



VIA ELECTRONIC MAIL

September 26, 2022

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 7
615 Erie Boulevard West
Syracuse, New York 13204-2400
Attn: Karen A. Cahill, Project Manager

**Subject: Former Emerson Power Transmission (EPT), Ithaca, NY Site No. 755010
Quarterly Free Product Surveillance Report No. 029 – First and Second Quarter 2022
620 South Aurora Street, Ithaca, New York**

Dear Karen:

On behalf of Emerson, WSP USA Inc. is submitting Quarterly Free Product Surveillance Report No. 029 for the former Emerson Power Transmission site located in Ithaca, New York. This report summarizes the semi-annual free product monitoring and recovery activities for the first and second quarter (January through June) of 2022 at groundwater wells that have free product present in them which include MW-8B, LBA-MW-35, LBA-MW-39, and MW-50-160D, as shown on enclosed Figure 1. The use of absorbent socks continuously collected free product throughout the quarter, and are replaced quarterly.

SUMMARY OF RELEVANT FINDINGS

Quarterly groundwater elevation and light-phase free product monitoring and recovery were conducted on March 21, and June 16, 2022. Free product recovery is conducted using free product absorbent socks at each location and bailers, where appropriate. Following the retrieval of the free product absorbent socks, a new free product absorbent sock is deployed at each location to collect the free product. No absorbent sock is deployed in MW-50-160D due to no observed measurable free product to date.

MW-8B FREE PRODUCT MONITORING & RECOVERY

Free product was detected in MW-8B with an apparent thickness of 0.02-feet (March; Table 1). No free product was detected during the June event. In total, 1.69 gallons of the free product was recovered during this reporting period; a total of 19.21 gallons of the free product has been removed since recovery was initiated in August 2016 (Table 1).

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LBA-MW-35 FREE PRODUCT MONITORING & RECOVERY

Free product was detected in LBA-MW-35 with an apparent thickness of 0.05-feet (March; Table 2) and 0.02-feet (June; Table 2). In total, 1.19 gallons of the free product was recovered during this reporting period; a total of 13.29 gallons of the free product have been removed since recovery was initiated in October 2018 (Table 2).

LBA-MW-39 FREE PRODUCT MONITORING & RECOVERY

Free product was detected in LBA-MW-39 with an apparent thickness of 0.04-feet (March; Table 3). No free product was detected during the June event. In total, 0.88 gallons of the free product was recovered during this reporting period; a total of 6.68 gallons of the free product have been removed since recovery was initiated in October 2018 (Table 3).

MW-50-160D FREE PRODUCT MONITORING & RECOVERY

Free product measuring was initiated on June 21, 2021 (Table 4), no free product was detected during the March or June 2022 monitoring event. No free product was recovered during this reporting period.

Subsequent semi-annual reports will continue to provide updates on the free product monitoring and recovery at groundwater wells that have free product present. As requested by the New York State Department of Environmental Conservation, free product measurements will also be reported in the semi-annual Progress Reports.

Please do not hesitate to contact me at (724) 882-9723 with any questions or concerns.

