within the upper 4 feet of the subsurface exceeds the non-industrial direct contact RCL and, if applicable, the background level, thus constituting a soil standard exceedance.

Italic type indicates a concentration exceeds the groundwater protection RCL and, if applicable the background level, thus constituting a soil standard exceedance.

RCL - Residual Contaminant Level

PVOCs - Petroleum Volatile Organic Compounds

PAHs - Polynuclear Aromatic Hydrocarbons

NS - No Standard

Table 1 (Page 2 of 2)
Soil Analytical Results Table
Heimes Garage
3418 66th Street
Kenosha, WI

Parameters	Sample Information / Results				Residual Contaminant Levels		
Sample ID	DP-5	DP-6	DP-7	DP-8	Groundwater	Not to Exceed	Not to Exceed
Sample Depth (ft/bls)	2-2.5	2-2.5	2-3	2.5-3			Protection
Sample Date	9/16/19	9/16/19	9/16/19	9/16/19			
PVOCs (mg/kg)					mg/kg	mg/kg	mg/kg
1,2,4-Trimethylbenzene	<0.025	0.060J	<0.025	<0.025	1.3787*	219	219
Ethylbenzene	<0.025	<0.025	<0.025	<0.025	1.57	8.02	35.4
PAHs (mg/kg)					mg/kg	mg/kg	mg/kg
Acenaphthene	<0.0028	<0.0047	<0.0050	<0.0030	NS	3,590	45,200
Acenaphthylene	<0.0027	<0.0040	<0.0043	<0.0029	NS	NS	NS
Anthracene	<0.0027	<0.0069	<0.0074	<0.0028	196.9492	17,900	100,000
Benzo(a)anthracene	0.0045J	<0.0038	<0.0041	<0.0029	NS	1.14	20.8
Benzo(b)fluoranthene	0.0042J	<0.0034	<0.0037	<0.0032	0.4781	1.15	21.1
Fluoranthene	0.0041J	<0.0063	<0.0068	<0.0027	88.8778	2,390	30,100
Fluorene	<0.0026	<0.0050	<0.0054	<0.0027	14.8299	2,390	30,100
1-Methylnaphthalene	0.013J	0.022	<0.0052	0.0037J	NS	17.6	72.7
2-Methylnaphthalene	0.021J	0.042	<0.0065	0.0080J	NS	239	3,010
Naphthalene	0.0084J	0.086	<0.011	0.012J	0.6582	5.52	24.1
Phenanthrene	0.0086J	<0.014	<0.015	<0.0026	NS	NS	NS
Pyrene	<0.0032	<0.0054	<0.0059	<0.0033	54.5455	1,790	22,600

Notes:

Table includes detected analytes only.

Bold type indicates concentration within the upper 4 feet of the subsurface exceeds the non-industrial direct contact RCL and, if applicable, the background level, thus constituting a soil standard exceedance.

Italic type indicates a concentration exceeds the groundwater protection RCL and, if applicable the background level, thus constituting a soil standard exceedance.

RCL - Residual Contaminant Level

PVOCs - Petroleum Volatile Organic Compounds

PAHs - Polynuclear Aromatic Hydrocarbons

NS - No Standard

Table 2 (Page 1 of 1)
Groundwater Analytical Results Table
Heimes Garage
3418 66th Street
Kenosha, WI

