



VIA ELECTRONIC MAIL

November 15, 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: Third 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. (WSP) is submitting this Third 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 site from July through September 2021 and work planned for October through December 2021. The report was prepared in accordance with the requirements of the revised Site Management Plan, 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 July through September 2021:

LNAPL RECOVERY SYSTEM

- WSP conducted an operation, maintenance, and monitoring (OM&M) visit on August 24, 2021, to confirm proper operation of the light non-aqueous phase liquid (LNAPL) recovery system. The OM&M log is included in Enclosure A. The LNAPL recovery system was operational during the quarter.
- On August 24, 2021, WSP collected LNAPL thickness measurements from wells RW-1, RW-2, OW-1, OW-2, OW-3, OW-4, OW-5, OW-8, SB-5, SB-7, SB-8, SB-10, OW-9/FB-2, OW-10/FB-1, and OW-11/FB-4 (Figure 1). On completion of LNAPL thickness measurements, new absorbents were installed in all wells, except SB-7 and SB-10 because no product has been detected in these wells since at least December 2019.

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 August 24, 2021, WSP inspected the SSDS to ensure its proper operation, and collected bimonthly vacuum readings from the SSDS extraction points and semi-annual vacuum

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

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



readings from the vacuum monitoring locations. The vacuum readings obtained from the SSDS are documented on the inspection forms included in Enclosure B. During the August site inspection, WSP replaced the batteries in the digital vacuum gauges on each SSDS extraction point and balanced the flow before measuring the resulting vacuum at each extraction point.

RESULTS OF SAMPLING AND TESTING

- On August 24, 2021, measurable LNAPL was present in the following wells above the remedial action objective (i.e., LNAPL thickness greater than 0.01 foot): RW-1, OW-1, OW-2, OW-3, OW-5, OW-8, SB-5, SB-8, OW-9/FB-2, and OW-11/FB-4 (Figure 1). No measurable product was detected in wells RW-2, OW-4, SB-7, SB-10, and OW-10/FB-1.

REPORTS AND DELIVERABLES

- On July 21, 2021, WSP submitted the Periodic Review Report to the NYSDEC and the New York State Department of Health, which covered the reporting period from June 21, 2020, through June 21, 2021.
- WSP submitted the Second Quarter 2021 Progress Report to the NYSDEC on August 11, 2021, which summarized activities conducted from April through June 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 exception:

- The vacuum readings for the LNAPL recovery wells (i.e., OW-2, RW-1, OW-3, and OW-8) collected on August 24, 2021, were below the typical operating range; however, the flow from these wells was relatively uniform and, thus, no corrective action is recommended at this time. The lower vacuum readings are likely attributable to the use of a digital gauge for the vacuum readings. The typical operating range indicated on the field measurement form (Enclosure A) was based on historical readings obtained with an analog gauge.

WORK PLANNED

The following work has been completed, or is anticipated to be undertaken from October through December 2021:

- WSP conducted an OM&M visit on October 14, 2021, to ensure proper operation of the LNAPL recovery system and SSDS. The OM&M logs for this event will be provided in the next quarterly progress report.
- During the October 14, 2021, site visit, absorbent socks were removed from wells RW-1, OW-1, OW-2, OW-3, OW-5, OW-8, 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-compliant 55-gallon steel drum for subsequent characterization and offsite disposal. New absorbents were installed in the wells. The field form for this event will be provided in the next quarterly progress report.
- WSP will conduct an OM&M visit in December 2021 to ensure proper operation of the LNAPL recovery system and SSDS.



Please contact us at (315) 374-5574 with any questions regarding this Third Quarter 2021 Progress Report, or other aspects of the project.

