PERIODIC REVIEW REPORT

450 UNION STREET, BROOKLYN, NEW YORK NYSDEC BCP SITE NUMBER: C224219

Prepared For:

New York State Department of Environmental Conservation
Division of Environmental Remediation

625 Broadway

Albany, New York 12233

&

2201 Union LLC 55 Washington Street, Suite 551 Brooklyn, New York 11201

Prepared By:

AMC Engineering, PLLC 18-32 42nd Street Astoria, New York 11105

TABLE OF CONTENTS

1.0 I	NTRODUCTION	4
2.0 P	PERIODIC REVIEW REPORT CERTIFICATION	5
2.1	Institutional Controls	
2.2	ENGINEERING CONTROLS	
2.3	Institutional and Engineering Controls Certification	
3.0 P	POST-COC COMPLIANCE OPERATIONS	
3.1	Investigation and Construction Activities	.
3.2	COMPLIANCE WITH SMP DURING INVESTIGATION AND CONSTRUCTION ACTIVITIES	
3.2.2	1 SOILS/MATERIALS MANAGEMENT PLAN	8
3.2.2	2 COMMUNITY AIR MONITORING PLAN	8
3.2.3	3 MATERIALS DISPOSAL OFF-SITE	8
3.2.4	4 REPORTING	8
4.0 S	SITE INSPECTIONS	10
4.1	SITE COVER SYSTEM INSPECTION	10
4.2	BULKHEAD WALL/CONTAINMENT BARRIER	10
4.3	DNAPL RECOVERY WELLS	10
4.4	Site-Wide Inspection	10
5.0	O&M PLAN COMPLIANCE REPORT	11
5.1	DNAPL Recovery Program	11
6.0	CONCLUSIONS AND RECOMMENDATIONS	12
6.1	AMENDMENTS TO THE SMP	12
6.2	AMENDMENTS TO THE FREQUENCY OF PRR SUBMISSIONS	
6.3	PROPOSED DISCONTINUATION OF SMP	

FIGURES

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Engineering Control Location Map and Typical Details
Figure 4	Post-COC Investigation and Construction Locations Map

APPENDICES

Appendix A	Environmental Easement
Appendix B	Periodic Review Report EC/IC Certification Form
Appendix C	Community Air Monitoring Data
Appendix D	Waste Disposal Documentation
Appendix E	Post-COC Compliance Operations Documentation
Appendix F	Site Inspection Photographic Documentation
Appendix G	Site Inspection Forms
Appendix H	DNAPL Recovery Reports

EXECUTIVE SUMMARY

450 Union Street Site located in Gowanus neighborhood of Brooklyn, New York was remediated in accordance with a New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) approved work plans pursuant to a Brownfield Cleanup Agreement (BCA) dated September 1, 2015 and amended on March 13, 2020. Upon completion of remediation, a Certificate of Completion (COC) was issued by the NYSDEC on December 29, 2020.

450 Union Developer LLC was added to the BCA as an additional Volunteer on March 13, 2020, and 2201 Union LLC was added to the BCA upon purchase of the property. A notice of transfer of Certificate of Completion (COC) and Change of Use Notification for the new entity was submitted to the NYSDEC on October 24, 2022.

According to the Site Management Plan (SMP) dated December 18, 2020, a Periodic Review Report (PRR) is required to be submitted annually to the NYSDEC. The first PRR was submitted in June 2022, and this is the third annual PRR for this Site.

Since the most recent PRR dated September 2023, NYSDEC-approved construction fence work in September 2023 and investigation activities were performed at the Site in February 2024. The September 2023 construction fence relocation work consisted of removing fencing and fencepost installed along the curblines of Bond Street and Union Street and relocating them towards the Site boundaries. The relocated fence posts were installed along the Site boundary sidewalks and not within the Site cover system. The February 2024 investigation consisted of a grossly contaminated media (GCM) investigation to conduct bench-scale treatability studies for both in-situ stabilization/solidification (ISS) and in-situ geochemical stabilization technologies to treat and immobilize GCM observed beneath the Site.

1.0 INTRODUCTION

This Periodic Review Report (PRR) was prepared by Vektor Consultants, LLC (Vektor) for the 450 Union Street project (Brownfield Cleanup Program Site No. C224219) as a requirement of the December 18, 2020 Site Management Plan. The Site is located at 450 Union Street in the Gowanus Neighborhood of Brooklyn, New York, and is identified on the New York City Brooklyn Borough Tax Map as Block 438, Lot 7. The Site consists of an irregular-shaped vacant lot that is approximately 28,500 square feet. The Site access is controlled by a New York City Department of Buildings (NYCDOB)-approved construction fence. The bulkhead/containment barrier (constructed in 2017), consisting of corrugated steel sheet piles, separates the Site from the Gowanus Canal and serves as a containment barrier. The former buildings once occupying the Site were demolished between May and June 2023. The slabs of the buildings were not removed; however, the concrete slab of the northern building was cracked as described in the 2023 PRR as required by the Department of Buildings for Site drainage purposes.

The Site was remediated pursuant to the Brownfield Cleanup Agreement (dated September 1, 2015, amended March 13, 2020) and a Certificate of Completion (COC) was issued by the New York State Department of Environmental Conservation (NYSDEC) on December 29, 2020. The Site location is shown in Figure 1 and the BCP site boundaries are shown in Figure 2.

2.0 PERIODIC REVIEW REPORT CERTIFICATION

2.1 Institutional Controls

An Environmental Easement was executed with the NYSDEC on September 10, 2020 to (1) implement, maintain and monitor the engineering controls (ECs); (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface; and (3) limit the use and development of the site to restricted-residential, commercial, and industrial uses only. There have been no changes or actions that require modification to the environmental easement since the NYSDEC issued COC. A copy of the Environmental Easement is included as Appendix A.

2.2 Engineering Controls

The Site ECs include:

- (1) a site cover system;
- (2) a bulkhead wall/containment barrier; and
- (3) a dense non-aqueous phase liquid (DNAPL) recovery program using two on-site recovery wells.

The EC locations and details are shown in Figure 3.

Site Cover System

The current site cover system consists of:

- Partially demolished building slabs; and
- Asphalt-paved areas

Partially demolished building slab areas in the central and western portions of the Site are in preparation for redevelopment activities. Portions of the asphalt-paved areas are proposed to be redeveloped for the new building and the remainder of the asphalt-paved areas (adjacent to the bulkhead) are to be redeveloped into landscaped areas during redevelopment activities. Areas eventually not capped by a surface structure will contain a minimum of two-foot clean fill cover (i.e., virgin stone or a soil cover) installed above remaining Site soils. Soil used as cover will need to meet the lower of the Title 6 New York Codes, Rules, and Regulations (6 NYCRR) Part 375-6.4(b) Restricted-Residential (RR) and Protection of Groundwater (PGW) Soil Cleanup Objectives (SCOs). For landscaped areas, a highly visible demarcation barrier (i.e., orange snow fence) is to be placed between the remaining site soil and the clean fill cap.

Bulkhead Wall/Containment Barrier

Migration of coal tar DNAPL between the Site and the east-adjacent Gowanus Canal is prevented by a bulkhead/containment barrier installed along the eastern 100-foot site boundary. Steel sheet piles for the bulkhead/containment barrier were driven to a minimum of 52 feet below grade surface (bgs) (el. -40 NAVD88) within the secondary low-permeability silt and clay layers that

extend from about 38 feet to 56 feet bgs. A hydrophilic water-stop is installed within un-welded interlocking seams from sheet toe (el. -40) up to the mean higher high water (MHHW), about 10 feet bgs (el. 2.5), and is designed to swell and seal voids on contact with water. A high-level relieving platform, consisting of a pile-supported, reinforced concrete slab, is installed about 4 feet bgs and extends 25 feet west (inland) from the bulkhead/contaminant barrier. As part of the design, soil/fill beneath the concrete platform was excavated to about 12.5 feet bgs (el. 0) to reduce earth-pressures exerted on the steel sheets. Construction of the bulkhead/contaminant barrier was completed in 2017. Procedures for monitoring the bulkhead wall/contaminant barrier are described in the NYSDEC-approved SMP.

DNAPL Recovery Program

DNAPL recovery is performed from two on-site recovery wells (RW01 and RW02) at monthly intervals by GZA GeoEnvironmental, Inc. (GZA). Recovery well locations are shown on Figure 3. During each event, recovery wells are gauged for product thickness, which is recorded and compared with the results of past events. After gauging product thickness, recoverable DNAPL is extracted, and the approximate volume is measured. Recovered DNAPL is containerized into drums and transported off-site for disposal. DNAPL recovery will be performed until asymptotic conditions are reached and discontinuance is approved by NYSDEC.

2.3 Institutional and Engineering Controls Certification

The certification period covered by this PRR is from September 1, 2023, to June 30, 2024. Inspections, as described in Section 4.0 were completed in accordance with the requirements of the NYSDEC-approved SMP as certified by the owner and Professional Engineer in the EC/IC Certificate Form. The completed and signed EC/IC Certificate Form is provided as Appendix B.

3.0 POST-COC COMPLIANCE OPERATIONS

NYSDEC-approved field activities that breached the site cover system were conducted in September 2023 and February 2024. As a result, parts of the site cover system were modified and removed during this reporting period. Actions that affected the site cover system are summarized in the following sections. The locations of the post-COC investigation and construction activities are shown in Figure 4.

