



VIA ELECTRONIC MAIL

June 12, 2020

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. 024 – First Quarter 2020
620 South Aurora Street, Ithaca, New York**

Dear Karen:

On behalf of Emerson, WSP USA Inc. is submitting Quarterly Free Product Surveillance Report No. 024 for the former Emerson Power Transmission site located in Ithaca, New York. This report summarizes the quarterly free product monitoring and recovery activities for the first quarter (January through March) of 2020 at groundwater wells that have free product present in them which include MW-08B, HISTWELL-1, LBA-MW-35, and LBA-MW-39, as shown on enclosed Figure 1.

SUMMARY OF RELEVANT FINDINGS

Monthly groundwater elevation and light-phase free product monitoring and recovery were conducted on January 9, February 5, and March 26, 2020. Free product recovery is conducted using free product absorbent socks at each location and bailers, where appropriate. Following the monthly retrieval of the free product absorbent socks, a new free product absorbent sock is deployed at each location to collect free product.

MW-08B FREE PRODUCT MONITORING & RECOVERY

Free product was detected in well MW-08B with apparent thicknesses of 0.11-feet (January) and 0.01-feet (March; Table 1). No free product was detected during the February event. In total, 0.37 gallons of the free product was recovered during this reporting period; a total of 14.31 gallons of the free product have been removed since recovery was initiated in August 2016 (Table 1).

HISTWELL-1 FREE PRODUCT MONITORING & RECOVERY

Free product was detected in HISTWELL-1 with an apparent product thickness of 0.04-ft in the March event (Table 2). No free product was detected during the January and February events. In total, 0.25 gallons of the free product was recovered during this reporting period; a total of 19.06 gallons of the free product have been removed since recovery was initiated in January 2016 (Table 2).

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LBA-MW-35 FREE PRODUCT MONITORING & RECOVERY

Free product was detected in LBA-MW-35 with an apparent thickness thicknesses aof 0.38-feet (February) and 0.01-feet (March; Table 3). No free product was detected during the January event. In total, 1.13 gallons of the free product was recovered during this reporting period; a total of 6.75 gallons of the free product have been removed since recovery was initiated in October 2018 (Table 3).

LBA-MW-39 FREE PRODUCT MONITORING & RECOVERY

No free product was detected or recovered during the January, February, and March events (Table 4).

Subsequent quarterly 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 (412) 644-3054 with any questions or concerns.

