



## VIA ELECTRONIC MAIL

August 11, 2021

Mr. Christopher Mannes III, P.E.  
Environmental Engineer II  
New York State Department of Environmental Conservation  
615 Erie Boulevard West  
Syracuse, NY 13204-2400

**Subject: Second Quarter 2021 Progress Report  
Former Rollway Bearing Corporation Facility, Liverpool, New York  
Agreement Index Number: V7-1007-96-10; Site No. V00202**

Dear Mr. Mannes:

On behalf of Emerson Electric Co., WSP USA Inc. is submitting this Second Quarter 2021 Progress Report for the former Rollway Bearing Corporation facility in Liverpool, New York. This quarterly progress report summarizes all work completed at the former Rollway Bearing facility from April through June 2021 and work planned for July through September 2021. The report was prepared in accordance with the requirements of the revised Site Management Plan (SMP), dated May 4, 2021, and includes the following information:

- a summary of all work completed and the results of sampling and testing performed during the reporting period
- a summary of reports and deliverables that were completed and submitted during the reporting period
- an estimate of the percentage of completion of the approved work plan activities, problems encountered during the quarter and actions taken to alleviate those problems, and modifications to work plans approved by the New York State Department of Environmental Conservation (NYSDEC)
- a description of activities anticipated to be completed during the next quarter

## WORK COMPLETED

The following activities were completed during April through June 2021:

### LNAPL RECOVERY SYSTEM

- WSP conducted operation, maintenance, and monitoring (OM&M) visits on April 21 and June 10, 2021, to confirm proper operation of the light non-aqueous phase liquid (LNAPL) recovery system. The OM&M logs are included in Enclosure A. The LNAPL recovery system was operational during the quarter except when it was turned off to perform maintenance and during the high-vacuum removal event in May 2021.
- During the April 21 and June 10, 2021, site visits, absorbent socks were removed from wells RW-1, RW-2, OW-1, OW-2, OW-3, OW-4, OW-5, SB-5, SB-8, OW-9/FB-2, OW-10/FB-1, and OW-11/FB-4, weighed, and placed in a U.S. Department of Transportation (DOT)-compliant 55-gallon steel drum for subsequent characterization and offsite disposal (Figure 1; Enclosure B).
- On May 11, 2021, the LNAPL recovery system was turned off to conduct a voluntary high-vacuum removal event using a vacuum truck to remove residual LNAPL from wells OW-1, OW-2, OW-3, OW-5, OW-9/FB-2, OW-10/FB-1,

WSP USA  
7000 East Genesee Street  
Building D, 2nd Floor  
Fayetteville, NY 13066

Tel.: +1 315 655-3900  
wsp.com



RW-2, and SB-5 and from the surrounding formation at each location. The LNAPL removal activities were conducted in accordance with WSP's email to Christopher Mannes of the NYSDEC, dated May 3, 2021. The LNAPL removal activities consisted of applying a high vacuum to each well for a period of 30 to 330 minutes over 3 days, using an air-tight well cap equipped with a drop tube. The time that vacuum was applied to each well was based on field observations regarding the volume of recovered LNAPL. The system was re-started on May 13, 2021. A total of approximately 960 gallons of liquid were pumped from the selected wells into the vacuum truck. After settling overnight, approximately 110 gallons of LNAPL/water mixture were transferred from the truck to two labeled DOT-compliant 55-gallon steel drums, which were staged onsite pending characterization and offsite disposal. The remaining 850 gallons of liquid in the vacuum truck were transported offsite for disposal at the permitted Lewiston Water Pollution Control Center in Lewistown, New York (Enclosure C). WSP estimated that approximately 23 gallons of LNAPL were removed during the high-vacuum removal event based on the measured thickness of the LNAPL layer in each drum.

## **SUB-SLAB DEPRESSURIZATION SYSTEM**

- The sub-slab depressurization system (SSDS) installed in the eastern portion of the former Rollway Bearing facility was operational during the quarter (Figure 2). On April 21, May 11, and June 10, 2021, WSP conducted OM&M visits to ensure proper operation of the SSDS. The April and May inspections of the SSDS included collecting bimonthly vacuum readings from the SSD extraction points, and semi-annual vacuum readings from the vacuum monitoring locations (Figure 2). A similar inspection of the SSDS (vacuum readings of the SSDS extraction points only) occurred in June 2021. The vacuum readings obtained from the SSDS extraction points are documented on the SSDS Inspection Forms, which are included in Enclosure D.