Sincerely yours,

Jeffrey Baker
Lead Consultant

Scott Hartz
Vice President, National Practice Lead

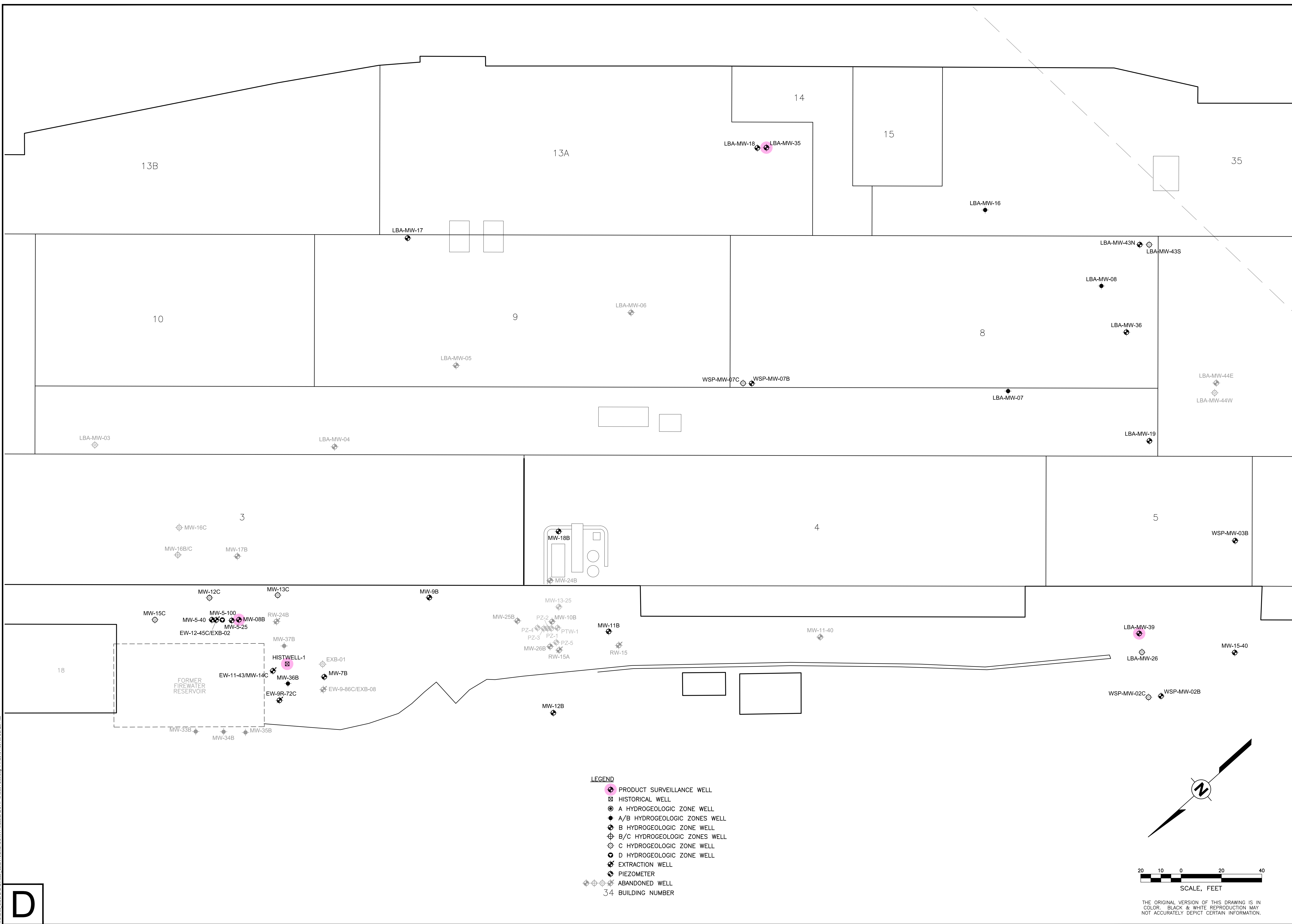
NTW: JRB

\\USHRN1SER01\es\Clients\Emerson\ITHACA\Product Surveillance and Recovery\2022 NYSDEC\Q1 and Q2

Enclosures

cc/encl.: Anthony Perretta, NYSDOH
Steve Clarke, Emerson

FIGURE



- LEGEND**
- PRODUCT SURVEILLANCE WELL
 - ⊠ HISTORICAL WELL
 - ⊙ A HYDROGEOLOGIC ZONE WELL
 - ⊕ A/B HYDROGEOLOGIC ZONES WELL
 - ⊖ B HYDROGEOLOGIC ZONE WELL
 - ⊗ B/C HYDROGEOLOGIC ZONES WELL
 - ⊘ C HYDROGEOLOGIC ZONE WELL
 - ⊙ D HYDROGEOLOGIC ZONE WELL
 - ⊕ EXTRACTION WELL
 - ⊖ PIEZOMETER
 - ⊗ ABANDONED WELL
 - 34 BUILDING NUMBER

REVISIONS	
REV	DESCRIPTION

DRAWN BY <i>R. J. [Signature]</i>	CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DATE 12/17/2019
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PRODUCT SURVEILLANCE WELLS
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK
 PREPARED FOR
 EMERSON
 ST. LOUIS, MISSOURI

WSP USA, Inc.
 13530 DULLES TECHNOLOGY DR., SUITE 300
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 TEL: +1 703.709.6500

FIGURE 1
 Drawing Number
314P1545.001-D09

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THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

TABLES

Table 1

**Product Monitoring and Removal Summary - MW-8B
Former Emerson Power Transmission Facility
Ithaca, New York
First and Second Quarter 2022 (a)**

Well Identification:		MW-8B											
Casing Diameter (inches):		2.00											
Top of Casing (ft asml) (b):		586.08											
Total Depth (feet):		21.30											
Date (e)	Depth to Product (ft btoc)	Depth to Water (ft btoc, b)		Apparent Product Thickness (feet)	Apparent Product Volume (gallons)	Groundwater Elevation (ft asml)	Product Removal (gallons)				Water Removed (gallons)		
		Measured	Corrected				Bailer	Absorbent Sock	Total Quarterly	Total Cumulative	Total Quarterly	Total Water Bailed	
Previous to First and Second Quarter 2022	-	-	-	-	-	-	-	-	-	-	17.52	-	1.80
March 21, 2022	9.36	9.38	9.36	0.02	0.00	577.28	0.00	0.57	0.57	18.72	0.06	1.85	
June 16, 2022	NM	9.22	9.22	-	-	577.42	0.00	0.49	0.49	19.21	0.05	1.90	

- a/ Abbreviations: NM = no measureable product; "-" = not applicable; "--" = measurement not taken; ft btoc = feet below top of casing; asml = above mean sea level; ft asml = feet asml; LNAPL = light non-aqueous phase liquid.
- b/ All depth to water measurements were corrected to account for the depression caused by the weight of the light phase free product. For correction of the depth to water, the free phase product specific gravity of 0.90 was used.
- e/ Measurements were collected monthly until September 2020 and after September 2020 measurements were collected quarterly. Free product was continuously collected using sorbent socks.

