VIA ELECTRONIC MAIL

November 14, 2022

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 2022 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 2022 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 2022, and work planned for October through December 2022. 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 July through September 2022:

LNAPL RECOVERY SYSTEM

- From August 17 through 19, 2022, Emerson performed a voluntary high-vacuum removal event using a vacuum truck to remove residual light non-aqueous phase liquid (LNAPL) primarily from wells OW-2, OW-3, OW-5, OW-11/FB-4, and RW-1 (Figure 1). Vacuum was also applied to SB-5 and SB-8 for approximately 20 minutes; however, these were essentially dry due to low rainfall over the summer months. The LNAPL removal activities were conducted in accordance with WSP's email to Christopher Mannes of the NYSDEC, dated May 3, 2021, and consisted of applying a high vacuum to the wells using an air-tight well cap equipped with a drop tube. During the 3-day event, approximately 745 gallons of liquid were removed from the wells and pumped into a vacuum truck. The vacuum truck remained onsite for 3 days to allow time for the emulsified quench oil to form a separate-phase layer on the surface for measurement.
- On August 22, 2022, WSP measured 0.015 foot of LNAPL in the vacuum truck tank, which is equivalent to approximately 9 gallons (or approximately 1 percent of the recovered liquid). The recovered liquids were transported offsite for disposal at the permitted Covanta Environmental Solutions facility in Oriskany, New York (Enclosure A). On completion of the high-vacuum removal event, the system's vacuum blower was left off and the absorbents were left suspended above the water table in the targeted wells to evaluate LNAPL recovery under ambient conditions.
- WSP conducted an operation, maintenance, and monitoring (OM&M) visit on August 31, 2022. During the visit, WSP obtained LNAPL thickness measurements from the wells targeted during the high-vacuum removal event. The

measurements indicated the presence of 0.09 foot of LNAPL in OW-3, 0.02 foot of LNAPL in OW-5, 0.03 foot of LNAPL in OW-11/FB-4, and 0.01 foot of LNAPL in RW-1 (Figure 1; Table 1). Wells SB-5 and SB-8 were dry. Therefore, LNAPL had accumulated in wells OW-3, OW-5, and OW-11/FB-4 above the remedial action objective of 0.01 foot within 12 days of completing the high-vacuum removal event.

- During the August 31 OM&M visit, absorbent socks that were left suspended in wells RW-1, OW-2, OW-3, OW-5, and OW-11/FB-4 following the high-vacuum removal event were re-deployed into the water column. The absorbent in well OW-1 was replaced. The absorbents in the remaining wells were not replaced because no significant staining was observed on the absorbents (Enclosure B). The spent absorbents were weighed and placed in a U.S. Department of Transportation (DOT)-compliant 55-gallon steel drum for subsequent characterization and offsite disposal. On completion of the OM&M activities, the LNAPL recovery system vacuum blower was restarted and system performance measurements were collected. The OM&M log is included in Enclosure C.

SUB-SLAB DEPRESSURIZATION SYSTEM

- The sub-slab depressurization system (SSDS) installed in the eastern portion of the facility was operational during the quarter (Figure 2). On August 31, 2022, WSP inspected the SSDS to ensure its proper operation and collected bimonthly vacuum readings from the SSDS extraction points. The vacuum readings obtained from the SSDS extraction points are documented on the SSDS Inspection Form, which is included in Enclosure D and summarized in Table 2.

RESULTS OF SAMPLING AND TESTING

- On August 31, 2022, measurable LNAPL was present in wells OW-3, OW-5, and OW-11/FB-4 (Figure 1; Table 1).
- WSP estimates that approximately 9 gallons of LNAPL were removed from the wells during the reporting period.

REPORTS AND DELIVERABLES

- On July 11, 2022, WSP submitted the Periodic Review Report (PRR) to the NYSDEC and New York State Department of Health, which covered the reporting period from June 21, 2021, through June 21, 2022.
- WSP submitted the Second Quarter 2022 Progress Report to the NYSDEC on August 2, 2022, which summarized activities conducted from April through June 2022.