## **ANNUAL SITE-WIDE INSPECTION**

- A site-wide inspection was performed on June 17, 2021, to evaluate compliance with the institutional controls and the continued effectiveness of engineering controls; to document general site conditions at the time of the inspection; and to evaluate compliance with requirements of the SMP and the Deed Restriction. The results of the annual site-wide inspection were provided in the Periodic Review Report (PRR), which was submitted to the NYSDEC and New York State Department of Health (NYSDOH) on July 21, 2021.

## **RESULTS OF SAMPLING AND TESTING**

- No sampling and testing was conducted during the reporting period.

## **REPORTS AND DELIVERABLES**

- As requested in the NYSDEC's March 12, 2021, approval of the SSDS Completion Report, WSP prepared and submitted on May 4, 2021, a revised SMP that reflects the modifications to the OM&M plan for the site as outlined in the SSDS Completion Report.
- WSP submitted the First Quarter 2021 Progress Report to the NYSDEC on May 13, 2021, which summarized activities conducted from January through March 2021.

## **PERCENTAGE OF COMPLETION**

WSP estimates that the project is 90 percent complete.

## **DIFFICULTIES/MODIFICATIONS TO WORK PLAN**

During the quarter, system operating parameters were generally within typical operating ranges with the following exceptions:



- The vacuum reading for OW-2 was below the typical operating readings (i.e., vacuum readings as low as -1.13 inches of water column ["WC"] compared to typical readings of -40 to -54 "WC). The flow to the recovery wells was rebalanced on June 10, 2021. This action did not resolve this issue. WSP will continue to monitor the vacuum readings for OW-2 to determine a potential cause of the low readings.
- RW-1 had an elevated vacuum reading on April 21, 2021 (i.e., -27.28 "WC compared to typical readings of -5 to -11 "WC). On June 10, 2021, the air flow from the recovery wells was rebalanced, which brought the vacuum for RW-1 into the appropriate range (i.e., -8.22 "WC).

## WORK PLANNED

The following work has or is anticipated to be undertaken from July through September 2021:

- On July 21, 2021, WSP submitted the PRR to the NYSDEC and NYSDOH, which covered the reporting period from June 21, 2020, through June 21, 2021.
- WSP will conduct an OM&M visit in August 2021 to ensure proper operation of the LNAPL recovery system and SSDS and to collect LNAPL thickness measurements. During the August 2021 OM&M site visit, WSP anticipates replacing the batteries in the digital vacuum gauges on each SSDS extraction point and balancing the flow and measuring the resulting vacuum at each extraction point.

Please contact us at (315) 655-3900 with any questions regarding this Second Quarter 2021 Progress Report, or other aspects of the project.

Sincerely yours,

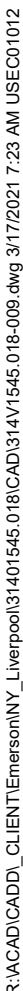
A handwritten signature in black ink that reads "Brian E. Silfer".

Brian E. Silfer, P.G.  
Practice Leader

Enclosures

cc/encl.: Mr. Johnathan Robinson, New York State Department of Health  
Mr. Stephen L. Clarke, Emerson  
Ms. Sheila M. Harvey, Esquire, Pillsbury Winthrop Shaw Pittman

FIGURES








ENCLOSURE A – OM&M LOG SHEETS

**Table 1**

**Checklist  
LNAPL Recovery System  
Former Rollway Bearing Facility  
Liverpool, NY**

Date: 4/12/21  
Arrival Time: 10:00  
Departure Time: \_\_\_\_\_

Inspector (print): Nate Winston  
Inspector (sign):   
Weather Conditions: 31°F, snow

Reason for Visit: OM&M and Gauging

**LNAPL Recovery System Skid**

Gauge	OM&M Reading		Typical Operation Reading	
	Reading	Units	Reading	Units
Inlet Vacuum: Before Vapor-Liquid Separator	<b>-54</b>	in H <sub>2</sub> O	<i>-58 to -62</i>	in H <sub>2</sub> O
Vacuum Before Air Filter	<b>-64</b>	in H <sub>2</sub> O	<i>-66 to -68</i>	in H <sub>2</sub> O
Vacuum After Air Filter/Before Blower Inlet	<b>-58</b>	in H <sub>2</sub> O	<i>-86</i>	in H <sub>2</sub> O
Discharge Stack Pressure	<b>3</b>	in H <sub>2</sub> O	<i>2</i>	in H <sub>2</sub> O
Discharge Stack Temperature	<b>120</b>	° F	<i>120 to 138</i>	° F
Kilowatt Hour Meter	<b>166031</b>	kWh	<i>-</i>	kWh