Parameters	Sample ID, Collection Date, Results								Groundwater Quality Standards	
	DP-1W	DP-2W	DP-3W	DP-4W	DP-5W	DP-6W	DP-7W	DP-8W	PAL	ES
	9/16/19	9/16/19	9/16/19	9/16/19	9/16/19	9/16/19	9/16/19	9/16/19		
VOCs (ug/l)									ug/l	ug/l
Benzene	<0.25	<u>3.7</u>	11.6	<u>1.4</u>	<0.50	169	<0.50	<0.50	0.5	5
n-Butylbenzene	<0.71	5.5	7.9	<0.71	<0.71	<2.8	<0.71	<0.71	NS	NS
sec-Butylbenzene	<0.85	3.6J	9.3	<0.85	<0.85	<3.4	<0.85	<0.85	NS	NS
tert-Butylbenzene	<0.30	<0.61	0.91J	<0.30	<0.30	<1.2	<0.30	<0.30	NS	NS
1,2-Dichloroethane	<0.28	<u>2.4</u>	<u>3.2</u>	<0.28	<0.28	<1.1	<0.28	<0.28	0.5	5
cis-1,2-Dichloroethene	<0.27	<0.54	<0.27	<u>13.1</u>	<0.27	<1.1	<0.27	<0.27	7	70
trans-1,2-Dichloroethene	<1.1	<2.2	<1.1	<u>1.4J</u>	<1.1	<4.4	<1.1	<1.1	20	100
Diisopropyl ether	<1.9	7.6J	3.1J	<1.9	<1.9	<7.6	<1.9	<1.9	NS	NS
Ethylbenzene	<0.22	1.8J	1.7	<0.22	<0.22	1.3J	<0.22	<0.22	140	700
Isopropylbenzene (Cumene)	<0.39	15.4	24.6	<0.39	<0.39	<1.6	<0.39	<0.39	NS	NS
p-Isopropyltoluene	<0.80	<1.6	0.98J	<0.80	<0.80	<3.2	<0.80	<0.80	NS	NS
Methyl-tert-butyl-ether	<1.2	<2.5	<u>13.4</u>	86.6	178	233	<1.2	<1.2	12	60
Naphthalene	<1.2	<u>83.6</u>	<u>92.6</u>	<1.2	<1.2	<4.7	<1.2	<1.2	10	100
n-Propylbenzene	<0.81	43.9	35.3	<0.81	<0.81	<3.2	<0.81	<0.81	NS	NS
Toluene	<0.17	0.55J	2.5J	<0.17	<0.17	1.1J	<0.17	<0.17	160	800
Vinyl Chloride	<0.17	<0.35	<0.17	0.72J	<0.17	<0.70	<0.17	<0.17	0.02	0.2
Xylenes	<1.5	<3.0	2.5J	<1.5	<1.5	14.6	<1.5	<1.5	400	2000

Notes:

Table includes detected analytes only, which are right justified in the columns.

Italic type indicates concentration exceeds PAL.

Bold type indicates concentration exceeds ES.

