

450 UNION STREET NAPL GAUGING AND RECOVERY MONTHLY REPORT JUNE

BCP Site No. C224219

This report serves to document Dense Non-Aqueous Phase Liquid (DNAPL) gauging and recovery performed by GZA GeoEnvironmental, Inc. (GZA), on behalf of National Grid, at the 450 Union Street property in Brooklyn, New York (Site). Consistent with the October 2020 Remedial Action Work Plan (RAWP) prepared by Langan on behalf of 450 Union LLC and 450 Union Developer LLC, DNAPL gauging, and recovery was performed at two wells (RW-01 and RW-02) which are located on the eastern portion of the Site.

Summary of Field Activities:

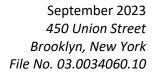
On June 8, 2023, GZA performed DNAPL gauging and recovery at RW-01 and RW-02. The table below provides
a summary of this event, and the attached **Table 1** summarizes gauging and recovery data collected by GZA
to date.

		Post Reco	overy				
Well ID	Date	Depth to Water (ft)	Depth to NAPL (ft)	DNAPL Thickness (ft)	DNAPL Volume Removed (gal)	Depth to NAPL (ft)	DNAPL Thickness (ft)
RW-01	6/8/23	11.00	38.60	10.30	40	Trace	Trace
RW-02	6/8/23	11.10	45.40	12.95	140	56.5	1.85

- The area around each well was covered with polyethylene sheeting prior to performance of gauging and recovery activities.
- Approximately 180 gallons of DNAPL/water mixture was recovered from the two wells during the June 8,
 2023, recovery event with a submersible pump and the Pulse Pump ® Model LP1301.
- The recovered DNAPL/water and polyethylene sheeting/PPE were containerized in 55-gallon drums. These
 drums were transported off-Site for disposal by Miller Environmental Group at the Norlite facility in Cohoes,
 New York. A copy of the disposal manifest is attached.

Attachments: Table 1: Summary of NAPL Gauging and Recovery Activities

Attachment A: Disposal Manifest





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•		onal as defined in 6 NYCRR Part 375 and that egulations and in substantial conformance with
the DER Technical Guidance for Site Investig	gation and Remediation (DER-10).	
James J. Clark, P.E., LEP	9/11/2023	Jones J. Clark
Qualified Environmental Professional		Signature



TABLE 1 SUMMARY OF NAPL GAUGING ACTIVITIES

TABLE 1 Summary of NAPL Gauging and Recovery Activities

450 Union Street Brooklyn, NY

Location		to DNAPL Reco			NAPL Recove		Volume of DNAPL Removed	Cumulative Volume of DNAPL Removed	Comments	
	Date	Depth to DNAPL (ft.)	DNAPL Thickness (ft)	Date/Time	Depth to DNAPL (ft.)	DNAPL Thickness (ft)	(gallons)	(gallons)		
RW-01 Total well depth = 48.90 ft.	4/19/2022	38.2	10.7	4/19/22 8:30	Trace	Trace	14	14	Flooding oberved prior to DNAPL recovery	
	5/20/2022	40	8.90	5/20/22 8:55	Trace	Trace	20	34	Some flooding oberved prior to DNAPL recovery	
	6/21/2022	39.17	9.73	6/21/2022	Trace	Trace	40	74	No flooding oberved	
	7/28/2022	39.34	9.56	7/28/2022	Trace	Trace	16	90	Flooding oberved prior to DNAPL recovery	
	8/30/2022	39.15	9.75	8/30/2022	Trace	Trace	20	110	No flooding oberved	
	9/28/2022	39.19	9.71	9/28/2022	Trace	Trace	15	125	No flooding oberved	
	10/26/2022	38.65	10.25	10/26/2022	Trace	Trace	35	160	Some flooding oberved prior to DNAPL recovery	
	11/29/2022	45.30	3.6	11/29/2022	Trace	Trace	20	180	No flooding oberved	
	12/28/2022	39.51	9.39	12/28/2022	Trace	Trace	35	215	No flooding oberved	
	1/31/2023	39.10	9.8	1/31/2023	Trace	Trace	25	240	Flooding observed prior to DNAPL recovery	
	2/21/2023	39.05	9.85	2/21/2023	Trace	Trace	27	267	Flooding observed prior to DNAPL recovery	
	3/28/2023	38.45	10.45	3/28/2023	Trace	Trace	50	317	No flooding oberved	
	4/1/2023								Site Inaccessible due to demolition	
5/1/2023									Site Inaccessible due to demolition	
	6/8/2023	38.60	10.3	6/8/2023	Trace	Trace	40	357	No flooding oberved	