Sincerely yours,

Colleen Myers, PMP
Assistant Vice President

Scott Hartz
Southeast Regional Manager

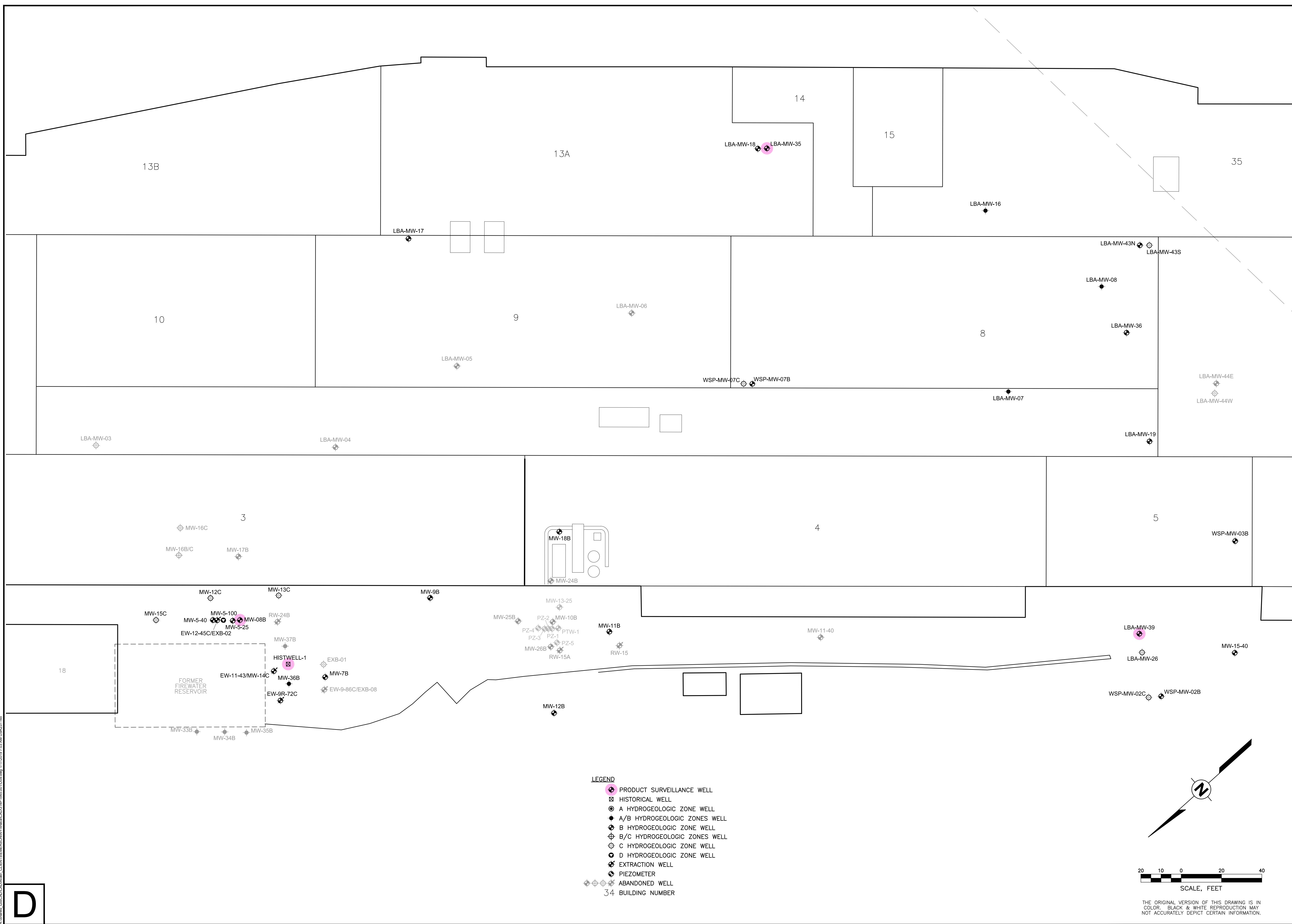
JRB: CBM

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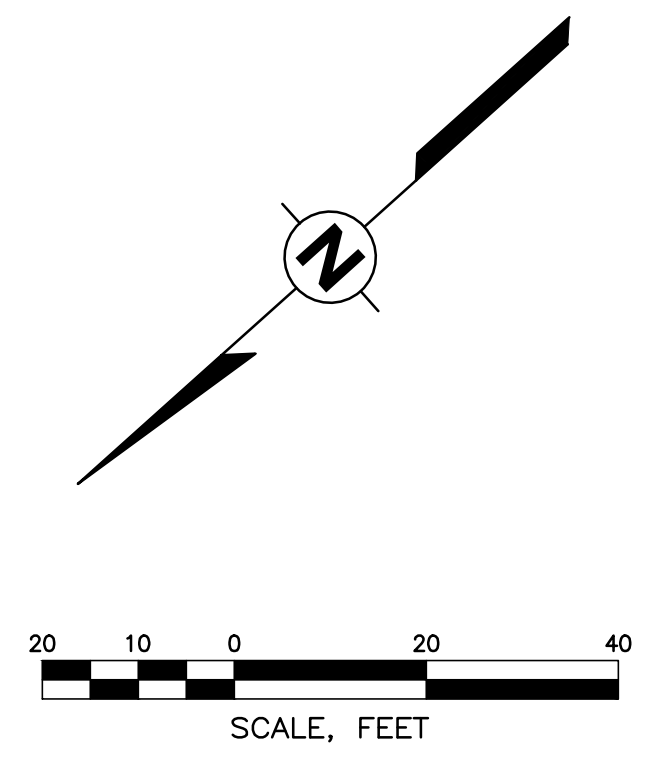
Enclosures

cc/encl.: Steven Karpinski, 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	CHECKED	APPROVED	DATE
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PRODUCT SURVEILLANCE WELLS
FORMER EMERSON POWER TRANSMISSION
ITHACA, NEW YORK
 PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