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 readings for LNAPL recovery wells OW-2 and OW-8, collected on August 31, 2022, 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 (Enclosure C).

WORK PLANNED

The following work has been completed, or is anticipated to be undertaken in October through December 2022:

- WSP conducted an OM&M visit on October 12, 2022, to ensure proper operation of the LNAPL recovery system and SSDS. The O&M logs for this event will be provided in the Fourth Quarter 2022 Progress Report.
- During the October 12, 2022, site visit, absorbent socks were removed from wells RW-1, RW-2, OW-1, OW-2, OW-3, OW-4, 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 DOT-compliant 55-gallon steel drum for subsequent characterization and offsite disposal. The field form for this event will be provided in the next quarterly progress report.

- In November 2022, WSP will collect LNAPL thickness measurements from all wells, and on completion of the measurements, new absorbents will be installed in all applicable wells.
- In December 2022, WSP will conduct an OM&M visit 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 2022 Progress Report, or other aspects of the project.

Sincerely yours,

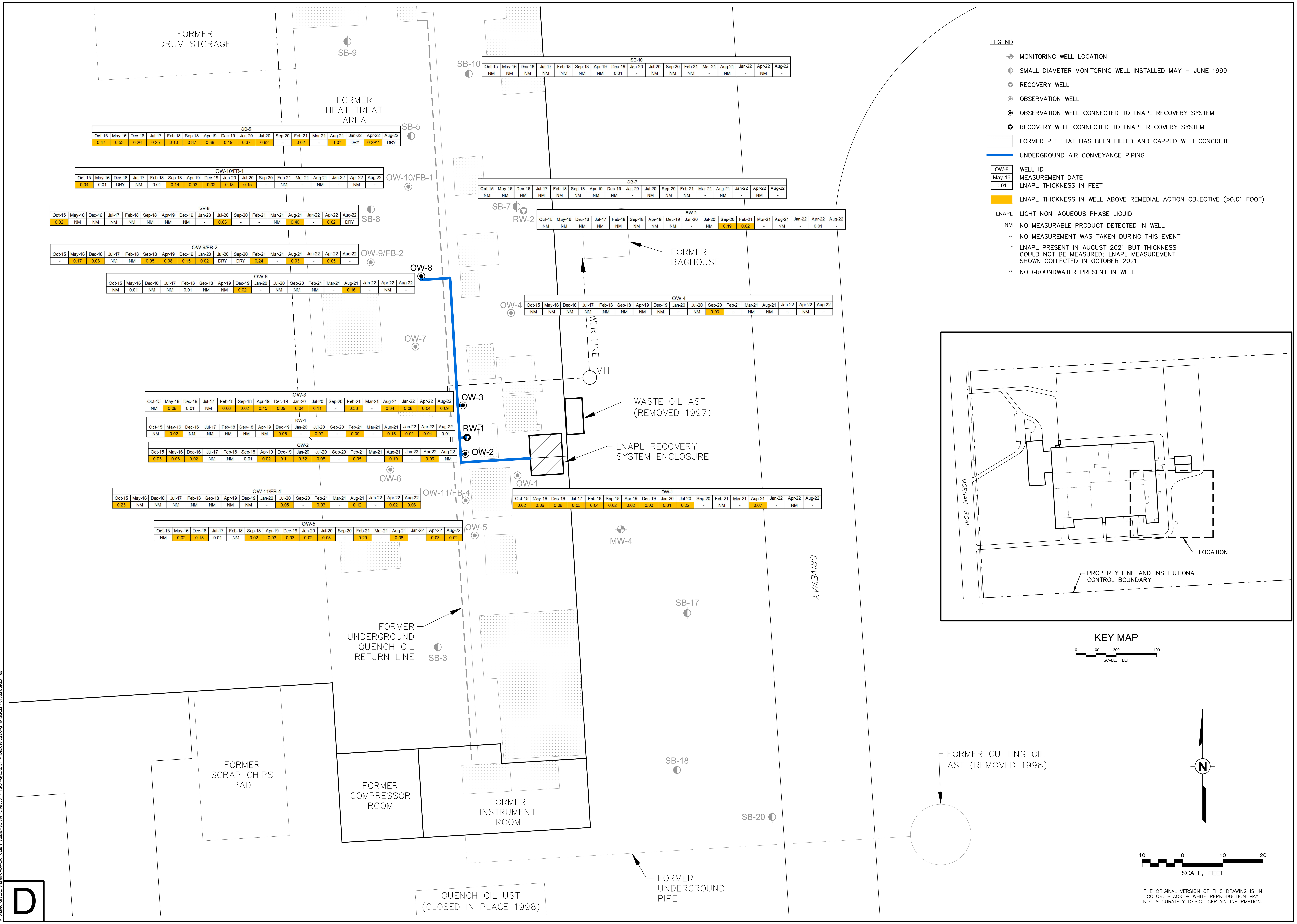
Brian E. Silfer, P.G.
Practice Leader