3.1 Investigation and Construction Activities

3.1.1 September 2023 – Construction Fence Relocation

Vektor Consultants oversaw the relocation of the Site's construction fence along the sidewalks of Bond Street and Union Street. Candid Construction was retained to perform the work. Candid Construction used concrete to repair the site cover system in the locations where the fence posts were removed along the curblines of Bond Street and Union Street and relocating them towards the Site boundaries. The relocated fence posts were installed along the Site boundary sidewalks and not within the Site cover system. Vektor Consultants performed CAMP during all aspects of the work.

3.1.4 February 2024 – GCM Bench-Scale Treatability Study

Vektor Consultants conducted a bench-scale treatability study for both in situ stabilization/solidification and in situ geochemical stabilization. The treatability study included soil sampling to obtain representative impacted soil samples for submission to Geo-Solutions, Inc for the In-Situ Stabilization (ISS) study and to ReSolutions Partners for the In-Situ Geochemical Stabilization (ISGS). The soil samples were collected within the NYSDEC determined treatment area at elevations between -10 and -28 NAVD88 where the presence of grossly contaminated material (GCM) and non-aqueous phase liquids (NAPL) is the highest. Coastal Environmental Solutions, under the direction of Vektor Consultants, advanced four soil borings at two locations within the proposed treatment area as described in the NYSDEC approved Remedial Site Optimization Treatability Study Work Plan, dated January 2024. As requested by Geo-Solutions, Inc and ReSolution Partners, a total of approximately 360 pounds of soil were collected for benchscale testing for both technologies. Additionally, Vektor Consultants collected groundwater samples from existing groundwater wells for the ISGS study. A total of nine (9) 9.5-L cannisters and one 1-L cannisters were collected. All soil cuttings and purged groundwater was containerized in 55-gallon drums, characterized, and property staged for transportation off-site All penetrations to the site cover system were repaired in kind by the drilling contractor with asphalt patch.

Investigation derived waste (soil and groundwater) from the bench-scale testing was removed from the Site on April 23, 2024 for disposal.

3.2 Compliance with SMP during Investigation and Construction Activities

3.2.1 Soils/Materials Management Plan

The SMP includes an Excavation Work Plan (EWP), which provides requirements for managing soil/fill at the Site, including screening excavated soil/fill, stockpile management, transport and off-site disposal of excess soil/fill, and community air monitoring. Post-COC activities were performed in accordance with the NYSDEC-approved SMP and EWP.

3.2.2 Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) was implemented during NYSDEC-approved ground-intrusive activities. The CAMP consisted of two monitoring stations placed at upwind and downwind locations relative to the intrusive work, to monitor for particulates and volatile organic compounds (VOCs) related to the work. Fifteen-minute-average concentrations of VOCs and particulates were not recorded above the action levels established in the CAMP (SMP Appendix F) and no fugitive dust or odors associated with intrusive activities were observed migrating off-site. CAMP data is provided in Appendix C.

3.2.3 Materials Disposal Off-Site

Excess soil/fill excavated and removed from the site during this reporting period were managed, transported, and disposed of off-site in accordance with local, state and federal regulations. Soil/fill transported for off-site disposal during this reporting period included:

- Sixteen drums (approximately 720 gallons) of investigation derived waste (IDW) consisting of groundwater from the June-July 2023 RSO/GCM delineation investigation were transported off-site for disposal at Clean Water of New York, Staten Island, NY on September 6, 2023. Please refer to the 2023 PRR for further details of the June-July 2023 RSO/GCM delineation investigation.
- Two drums (approximately 100 gallons) of IDW consisting of groundwater from the February 2024 Remedial Site Optimization Treatability Study were transported off-site for disposal at Clear Water of New York, Staten Island, NY on April 23, 2024.
- Four drums (approximately 1,600 pounds) of IDW consisting of soil cuttings from the February 2024 Remedial Site Optimization Treatability Study were transported off-site for disposal at Clean Water of New York, Staten Island, NY on April 23, 2024.

Waste disposal documentation, including waste characterization data, the facility approval letter, and disposal manifests, are included in Appendix D.

3.2.4 Reporting

Vektor documented investigation and construction activities that breached the site cover system. Activities observed during periodic visits were summarized in field reports submitted to the

NYSDEC and New York State Department of Health (NYSDOH). Field reporting / documentation of post-COC intrusive work performed during this reporting period is provided in Appendix E.

4.0 SITE INSPECTIONS

In accordance with the NYSDEC-approved SMP, routine site inspections are performed annually. Vektor inspected the site's ECs on June 28, 2024, for the PRR reporting period. ECs were documented to be functioning as designed, maintained, and monitored in accordance with the SMP. Site inspections and monitoring observations are described in the following sections. Photographic documentation from the routine inspection is included in Appendix F. The Site inspection form is included as Appendix G.

4.1 Site Cover System Inspection

Alterations to the site cover system were observed at the time of inspection. The slab of the former building along Union Street was cracked as part of development demolition as per NYCDOB requirements (as further described in the 2023 PRR). No other breaches to the site cover system were observed. The remaining concrete former building slabs and exterior asphalt pavement appeared competent with minor surficial cracks. Landscaped areas remain intact with the required cover thickness. No indication of unapproved construction activity was observed to have breached the site cover system within the certification year.

4.2 Bulkhead Wall/Containment Barrier

The bulkhead wall/containment barrier was observed for indications of major damage and coal tar seepage. Major damage was not observed on bulkhead wall/contaminant barrier at the time of the inspection. Evidence of coal tar seepage from the bulkhead wall/contaminant barrier to the Gowanus Canal was not observed.

4.3 DNAPL Recovery Wells

The two on-site recovery wells were observed to be intact, secure and in good condition during the time of the inspection.

4.4 Site-Wide Inspection

Indications of subsurface work or breaching of the site cover system were not observed other than the NYSDEC-approved activities described in Section 3.0. The Environmental Easement and ICs remain in place and the site use has not changed. The slab of the former building along Union Street was cracked as part of development demolition as per NYCDOB. Significant cracks in remaining former building slabs were not observed and the overall interior and exterior parts of the BCP site were in good condition.

5.0 O&M PLAN COMPLIANCE REPORT

5.1 DNAPL Recovery Program

Post-COC DNAPL recovery from two on-site recovery wells (RW01 and RW02) started in April 2022 and will continue on a monthly schedule unless otherwise approved by the NYSDEC. Currently, recovery events are performed by GZA GeoEnvironmental, Inc. (GZA). As part of each event, GZA collects measurements of the DNAPL well thickness before and after DNAPL removal. DNAPL is then removed using a submersible pump, the volume is measured, and the waste is placed in a 55-gallon steel drum. At the end of the event, the area around the wells are cleaned and drummed DNAPL waste is removed from the site. In accordance with the NYSDEC-approved SMP, DNAPL recovery results are documented in quarterly progress reports submitted to the NYSDEC. Locations of the DNAPL recovery wells are shown on Figure 3.

The following table summarizes the DNAPL recovery results from the monthly recovery events between September 2023 through June 2024, as documented in GZA's Monthly Reports No. 16 through No. 19 in 2023, and Monthly Reports No.20 through No.25 in 2024.

Recovery	DNAPL Recovered (Gallons) 2023				
Well	9/19/2023	10/17/2023	11/21/2023	12/27/2023	
RW01	25	30	40	15	
RW02	110	40	50	10	

Recovery	DNAPL Recovered (Gallons) 2024						
Well	1/30/2024	2/27/2024	3/7/2024	4/25/2024	5/29/2024	6/25/2024	
RW01	35	15	0	20	40	30	
RW02	50	0	25	35	30	40	

The total volume of recovered DNAPL between May 2022 and December 2022 was approximately 711 gallons. The total volume of recovered DNAPL between January 2023 and August 2023 was approximately 784 gallons. The total volume of recovered DNAPL between September 2023 and June 2024 was approximately 640 gallons. According to GZA's monthly reports, recovered DNALP and spent personal protective equipment (PPE) were placed in drums. PPE drums were exported for off-site disposal by Miller Environmental Group (MEG) at the Waterworks facility in Newburgh, New York and DNAPL drums were exported off-site by MEG to Norlite LLC in Cohoes, New York between September 2023 and November 2023, by MEG to the Waterworks Facility in Newburgh, New York in December 2023, by MEG to the Tradabe Facility in East Chicago, Illinois between January 2024 and May 2024 and by MEG to the Tradabe Facility in Meriden, Connecticut in June 2024.

DNAPL well thicknesses, recovery volumes, and disposal information associated with the on-site recovery event is documented in the GZA DNAPL recovery reports, included as Appendix H. Certification of this PRR is reliant on the recovery reports prepared and certified by GZA.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Amendments to the SMP

No amendments to the SMP, ECs, or ICs are recommended at this time.

