

450 UNION STREET NAPL GAUGING AND RECOVERY MONTHLY REPORT – JUNE 2022

450 Union Street – NAPL Gauging and Recovery
New York State Department of Environmental Conservation (NYSDEC)
BCP Site No. C224219

Monthly Report No. 3

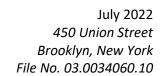
This report serves to document Dense Non-Aqueous Phase Liquid (DNAPL) gauging and recovery performed by GZA GeoEnvironmental, inc. (GZA), on behalf of National Grid, at the 450 Union Street property in Brooklyn, New York (Site). Consistent with the October 2020 Remedial Action Work Plan (RAWP) prepared 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 21, 2022, 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 Recovery					
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	6/21/22	10.29	39.17	9.73	40	Trace	Trace
RW-02	6/21/22	10.50	39.75	15.18	80	Trace	Trace

- The area around each well was covered with polyethylene sheeting prior to performance of gauging and recovery activities.
- Approximately 120 gallons of DNAPL/water mixture was recovered from the two wells during the June 21,
 2022, recovery event with a submersible pump.
- The recovered DNAPL/water and polyethylene sheeting/PPE were containerized in 55-gallon drums. Prior to leaving the Site, these drums were transported off-Site for disposal by Miller Environmental Group at the Waterworks, facility in Newburgh, New York. A copy of the disposal manifest is attached.





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

Attachment A: Disposal Manifest

Certification

I, James J. Clark, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that
this field report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with
the DER Technical Guidance for Site Investigation and Remediation (DER-10).

James J. Clark, P.E., LEP	7/5/2022	Jomes J. Clark			
Qualified Environmental Professional	Date	Signature			



TABLE 1 SUMMARY OF NAPL GAUGING ACTIVITIES

TABLE 1

Summary of NAPL Gauging and Recovery Activities

450 Union Street Brooklyn, NY

Location	Prior to DNAPL Recovery			Post DNAPL Recovery			DNAPL	Cumulative Volume of DNAPL Removed	
	Date	Depth to DNAPL (ft.)	DNAPL Thickness (ft)	Date/Time	Depth to DNAPL (ft.)	DNAPL Thickness (ft)	(gallons)	(gallons)	Comments
RW-01 Total well depth = 48.90 ft.	4/19/2022	38.2	10.7	4/19/22 8:30	Trace	Trace	14.0	14.0	Flooding oberved prior to DNAPL recovery
	5/20/2022	40	8.90	5/20/22 8:55	Trace	Trace	20.0	34.0	Some flooding oberved prior to DNAPL recovery
	6/21/2022	39.17	9.73	6/21/2022	Trace	Trace	40	74.0	No flooding oberved
					1				
					1				
					1				
		<u> </u>						<u> </u>	

TABLE 1

Summary of NAPL Gauging and Recovery Activities

450 Union Street Brooklyn, NY

Location	Prior to	Prior to DNAPL Recovery			Recovery after Removal			Volume of Cumulative DNAPL Volume of DNAPL Removed 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)		Comments
RW-02 Total well depth = 58.35 ft.	4/19/2022	39.00	19.35	4/19/22 10:30	42.0	16.35	31.0	31.0	45.0	Well cap damaged - needs to be replaced
	5/20/2022	39.75	18.60	5/20/22 11:00	50.41	10.66	68.0	88.0	133.0	Well cap damaged - needs to be replaced
	6/21/2022	43.17	15.18	6/21/2022	Trace	Trace	80.0	120.0	253.0	Well cap replaced wih a 6-inch J-Plug



ATTACHMENT A DISPOSAL MANIFEST

1. Document No.

Generator EPA ID #.

Please print or type



GZA GeoEnvironmental of New York