BES:rlo
K:\Emerson\LipeRollway\Reports\Quarterly Reports\2022\

Enclosures

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

FIGURES



Well	Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sep-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20	Feb-21	Mar-21	Aug-21	Jan-22	Apr-22	Aug-22
SB-10	NM	NM	NM	NM	NM	NM	NM	0.01	-	NM	NM	NM	-	NM	-	NM	-
SB-5	0.47	0.53	0.26	0.25	0.10	0.87	0.38	0.19	0.37	0.82	-	0.02	-	1.0*	DRY	0.29**	DRY
OW-10/FB-1	0.04	0.01	DRY	NM	0.01	0.14	0.03	0.02	0.13	0.15	-	NM	-	NM	-	NM	-
SB-7	NM	NM	NM	NM	NM	NM	NM	NM	-	NM	NM	NM	-	NM	-	NM	-
SB-8	0.02	NM	NM	NM	NM	NM	NM	NM	-	0.03	-	-	NM	0.40	-	0.02	DRY
RW-2	NM	NM	NM	NM	NM	NM	NM	NM	-	NM	0.19	0.02	-	NM	-	0.01	-
OW-9/FB-2	-	0.17	0.03	NM	NM	0.05	0.08	0.15	0.02	DRY	DRY	0.24	-	0.03	-	0.05	-
OW-8	NM	0.01	NM	NM	0.01	NM	NM	0.02	-	NM	NM	NM	-	0.16	-	NM	-
OW-4	NM	NM	NM	NM	NM	NM	NM	NM	-	NM	0.03	-	NM	NM	-	NM	-
OW-3	NM	0.06	0.01	NM	0.06	0.02	0.15	0.09	0.04	0.11	-	0.53	-	0.34	0.08	0.04	0.09
RW-1	NM	0.02	NM	NM	NM	NM	NM	0.06	-	0.07	-	0.09	-	0.15	0.02	0.04	0.01
OW-2	0.03	0.03	0.02	NM	NM	0.01	0.02	0.11	0.32	0.08	-	0.05	-	0.19	-	0.06	NM
OW-11/FB-4	0.23	NM	NM	NM	NM	NM	NM	NM	-	0.05	-	0.03	-	0.12	-	0.02	0.03
OW-1	0.02	0.06	0.06	0.03	0.04	0.02	0.02	0.03	0.31	0.22	-	NM	-	0.07	-	NM	-
OW-5	NM	0.02	0.13	0.01	NM	0.02	0.03	0.03	0.02	0.03	-	0.29	-	0.08	-	0.03	0.02