**LNAPL Recovery Wells**

Well ID	OM&M Reading		Typical Operation Reading	
	Vacuum (in H <sub>2</sub> O)	Flow (SCFM)	Vacuum (in H <sub>2</sub> O)	Flow (SCFM)
OW-2	<b>-7.00</b>	<b>9.0</b>	<i>-40 to -54</i>	<i>3 to 7</i>
RW-1	<b>-27.28</b>	<b>4.0</b>	<i>-5 to -11</i>	<i>5.5 to 7</i>
OW-3	<b>-4.45</b>	<b>7.0</b>	<i>-6 to -11</i>	<i>2 to 3</i>
OW-8	<b>-3.18</b>	<b>5.0</b>	<i>-8 to -10</i>	<i>4 to 11</i>

**Notable Observations:**

*Vacuum readings on OW-2, OW-3, and OW-8 were low compared to typical operation readings, and the vacuum reading on RW-1 was high compared to typical operation vacuum readings.*

**System Maintenance:**

Description of Maintenance Needed:

*Recover wells will be evaluated to determine the reason for low and high vacuum readings.*

Date of Maintenance Completion: On June 10, 2021, the air flow from the LNAPL Recovery wells was rebalanced, which brought the vacuum for RW-1 into the appropriate range.



**Table 1**

**Checklist  
LNAPL Recovery System  
Former Rollway Bearing Facility  
Liverpool, NY**

Date: 6/10/21

Inspector (print): Nate Winston

Arrival Time: 9:45

Inspector (sign): 

Departure Time: \_\_\_\_\_

Weather Conditions: 73°F, sunny

Reason for Visit: OM&M

**LNAPL Recovery System Skid**

Gauge	OM&M Reading		Typical Operation Reading	
	Reading	Units	Reading	Units
Inlet Vacuum: Before Vapor-Liquid Separator	<b>-54</b>	in H <sub>2</sub> O	<i>-58 to -62</i>	in H <sub>2</sub> O
Vacuum Before Air Filter	<b>-62</b>	in H <sub>2</sub> O	<i>-66 to -68</i>	in H <sub>2</sub> O
Vacuum After Air Filter/Before Blower Inlet	<b>-58</b>	in H <sub>2</sub> O	<i>-86</i>	in H <sub>2</sub> O
Discharge Stack Pressure	<b>2</b>	in H <sub>2</sub> O	<i>2</i>	in H <sub>2</sub> O
Discharge Stack Temperature	<b>120</b>	° F	<i>120 to 138</i>	° F
Kilowatt Hour Meter	<b>167695</b>	kWh	<i>-</i>	kWh

**LNAPL Recovery Wells**

Well ID	OM&M Reading		Typical Operation Reading	
	Vacuum (in H <sub>2</sub> O)	Flow (SCFM)	Vacuum (in H <sub>2</sub> O)	Flow (SCFM)
OW-2	<b>-1.13</b>	<b>6.0</b>	<i>-40 to -54</i>	<i>3 to 7</i>
RW-1	<b>-8.22</b>	<b>5.5</b>	<i>-5 to -11</i>	<i>5.5 to 7</i>
OW-3	<b>-0.88</b>	<b>5.5</b>	<i>-6 to -11</i>	<i>2 to 3</i>
OW-8	<b>-2.77</b>	<b>5.5</b>	<i>-8 to -10</i>	<i>4 to 11</i>

**Notable Observations:**

*On June 10, 2021, the air flow from the LNAPL Recovery wells was rebalanced, which brought the vacuum for RW-1 into the appropriate range.*

**System Maintenance:**

Description of Maintenance Needed:

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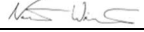
Date of Maintenance Completion:

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ENCLOSURE B – ABSORBENT INSPECTION/REPLACEMENT FORM

**Field Form for Absorbent Inspection/Replacement**  
**Former Rollway Bearing Facility**  
**Liverpool, New York**

Date: April 21, 2021  
Arrival Time: 10:00  
Departure Time: \_\_\_\_\_

Inspector (print): Nathaniel Winston  
Inspector (sign):   
Weather Conditions: 32 F, snow

Well ID	Staining (Y/N)	Absorbent Replaced (Y/N)	Spent Absorbent Weight (in grams)
RW-1	Y	Y	2116.0
RW-2	Y	Y	1003.5
OW-1	Y	Y	411.5
OW-2	Y	Y	607.0
OW-3	Y	Y	495.5
OW-4	Y	Y	406.0
OW-5	Y	Y	619.5
OW-8	*	-	-
SB-5	Y	Y	32
SB-7	*	-	-
SB-8	Y	Y	34
SB-10	*	-	-
OW-10/FB-1	Y	Y	684.1
OW-9/FB-2	Y	Y	402.5
OW-11/FB-4	Y	Y	379.6