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 TEL: +1 703.709.6500

FIGURE 1
 Drawing Number
314P1545.001-D09

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TABLES

Table 1

**Product Monitoring and Removal Summary - MW-08B
Former Emerson Power Transmission Facility
Ithaca, New York
First Quarter 2020 (a)**

Well Identification:		MW-08B											
Casing Diameter (inches):		4.00											
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 Monthly	Total Cumulative	Total Monthly	Total Water Bailed	
Previous to First Quarter 2020	-	-	-	-	-	-	-	-	-	-	13.94	-	1.37
January 9, 2020	10.15	10.26	10.16	0.11	0.02	575.92	0.00	0.14	0.14	14.08	0.01	0.01	1.38
February 5, 2020	NM	9.45	9.45	-	-	576.63	0.00	0.10	0.10	14.18	0.01	0.01	1.39
March 26, 2020	9.66	9.67	9.66	0.01	0.00	576.42	0.00	0.13	0.13	14.31	0.01	0.01	1.41

- 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 collected monthly.

Table 2

**Product Monitoring and Removal Summary - HISTWELL-1
Former Emerson Power Transmission Facility
Ithaca, New York
First Quarter 2020 (a)**

Well Identification:		HISTWELL-1											
Casing Diameter (inches):		2.00											
Top of Casing (ft asml) (b):		586.08											
Total Depth (feet):		138.30											
Date (d)	Depth to Product (ft btoc)	Depth to Water (ft btoc, c)		Apparent Product Thickness (feet)	Apparent Product Volume (gallons)	Groundwater Elevation (ft asml)	Product Removal (gallons)				Water Removed (gallons)		
		Measured	Corrected				Bailer	Absorbent Sock	Total Monthly	Total Cumulative	Total Monthly	Total Water Bailed	
Previous to First Quarter 2020	-	-	-	-	-	-	-	-	-	-	18.81	-	285.30
January 9, 2020	NM	116.40	116.40	-	-	469.68	0.00	0.00	0.00	18.81	0.00	0.00	285.30
February 5, 2020	NM	122.70	122.70	-	-	463.38	0.00	0.11	0.11	18.92	0.00	0.00	285.30
March 26, 2020	129.62	129.66	129.62	0.04	0.01	456.46	0.00	0.13	0.13	19.06	0.00	0.00	285.30

- 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/ Elevation of 8-inch steel outer casing; polyvinyl chloride casing not surveyed.
- c/ 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.
- d/ Measurements collected monthly.

Table 3

**Product Monitoring and Removal Summary - LBA-MW-35
Former Emerson Power Transmission Facility
Ithaca, New York
First Quarter 2020 (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 Monthly	Total Cumulative	Total Monthly	Total Water Bailed	
Previous to First Quarter 2020	-	-	-	-	-	-	-	-	-	-	5.62	-	0.00
January 9, 2020	NM	4.99	4.99	-	-	607.60	0.00	0.43	0.43	6.05	0.00	0.00	0.00
February 5, 2020	4.48	4.86	4.52	0.38	0.06	608.07	0.00	0.37	0.37	6.42	0.00	0.00	0.00
March 26, 2020	4.67	4.68	4.67	0.01	0.00	607.92	0.00	0.33	0.33	6.75	0.00	0.00	0.00

- 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 collected monthly.

Table 4

**Product Monitoring and Removal Summary - LBA-MW-39
Former Emerson Power Transmission Facility
Ithaca, New York
First Quarter 2020 (a)**

Well Identification:		LBA-MW-39											
Casing Diameter (inches):		2.00											
Top of Casing (ft asml) (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 asml)	Product Removal (gallons)				Water Removed (gallons)		
		Measured	Corrected				Bailer	Absorbent Sock	Total Monthly	Total Cumulative	Total Monthly	Total Water Bailed	
Previous to First Quarter 2020	-	-	-	-	-	-	-	-	-	-	1.75	-	0.00
January 9, 2020	NM	24.13	24.13	-	-	558.93	0.00	0.00	0.00	1.75	0.00	0.00	0.00
February 5, 2020	NM	22.46	22.46	-	-	560.60	0.00	0.12	0.12	1.87	0.00	0.00	0.00
March 26, 2020	NM	22.78	22.78	-	-	560.28	0.00	0.10	0.10	1.97	0.00	0.00	0.00

- 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 collected monthly.