LEGEND

- MONITORING WELL LOCATION
- SMALL DIAMETER MONITORING WELL INSTALLED MAY – JUNE 1999
- RECOVERY WELL
- OBSERVATION WELL
- OBSERVATION WELL CONNECTED TO LNAPL RECOVERY SYSTEM
- RECOVERY WELL CONNECTED TO LNAPL RECOVERY SYSTEM
- FORMER PIT THAT HAS BEEN FILLED AND CAPPED WITH CONCRETE
- UNDERGROUND AIR CONVEYANCE PIPING
- OW-8 — WELL ID; May-16 — MEASUREMENT DATE; 0.01 — LNAPL THICKNESS IN FEET
- LNAPL THICKNESS IN WELL ABOVE REMEDIAL ACTION OBJECTIVE (>0.01 FOOT)
- LNAPL — LIGHT NON–AQUEOUS PHASE LIQUID
- NM — NO MEASURABLE PRODUCT DETECTED IN WELL
- -- — NO MEASUREMENT WAS TAKEN DURING THIS EVENT
- * — LNAPL PRESENT IN AUGUST 2021 BUT THICKNESS COULD NOT BE MEASURED; LNAPL MEASUREMENT SHOWN COLLECTED IN OCTOBER 2021
- ** — NO GROUNDWATER PRESENT IN WELL

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

REVISIONS

REV	DESCRIPTION		
1	Revised:	Chkd:	Appr.:
2	Revised:	Chkd:	Appr.:
3	Revised:	Chkd:	Appr.:

SEAL

DATE

DRAWN BY RAZ 09272022
CHECKED AMR 09272022
APPROVED

LNAPL THICKNESS MEASUREMENTS
FORMER HEAT TREAT DEPARTMENT

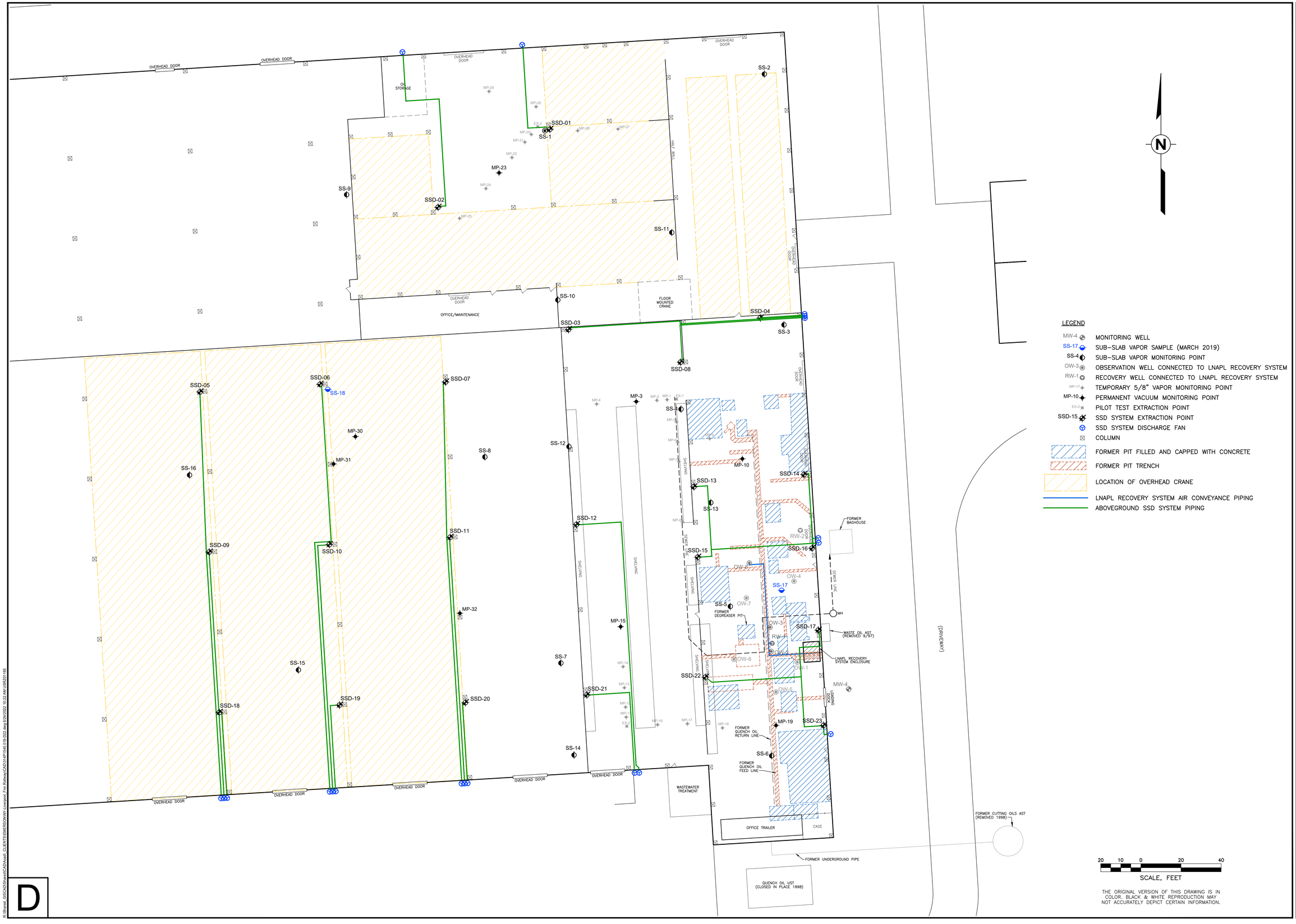
FORMER ROLLWAY BEARING CORPORATION FACILITY
LIVERPOOL, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