Sincerely yours,

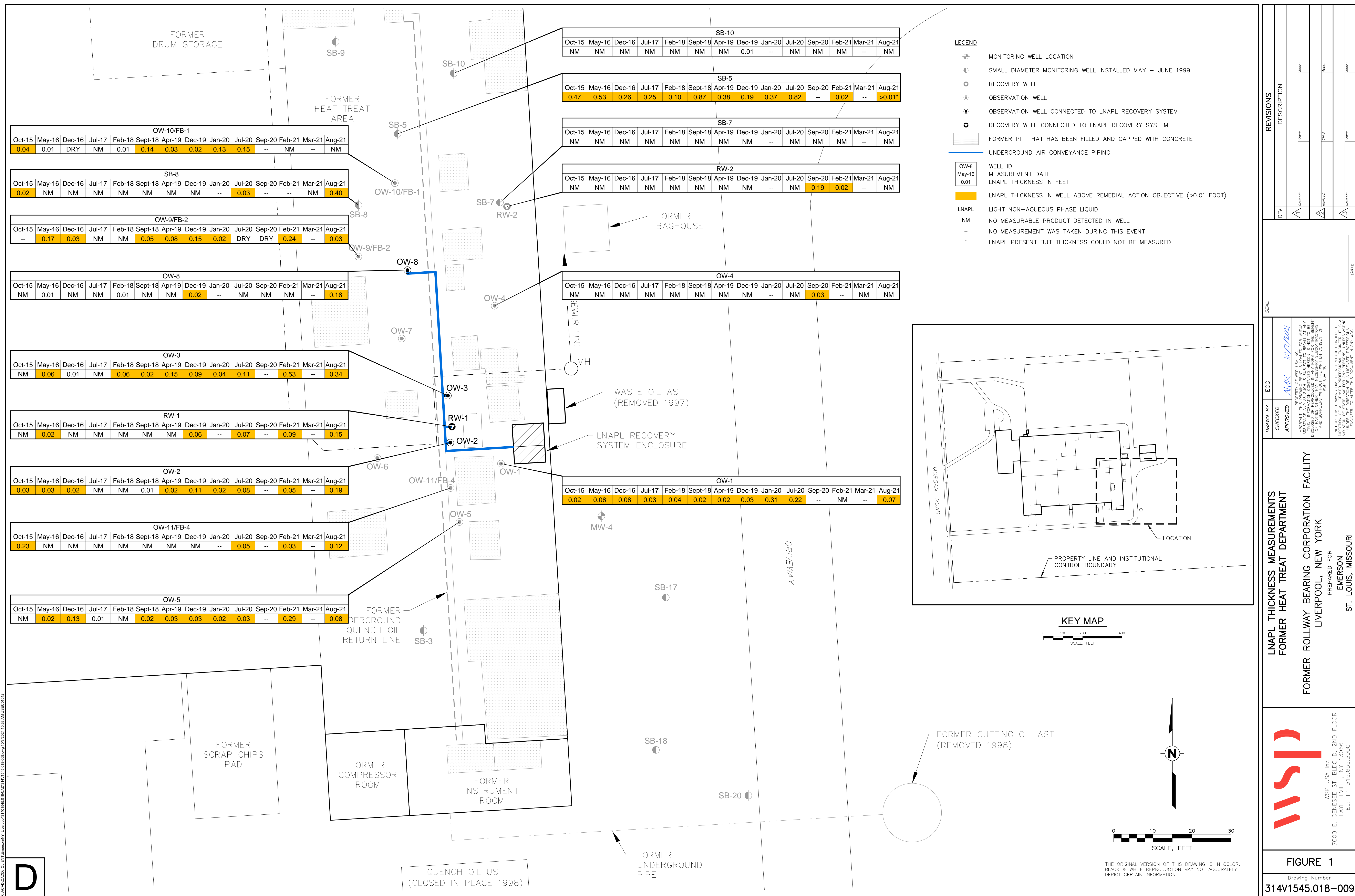
A handwritten signature in black ink that reads "Brian E. Silfer". The signature is fluid and cursive, with the first name being the most prominent.

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



R:\Shared_GISCAD\CADD\CLINT\EMERSON\NY\Liverpool_Fm_Railway\CADD\314P1545.018-D17.dwg 3/17/2021 3:38 PM URS0201165



D

ENCLOSURE A – OM&M LOG SHEET

Table 1

Checklist
LNAPL Recovery System
Former Rollway Bearing Facility
Liverpool, NY

Date: 8/24/21Inspector (print): Nate WinstonArrival Time: 9:00Inspector (sign): [Signature]

Departure Time: _____

Weather Conditions: 86°F, sunnyReason 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	-60	in H ₂ O	-58 to -62	in H ₂ O
Vacuum Before Air Filter	-68	in H ₂ O	-66 to -68	in H ₂ O
Vacuum After Air Filter/Before Blower Inlet	-64	in H ₂ O	-86	in H ₂ O
Discharge Stack Pressure	2	in H ₂ O	2	in H ₂ O
Discharge Stack Temperature	142	° F	120 to 138	° F
Kilowatt Hour Meter	170,307	kWh	-	kWh