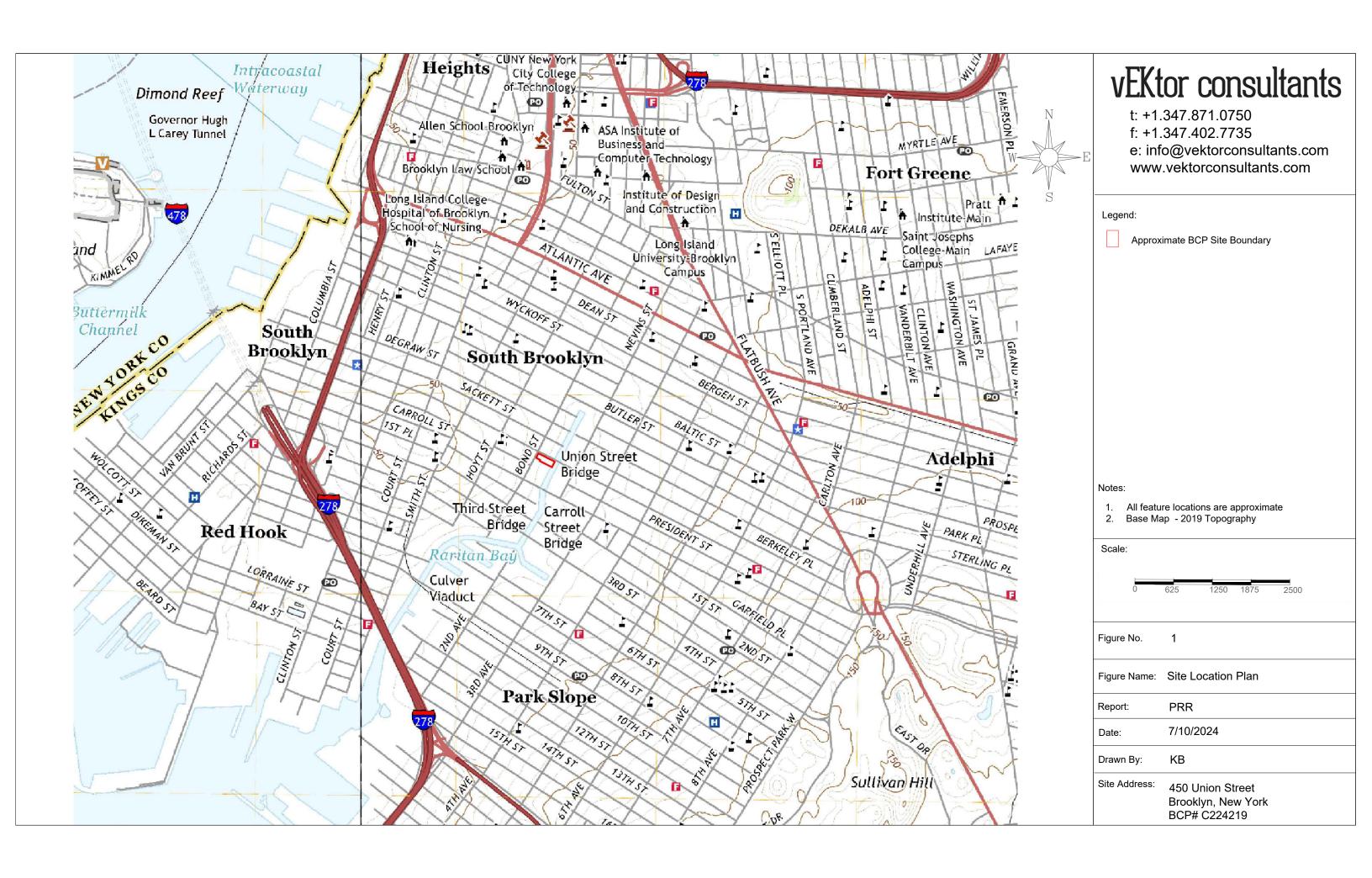
6.2 Amendments to the Frequency of PRR Submissions

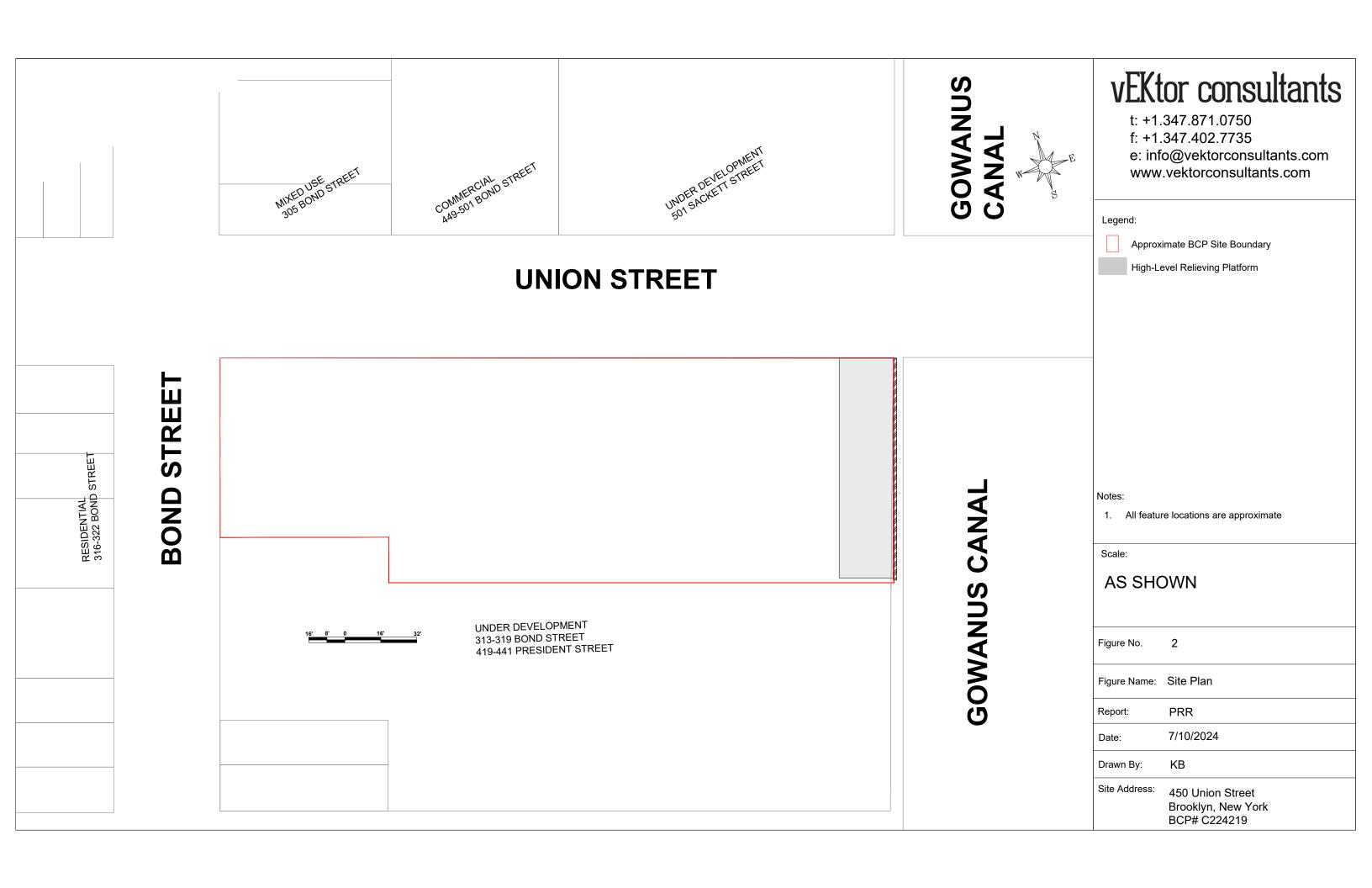
No changes in the frequency of PRR submissions are recommended at this time.

6.3 Proposed Discontinuation of SMP

Discontinuation of the SMP is not recommended at this time.

FIGURES

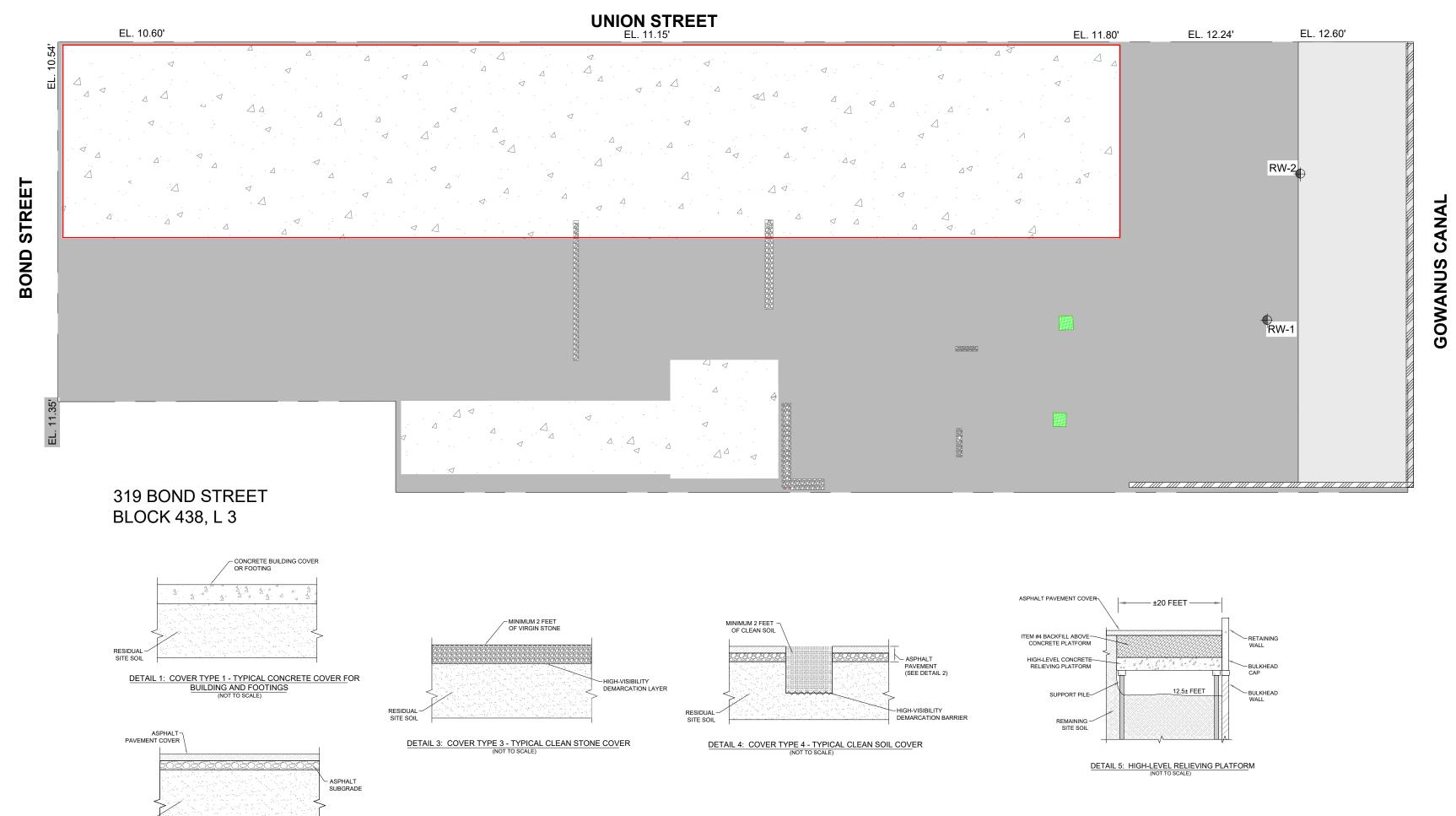








DETAIL 2: COVER TYPE 2 - TYPICAL ASPHALT COVER (NOT TO SCALE)