WSP USA Inc.
250 W. 34th STREET, 4th FLOOR
NEW YORK, NY 10119
TEL: +1 212.465.5000

FIGURE 1

Drawing Number
314P1545.018–D23



LEGEND

MW-4	MONITORING WELL
SS-17	SUB–SLAB VAPOR SAMPLE (MARCH 2019)
SS-4	SUB–SLAB VAPOR MONITORING POINT
OW-3	OBSERVATION WELL CONNECTED TO LNAPL RECOVERY SYSTEM
RW-1	RECOVERY WELL CONNECTED TO LNAPL RECOVERY SYSTEM
MP-17	TEMPORARY 5/8" VAPOR MONITORING POINT
MP-10	PERMANENT VACUUM MONITORING POINT
EX-2	PILOT TEST EXTRACTION POINT
SSD-15	SSD SYSTEM EXTRACTION POINT
	SSD SYSTEM DISCHARGE FAN
☒	COLUMN
▨	FORMER PIT FILLED AND CAPPED WITH CONCRETE
▨	FORMER PIT TRENCH
▨	LOCATION OF OVERHEAD CRANE
—	LNAPL RECOVERY SYSTEM AIR CONVEYANCE PIPING
—	ABOVEGROUND SSD SYSTEM PIPING

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

REVISIONS

REV	DESCRIPTION
1	Revised: Chkd: Appr.:
2	Revised: Chkd: Appr.:
3	Revised: Chkd: Appr.:

SEAL

DATE

DRAWN BY	RAZ 06242022
CHECKED	AMR 06242022
APPROVED	

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SUB–SLAB DEPRESSURIZATION SYSTEM LAYOUT

FORMER ROLLWAY BEARING FACILITY
LIVERPOOL, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

WSP USA Inc.
250 W. 34th STREET, 4th FLOOR
NEW YORK, NY 10119
TEL: +1 212.465.5000

FIGURE 2

Drawing Number
314P1545.002–D22

D

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TABLES

Table 1

LNAPL Thickness Measurements in Former Heat Treat Department
Former Rollway Bearing Corporation Facility
Liverpool, New York