LNAPL Recovery Wells

Well ID	OM&M Reading		Typical Operation Reading	
	Vacuum (in H ₂ O)	Flow (SCFM)	Vacuum (in H ₂ O)	Flow (SCFM)
OW-2	-1.67	6.0	-40 to -54	3 to 7
RW-1	-3.02	5.0	-5 to -11	5.5 to 7
OW-3	-1.40	5.5	-6 to -11	2 to 3
OW-8	-3.66	6.0	-8 to -10	4 to 11

Notable Observations:

The vacuum readings for the LNAPL recovery wells continue to be below the typical operating range, which is likely attributed to use of a digital gauge for the vacuum readings. The typical operating range used on the field measurement form is based on historical readings obtained with an analog gauge. However, the flow from the recovery wells is uniform and, thus, no corrective action is recommended at this time.


System Maintenance:

Description of Maintenance Needed:

Date of Maintenance Completion:

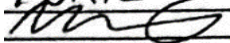
ENCLOSURE B – SUB-SLAB DEPRESSURIZATION SYSTEM INSPECTION FORMS

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

Date: <u>8/24/2021</u>		Inspector (print): <u>Nate Winston</u>	
Time: <u>9:00</u>		Inspector (sign): 	
Weather Conditions 86 deg F, sunny			
Reason for Visit (check all that apply):			
Routine Inspection/O&M <input checked="" type="checkbox"/>		Response to Owner Notification _____	
Other _____			
Vacuum Measurements			
SSD Extraction Point	Vacuum Reading (in W.C.)	SSD Extraction Point	Vacuum Reading (in W.C.)
SSD-01	-7.25	SSD-13	-5.28
SSD-02	-0.15	SSD-14	-2.59
SSD-03	-23.31	SSD-15	-4.36
SSD-04	-19.50	SSD-16	-3.83
SSD-05	-0.01	SSD-17	-1.37
SSD-06	-24.10	SSD-18	-0.24
SSD-07	-23.58	SSD-19	-18.34
SSD-08	-0.08	SSD-20	-0.49
SSD-09	-24.30	SSD-21	-22.63
SSD-10	-0.08	SSD-22	-2.82
SSD-11	-1.04	SSD-23	-0.62
SSD-12	-18.49		
SSD Risers	Yes	No	Comments/Corrective Action Taken
Observable leaking connections		X	
Riser piping supports secure	X		
Defective or damaged instrumentation		X	Replaced batteries in the digital vacuum gauges on each SSDS extraction point
Damage to protective bollards or barriers		X	
Piping Network			
Observable leaking connections		X	
Lateral piping supports secure	X		
New air intakes within 10 ft of discharge points		X	
Discharge Fans			
Inoperable fan(s)		X	
Other Notable Observations			
NA			

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

Date: 8/24/2021
Time: 9:00

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

Weather Conditions 86 deg F, sunny

Vacuum Monitoring Location	Vacuum Reading	Comments/Observations
SS-1	<u>-3.13</u> in. H ₂ O	Was not accessible on 8/24/21; measured on 10/14/21
SS-3	<u>-0.61</u> in. H ₂ O	
SS-10	<u>-1.40</u> in. H ₂ O	
SS-11	<u>-0.15</u> in. H ₂ O	
SS-12	<u>-1.30</u> in. H ₂ O	
SS-14	<u>-0.15</u> in. H ₂ O	
SS-15	<u>-1.43</u> in. H ₂ O	
SS-16	<u>-1.01</u> in. H ₂ O	
SS-17	<u>-0.22</u> in. H ₂ O	
SS-18	<u>-3.66</u> in. H ₂ O	
MP-3	<u>-0.42</u> in. H ₂ O	
MP-10	<u>-0.44</u> in. H ₂ O	
MP-15	<u>-0.45</u> in. H ₂ O	
MP-19	<u>-0.13</u> in. H ₂ O	
MP-23	<u>-0.75</u> in. H ₂ O	
MP-30	<u>-1.49</u> in. H ₂ O	
MP-31	<u>-1.96</u> in. H ₂ O	