vEKtor consultants

t: +1.347.871.0750 f: +1.347.402.7735

e: info@vektorconsultants.com www.vektorconsultants.com

gend: 6- to

6- to 8-inch Thick Concrete Cover - Type 1 (Detail 1)

3- to 4-inch-Thick Asphalt Cover - Type 2 (Detail 2)
High-Level Relieving Platform (Detail 5)

2-foot-Thick Stone Cover - Type 3 (Detail 3)

2-foot-Thick Clean Soil Cover - Type 4 (Detail 4)

Recovery Well

Approximate area of cracked former building slab as

per NYCDOB (July 2023)

Notes:

1. All feature locations are approximate

Base Plan is provided by Mueser
 Rutledge Engineers PLLC

Scale:

AS SHOWN

Figure No.

Figure Name:Engineering Control Location

Map and Typical Details

Report:

PRR

Date: 7/10/2024

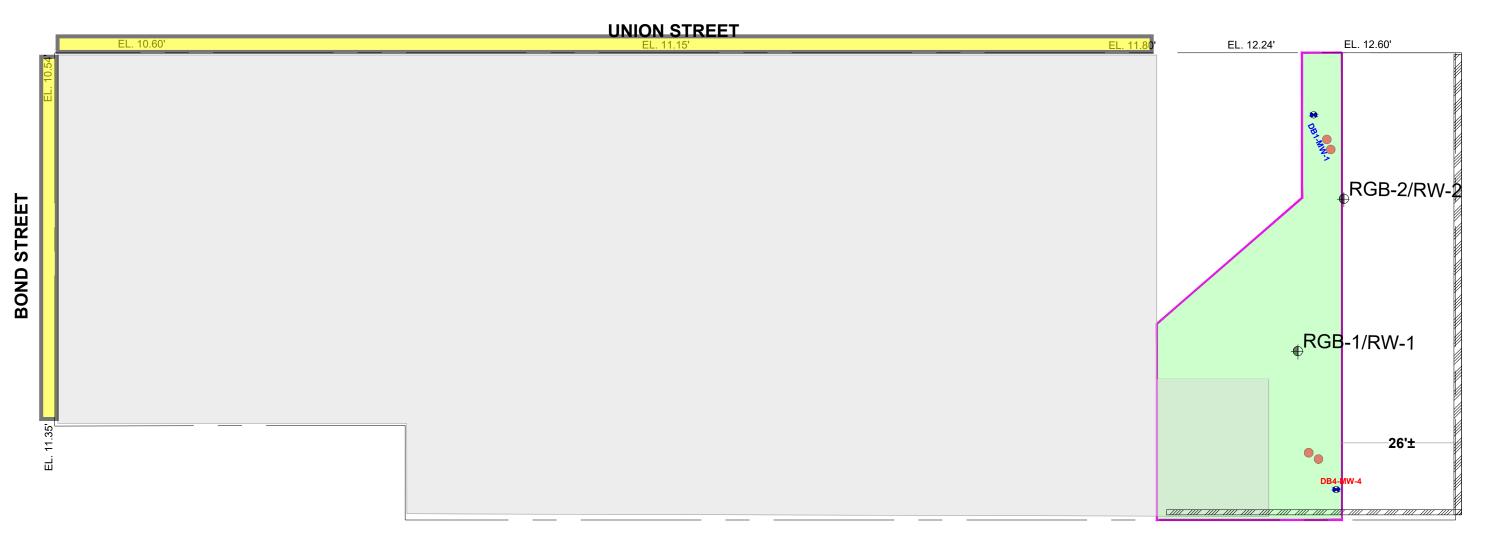
Drawn By:

KB

Site Address: 450 Union Street

Brooklyn, New York





319 BOND STREET BLOCK 438, L 3



vEKtor consultants

t: +1.347.871.0750

f: +1.347.402.7735 e: info@vektorconsultants.com

www.vektorconsultants.com

Locations of September 2023 Construction Fence Relocation (Immediately Outside of Site Boundaries)

Groundwater well locations for DBX-MW-XD collection of groundwater between

el. -10 and -28 for ISGS study

Groundwater well location for DBX-MW-XD collection of groundwater and NAPL sample between el. -10 and -28 for ISGS study

Proposed Treatability Work Area per NYSDEC

Approximate location of borings for collection of soil between el. -10 and -28 for ISS and ISGS studies

RGB/RW-X Recovery Well Location and ID

Notes:

- All feature locations are approximate
- Base Plan is provided by Mueser Rutledge Engineers PLLC
- DBX-MW-X: NAPL Mobility Well screened over GCM interval

Scale:

AS SHOWN

Figure No. 4

Report:

Figure Name: Post-COC Investigation and

Construction Locations Map

PRR

7/10/2024 Date:

Drawn By:

KB

Site Address: 450 Union Street

Brooklyn, New York

APPENDICES

APPENDIX A

ENVIRONMENTAL EASEMENT

NYC DEPARTMENT OF FINANCE OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument. The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.



RECORDING AND ENDORSEMENT COVER PAGE

PAGE 1 OF 10

Document ID: 2020092301057001 Document Date: 09-10-2020 Preparation Date: 09-24-2020

Document Type: EASEMENT Document Page Count: 9

PRESENTER:

ROYAL REGISTERED PROPERTY REPORTS (183227)MB 125 PARK AVENUE, SUITE 1610 NEW YORK, NY 10017 212-376-0900

MBASALATAN@ROYALABSTRACT.COM

RETURN TO:

ROYAL REGISTERED PROPERTY REPORTS (183227)MB 125 PAŔK AVENUE, SUITE 1610 NEW YORK, NY 10017 212-376-0900 MBASALATAN@ROYALABSTRACT.COM

PROPERTY DATA

Borough Block Lot Unit Address BROOKLYN 438 7 Entire Lot **452 UNION STREET**

Property Type: COMMERCIAL REAL ESTATE

CROSS REFERENCE DATA

or Page ____ CRFN DocumentID Year Reel *or* File Number

GRANTOR/SELLER:

450 UNION LLC 10 GLENVILLE STREET, SUITE 1 GREENWICH, CT 06831

PARTIES

GRANTEE/BUYER: THE PEOPLE OF THE STATE OF NEW YORK

NYSDEC, 625 BROADWAY ALBANY, NY 12233

FEES AND TAXES

		•
Mortgage:		Filing Fee:
Mortgage Amount:	\$ 0.00	\$
Taxable Mortgage Amount:	\$ 0.00	NYC Real Property Transfer Tax:
Exemption:		\$
TAXES: County (Basic):	\$ 0.00	NYS Real Estate Transfer Tax:
City (Additional):	\$ 0.00	\$
Spec (Additional):	\$ 0.00	RECORDED OR FI
TASF:	\$ 0.00	OF THE CITY R
MTA:	\$ 0.00	CITY OF
NYCTA:	\$ 0.00	Recorded/Fil
Additional MRT:	\$ 0.00	City Registe
TOTAL:	\$ 0.00	City Register
Recording Fee:	\$ 82.00	
Affidavit Fee:	\$ 0.00] TATES (IRRETT

0.00 NYS Real Estate Transfer Tax: 0.00

> RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE

CITY OF NEW YORK

Recorded/Filed 10-05-2020 17:17 City Register File No.(CRFN):

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0.00

City Register Official Signature

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this ______ day of ________, 2020 between Owner, 450 Union LLC, having a mailing address of 10 Glenville Street, Suite 1, Greenwich, Connecticut 06831, County of Fairfield, State of Connecticut (the "Grantor"), and The People of the State of New York (the "Grantee."), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 450 Union Street in the City of New York, County of Kings and State of New York, known and designated on the tax map of the New York City Department of Finance as tax map parcel number: Block 438 Lot 7, being the same as that property conveyed to Grantor by deed dated September 9, 2014 and recorded in the City Register of the City of New York as CRFN #2014000329318. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.654 +/- acres, and is hereinafter more fully described in the Land Title Survey dated June 25, 2020 prepared by Paul D. Fisher, L.L.S. of Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C., which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is

extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C224219-06-15, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

- 1. <u>Purposes</u>. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.
- 2. <u>Institutional and Engineering Controls</u>. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.
 - A. (1) The Controlled Property may be used for:

Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

- (2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);
- (3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;
- (4) The use of groundwater underlying the property is prohibited without necessary water quality treatment_as determined by the NYSDOH or the New York City Department of Health and Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- (5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- (6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

- (7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- (8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- (9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;
- (10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.
- B. The Controlled Property shall not be used for Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.
- C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

- D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.
- E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation

pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

- F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.
- G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:
- (1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).
 - (2) the institutional controls and/or engineering controls employed at such site:
 - (i) are in-place;
- (ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and
- (iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;
- (3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls:
- (4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;
- (5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- (6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and
 - (7) the information presented is accurate and complete.
- 3. <u>Right to Enter and Inspect</u>. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.
- 4. <u>Reserved Grantor's Rights.</u> Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:
- A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;
- B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. <u>Enforcement</u>

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

- B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.
- C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.
- D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.
- 6. <u>Notice</u>. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: C224219

Office of General Counsel

NYSDEC 625 Broadway

Albany New York 12233-5500

With a copy to:

Site Control Section

Division of Environmental Remediation

NYSDEC 625 Broadway Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and

communicating notices and responses to requests for approval.