Well	LNAPL Measurement (feet)																
	Oct-15	*May-16*	*Dec-16*	*Jul-17*	*Feb-18*	*Sep-18*	*Apr-19*	*Dec-19*	*Jan-20*	*Jul-20*	*Sep-20*	*Feb-21*	*Mar-21*	*Aug-21*	*Jan-22*	*Apr-22*	*Aug-22*
OW-1	0.02	0.06	0.06	0.03	0.04	0.02	0.02	0.03	0.31	0.22	-	NM	-	0.07	-	NM	-
OW-2	0.03	0.03	0.02	NM	NM	0.01	0.02	0.11	0.32	0.08	-	0.05	-	0.19	-	0.06	NM
OW-3	NM	0.06	0.01	NM	0.06	0.02	0.15	0.09	0.04	0.11	-	0.53	-	0.34	0.08	0.04	0.09
OW-4	NM	NM	NM	NM	NM	NM	NM	NM	-	NM	0.03	-	NM	NM	-	NM	-
OW-5	NM	0.02	0.13	0.01	NM	0.02	0.03	0.03	0.02	0.03	-	0.29	-	0.08	-	0.03	0.02
OW-8	NM	0.01	NM	NM	0.01	NM	NM	0.02	-	NM	NM	NM	-	0.16	-	NM	-
OW-9/FB-2	-	0.17	0.03	NM	NM	0.05	0.08	0.15	0.02	DRY	DRY	0.24	-	0.03	-	0.05	-
OW-10/FB-1	0.04	0.01	DRY	NM	0.01	0.14	0.03	0.02	0.13	0.15	-	NM	-	NM	-	NM	-
OW-11/FB-4	0.23	NM	NM	NM	NM	NM	NM	NM	-	0.05	-	0.03	-	0.12	-	0.02	0.03
RW-1	NM	0.02	NM	NM	NM	NM	NM	0.06	-	0.07	-	0.09	-	0.15	0.02	0.04	0.01
RW-2	NM	NM	NM	NM	NM	NM	NM	NM	-	NM	0.19	0.02	-	NM	-	0.01	-
SB-5	0.47	0.53	0.26	0.25	0.10	0.87	0.38	0.19	0.37	0.82	-	0.02	-	1.0*	DRY	0.29**	DRY
SB-7	NM	NM	NM	NM	NM	NM	NM	NM	-	NM	NM	NM	-	NM	-	NM	-
SB-8	0.02	NM	NM	NM	NM	NM	NM	NM	-	0.03	-	-	NM	0.40	-	0.02	DRY
SB-10	NM	NM	NM	NM	NM	NM	NM	0.01	-	NM	NM	NM	-	NM	-	NM	-

Notes:

LNAPL = light non-aqueous phase liquid

LNAPL thickness above remedial action objective (> 0.01 foot).

NM = No measurable product detected in well.

"-" = No measurement collected during this event.

* = LNAPL present in August 2021 but thickness could not be measured; LNAPL measurement shown collected in October 2021.

** = No groundwater present in well.

Table 2

SSDS Monitoring and Maintenance Summary
Former Rollway Bearing Corporation Facility
Liverpool, New York (a)