\* = no absorbent in well

**Notable Observations:**

**Well Maintenance:**

Description of Maintenance Needed:

NA

Date of Maintenance Completion:

\_\_\_\_\_

**Field Form for Absorbent Inspection/Replacement**  
**Former Rollway Bearing Facility**  
**Liverpool, New York**

Date: June 10, 2021

Arrival Time: 9:45

Departure Time: \_\_\_\_\_

Inspector (print): Nathaniel Winston

Inspector (sign): 

Weather Conditions: 73 F, sunny

Well ID	Staining (Y/N)	Absorbent Replaced (Y/N)	Spent Absorbent Weight (in grams)
RW-1	Y	N	1880.5
RW-2	N	N	882
OW-1	Y	N	781.0
OW-2	Y	N	266.0
OW-3	Y	N	629.5
OW-4	N	N	371
OW-5	Y	N	299
OW-8	*	-	-
SB-5	Y	N	29.5
SB-7	*	-	-
SB-8	Y	N	36.5
SB-10	*	-	-
OW-10/FB-1	Y	N	578.0
OW-9/FB-2	Y	N	734.5
OW-11/FB-4	Y	N	1844

\* = no absorbent in well

**Notable Observations:**

*New absorbents will be installed in August 2021.*

**Well Maintenance:**

Description of Maintenance Needed:


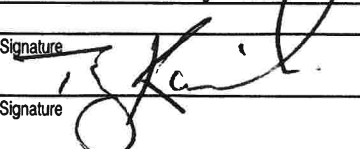
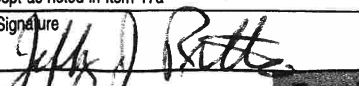
NA

Date of Maintenance Completion:

\_\_\_\_\_




## ENCLOSURE C – NON-HAZARDOUS WASTE MANIFEST

<b>NON-HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 822-828-7639	4. Waste Tracking Number	
5. Generator's Name and Mailing Address Rollway Bearing Corp 7000 East Genesee Fayetteville, NY 13066 412-375-0264 Generator's Phone:			Generator's Site Address (if different than mailing address) 7600 Midway Rd Liverpool, NY 13090			
6. Transporter 1 Company Name Hepco LLC			U.S. EPA ID Number NCD986194306			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address Town of Lewiston 501 Pletcher Rd Lewiston, NY 14092 716-754-8291 Facility's Phone:			U.S. EPA ID Number			
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.	
		No.	Type			
1. NON RCRA, NON DOT Regulated Material (Purge Water)		1	TT	850	G	
2.						
3.						
4.						
13. Special Handling Instructions and Additional Information Hepco PO# 812-100855 Hepco Job # 2195.070005						
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.						
Generator's/Offor's Printed/Typed Name KATE WINSTON		Signature 		Month Day Year 05 14 2021		
15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:				
16. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name TONY KAMINSKI		Signature 		Month Day Year 05 14 2021		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
17. Discrepancy						
17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number:						
17b. Alternate Facility (or Generator)			U.S. EPA ID Number			
Facility's Phone:						
17c. Signature of Alternate Facility (or Generator)			Month Day Year			
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a						
Printed/Typed Name JEFF RITTER		Signature 		Month Day Year 05 17 21		

## ENCLOSURE D – SUB-SLAB DEPRESSURIZATION SYSTEM INSPECTION FORMS

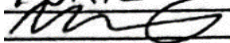
**Sub-Slab Depressurization System Inspection Form**  
**Former Rollway Bearing Corporation Facility**  
**Liverpool, New York**

<b>Date:</b> <u>4/21/2021</u>		<b>Inspector (print):</b> <u>Nate Winston</u>	
<b>Time:</b> <u>10:30</u>		<b>Inspector (sign):</b> 	
<b>Weather Conditions</b> 32 deg F, snowing			
<b>Reason for Visit (check all that apply):</b>			
Routine Inspection/O&M <input checked="" type="checkbox"/>		Response to Owner Notification _____	
Other _____			
<b>Vacuum Measurements</b>			
<b>SSD Extraction Point</b>	<b>Vacuum Reading (in W.C.)</b>	<b>SSD Extraction Point</b>	<b>Vacuum Reading (in W.C.)</b>
SSD-01	-8.53	SSD-13	-7.25
SSD-02	-0.91	SSD-14	-3.94
SSD-03	-25.94	SSD-15	-5.40
SSD-04	-27.87	SSD-16	-4.93
SSD-05	-0.49	SSD-17	-2.55
SSD-06	-26.02	SSD-18	-20.83
SSD-07	-25.60	SSD-19	-21.66
SSD-08	-0.80	SSD-20	-1.02
SSD-09	-26.11	SSD-21	-25.34
SSD-10	-26.55	SSD-22	-7.15
SSD-11	-1.35	SSD-23	-1.08
SSD-12	-18.96		
<b>SSD Risers</b>		Yes	No
Observable leaking connections			X
Riser piping supports secure	X		
Defective or damaged instrumentation			X
Damage to protective bollards or barriers			X
<b>Piping Network</b>			
Observable leaking connections			X
Lateral piping supports secure	X		
New air intakes within 10 ft of discharge points			X
<b>Discharge Fans</b>			
Inoperable fan(s)			X
<b>Other Notable Observations</b>			
NA			