Table 2

**Product Monitoring and Removal Summary - LBA-MW-35
Former Emerson Power Transmission Facility
Ithaca, New York
First and Second Quarter 2022 (a)**

Well Identification:		LBA-MW-35											
Casing Diameter (inches):		2.00											
Top of Casing (ft asml):		612.59											
Total Depth (feet):		32.00											
Date (c)	Depth to Product (ft btoc)	Depth to Water (ft btoc, b)		Apparent Product Thickness (feet)	Apparent Product Volume (gallons)	Groundwater Elevation (ft asml)	Product Removal (gallons)				Water Removed (gallons)		
		Measured	Corrected				Bailer	Absorbent Sock	Total Quarterly	Total Cumulative	Total Quarterly	Total Water Bailed	
Previous to First and Second Quarter 2022	-	-	-	-	-	-	-	-	-	-	12.10	-	1.21
March 21, 2022	5.79	5.84	5.80	0.05	0.01	606.80	0.00	0.60	0.60	12.70	0.06	0.06	1.27
June 16, 2022	5.65	5.67	5.65	0.02	0.00	606.94	0.00	0.59	0.59	13.29	0.06	0.06	1.33

- a/ Abbreviations: NM = no measureable product; "-" = not applicable; "--" = measurement not taken; ft btoc = feet below top of casing; asml = above mean sea level; ft asml = feet asml; LNAPL = light non-aqueous phase liquid.
- b/ All depth to water measurements were corrected to account for the depression caused by the weight of the light phase free product. For correction of the depth to water, the free phase product specific gravity of 0.90 was used.
- c/ Measurements were collected monthly until September 2020 and after September 2020 measurements were collected quarterly. Free product was continuously collected using sorbent socks.

Table 3

**Product Monitoring and Removal Summary - LBA-MW-39
Former Emerson Power Transmission Facility
Ithaca, New York
First and Second Quarter 2022 (a)**

Well Identification:		LBA-MW-39											
Casing Diameter (inches):		2.00											
Top of Casing (ft amsl) (b):		583.06											
Total Depth (feet):		25.50											
Date (c)	Depth to Product (ft btoc)	Depth to Water (ft btoc, b)		Apparent Product Thickness (feet)	Apparent Product Volume (gallons)	Groundwater Elevation (ft amsl)	Product Removal (gallons)				Water Removed (gallons)		
		Measured	Corrected				Bailer	Absorbent Sock	Total Quarterly	Total Cumulative	Total Quarterly	Total Water Bailed	
Previous to First and Second Quarter 2022	-	-	-	-	-	-	-	-	-	-	5.80	-	0.58
March 21, 2022	18.58	18.62	18.58	0.04	0.01	564.48	0.00	0.47	0.47	6.27	0.05	0.63	
June 16, 2022	NM	18.50	18.50	-	-	564.56	0.00	0.42	0.42	6.68	0.04	0.67	

- a/ Abbreviations: NM = no measureable product; "-" = not applicable; "--" = measurement not taken; ft btoc = feet below top of casing; amsl = above mean sea level; ft amsl = feet amsl; LNAPL = light non-aqueous phase liquid.
- b/ All depth to water measurements were corrected to account for the depression caused by the weight of the light phase free product. For correction of the depth to water, the free phase product specific gravity of 0.90 was used.
- c/ Measurements were collected monthly until September 2020 and after September 2020 measurements were collected quarterly. Free product was continuously collected using sorbent socks.

Table 4

**Product Monitoring and Removal Summary - MW-50-160D
Former Emerson Power Transmission Facility
Ithaca, New York
First and Second Quarter 2022 (a)**

Well Identification:		MW-50-160D											
Casing Diameter (inches):		4.00											
Top of Casing (ft amsl) (b):		Pending Survey											
Total Depth (feet):		163.53											
Date	Depth to Product (ft btoc)	Depth to Water (ft btoc, b)		Apparent Product Thickness (feet)	Apparent Product Volume (gallons)	Groundwater Elevation (ft amsl)	Product Removal (gallons)				Water Removed (gallons)		
		Measured	Corrected				Bailer	Absorbent Sock	Total Quarterly	Total Cumulative	Total Quarterly	Total Water Bailed	
Previous to First and Second Quarter 2022	-	-	-	-	-	-	-	-	-	-	-	-	0.00
March 21, 2022	NM	123.51	123.51				0.00	0.00	0.00	0.00	0.00	0.00	0.00
June 16, 2022	NM	115.24	115.24	-	-	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00

- a/ Abbreviations: NM = no measureable product; "-" = not applicable; "--" = measurement not taken; ft btoc = feet below top of casing; amsl = above mean sea level; ft amsl = feet amsl; LNAPL = light non-aqueous phase liquid.
- b/ All depth to water measurements were corrected to account for the depression caused by the weight of the light phase free product. For correction of the depth to water, the free phase product specific gravity of 0.90 was used.