SSDS Extraction Points	**Vacuum (inches water column)**										
Date:	*9/18/2020 (start-up)*	*1/21/2021*	*4/21/2021*	*6/10/2021*	*8/24/2021*	*10/14/2021*	*12/6/2021*	*2/28/2022*	*4/4/2022*	*6/2/2022*	*8/31/2022*
SSD-01	-9.34	-8.02	-8.53	-8.74	-7.25	-7.85	-8.48	-8.66	-8.53	-7.65	-6.95
SSD-02 (b)	-0.77	NM	-0.91	-1.03	-0.15	-0.48	-0.80	-0.81	-0.81	-0.45	-0.34
SSD-03	-24.27	-25.72	-25.94	-25.05	-23.31	-24.04	-0.50	-0.25	-36.01	-35.00	-28.80
SSD-04	-31.52	-30.51	-27.87	-26.99	-19.50	-20.78	-27.30	-27.14	-28.40	-19.90	-18.22
SSD-05 (b)	-0.38	NM	-0.49	-0.47	-0.01	-0.19	-0.48	-0.64	-0.39	-0.53	-0.34
SSD-06	-24.03	-25.12	-26.02	-25.82	-24.10	-25.32	-26.47	-26.14	-26.07	-23.88	-24.25
SSD-07	-24.68	-25.56	-25.60	-25.07	-23.58	-23.61	-23.50	-24.02	-22.70	-22.39	-22.11
SSD-08 (b)	-0.36	NM	-0.80	-1.12	-0.08	-0.41	-0.71	-0.89	-0.62	-0.44	-0.33
SSD-09	-24.59	-25.85	-26.11	-26.33	-24.30	-25.08	-26.07	-25.94	-25.74	-24.80	-24.60
SSD-10	-25.56	-26.32	-26.55	-26.49	-0.08	-0.41	-0.48	-0.56	-0.42	-0.38	-0.32
SSD-11 (b)	-0.79	NM	-1.35	-1.06	-1.04	-1.54	-1.21	-1.28	-0.90	-0.87	-0.85
SSD-12	-25.80	-27.86	-18.96	-18.25	-18.49	-19.01	-18.44	-18.91	-17.01	-0.42	-0.47
SSD-13	-5.11	-5.85	-7.25	-7.36	-5.28	-5.44	-6.12	-6.02	-6.12	-5.55	-5.67
SSD-14	-3.10	-3.32	-3.94	-4.11	-2.59	-3.03	-3.60	-3.89	-0.55	-3.07	-3.05
SSD-15	-4.05	-4.86	-5.40	-5.92	-4.36	-4.58	-5.04	-5.96	-5.03	-4.65	-4.76
SSD-16	-4.29	-4.45	-4.93	-4.06	-3.83	-4.20	-4.74	-4.02	-4.66	-4.36	-4.26
SSD-17	-2.36	-2.09	-2.55	-2.74	-1.37	-1.09	-1.61	-2.01	-1.58	-1.16	-3.11
SSD-18	-21.84	-25.69	-20.83	-20.41	-0.24	-20.45	-18.33	-19.12	-27.63	-24.88	-18.47
SSD-19	-21.28	-21.14	-21.66	-20.19	-18.34	-19.66	-21.24	-20.99	-21.15	-0.20	-0.20
SSD-20 (b)	-0.76	NM	-1.02	-1.29	-0.49	-1.02	-1.09	-1.06	-0.88	-0.81	-0.78
SSD-21	-23.15	-25.06	-25.34	-25.01	-22.63	-23.87	-25.20	-25.02	-25.00	-23.49	-22.94
SSD-22	-5.45	-6.28	-7.15	-7.64	-2.82	-3.17	-3.63	-4.11	-3.64	-3.33	-3.22
SSD-23	-0.56	-0.85	-1.08	-1.18	-0.62	-1.31	-1.49	-1.80	-1.30	-1.01	-0.92
Were flows adjusted?	No	No	No	No	No	No	No	No	No	No	No

a/ SSDS = sub-slab depressurization system; NM = not measured.

b/ Fan turned off because insufficient flow to operate within the manufacturer's specifications.

ENCLOSURE A – WASTE DISPOSAL DOCUMENTATION

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone: 800-888-7689

4. Waste Tracking Number

5. Generator's Name and Mailing Address: KOLLMAN BETTKING CORP. 7600 MORGAN RD. LIVERPOOL, NY 13090

Generator's Phone: (412) 375-0241

Generator's Site Address (if different than mailing address): 7600 MORGAN RD. LIVERPOOL, NY 13090

6. Transporter 1 Company Name: HEPACO, LLC

U.S. EPA ID Number: NCD986194306

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: COVANTA ENVIRONMENTAL SOLUTIONS, 120 DRY RD. ORISKANY, NY 13424

U.S. EPA ID Number

Facility's Phone: (315) 736-6080

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON-RCRA, NON-DOT REGULATED MATERIAL (QUENCH OIL/WATER MIXTURE)	1	TT	746	G	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

HEPACO SO # 2285.120026

HEPACO P.O. # 812-101361

E-MAIL TO: APINVOICE@HEPACO.COM

CES Approval # 5013038

GENERATOR

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/Offeror's Printed/Typed Name: BRIAN SILFER ON BEHALF OF EMERSON

Signature: Electric Co.

