



VIA ELECTRONIC MAIL

February 26, 2024

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. 032 – Third and Fourth Quarter 2023
620 South Aurora Street, Ithaca, New York**

Dear Karen:

On behalf of Emerson, WSP USA Inc. is submitting Quarterly Free Product Surveillance Report No. 032 for the former Emerson Power Transmission site in Ithaca, New York. This report summarizes the semi-annual free product monitoring and recovery activities for the third and fourth quarters of 2023 at the groundwater wells shown on enclosed Figure 1. This includes wells that have historically been included with the free product monitoring and recovery activities (MW-8B, LBA-MW-35, LBA-MW-39, and MW-47A). Two additional monitoring wells (LBA-MW-08 and LBA-MW-18) were added during the third quarter free product surveillance activities.

Four free product observation wells that were installed in Building 9, behind the eastern wall of Building 3 and Building 4, during February 2023 (OW-1, OW-2, OW-3, and OW-4) were included during the fourth quarter free product surveillance activities. Free product measurements were collected on December 6, and no free product was measured in any of the observation wells.

Free product recovery is conducted using free product absorbent socks at each location and bailers, where appropriate. Absorbent socks are typically replaced quarterly. Following the retrieval of the free product absorbent socks, a new free product absorbent sock is typically deployed at each location to collect the free product. During the fourth quarter of 2023, new free product socks were only deployed at locations with at least 0.01 feet of measurable free product.

THIRD QUARTER 2023 SUMMARY

Quarterly groundwater elevation and light-phase free product monitoring and recovery was conducted on August 17, 2023 at all wells except MW-47A; free product monitoring and recovery at MW-47A was conducted on August 19, 2023. Absorbent socks were deployed at MW-8B, LBA-MW-35, LBA-MW-39, MW-47A, LBA-MW-08, and LBA-MW-18 after the measurements were taken.

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FOURTH QUARTER 2023 SUMMARY

Spent absorbent socks were removed from product monitoring wells on November 17, 2023. Quarterly groundwater elevation and light-phase free product monitoring, as well as redeployment of new absorbent socks, for the fourth quarter of 2023 was completed on December 6, 2023. New absorbent socks were only redeployed at locations with at least 0.01 feet of measurable free product, which included LBA-MW-35 and LBA-MW-08.

FREE PRODUCT MONITORING & RECOVERY

MW-8B FREE PRODUCT MONITORING & RECOVERY

Free product was detected in MW-8B with an apparent thickness of 0.01 feet during the August event. No measurable free product was detected during the December event. In total, 0.39 gallons of free product was recovered during this reporting period; a total of 20.91 gallons of free product has been removed since recovery was initiated in August 2016 (Table 1).

LBA-MW-35 FREE PRODUCT MONITORING & RECOVERY

Free product was detected in LBA-MW-35 with an apparent thickness of 0.02 feet during both quarterly monitoring events (August and December). In total, 0.42 gallons of free product were recovered during this reporting period; a total of 15.12 gallons of 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 0.01 feet during the August event. No free product was detected during the December event. In total, 0.13 gallons of free product was recovered during this reporting period; a total of 8.11 gallons of free product have been removed since recovery was initiated in October 2018 (Table 3).

MW-47A FREE PRODUCT MONITORING & RECOVERY

Free product was detected in MW-47A with an apparent thickness of 0.01 feet during the August event. No measurable free product was detected during the December event. In total, 0.58 gallons of free product was recovered during this reporting period; a total of 1.93 gallons of free product have been removed since recovery was initiated in September 2022 (Table 4).

LBA-MW-08 FREE PRODUCT MONITORING & RECOVERY

Free product was detected in LBA-MW-08 with an apparent thickness of 0.04 feet (August) and 0.02 feet (December). In total, 0.17 gallons of free product have been removed since recovery was initiated in August 2023 (Table 5).