VOCs - Volatile Organic Compounds

PVOCs - Petroleum Volatile Organic Compounds

PAL - NR 140 Preventive Action Limit

ES - NR 140 Enforcement Standard

NS - No Standard

SUMMARY OF DETECTION

Project: HEIMES GARAGE-FORMER

Pace Project No.: 40195395

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40195395001	DP-1 (5'-7')					
EPA 8270 by SIM	Benzo(a)anthracene	0.0047J	mg/kg	0.013	09/20/19 15:24	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.0038J	mg/kg	0.012	09/20/19 15:24	
ASTM D2974-87	Percent Moisture	20.8	%	0.10	09/27/19 08:52	
40195395002	DP-2 (2'-3')					
EPA 8270 by SIM	Acenaphthene	0.21	mg/kg	0.21	09/23/19 15:08	
EPA 8270 by SIM	Acenaphthylene	0.047J	mg/kg	0.21	09/23/19 15:08	
EPA 8270 by SIM	Anthracene	0.076J	mg/kg	0.21	09/23/19 15:08	
EPA 8270 by SIM	Fluorene	0.24	mg/kg	0.21	09/23/19 15:08	
EPA 8270 by SIM	1-Methylnaphthalene	2.1	mg/kg	0.21	09/23/19 15:08	
EPA 8270 by SIM	2-Methylnaphthalene	3.6	mg/kg	0.21	09/23/19 15:08	
EPA 8270 by SIM	Naphthalene	1.3	mg/kg	0.21	09/23/19 15:08	
EPA 8270 by SIM	Phenanthrene	0.69	mg/kg	0.21	09/23/19 15:08	
EPA 8260	Ethylbenzene	0.32J	mg/kg	0.60	09/21/19 01:48	
ASTM D2974-87	Percent Moisture	20.0	%	0.10	09/27/19 08:53	
40195395003	DP-2 (3'-4')					
EPA 8270 by SIM	Acenaphthene	0.67J	mg/kg	0.83	09/23/19 15:25	
EPA 8270 by SIM	Acenaphthylene	0.15J	mg/kg	0.83	09/23/19 15:25	
EPA 8270 by SIM	Anthracene	0.22J	mg/kg	0.83	09/23/19 15:25	
EPA 8270 by SIM	Fluorene	0.75J	mg/kg	0.83	09/23/19 15:25	
EPA 8270 by SIM	1-Methylnaphthalene	6.7	mg/kg	0.83	09/23/19 15:25	
EPA 8270 by SIM	2-Methylnaphthalene	12.1	mg/kg	0.83	09/23/19 15:25	
EPA 8270 by SIM	Naphthalene	4.2	mg/kg	0.83	09/23/19 15:25	
EPA 8270 by SIM	Phenanthrene	2.1	mg/kg	0.83	09/23/19 15:25	
EPA 8260	Ethylbenzene	0.17J	mg/kg	0.37	09/21/19 02:11	
ASTM D2974-87	Percent Moisture	19.0	%	0.10	09/27/19 08:53	
40195395004	DP-3 (3'-4')					
EPA 8270 by SIM	Acenaphthene	0.15J	mg/kg	0.20	09/23/19 15:42	
EPA 8270 by SIM	Acenaphthylene	0.048J	mg/kg	0.20	09/23/19 15:42	
EPA 8270 by SIM	Anthracene	0.039J	mg/kg	0.20	09/23/19 15:42	
EPA 8270 by SIM	Benzo(a)anthracene	0.032J	mg/kg	0.20	09/23/19 15:42	
EPA 8270 by SIM	Fluorene	0.15J	mg/kg	0.20	09/23/19 15:42	
EPA 8270 by SIM	1-Methylnaphthalene	2.2	mg/kg	0.20	09/23/19 15:42	
EPA 8270 by SIM	2-Methylnaphthalene	3.4	mg/kg	0.20	09/23/19 15:42	
EPA 8270 by SIM	Naphthalene	1.6	mg/kg	0.20	09/23/19 15:42	
EPA 8270 by SIM	Phenanthrene	0.26	mg/kg	0.20	09/23/19 15:42	
EPA 8270 by SIM	Pyrene	0.046J	mg/kg	0.20	09/23/19 15:42	
ASTM D2974-87	Percent Moisture	17.7	%	0.10	09/27/19 08:53	
40195395005	DP-4 (2'-2.5')					
EPA 8270 by SIM	Benzo(a)anthracene	0.0042J	mg/kg	0.014	09/20/19 16:32	
EPA 8270 by SIM	1-Methylnaphthalene	0.011J	mg/kg	0.018	09/20/19 16:32	
EPA 8270 by SIM	2-Methylnaphthalene	0.027	mg/kg	0.022	09/20/19 16:32	
EPA 8270 by SIM	Naphthalene	0.011J	mg/kg	0.037	09/20/19 16:32	
ASTM D2974-87	Percent Moisture	23.4	%	0.10	09/27/19 08:53	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HEIMES GARAGE-FORMER
Pace Project No.: 40195395