Sub-Slab Vacuum Monitoring Form  
Former Rollway Bearing Corporation Facility  
Liverpool, New York


Date: 4/21/2021  
Time: 10:30

Inspector (print): Nate Winston  
Inspector (sign): 

Weather Conditions 32 deg F, snowing

Vacuum Monitoring Location	Vacuum Reading	Comments/Observations
SS-1	<u>-3.15</u> in. H <sub>2</sub> O	
SS-3	<u>-0.81</u> in. H <sub>2</sub> O	
SS-10	<u>-1.25</u> in. H <sub>2</sub> O	
SS-11	<u>-0.13</u> in. H <sub>2</sub> O	Was not accessible on 4/21/21; measured on May 11, 2021
SS-12	<u>-1.17</u> in. H <sub>2</sub> O	Was not accessible on 4/21/21; measured on May 11, 2021
SS-14	<u>-0.09</u> in. H <sub>2</sub> O	
SS-15	<u>-0.92</u> in. H <sub>2</sub> O	
SS-16	<u>-0.44</u> in. H <sub>2</sub> O	
SS-17	<u>-0.61</u> in. H <sub>2</sub> O	
SS-18	<u>-1.80</u> in. H <sub>2</sub> O	
MP-3	<u>-0.26</u> in. H <sub>2</sub> O	
MP-10	<u>-0.28</u> in. H <sub>2</sub> O	
MP-15	<u>-0.11</u> in. H <sub>2</sub> O	
MP-19	<u>-0.13</u> in. H <sub>2</sub> O	
MP-23	<u>-0.71</u> in. H <sub>2</sub> O	
MP-30	<u>-1.30</u> in. H <sub>2</sub> O	
MP-31	<u>-1.54</u> in. H <sub>2</sub> O	Was not accessible on 4/21/21; measured on May 11, 2021

**Sub-Slab Depressurization System Inspection Form**  
**Former Rollway Bearing Corporation Facility**  
**Liverpool, New York**

<b>Date:</b> <u>6/10/2021</u>		<b>Inspector (print):</b> <u>Nate Winston</u>	
<b>Time:</b> <u>9:45</u>		<b>Inspector (sign):</b> 	
<b>Weather Conditions</b> 73 deg F, sunny			
<b>Reason for Visit (check all that apply):</b>			
Routine Inspection/O&M <input checked="" type="checkbox"/>		Response to Owner Notification _____	
Other _____			
<b>Vacuum Measurements</b>			
<b>SSD Extraction Point</b>	<b>Vacuum Reading (in W.C.)</b>	<b>SSD Extraction Point</b>	<b>Vacuum Reading (in W.C.)</b>
SSD-01	-8.74	SSD-13	-7.36
SSD-02	-1.03	SSD-14	-4.11
SSD-03	-25.05	SSD-15	-5.92
SSD-04	-26.99	SSD-16	-4.06
SSD-05	-0.47	SSD-17	-2.74
SSD-06	-25.82	SSD-18	-20.41
SSD-07	-25.07	SSD-19	-20.19
SSD-08	-1.12	SSD-20	-1.29
SSD-09	-26.33	SSD-21	-25.01
SSD-10	-26.49	SSD-22	-7.64
SSD-11	-1.06	SSD-23	-1.18
SSD-12	-18.25		
<b>SSD Risers</b>		Yes	No
Observable leaking connections			X
Riser piping supports secure	X		
Defective or damaged instrumentation			X
Damage to protective bollards or barriers			X
<b>Piping Network</b>			
Observable leaking connections			X
Lateral piping supports secure	X		
New air intakes within 10 ft of discharge points			X
<b>Discharge Fans</b>			
Inoperable fan(s)			X
<b>Other Notable Observations</b>			
NA			