



May 29, 2015

Mr. Chad Staniszewski
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2999

**Re: Supplemental Site Investigation
Harrison Street Site (C907045)
Jamestown, New York**

Dear Mr. Staniszewski:

At the request of the Department, for the purpose of Brownfield Cleanup Program (BCP) eligibility determination, additional subsurface information was collected from the Harrison Street Site through completion of a test pit investigation on May 18, 2015. As you are aware, the NYSDEC was notified of petroleum impacts encountered during the work and Spill No. 1501798 was assigned to the Site.

Please see attached for supporting information relative to this investigation.

Please do not hesitate to contact us with any questions.

Sincerely,
TurnKey Environmental Restoration, LLC

A handwritten signature in blue ink that reads "Bryan W. Mayback".

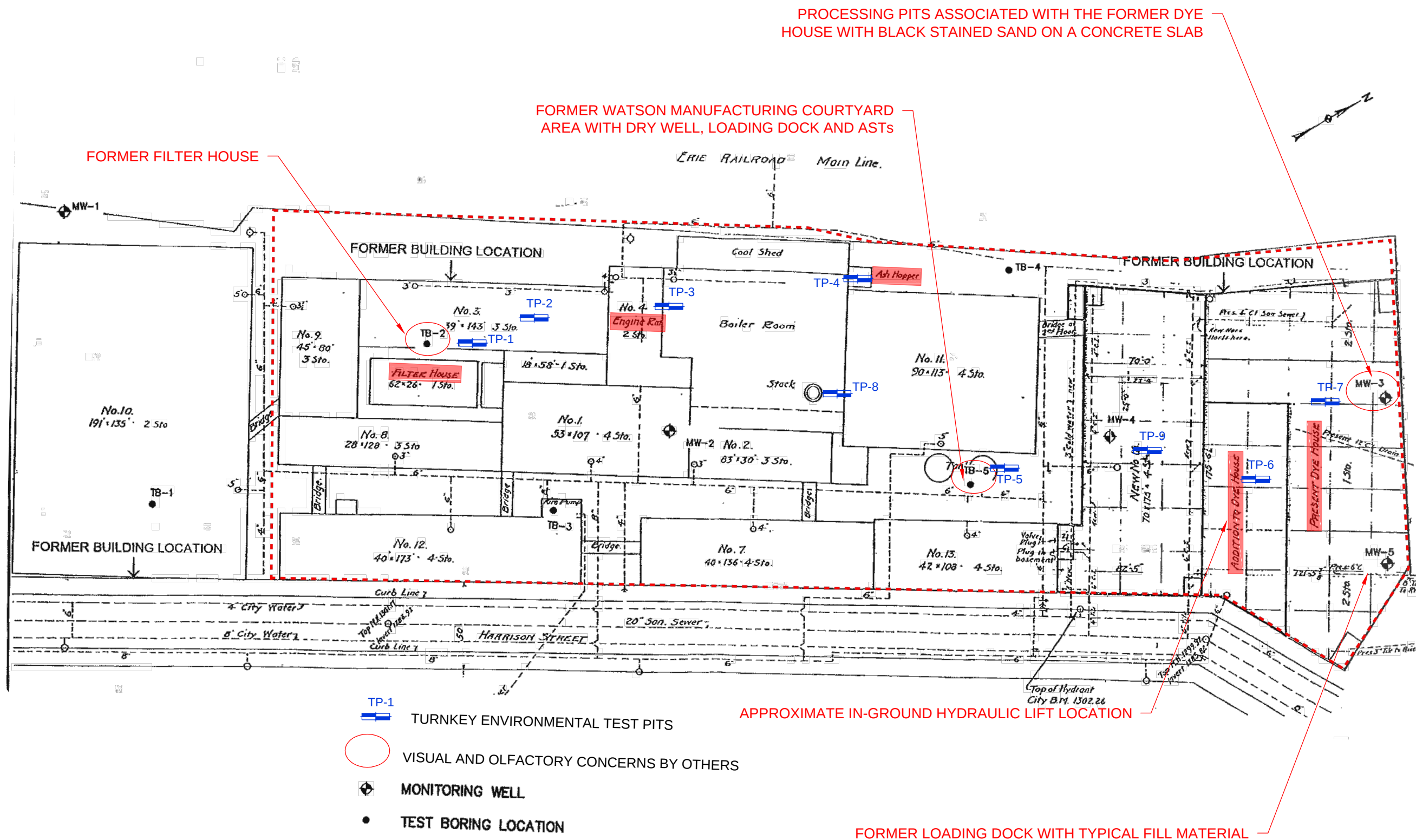
Bryan Mayback
Sr. Project Scientist

A handwritten signature in blue ink that reads "Michael A. Lesakowski".