- 7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
- 8. <u>Amendment</u>. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
- 9. <u>Extinguishment.</u> This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.
- 10. <u>Joint Obligation</u>. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.
- 11. <u>Consistency with the SMP</u>. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

450 Union LLC:

By: Www What

Print Name: Ezic Schohztz

Title: Manager Date: 25/20

Grantor's Acknowledgment

LIN STATE OF NEW YORK

COUNTY OF Frique) ss:

On the 25th day of hugust, in the year 2020, before me, the undersigned, personally appeared Ecochwart, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

otary Public - State of New York

LYNN AMLER Notary Public, State of Connecticut My Commission Expires Aug. 31, 2022 THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting by and Through the Department of Environmental Conservation as Designee of the Commissioner,

By:

George W. Heitzman, Assistant Director Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss
COUNTY OF ALBANY)

On the day of September, in the year 2020 before me, the undersigned, personally appeared George W. Heitzman, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Notary Rublic - State of New York

JENNIFER ANDALORO
Notary Public, State of New York
No. 02AN6098246
Qualified in Albany County
Commission Expires January 14, 20

Black 438 Lot 7 County of Kings

183226

Royal Registered Property Reports, Inc. 125 Park Avenue, Suite 1610 New York, N.Y 10017 (212) 376-0900 County: Kings Site No: C224219 Brownfield Cleanup Agreement Index: C224219-06-15

SCHEDULE "A" PROPERTY DESCRIPTION

ENVIRONMENTAL EASEMENT LEGAL DESCRIPTION 450 UNION STREET

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE BOROUGH OF BROOKLYN, CITY AND STATE OF NEW YORK, COUNTY OF KINGS, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEASTERLY CORNER OF BOND AND UNION STREETS;
RUNNING THENCE EASTERLY AND ALONG THE SOUTHERLY SIDE OF UNION STREET, THREE HUNDRED (300) FEET TO THE WESTERLY SIDE OF GOWANUS

THENCE SOUTHERLY AND ALONG SAID WESTERLY SIDE OF GOWANUS CANAL, ONE HUNDRED (100) FEET:

CANAL;

THENCE WESTERLY PARALLEL WITH THE SAID SOUTHERLY SIDE OF UNION STREET, TWO HUNDRED TWENTY-FIVE (255) FEET;

THENCE NORTHERLY AND PARALLEL WITH THE SAID SOUTHERLY SIDE OF BOND STREET, TWENTY (20) FEET;

THENCE WESTERLY AND PARALLEL WITH THE SAID SOUTHERLY SIDE OF UNION STREET, SEVENTY-FIVE (75) FEET TO THE EASTERLY SIDE OF BOND STREET; AND THENCE NORTHERLY AND ALONG THE SAID EASTERLY SIDE OF BOND STREET, EIGHTY FEET (80) TO THE POINT OR PLACE OF BEGINNING.

ENCOMPASSING AN AREA OF 28,500 SQUARE FEET OR 0.654 ACRES, MORE OR LESS.

NOTES

Rabbit Moving & Storage

1. THIS SURVEY IS BASED UPON EXISTING PHYSICAL CONDITIONS FOUND AT THE SUBJECT SITE, AND THE FOLLOWING REFERENCES:

Van Alen Institute

A. BOROUGH OF BROOKLYN SECTION MAP NO. 23 AND 24. CURRENT NEW YORK CITY TAX MAP OF BROOKLYN.

C. "BOUNDARY AND TOPOGRAPHIC SURVEY, 450 UNION STREET", BY LANGAN, PROJECT NO. 170301202, DRAWING NO. VT-101, DATED 06/13/17, LAST REVISED 12/04/19.

D. TITLE NO. KIN-246501-L, BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, EFFECTIVE

DATE 05/26/14 AT 9:00AM.

E. CRFN 2004000753755, RECORDED/FILED 12—07—2004 11:58 [DEED] (PLOTTED) F. BROWNFIELD SITE CLEANUP AGREEMENT, INDEX NO.: C224219—06—15, SIGNED BY ROBERT W. SCHICK, P.E., DIRECTOR, DIVISION OF ENVIRONMENTAL REMEDIATION, DATED 09/01/15.

2. THE SURVEYED PROPERTY IS SUBJECT BUT NOT LIMITED TO THE FOLLOWING FACTS AS REVEALED BY THE HEREON REFERENCED INFORMATION. THE INFORMATION SHOWN HEREON DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. ALL INFORMATION THAT MAY AFFECT THE QUALITY OF TITLE TO BOTH THE SUBJECT AND ADJOINING PARCELS SHOULD BE VERIFIED BY AN ACCURATE AND CURRENT TITLE REPORT.

3. THE MERIDIAN OF THIS SURVEY IS REFERENCED TO THE NEW YORK LONG ISLAND COORDINATE SYSTEM, NYLI NAD 83 (2011) DERIVED USING LEICA GS-15 AND CS-15 GPS EQUIPMENT AND THE LEICA SMARTNET NETWORK.

4. STREET NAMES, R.O.W. WIDTHS, BLOCK, AND LOT NUMBERS AS PER MAPS REFERENCED IN

5. PLANIMETRIC INFORMATION SHOWN HEREON HAS BEEN OBTAINED FROM GROUND SURVEYS BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING, LANDSCAPE ARCHITECTURE AND GEOLOGY, D.P.C. DURING JUNE OF 2020.

6. OFFSETS (IF SHOWN) ARE FOR SURVEY REFERENCES ONLY AND ARE NOT TO BE USED IN

7. WETLANDS, ENVIRONMENTAL AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, NOT COVERED

8. UNLESS SPECIFICALLY NOTED HEREON, STORM AND SANITARY SEWER INFORMATION (INCLUDING PIPE INVERT, PIPE MATERIAL, AND PIPE SIZE) WAS OBSERVED AND MEASURED AT FIELD LOCATED STRUCTURES (MANHOLES/CATCH BASINS, ETC). CONDITIONS CAN VARY FROM THOSE ENCOUNTERED AT THE TIMES WHEN AND THE LOCATIONS WHERE DATA WAS OBTAINED. DESPITE MEETING THE REQUIRED STANDARD OF CARE THE SURVEYOR CANNOT AND DOES NOT WARRANT THAT PIPE MATERIAL AND/OR PIPE SIZE THROUGHOUT THE PIPE RUN ARE THE SAME AS THOSE OBSERVED AT EACH STRUCTURE, OR THAT THE PIPE RUN IS STRAIGHT BETWEEN THE LOCATED

ADDITIONAL UTILITY (WATER, GAS, ELECTRIC ETC ...) DATA MAY BE SHOWN FROM FIELD LOCATED SURFACE MARKINGS (BY OTHERS), EXISTING STRUCTURES, AND/OR FROM EXISTING DRAWINGS. UNLESS SPECIFICALLY NOTED HEREON THE SURVEYOR HAS NOT EXCAVATED TO PHYSICALLY LOCATE THE UNDERGROUND UTILITIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE SHOWN

PRIOR TO ANY DESIGN OR CONSTRUCTION THE PROPER UTILITY AGENCIES MUST BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.

UNLESS NOTED BELOW SUPPLEMENTAL DOCUMENTS WERE NOT USED TO COMPILE THE 9. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND

IN THE EXACT LOCATION OR CONFIGURATION INDICATED HEREON.

SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK

10. THIS PLAN NOT VALID UNLESS EMBOSSED OR BLUE INK STAMPED WITH THE SEAL OF THE

BLOCK 438 LOT 7 & DEC EASEMENT WRITTEN DESCRIPTION (SEE NOTE 1E)

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE BOROUGH OF BROOKLYN, CITY AND STATE OF NEW YORK, COUNTY OF KINGS, BOUNDED AND DESCRIBED AS

BEGINNING AT THE SOUTHEASTERLY CORNER OF BOND AND UNION STREETS;

RUNNING THENCE EASTERLY AND ALONG THE SOUTHERLY SIDE OF UNION STREET, THREE HUNDRED (300) FEET TO THE WESTERLY SIDE OF GOWANUS CANAL;

THENCE SOUTHERLY AND ALONG SAID WESTERLY SIDE OF GOWANUS CANAL, ONE HUNDRED (100) THENCE WESTERLY PARALLEL WITH THE SAID SOUTHERLY SIDE OF UNION STREET, TWO HUNDRED

TWENTY-FIVE (225) FEET:

THENCE NORTHERLY AND PARALLEL WITH SAID EASTERLY SIDE OF BOND STREET, TWENTY (20) FEET; THENCE WESTERLY AND PARALLEL WITH THE SAID SOUTHERLY SDE OF UNION STREET, SEVENT-FIVE (75) FEET TO THE EASTERLY SIDE OF BOND STREET; AND

THENCE NORTHERLY AND ALONG THE SAID EASTERLY SIDE OF BOND STREET, EIGHTY FEET (80) TO

ENCOMPASSING AN AREA OF 28,500 SQUARE FEET OR 0.654 ACRES, MORE OR LESS.



THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN MORE DETAIL IN THE SITE MANAGEMENT PLAN (SMP). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP CAN BE OBTAINED FROM NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT derweb@dec.ny.gov.

 $\boldsymbol{\mathcal{B}}$

			"I hereby state that this plan is based me or under my immediate suscrision Code of Proclice for Land Surveys, professional knowledge, information professional opinion, correctly represent the late of the field survey at	and to the best of my and belief, and in my Its the conditions found on
Date	Description	No.	SIGNATURE 050784-	DATE SIGNED
	REVISIONS		PROFESSIONAL EARLY SURVEYOR	ER NY Lic. No. 050784-1

rvey made by a with NYSPL! rest of my and in my cions found or property". LANGAN Langan Engineering, Environmental, Surveying Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor

New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com KINGS COUNTY

450 UNION STREET

BLOCK No. 438, LOT No. 7 BOROUGH OF BROOKLYN CITY OF NEW YORK

NEW YORK

LEGEND (NOT SHOWN TO SCALE)

@ **E** S D **W** O

P.O.B.

----- HYDRANT

---- STAND PIPE

---- ROOF DRAIN ---- FLAG POLE

---- PEDESTAL LIGHT

---- STREET LIGHT

---- AREA LIGHT

---- SIGNAL POLE

---- POWER POLE

---- ANCHOR POLE

---- WATER VALVE

---- UNKNOWN VALVE

---- GAS VALVE

---- CATCH BASIN

---- ELECTRIC BOX

---- GAS METER WATER METER

---- BENCH

—— DOOR

----- ELECTRIC METER

TELEPHONE BOX

—— DOUBLE DOOR

---- ROLL UP DOOR

---- YARD DRAIN

——— DROP CURB

UNIT

---- BUILDING TYPICAL

---- OVERHANG

---- METAL COVER ---- SQUARE FEET

---- OVERHEAD WIRE

---- GUIDE RAIL METAL

—— STOCKADE FENCE

rawing Title

PROPERTY LINE

---- RIGHT-OF-WAY LINE

----- FENCE

----- ACRES ---- ON LINE

---- NORTH ——— SOUTH

---- WEST ---- EAST

GUIDE RAIL WOOD

——--- EASEMENT LINE

—— POINT OF BEGINNING

----- CONCRETE MASONRY

---- MAILBOX

---- TRAFFIC SIGNAL POLE

---- CLEAN OUT

----- TREE

----- SIGN

---- BOLLARD

(TYPE AS LABELED)

---- GUY WIRE

---- MANHOLE

DEC EASEMENT **SURVEY**

Drawing No. 170301202 06/25/20 **DEC101** Scale 1"=20' Drawn By LB, DS Checked By Sheet 001 of 001

APPENDIX B

PERIODIC REVIEW REPORT EC/IC CERTIFICATION FORM



Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



Sit	e No.	Site C224219	Details		Box 1	
Sit	e Name 450	Union Street				
Cit Co	e Address: 4 y/Town: Bro unty:Kings e Acreage: (oklyn	le: 11231			
Re	porting Perio	d: September 1, 2023 to June 30	, 2024			
					YES	NO
1.	Is the inforr	nation above correct?			X	
	If NO, inclu	de handwritten above or on a sep	parate sheet.			
2.		or all of the site property been sol endment during this Reporting P		rgone a		\overline{X}
3.		een any change of use at the site RR 375-1.11(d))?	e during this Reporting Period			X
4.	•	ederal, state, and/or local permits property during this Reporting P		issued	X	
	-	vered YES to questions 2 thru a nentation has been previously				
5.	Is the site of	urrently undergoing development	?			X
					Box 2	
					YES	NO
6.		nt site use consistent with the use Residential, Commercial, and Ind	` '		X	
7.	Are all ICs	n place and functioning as design	ned?	X		
	IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.					
A	Corrective M	easures Work Plan must be subr	nitted along with this form to a	ddress t	hese iss	ues.
 Sig	nature of Ow	ner, Remedial Party or Designated	Representative	Date		

		Box 2	A	
		YES	NO	
8.	Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?		X	
	If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.			
9.	Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	X		
	If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.			
SITE NO. C224219		Воз	c 3	
	Description of Institutional Controls			

<u>Parcel</u>	<u>Owner</u>	Institutional Control
438-7	450 Union LLC	
		Ground Water Use Restriction
		Landuse Restriction
		Monitoring Plan
		Site Management Plan
		O&M Plan
		IC/EC Plan

Institutional Control

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
- allow the use and development of the controlled property for restricted residential use, commercial use or industrial use as defined by Part 375-1.8(q), although land use is subject to local zoning laws:
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH; and
- require compliance with the Department approved Site Management Plan.

Site Management Plan

A Site Management Plan is required, which includes the following:

- a. An Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:
- ? Institutional Controls: The Environmental Easement discussed above.
- ? Engineering Controls: The Cover System, DNAPL recovery system discussed above and the bulkhead wall/contaminant barrier installed as an IRM.

This plan includes, but may not be limited to:

- an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- a provision for demolition of on-site buildings if and when they become unsafe, inactive or vacant;
- descriptions of the provisions of the environmental easement including any land use and/or groundwater use restrictions;
- a provision for evaluation of the potential for soil vapor intrusion for any occupied buildings on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
- a provision that should a building foundation or building slab be removed in the future, a cover system consistent with that described above will be placed in any areas where the upper two feet of exposed surface soil exceed the applicable soil cleanup objectives (SCOs)
- · provisions for the management and inspection of the identified engineering controls;
- · maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.
- b. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:
- · a schedule of monitoring and frequency of submittals to the Department;
- monitoring for vapor intrusion for any buildings on the site, as may be required by the Institutional and Engineering Control Plan discussed above.
- c. An Operation and Maintenance (O&M) Plan to ensure continued operation, maintenance, optimization, monitoring, inspection, and reporting of any mechanical or physical components of the remedy. The plan includes, but is not limited to:
- · procedures for operating and maintaining the remedy;

- compliance monitoring of treatment systems to ensure proper O&M as well as providing the data for any necessary permit or permit equivalent reporting;
- maintaining site access controls and Department notification; and
- providing the Department access to the site and O&M records.

Box 4

Description of Engineering Controls

<u>Parcel</u> <u>Engineering Control</u>

438-7

Cover System Subsurface Barriers

Cover System

A site cover currently exists in areas not occupied by buildings and will be maintained to allow for restricted residential, commercial or industrial use of the site. Any site redevelopment will maintain the existing site cover. The site cover may include paved surface parking areas, sidewalks or soil where the upper two feet of exposed surface soil meets the applicable soil cleanup objectives SCOs for restricted residential, commercial or industrial use. Any fill material brought to the site will meet the requirements for the identified site use as set forth in 6NYCRR part 375-6.7(d). Coal Tar Recovery

Installation and operation of coal tar recovery wells along the eastern edge of the site bordering the Gowanus Canal to remove potentially mobile coal tar from the subsurface. The design calls for 2 extraction wells: the existing well screened to a depth of 52 feet, and a new well to be installed to a maximum depth of 65 feet below ground surface (bgs). These recovery wells will be spaced approximately 35 to 40 feet apart, adjacent to the bulkhead. Coal tar will be collected periodically from each well; however, if wells are determined by the Department to accumulate large quantities of coal tar over extended time periods, they can be converted to automated collection.

The bulkhead wall/contaminant barrier installed as an IRM.

Box	5
-----	---

	Periodic Review Report (PRR) Certification Statements				
1.	I certify by checking "YES" below that:				
	a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;				
 b) to the best of my knowledge and belief, the work and conclusions described in this certificat are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete. 					
	* Certification of the DNAPL recovery results are based on the results reported and certified by GZA GeoEnvironmental, Inc.				
2.	For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:				
	(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;				
	(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;				
	(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;				
	(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and				
	(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.				
	YES NO				
	lacktriangledown				
	IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.				
	A Corrective Measures Work Plan must be submitted along with this form to address these issues.				
	Signature of Owner, Remedial Party or Designated Representative Date				

IC CERTIFICATIONS SITE NO. C224219

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Robert [•	at Z	7130 Broadwa		Escos hn M
print name	е		print business ad	oress	
am certifying as	OWNER			(Owner	or Remedial Party)
for the Site named in t	the Site Details Se	ection of thi	s form.		
				7-11-2	4
Signature of Owner, Rendering Certification		Designate	d Representative	Date	

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

AMC Engineering, PLLC
at 18-36 42nd Street, Astoria, NY 11105
print name print business address

am certifying as a Professional Engineer for the Remedial Party

(Owner or Remedial Party)

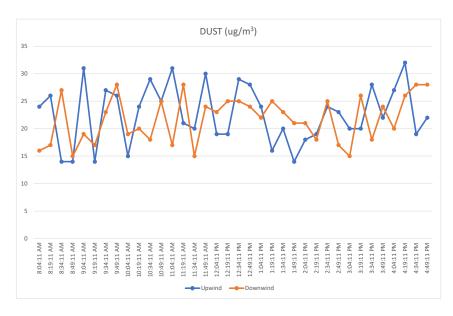
Signature of Professional Engineer, for the Where of Stamp (Required for PE)