LBA-MW-18 FREE PRODUCT MONITORING & RECOVERY

Free product was detected in LBA-MW-18 with an apparent thickness of 0.01 feet during the August event. No free product was detected during the December event. In total, 0.13 gallons of free product have been removed since recovery was initiated in August 2023 (Table 6).



Subsequent semi-annual reports will continue to provide updates on the free product monitoring and recovery at groundwater wells that have free product present.

Please do not hesitate to contact me at (813) 520-4340 with any questions or concerns.

Sincerely yours,

A handwritten signature in black ink, appearing to read 'Jeffrey Baker'.

Jeffrey Baker
Assistant Vice President

A handwritten signature in black ink, appearing to read 'Scott Haitz'.

Scott Haitz
Senior Vice President

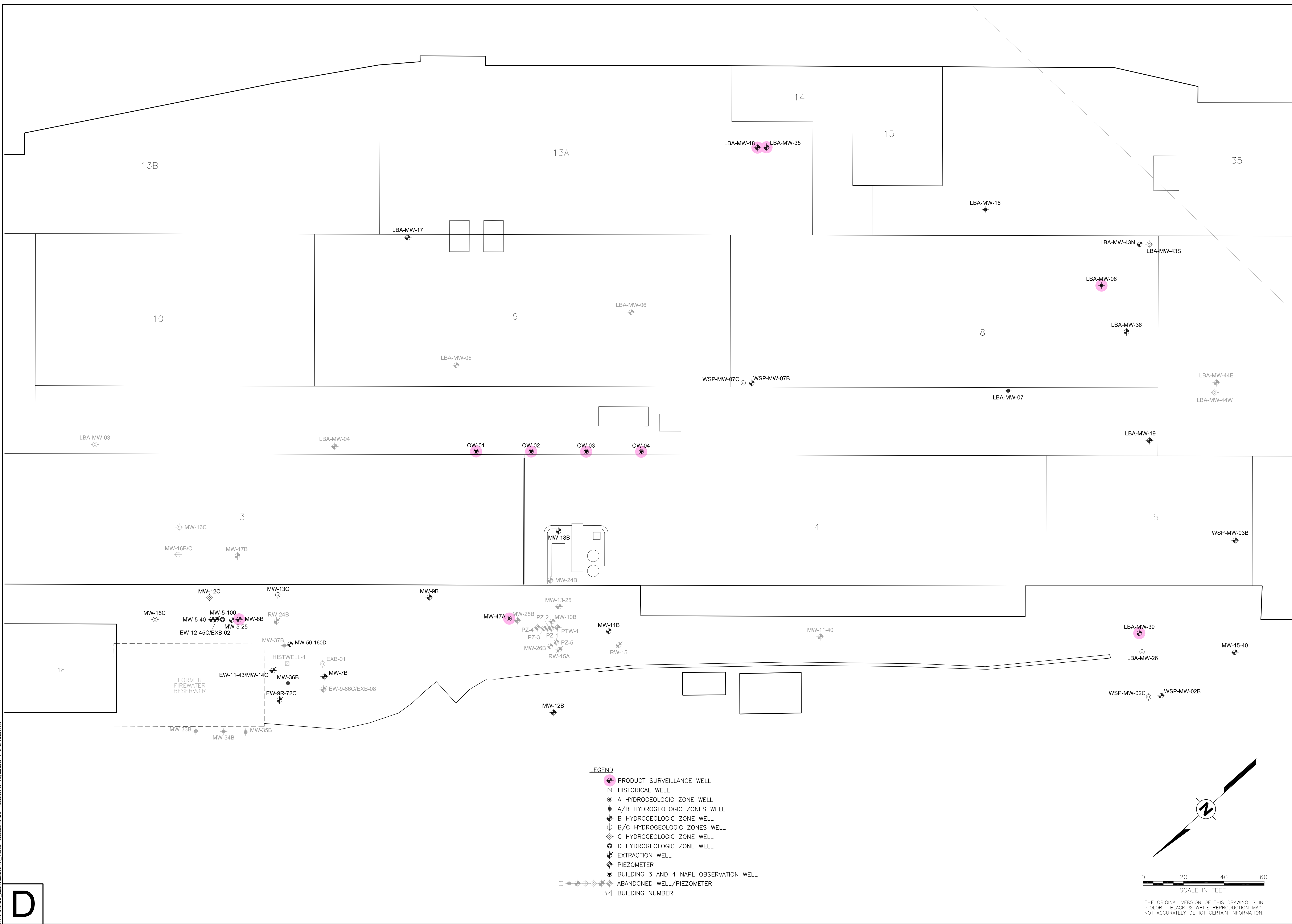
SLB:JRB

\\USHRN1SER01(es\Clients\Emerson\ITHACA\Product Surveillance and Recovery\2023 NYSDEC\Q3 and Q4

Enclosures

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

FIGURE



REVISIONS	
REV	DESCRIPTION

DRAWN BY	EJC	CHECKED	JRB	APPROVED		DATE	
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PREPARING OF THIS DRAWING IS LIMITED TO THE MUTUAL ASSISTANCE AND AS SUCH IS SUBJECT TO RECALL AT ANY DISCRETION OF WSP USA INC. FOR THE BENEFIT OF THE CLIENT AND SUPPLIERS WITHOUT THE WRITTEN CONSENT OF WSP USA INC.

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PRODUCT SURVEILLANCE WELLS

FORMER EMERSON POWER TRANSMISSION

ITHACA, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

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FIGURE 1

Drawing Number

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TABLES

Table 1

**Product Monitoring and Removal Summary - MW-8B
Former Emerson Power Transmission Facility
Ithaca, New York