Month: 8 Day: 19 Year: 22

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: TONY KAMINSKI

Signature

Month: 08 Day: 19 Year: 2022

Transporter 2 Printed/Typed Name

Signature

Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ 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

Signature

Month: Day: Year:

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

ENCLOSURE B – ABSORBENT INSPECTION/REPLACEMENT FORM

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

Date: August 31, 2022 Inspector (print): Nathaniel Winston
Arrival Time: 10:00 Inspector (sign): _____
Departure Time: _____ Weather Conditions: 69 F, sunny

Well ID	Staining (Y/N)	Absorbent Replaced (Y/N)	Spent Absorbent Weight (in grams)
RW-1	(a)	(a)	(a)
RW-2	N	N	-
OW-1	Y	Y	389
OW-2	(a)	(a)	(a)
OW-3	(a)	(a)	(a)
OW-4	N	N	-
OW-5	(a)	(a)	(a)
OW-8	<5%	N	-
SB-5	(a)	(a)	(a)
SB-7	*	-	-
SB-8	(a)	(a)	(a)
SB-10	*	-	-
OW-10/FB-1	<5%	N	-
OW-9/FB-2	N	N	-
OW-11/FB-4	(a)	(a)	(a)

* = no absorbent in well
a/ Well included in high-vacuum event that occurred from August 17 to 19, 2022. Existing absorbents were temporarily removed during high vacuum LNAPL recovery event and then either re-deployed or replaced on August 31, 2022.

Notable Observations:

_____

Well Maintenance:

Description of Maintenance Needed:

_____

Date of Maintenance Completion:

_____

ENCLOSURE C – OM&M LOG SHEETS

Table 1

Checklist
LNAPL Recovery System
Former Rollway Bearing Facility
Liverpool, NY

Date: ___8/31/22_____
Arrival Time: _09:30_____
Departure Time: _____

Inspector (print): _____Nate Winston_____
Inspector (sign): ____[signature]_____
Weather Conditions: _____69°F, sunny

Reason for Visit: _____OM&M and restart of system after high-vacuum LNAPL recovery event*

LNAPL Recovery System Skid

Gauge	OM&M Reading		Typical Operation Reading	
	Reading	Units	Reading	Units
Inlet Vacuum: Before Vapor-Liquid Separator	**-50**	in H_2O	*-58 to -62*	in H_2O
Vacuum Before Air Filter	**-60**	in H_2O	*-66 to -68*	in H_2O
Vacuum After Air Filter/Before Blower Inlet	**-56**	in H_2O	*-86*	in H_2O
Discharge Stack Pressure	**2**	in H_2O	*2*	in H_2O
Discharge Stack Temperature	**70**	° F	*120 to 138*	° F
Kilowatt Hour Meter	**181,490**	kWh	-	kWh

LNAPL Recovery Wells

Well ID	OM&M Reading		Typical Operation Reading	
	Vacuum (in H_2O)	Flow (SCFM)	Vacuum (in H_2O)	Flow (SCFM)
OW-2	**-9.15**	**5.0**	*-40 to -54*	*3 to 7*
RW-1	**-10.4**	**5.0**	*-5 to -11*	*5.5 to 7*
OW-3	**-6.99**	**6.5**	*-6 to -11*	*2 to 3*
OW-8	**-5.11**	**6.0**	*-8 to -10*	*4 to 11*

Notable Observations:

**System was started immediately prior to readings.*

System Maintenance:

Description of Maintenance Needed:

_____

Date of Maintenance Completion:

_____

ENCLOSURE D – SUB-SLAB DEPRESSURIZATION SYSTEM INSPECTION FORMS

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

Date:	**8/31/2022**	**Inspector (print):**	Nate Winston
Time:	**10:00**	**Inspector (sign):**	

Weather Conditions 69 deg F, sunny

Reason for Visit (check all that apply):

Routine Inspection/O&M	**X**	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	-6.95	SSD-13	-5.67
SSD-02	-0.34	SSD-14	-3.05
SSD-03*	-28.80	SSD-15	-4.76
SSD-04	-18.22	SSD-16	-4.26
SSD-05	-0.34	SSD-17	-3.11
SSD-06	-24.25	SSD-18	-18.47
SSD-07	-22.11	SSD-19	-0.20
SSD-08	-0.33	SSD-20	-0.78
SSD-09	-24.60	SSD-21	-22.94
SSD-10	-0.32	SSD-22	-3.22
SSD-11	-0.85	SSD-23	-0.92
SSD-12	-0.47		

SSD Risers	Yes	No	Comments/Corrective Action Taken
Observable leaking connections		X	
Riser piping supports secure	X		
Defective or damaged instrumentation		X	
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