APPENDIX C

COMMUNITY AIR MONITORING DATA

Site:	450 Union Street	:	Site:	450 Union Street	
Location:	Upwind		Location:	Downwind	
Model Number:	DustTrak II		Model Numb	DustTrak II	
Serial Number:	8530152605		Serial Number	8530104413	
Date:	9/5/2023		Date:	9/5/2023	
Start Time:	8:02:27 AM		Start Time:	8:04:11 AM	
End Time:	4:47:27 PM		End Time:	4:49:11 PM	
Log Period	00:15:00		Log Period	00:15:00	
CalFactor	1		CalFactor	1	
Unit	0		Unit	0	
Unit Name	ug/m3		Unit Name	ug/m3	
TempUnits	С		TempUnits	С	
RH Correct	Enabled		RH Correct	Enabled	
Datalog:	Date & Time	Mass [ug/m3]	Datalog:	Date & Time	Ν
	8:02:27 AM	24		8:04:11 AM	
	8:17:27 AM	26		8:19:11 AM	
	8:32:27 AM	14		8:34:11 AM	
	8:47:27 AM	14		8:49:11 AM	

Datalog:	Date & Time	Mass [ug/m3]	Datalog:	Date & Time	Mass [ug/m3]
	8:02:27 AM	24		8:04:11 AM	16
	8:17:27 AM	26		8:19:11 AM	17
	8:32:27 AM	14		8:34:11 AM	27
	8:47:27 AM	14		8:49:11 AM	15
	9:02:27 AM	31		9:04:11 AM	19
	9:17:27 AM	14		9:19:11 AM	17
	9:32:27 AM	27		9:34:11 AM	23
	9:47:27 AM	26		9:49:11 AM	28
	10:02:27 AM	15		10:04:11 AM	19
	10:17:27 AM	24		10:19:11 AM	20
	10:32:27 AM	29		10:34:11 AM	18
	10:47:27 AM	25		10:49:11 AM	25
	11:02:27 AM	31		11:04:11 AM	17
	11:17:27 AM	21		11:19:11 AM	28
	11:32:27 AM	20		11:34:11 AM	15
	11:47:27 AM	30		11:49:11 AM	24
	12:02:27 PM	19		12:04:11 PM	23
	12:17:27 PM	19		12:19:11 PM	25
	12:32:27 PM	29		12:34:11 PM	25
	12:47:27 PM	28		12:49:11 PM	24
	1:02:27 PM	24		1:04:11 PM	22
	1:17:27 PM	16		1:19:11 PM	25
	1:32:27 PM	20		1:34:11 PM	23
	1:47:27 PM	14		1:49:11 PM	21
	2:02:27 PM	18		2:04:11 PM	21
	2:17:27 PM	19		2:19:11 PM	18
	2:32:27 PM	24		2:34:11 PM	25
	2:47:27 PM	23		2:49:11 PM	17
	3:02:27 PM	20		3:04:11 PM	15
	3:17:27 PM	20		3:19:11 PM	26
	3:32:27 PM	28		3:34:11 PM	18
	3:47:27 PM	22		3:49:11 PM	24
	4:02:27 PM	27		4:04:11 PM	20
	4:17:27 PM	32		4:19:11 PM	26
	4:32:27 PM	19		4:34:11 PM	28
	4:47:27 PM	22		4:49:11 PM	28



Site: 450 Union Street Date: 9/5/2023 Location: Downwind Summary: No VOC detections

MiniRAW (3000) (PGM-7320) 592-915354 Unit Name:

Serial Number: Running Mode: Hygiene Mode Datalog Mode: Manual Diagnostic Mode: Stop Reson: No

<u>Date</u> 9/5/2023 9/5/2023 <u>Time</u> 8:02:54 AM Begin: End: 4:47:54 PM

5.0 Low Alarm High Alarm 25.0 Over Alarm 15000.0 STEL Alarm 250.0 TWA Alarm 100.0 Measurement Gas: Isobutylene 9/5/2023 8:00 Calibration Time

Peak: 0.4 ppm Min: 0.0 ppm Average: 0.1 ppm

Datalog:

Date	Time	PID (ppm)
9/5/2023	8:02:54 AM	0.1
9/5/2023	8:17:54 AM	0.2
9/5/2023	8:32:54 AM	0.2
9/5/2023	8:47:54 AM	0.2
9/5/2023	9:02:54 AM	0.3
9/5/2023	9:17:54 AM	0.1
9/5/2023	9:32:54 AM	0.0
9/5/2023	9:47:54 AM	0.0
9/5/2023	10:02:54 AM	0.0
9/5/2023	10:17:54 AM	0.3
9/5/2023	10:32:54 AM	0.3
9/5/2023	10:47:54 AM	0.3
9/5/2023	11:02:54 AM	0.3
9/5/2023	11:17:54 AM	0.4
9/5/2023	11:32:54 AM	0.3
9/5/2023	11:47:54 AM	0.0
9/5/2023	12:02:54 PM	0.0
9/5/2023	12:17:54 PM	0.0
9/5/2023	12:32:54 PM	0.2
9/5/2023	12:47:54 PM	0.1
9/5/2023	1:02:54 PM	0.1
9/5/2023	1:17:54 PM	0.1
9/5/2023	1:32:54 PM	0.1
9/5/2023	1:47:54 PM	0.0
9/5/2023	2:02:54 PM	0.0
9/5/2023	2:17:54 PM	0.0
9/5/2023	2:32:54 PM	0.0
9/5/2023	2:47:54 PM	0.2
9/5/2023	3:02:54 PM	0.0
9/5/2023	3:17:54 PM	0.0
9/5/2023	3:32:54 PM	0.0
9/5/2023	3:47:54 PM	0.2
9/5/2023	4:02:54 PM	0.3
9/5/2023	4:17:54 PM	0.0
9/5/2023	4:32:54 PM	0.0
9/5/2023	4:47:54 PM	0.0

450 Union Street Date: 9/5/2023 Location: Upwind Summary: No VOC detections

MiniRAW (3000) (PGM-7320) 592-915354 Unit Name:

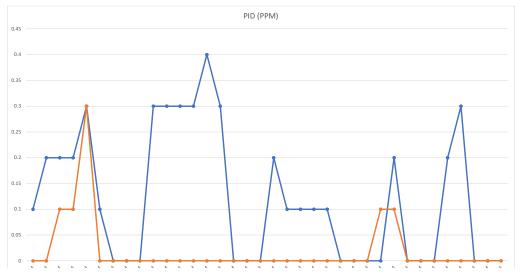
Serial Number: Running Mode: Hygiene Mode Datalog Mode: Diagnostic Mode: Stop Reson: No

<u>Date</u> 9/5/2023 9/5/2023 <u>Time</u> 8:03:44 AM Begin: End: 4:48:44 PM

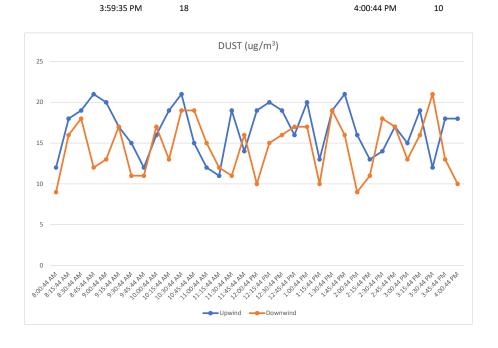
5.0 Low Alarm High Alarm 25.0 Over Alarm STEL Alarm 15000.0 250.0 TWA Alarm 100.0 Measurement Gas: Isobutylene 9/5/2023 8:00 Calibration Time

Peak: 0.3 ppm 0.0 ppm Average: 0.0 ppm

Date	Time	PID (ppm)
9/5/2023	8:03:44 AM	0.0
9/5/2023	8:18:44 AM	0.0
9/5/2023	8:33:44 AM	0.1
9/5/2023	8:48:44 AM	0.1
9/5/2023	9:03:44 AM	0.3
9/5/2023	9:18:44 AM	0.0
9/5/2023	9:33:44 AM	0.0
9/5/2023	9:48:44 AM	0.0
9/5/2023	10:03:44 AM	0.0
9/5/2023	10:18:44 AM	0.0
9/5/2023	10:33:44 AM	0.0
9/5/2023	10:48:44 AM	0.0
9/5/2023	11:03:44 AM	0.0
9/5/2023	11:18:44 AM	0.0
9/5/2023	11:33:44 AM	0.0
9/5/2023	11:48:44 AM	0.0
9/5/2023	12:03:44 PM	0.0
9/5/2023	12:18:44 PM	0.0
9/5/2023	12:33:44 PM	0.0
9/5/2023	12:48:44 PM	0.0
9/5/2023	1:03:44 PM	0.0
9/5/2023	1:18:44 PM	0.0
9/5/2023	1:33:44 PM	0.0
9/5/2023	1:48:44 PM	0.0
9/5/2023	2:03:44 PM	0.0
9/5/2023	2:18:44 PM	0.0
9/5/2023	2:33:44 PM	0.1
9/5/2023	2:48:44 PM	0.1
9/5/2023	3:03:44 PM	0.0
9/5/2023	3:18:44 PM	0.0
9/5/2023	3:33:44 PM	0.0
9/5/2023	3:48:44 PM	0.0
9/5/2023	4:03:44 PM	0.0
9/5/2023	4:18:44 PM	0.0
9/5/2023	4:33:44 PM	0.0
9/5/2023	4:48:44 PM	0.0
	-	