Michael A. Lesakowski
Sr. Project Manager

cc: Diane Franklin (Family Health Medical Services, PLLC)
Patrick Ebert (The Krog Corp.)
Gene Melnyk (NYSDEC Region 9)

File: 0092-015-001



FORMER WATSON MANUFACTURING COURTYARD
AREA WITH DRY WELL, LOADING DOCK AND ASTS

FORMER FILTER HOUSE

ERIE RAILROAD Main Line.

FORMER BUILDING LOCATION

FORMER BUILDING LOCATION

FORMER BUILDING LOCATION

TP-1
TURNKEY ENVIRONMENTAL TEST PITS

○ VISUAL AND OLFACTORY CONCERNS BY OTHERS

 MONITORING WELL

- TEST BORING LOCATION

City of 1502.26

APPROXIMATE IN-GROUND HYDRAULIC LIFT LOCATION

FORMER LOADING DOCK WITH TYPICAL FILL MATERIAL

SAMPLE LOCATIONS

SUPPLEMENTAL INVESTIGATION
251-289 HARRISON STREET SITE
JAMESTOWN, NEW YORK

PREPARED FOR

PREPARED FOR
THE KROG CORPORATION

JOB NO.: 0092-015-001

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

TURNKEY
ENVIRONMENTAL
RESTORATION, LLC

2558 HAMBURG TURNPIKE, SUITE 300, BUFFALO, NY 14218, (716) 856-0599

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FIGURE 1

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TABLE 1

SUMMARY OF TEST PIT SAMPLE LOCATIONS

**HARRISON STREET SITE
JAMESTOWN, NEW YORK**

Location	Soil Sample Interval (fbgs)	Depth (fbgs) and USCS Soil Classification (visual-manual)	Field Observations / Notes
Test Pit Locations			
TP-1	1-4	0 - 0.5 Brown top soils. 0.5 - 7.0 Black fill material consisting of sand with brick, concrete and rock fragments, wet.	Black petroleum-like staining observed in fill materials.
TP-2		0 - 0.5 Brown top soils. 0.5 - 7.0 Black fill material consisting of ash, cinders, ash and sand with brick, concrete, glass and rock fragments, wet.	Ash, cinders and black staining observed in fill materials.
TP-3	1-3	0 - 0.5 Brown top soils. 0.5 - 7.0 Black fill material consisting of cinders with brick, glass and rock fragments, wet.	Oil-like product observed on groundwater, petroleum-like odors identified.
TP-4	1-3	0 - 0.5 Brown top soils. 0.5 - 3.0 Black Fill material consisting of sand, ash and cinders with brick and glass fragments, wet. 3.0-7.0 Brown fine sand with gravel, wet. 7-10 Gray sand, moist to wet.	Black petroleum-like staining observed in fill materials.
TP-5		0 - 0.5 Brown top soils. 0.5 - 3.0 Black fill material consisting of sand, ash and cinders with brick and glass fragments, wet. 3.0-5.0 Brown fill material consisting of sand, gravel and trace brick, moist. 5-7 Brown lean clay, moist. 7-9 Gray sandy lean Clay.	Ash, cinders and black staining observed in fill materials.
TP-6	3-4	0 - 0.5 Fill material consisting of silty gravel. 0.5 - 1.0 Concrete. 1.0-3.0 Brown fill material consisting of sand, gravel and trace brick. 3.0-4.0 Black fill material consisting of sand with trace brick.	Strong petroleum-like odor noted in fill materials. Equipment refusal encountered at 4.0 fbgs apparently due to concrete floor.
TP-7	6-8	0 - 0.5 Brown top soils. 0.5 - 3.0 Black Fill material consisting of sand, ash and cinders with brick and glass fragments, wet. 3.0-10.0 Gray sand, moist.	Ash, cinders and black staining observed in fill materials.
TP-8		0 - 0.33 Gravel 0.33 - 6.0 Light brown, mostly coarse sand and gravel, moist. 6.0-10.0 Gray sand, moist.	
TP-9	1-2	0 - 0.5 Brown top soils. 0.5 - 3.0 Black Fill material consisting of sand, ash and cinders with brick and glass fragments, moist. 3.0-10.0 Gray sand, moist.	Ash, cinders and black staining observed in fill materials.