TABLE 1 Summary of NAPL Gauging and Recovery Activities

450 Union Street Brooklyn, NY

Location	Prior to DNAPL Recovery			Recovery after Removal			Volume of DNAPL Removed	Cumulative Volume of DNAPL Removed	Total Cumulative Volume of DNAPL Removed		
	Date	Depth to DNAPL (ft.)	DNAPL Thickness (ft)	Date/Time	Depth to DNAPL (ft.)	DNAPL Thickness (ft)	(gallons)	(gallons)	(gallons)		
RW-02 Total well depth = 58.35 ft.	4/19/2022	39.00	19.35	4/19/22 10:30	42.0	16.35	31	31	45	Well cap damaged - needs to be replaced	
	5/20/2022	39.75	18.60	5/20/22 11:00	50.41	10.66	68	99	133	Well cap damaged - needs to be replaced	
	6/21/2022	43.17	15.18	6/21/2022	Trace	Trace	80	179	253	Well cap replaced wih a 6-inch J-Plug	
	7/28/2022	51.75	6.60	7/28/2022	Trace	Trace	22	201	291		
	8/30/2022	49.9	8.45	8/30/2022	56.85	1.5	35	236	346		
	9/28/2022	46.82	11.53	9/28/2022	Trace	Trace	65	301	426		
	10/26/2022	47.20	11.15	10/26/2022	Trace	Trace	105	406	566		
	11/29/2022	49.20	9.15	11/29/2022	Trace	Trace	80	486	666		
	12/28/2022	50.53	7.82	12/28/2022	Trace	Trace	55	541	756		
	1/31/2023	52.60	5.75	1/31/2023	Trace	Trace	70	611	851		
	2/21/2023	52.67	5.68	2/21/2023	57.5	0.85	82	693	960		
	3/28/2023	52.53	5.82	2/21/2023	Trace	Trace	50	743	1060		
								Site Inaccessible due to demolition			
							Site Inaccessible due to demolition				
	6/8/2023	45.40	12.95	6/8/2023	56.5	1.85	140	883	1240		



ATTACHMENT A DISPOSAL MANIFEST

A	NON-HAZARDOUS 1. Generator ID Number WASTE MANIFEST		2. Page 1 of 3. Em	ergency Respons	se Phone	4. Waste Tr	1	nber 19
	5. Generator's Name and Mailing Address	VA	Gene	ator's Site Addre	ss (if different to	METRO han mailing addr	ess)	1
	NATIONAL GRID			ations 450U				
	175 East Old Country Road Hicksville NY 11801 Generator's Phone: 516-408±8928			3r00K	1		201	
	6. Transporter 1 Company Name	Number '	900-204-9808					
	7. Transporter 2 Company Name	800-394-8606 U.S. EPA ID Number						
	8. Designated Facility Name and Site Address	and)			U.S. EPA ID	Number	(0808.5
	WATERWORKS NOTIFE WAS SONOTONE Facility's NEWBURGH, NY 12550 COHORS, NY	a St ' 120	иукооо2 -П	36349 36349	1933S	5		0609.AS
	Waste Shipping Name and Description			10. Con		11. Total Quantity	12. Unit Wt./Vol.	90-9498
GENERATOR	1.) saiuc	DNAUCE)	No.	DiM	j 90	(F)	
GENEF	2.	4.500161.4						
	3.							
	4.							
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	13. Special Handling Instructions and Additional Information			~ . l .	C(1			
	Document# 3000 Job#: WY	N73306	00 PO#	241	20			
	1)Approved # 1000362816 2) Containe			ä)Ťr	uclai			
	14. GENERATOR'S CERTIFICATION: I certify the materials described above on the	his manifest a	are not subject to fed	eral regulations for	or reporting pro	per disposal of h	łazardous \	Vasie.
	Generator's/Offeror's Printed/Typed Name As Agent For Wattong / 6nd J		Signature	2VI: 1 V	0. /)		Month Day Year
▼			Export from U.S.		entry/exit:			U8 23
INT'L			Export from 0.5.		iving U.S.:			
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name		Signature	.1	0			Month Day Year
SPO	Transporter 2 Printed/Typed Name		Signature	P (2		***************************************	Month Day Year
TRAI	CRAIG REARCE		Signatura	iciny	Pear	1		16/12/23
A	17. Discrepancy Indication Space	1		/′				
	Quantity	Туре		Residue		Partial Re	ection	Full Rejection
 -	17b. Alternate Facility (or Generator)		Ma	nifest Reference	Number:	U.S. EPA ID	Number	
CILIT	,					,		
ED FA	Facility's Phone: 17c. Signature of Alternate Facility (or Generator)					1		Month Day Year
SNATE								
— DESIGNATED FACILITY			1 1 1 1 1 1					
1/		/	" .	11.11.11				
	18. Designated Facility Owner or Operator: Certification of receipt of materials cover	red by the m	anifest except as no Signature	ed in Item 17a)(\(\alpha \)(C Q Q Q Q	 γ	Month Loay Can

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GZA GeoEnvironmental of New York