Third and Fourth Quarter 2023 (a)**

Well Identification:		MW-8B										
Casing Diameter (inches):		4										
Top of Casing (ft amsl):		586.64										
Total Depth (ft bgs):		21.3										
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
Prior to Third Quarter 2023	-	-	-	-	-	-	-	-	0.44	20.51	0.04	2.03
August 17, 2023	8.95	8.96	8.95	0.01	0.002	577.69	0.00	0.24	0.24	20.76	0.02	2.06
December 6, 2023	NM	8.85	8.85	-	-	577.79	0.00	0.15	0.15	20.91	0.02	2.07

a/ Abbreviations: ft = feet; amsl = above mean sea level; bgs = below ground surface; btoc = below top of casing; "-" = not applicable.

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/ During the fourth quarter of 2023, the absorbent sock was removed on November 17, 2023, but depth to product and depth to water readings were collected on December 6, 2023.

Table 2

**Product Monitoring and Removal Summary - LBA-MW-35
Former Emerson Power Transmission Facility
Ithaca, New York
Third and Fourth Quarter 2023 (a)**

Well Identification:		LBA-MW-35										
Casing Diameter (inches):		2										
Top of Casing (ft amsl):		612.59										
Total Depth (ft bgs):		32.0										
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
Prior to Third Quarter 2023	-	-	-	-	-	-	-	-	0.44	14.71	0.04	1.47
August 17, 2023	7.20	7.22	7.20	0.02	0.003	605.39	0.00	0.00	0.00	14.71	0.00	1.47
December 6, 2023	6.68	6.70	6.68	0.02	0.003	605.91	0.00	0.42	0.42	15.12	0.04	1.51

- a/ Abbreviations: ft = feet; amsl = above mean sea level; bgs = below ground surface; btoc = below top of casing; "-" = not applicable.
- 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/ During the fourth quarter of 2023, the absorbent sock was removed on November 17, 2023, but depth to product and depth to water readings were collected, and a new sock was redeployed, on December 6, 2023.