Notes:

1. fbgs = feet below ground surface
2. USCS = Unified Soil Classification System



TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS

HARRISON STREET SITE
JAMESTOWN, NY

PARAMETER ¹	Part 375 Unrestricted Use SCOs ²	Part 375 Commercial Use SCOs	CP-51 SCOs ³	Historic Sampling Data				TurnKey Test Pit Sampling Data					
				TB-2-S3 (4-6')	TP-5-S2 (2-4')	MW-3-S3 (4-6')	MW-5-S3 (4-6')	TP-1 (1-4')	TP-3 (1-3')	TP-4 (1-3')	TP-6 (3-4')	TP-7 (6-8')	TP-9 (1-2')
				05/11/2000	05/11/2000	05/11/2000	05/11/2000	05/18/2015	05/18/2015	05/18/2015	05/18/2015	05/18/2015	05/18/2015
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg ⁴													
2-methylnaphthalene	--	--	--	--	2.82	--	--						
Acenaphthene	20	500	20	--	0.759	--	--	ND	ND	0.3 J	ND	ND	ND
Acenaphthylene	100	500	100	--	0.966	--	--	ND	ND	0.21 J	ND	ND	ND
Anthracene	100	500	100	--	1.69	--	--	0.6 J	ND	0.78 J	ND	ND	ND
Benzo(a)anthracene	1	5.6	1	--	1.18	--	--	3.1	ND	2.7	1.1 J	ND	0.16 J
Benzo(a)pyrene	1	1	1	--	1.11	--	--	2.4	ND	2.3	0.89 J	ND	ND
Benzo(b)fluoranthene	1	5.6	1	--	0.601	--	--	3.3	ND	2.8	1.2 J	ND	ND
Benzo(ghi)perylene	100	500	100	--	0.559	--	--	1.7	ND	1.3	0.38 J	ND	ND
Benzo(k)fluoranthene	0.8	56	0.8	--	--	--	--	1.1 J	ND	1.2	0.63 J	ND	ND
Chrysene	1	56	1	--	1.13	--	--	2.5	8.5 J	2.6	0.96 J	ND	ND
Fluoranthene	100	500	100	--	1.71	--	--	4.6	ND	5.5	1.4	ND	0.11 J
Fluorene	30	500	30	--	1.97	--	--	0.17 J	ND	0.34 J	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.5	5.6	0.5	--	0.791	--	--	1.5	ND	1.5	0.51 J	ND	ND
Naphthalene	12	500	12	--	2.33	--	--	ND	ND	0.32 J	ND	ND	ND
Phenanthrene	100	500	100	--	7.44	--	--	2.7	ND	3.5	0.75 J	ND	0.15 J
Pyrene	100	500	100	--	4.96	--	--	4.6	ND	3.8	1.6	ND	0.16 J
Total Metals - mg/Kg													
Arsenic	13	16	--	7.21	14.3	10.1	13.2	14.1	6.3	349	178	8.9	30.1
Barium	350	400	--	54.4	62	100	51.4	127	67.2	349	591	93.4	287
Cadmium	2.5	9.3	--	ND	0.528	ND	ND	0.99	0.58	ND	0.23 J	0.12 J	0.51
Chromium	30	1500	--	12.6	16.8	60.2	12.9	46.6	8.5	23.5	521	10.6	38.3
Lead	63	1000	--	12.9	12.7	39.3	11.3	164	45.9	256	172	136	47.6
Mercury	0.18	2.8	--	ND	ND	ND	ND	0.65	0.19	0.64 F1, F2	0.24	0.11	0.075
Selenium	3.9	1500	--	ND	ND	ND	2.08	ND	1.5 J	9.3	ND	7.4	ND
Silver	2	1500	--	1.25	1.51	ND	3.69	0.67 J	ND	ND	ND	ND	ND

Notes:

- Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
- Values per NYSDEC Part 375 Unrestricted Soil Cleanup Objectives (SCOs).
- Values per NYSDEC CP-51 SCOs.
- Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.
 "--" = No value available for the parameter. Or parameter not analysed for.
 J = Estimated value; result is less than the sample quantitation limit but greater than zero.
 F1 = MS and/or MSD Recovery is outside acceptance limits.
 F2 = MS/MSD RPD exceeds control limits.

	= Result exceeds Unrestricted use SCO.
	= Result exceeds Commercial use SCO.
Bold	= Result exceeds CP-51 SCO.

SITE PHOTOGRAPHS

Photo 1:



Photo 2:



Photo 3:



Photo 4:



Photo 1: View of TP-3, note the oil-like product on the perched groundwater along with black fill materials.

Photo 2: Another view of the oil-like product at TP-3 at six feet below ground surface (fbgs).

Photo 3: View of TP-4, note the black fill material from 1 to 3 fbgs.

Photo 4: View of TP-6, note the stained fill material from 3 to 4fbgs.

251-289 Harrison Road Site

Photo Date: May 18, 2015