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40195395006	DP-5 (2'-2.5')					
EPA 8270 by SIM	Benzo(a)anthracene	0.0045J	mg/kg	0.022	09/23/19 15:59	
EPA 8270 by SIM	Benzo(b)fluoranthene	0.0042J	mg/kg	0.022	09/23/19 15:59	
EPA 8270 by SIM	Fluoranthene	0.0041J	mg/kg	0.022	09/23/19 15:59	
EPA 8270 by SIM	1-Methylnaphthalene	0.013J	mg/kg	0.022	09/23/19 15:59	
EPA 8270 by SIM	2-Methylnaphthalene	0.021J	mg/kg	0.022	09/23/19 15:59	
EPA 8270 by SIM	Naphthalene	0.0084J	mg/kg	0.022	09/23/19 15:59	
EPA 8270 by SIM	Phenanthrene	0.0086J	mg/kg	0.022	09/23/19 15:59	
ASTM D2974-87	Percent Moisture	22.8	%	0.10	09/27/19 08:53	
40195395007	DP-6 (2'-2.5')					
EPA 8270 by SIM	1-Methylnaphthalene	0.022	mg/kg	0.016	09/20/19 16:49	
EPA 8270 by SIM	2-Methylnaphthalene	0.042	mg/kg	0.020	09/20/19 16:49	
EPA 8270 by SIM	Naphthalene	0.086	mg/kg	0.034	09/20/19 16:49	
EPA 8260	1,2,4-Trimethylbenzene	0.060J	mg/kg	0.072	09/23/19 18:10	
ASTM D2974-87	Percent Moisture	17.0	%	0.10	09/27/19 08:53	
40195395008	DP-7 (2'-3')					
ASTM D2974-87	Percent Moisture	23.2	%	0.10	09/27/19 08:53	
40195395009	DP-8 (2.5'-3')					
EPA 8270 by SIM	1-Methylnaphthalene	0.0037J	mg/kg	0.023	09/23/19 10:48	
EPA 8270 by SIM	2-Methylnaphthalene	0.0080J	mg/kg	0.023	09/23/19 10:48	
EPA 8270 by SIM	Naphthalene	0.012J	mg/kg	0.023	09/23/19 10:48	
ASTM D2974-87	Percent Moisture	26.8	%	0.10	09/24/19 13:11	
40195395011	DP-2W					
EPA 8260	Benzene	3.7	ug/L	2.0	09/20/19 01:30	
EPA 8260	n-Butylbenzene	5.5	ug/L	4.7	09/20/19 01:30	
EPA 8260	sec-Butylbenzene	3.6J	ug/L	10.0	09/20/19 01:30	
EPA 8260	1,2-Dichloroethane	2.4	ug/L	2.0	09/20/19 01:30	
EPA 8260	Diisopropyl ether	7.6J	ug/L	12.6	09/20/19 01:30	
EPA 8260	Ethylbenzene	1.8J	ug/L	2.0	09/20/19 01:30	
EPA 8260	Isopropylbenzene (Cumene)	15.4	ug/L	10.0	09/20/19 01:30	
EPA 8260	Naphthalene	83.6	ug/L	10.0	09/20/19 01:30	
EPA 8260	n-Propylbenzene	43.9	ug/L	10.0	09/20/19 01:30	
EPA 8260	Toluene	0.55J	ug/L	10.0	09/20/19 01:30	
40195395012	DP-3W					
EPA 8260	Benzene	11.6	ug/L	1.0	09/20/19 07:10	
EPA 8260	n-Butylbenzene	7.9	ug/L	2.4	09/20/19 07:10	
EPA 8260	sec-Butylbenzene	9.3	ug/L	5.0	09/20/19 07:10	
EPA 8260	tert-Butylbenzene	0.91J	ug/L	1.0	09/20/19 07:10	
EPA 8260	1,2-Dichloroethane	3.2	ug/L	1.0	09/20/19 07:10	
EPA 8260	Diisopropyl ether	3.1J	ug/L	6.3	09/20/19 07:10	
EPA 8260	Ethylbenzene	1.7	ug/L	1.0	09/20/19 07:10	
EPA 8260	Isopropylbenzene (Cumene)	24.6	ug/L	5.0	09/20/19 07:10	
EPA 8260	p-Isopropyltoluene	0.98J	ug/L	2.7	09/20/19 07:10	
EPA 8260	Methyl-tert-butyl ether	13.4	ug/L	4.2	09/20/19 07:10	
EPA 8260	Naphthalene	92.6	ug/L	5.0	09/20/19 07:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HEIMES GARAGE-FORMER

Pace Project No.: 40195395

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40195395012	DP-3W					
EPA 8260	n-Propylbenzene	35.3	ug/L	5.0	09/20/19 07:10	
EPA 8260	Toluene	2.5J	ug/L	5.0	09/20/19 07:10	
EPA 8260	Xylene (Total)	2.5J	ug/L	3.0	09/20/19 07:10	
EPA 8260	m&p-Xylene	1.8J	ug/L	2.0	09/20/19 07:10	
EPA 8260	o-Xylene	0.68J	ug/L	1.0	09/20/19 07:10	
40195395013	DP-4W					
EPA 8260	Benzene	1.4	ug/L	1.0	09/19/19 19:04	
EPA 8260	cis-1,2-Dichloroethene	13.1	ug/L	1.0	09/19/19 19:04	
EPA 8260	trans-1,2-Dichloroethene	1.4J	ug/L	3.6	09/19/19 19:04	
EPA 8260	Methyl-tert-butyl ether	86.6	ug/L	4.2	09/19/19 19:04	
EPA 8260	Vinyl chloride	0.72J	ug/L	1.0	09/19/19 19:04	
40195395014	DP-5W					
EPA 8260	Methyl-tert-butyl ether	178	ug/L	4.2	09/19/19 19:25	
40195395015	DP-6W					
EPA 8260	Benzene	169	ug/L	4.0	09/20/19 02:13	
EPA 8260	Ethylbenzene	1.3J	ug/L	4.0	09/20/19 02:13	
EPA 8260	Methyl-tert-butyl ether	233	ug/L	16.6	09/20/19 02:13	
EPA 8260	Toluene	1.1J	ug/L	20.0	09/20/19 02:13	
EPA 8260	Xylene (Total)	14.6	ug/L	12.0	09/20/19 02:13	
EPA 8260	m&p-Xylene	13.9	ug/L	8.0	09/20/19 02:13	

REPORT OF LABORATORY ANALYSIS

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