Table 3

**Product Monitoring and Removal Summary - LBA-MW-39
Former Emerson Power Transmission Facility
Ithaca, New York
Third and Fourth Quarter 2023 (a)**

Well Identification:		LBA-MW-39										
Casing Diameter (inches):		2										
Top of Casing (ft amsl):		582.61										
Total Depth (ft bgs):		25.5										
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
Prior to Third Quarter 2023	-	-	-	-	-	-	-	-	0.44	7.98	0.04	0.80
August 17, 2023	13.77	13.78	13.77	0.01	0.002	568.84	0.00	0.00	0.00	7.98	0.00	0.80
December 6, 2023	NM	13.78	13.78	-	-	568.83	0.00	0.13	0.13	8.11	0.01	0.81

a/ Abbreviations: ft = feet; amsl = above mean sea level; bgs = below ground surface; btoc = below top of casing; "-" = not applicable; NM = no measurable product.

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/ During the fourth quarter of 2023, the absorbent sock was removed on November 17, 2023, but depth to product and depth to water readings were collected on December 6, 2023.

Table 4

**Product Monitoring and Removal Summary - MW-47A
Former Emerson Power Transmission Facility
Ithaca, New York
Third and Fourth Quarter 2023 (a)**

Well Identification:		MW-47A										
Casing Diameter (inches):		4										
Top of Casing (ft amsl):		586.70										
Total Depth (ft bgs):		18.75										
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
Prior to Third Quarter 2023	-	-	-	-	-	-	-	-	0.77	1.35	0.08	0.14
August 19, 2023	11.82	11.83	11.82	0.01	0.002	574.88	0.00	0.00	0.00	1.35	0.00	0.14
December 6, 2023	NM	11.76	11.76	-	-	574.94	0.00	0.58	0.58	1.93	0.06	0.19

a/ Abbreviations: ft = feet; amsl = above mean sea level; bgs = below ground surface; btoc = below top of casing; "-" = not applicable.

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/ During the fourth quarter of 2023, the absorbent sock was removed on November 17, 2023, but depth to product and depth to water readings were collected on December 6, 2023.

Table 5

**Product Monitoring and Removal Summary - LBA-MW-08
Former Emerson Power Transmission Facility
Ithaca, New York
Third and Fourth Quarter 2023 (a)**

Well Identification:		LBA-MW-08											
Casing Diameter (inches):		2											
Top of Casing (ft amsl):		600.06											
Total Depth (ft bgs):		18.4											
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	
Prior to Third Quarter 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
August 17, 2023	9.20	9.24	9.20	0.04	0.007	590.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00
December 6, 2023	7.48	7.50	7.48	0.02	0.003	592.58	0.00	0.17	0.17	0.17	0.17	0.02	0.02

- a/ Abbreviations: ft = feet; amsl = above mean sea level; bgs = below ground surface; btoc = below top of casing; "-" = not applicable.
- 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/ During the fourth quarter of 2023, the absorbent sock was removed on November 17, 2023, but depth to product and depth to water readings were collected, and a new sock was redeployed, on December 6, 2023.

Table 6

**Product Monitoring and Removal Summary - LBA-MW-18
Former Emerson Power Transmission Facility
Ithaca, New York
Third and Fourth Quarter 2023 (a)**

Well Identification:		LBA-MW-18											
Casing Diameter (inches):		2											
Top of Casing (ft amsl):		615.23											
Total Depth (ft bgs):		13.4											
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	
Prior to Third Quarter 2023	-	-	-	-	-	-	-	-	-	-	-	-	-
August 17, 2023	7.03	7.04	7.03	0.01	0.002	608.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
December 6, 2023	NM	6.51	6.51	-	-	608.72	0.00	0.13	0.13	0.13	0.01	0.01	0.01

a/ Abbreviations: ft = feet; amsl = above mean sea level; bgs = below ground surface; btoc = below top of casing; "-" = not applicable; NM = no measureable product.

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/ During the fourth quarter of 2023, the absorbent sock was removed on November 17, 2023, but depth to product and depth to water readings were collected on December 6, 2023.