Site: Location: Model Number: Serial Number: Date: Start Time: End Time:	450 Union Street Upwind DustTrak II 8530152605 9/6/2023 7:59:35 AM 3:59:35 PM		Site: Location: Model Num Serial Numb Date: Start Time: End Time:	450 Union Street Downwind b DustTrak II oe 8530104413 9/6/2023 8:00:44 AM 4:00:44 PM	
Log Period	00:15:00		Log Period	00:15:00	
CalFactor	1		CalFactor	1	
Unit	0		Unit	0	
Unit Name	ug/m3		Unit Name	ug/m3	
TempUnits	С		TempUnits	С	
RH Correct	Enabled		RH Correct	Enabled	
Datalog:	Date & Time	Mass [ug/m3]	Datalog:	Date & Time	Mass [ug/m3]
	7:59:35 AM	12		8:00:44 AM	9
	8:14:35 AM	18		8:15:44 AM	16
	8:29:35 AM	19		8:30:44 AM	18
	8:44:35 AM	21		8:45:44 AM	12
	8:59:35 AM	20		9:00:44 AM	13
	9:14:35 AM	17		9:15:44 AM	17
	9:29:35 AM	15		9:30:44 AM	11
	9:44:35 AM	12		9:45:44 AM	11
	9:59:35 AM	16		10:00:44 AM	17
	10:14:35 AM	19		10:15:44 AM	13
	10:29:35 AM	21		10:30:44 AM	19
	10:44:35 AM	15		10:45:44 AM	19
	10:59:35 AM	12		11:00:44 AM	15
	11:14:35 AM	11		11:15:44 AM	12
	11:29:35 AM	19		11:30:44 AM	11
	11:44:35 AM	14		11:45:44 AM	16
	11:59:35 AM	19		12:00:44 PM	10
	12:14:35 PM	20		12:15:44 PM	15
	12:29:35 PM	19		12:30:44 PM	16
	12:44:35 PM	16		12:45:44 PM	17
	12:59:35 PM	20		1:00:44 PM	17
	1:14:35 PM	13		1:15:44 PM	10
	1:29:35 PM	19		1:30:44 PM	19
	1:44:35 PM	21		1:45:44 PM	16
	1:59:35 PM	16		2:00:44 PM	9
	2:14:35 PM	13		2:15:44 PM	11
	2:29:35 PM	14		2:30:44 PM	18
	2:44:35 PM	17		2:45:44 PM	17
	2:59:35 PM	15		3:00:44 PM	13
	3:14:35 PM	19		3:15:44 PM	16
	3:29:35 PM	12		3:30:44 PM	21
	3:44:35 PM	18		3:45:44 PM	13



Site: 450 Union Street
Date: 9/6/2023
Location: Downwind

Unit Name: MiniRAW (3000) (PGM-7320)

Serial Number: 592-908657 Running Mode: Hygiene Mode Datalog Mode: Manual Diagnostic Mode: No

Stop Reason:

 Begin:
 9/6/2023
 8:00:39 AM

 End:
 9/6/2023
 4:47:54 PM

Date

9/6/2023

9/6/2023

9/6/2023

9/6/2023

9/6/2023

9/6/2023

9/6/2023

9/6/2023

9/6/2023 9/6/2023

9/6/2023

9/6/2023

9/6/2023

9/6/2023

9/6/2023

 Low Alarm
 5.0

 High Alarm
 25.0

 Over Alarm
 15000.0

 STEL Alarm
 250.0

 TWA Alarm
 100.0

 Measurement Gas:
 Isobutylene

 Calibration Time
 9/6/2023 8:00

 Peak:
 0.5 ppm

 Min:
 0.0 ppm

 Average:
 0.1 ppm

Datalog:

9/6/2023	8:45:39 AM	0.1
9/6/2023	9:00:39 AM	0.2
9/6/2023	9:15:39 AM	0.1
9/6/2023	9:30:39 AM	0.1
9/6/2023	9:45:39 AM	0.1
9/6/2023	10:00:39 AM	0.1
9/6/2023	10:15:39 AM	0.1
9/6/2023	10:30:39 AM	0.1
9/6/2023	10:45:39 AM	0.0
9/6/2023	11:00:39 AM	0.4
9/6/2023	11:15:39 AM	0.2
9/6/2023	11:30:39 AM	0.1
9/6/2023	11:45:39 AM	0.2
9/6/2023	12:00:39 PM	0.1
9/6/2023	12:15:39 PM	0.1
9/6/2023	12:30:39 PM	0.1
9/6/2023	12:45:39 PM	0.1
9/6/2023	1:00:39 PM	0.1

1:15:39 PM

1:30:39 PM

1:45:39 PM

2:00:39 PM

2:15:39 PM

2:30:39 PM

2:45:39 PM

3:00:39 PM

3:15:39 PM

3:30:39 PM

3:45:39 PM

4:00:39 PM

Time

8:00:39 AM

8:15:39 AM

8:30:39 AM

PID (ppm)

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

Site: 450 Union Street
Date: 9/6/2023
Location: Upwind

Unit Name: MiniRAW (3000) (PGM-7320)

Serial Number: 592-925076 Running Mode: Hygiene Mode Datalog Mode: Manual Diagnostic Mode: No

Stop Reason:

 Date
 Time

 Begin:
 9/6/2023
 8:02:14 AM

 End:
 9/6/2023
 4:48:44 PM

 Low Alarm
 5.0

 High Alarm
 25.0

 Over Alarm
 15000.0

 STEL Alarm
 250.0

 TWA Alarm
 100.0

 Measurement Gas:
 Isobutylene

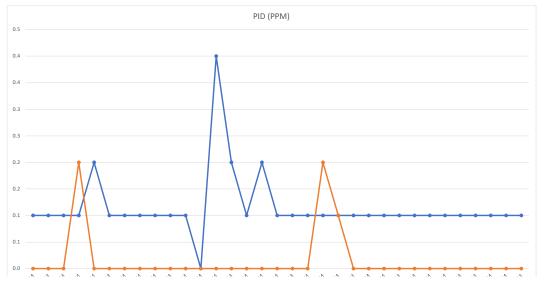
 Calibration Time
 9/6/2023 8:00

 Peak:
 0.2 ppm

 Min:
 0.0 ppm

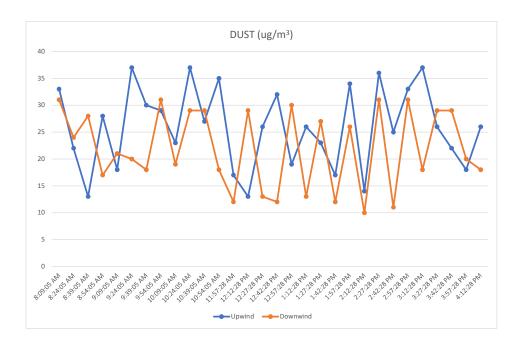
 Average:
 0.0 ppm

Date	Time	PID (ppm)
9/6/2023	8:02:14 AM	0.0
9/6/2023	8:17:14 AM	0.0
9/6/2023	8:32:14 AM	0.0
9/6/2023	8:47:14 AM	0.2
9/6/2023	9:02:14 AM	0.0
9/6/2023	9:17:14 AM	0.0
9/6/2023	9:32:14 AM	0.0
9/6/2023	9:47:14 AM	0.0
9/6/2023	10:02:14 AM	0.0
9/6/2023	10:17:14 AM	0.0
9/6/2023	10:32:14 AM	0.0
9/6/2023	10:47:14 AM	0.0
9/6/2023	11:02:14 AM	0.0
9/6/2023	11:17:14 AM	0.0
9/6/2023	11:32:14 AM	0.0
9/6/2023	11:47:14 AM	0.0
9/6/2023	12:02:14 PM	0.0
9/6/2023	12:17:14 PM	0.0
9/6/2023	12:32:14 PM	0.0
9/6/2023	12:47:14 PM	0.2
9/6/2023	1:02:14 PM	0.1
9/6/2023	1:17:14 PM	0.0
9/6/2023	1:32:14 PM	0.0
9/6/2023	1:47:14 PM	0.0
9/6/2023	2:02:14 PM	0.0
9/6/2023	2:17:14 PM	0.0
9/6/2023	2:32:14 PM	0.0
9/6/2023	2:47:14 PM	0.0
9/6/2023	3:02:14 PM	0.0
9/6/2023	3:17:14 PM	0.0
9/6/2023	3:32:14 PM	0.0
9/6/2023	3:47:14 PM	0.0
9/6/2023	4:02:14 PM	0.0



Site:	450 Union Street			Site:	450 Union Street
Location:	Upwind		Location:	Downwind	
Model Number:	DustTrak II			Model Numb	DustTrak II
Serial Number:	8530152605			Serial Number	e 8530104413
Date:	9/7/2023			Date:	9/7/2023
Start Time:	8:08:16 AM			Start Time:	8:09:05 AM
End Time:	4:11:38 PM			End Time:	4:12:28 PM
Log Period	00:15:00			Log Period	00:15:00
CalFactor	1			CalFactor	1
Unit	0			Unit	0
Unit Name	ug/m3			Unit Name	ug/m3
TempUnits	С			TempUnits	С
RH Correct	Enabled			RH Correct	Enabled
Datalog:	Date & Time	Mass [ug/m3]		Datalog:	Date & Time

Datalog:	Date & Time	Mass [ug/m3]	Datalog:	Date & Time	Mass [ug/m3]
	8:08:16 AM	33		8:09:05 AM	31
	8:23:16 AM	22		8:24:05 AM	24
	8:38:16 AM	13		8:39:05 AM	28
	8:53:16 AM	28		8:54:05 AM	17
	9:08:16 AM	18		9:09:05 AM	21
	9:23:16 AM	37		9:24:05 AM	20
	9:38:16 AM	30		9:39:05 AM	18
	9:53:16 AM	29		9:54:05 AM	31
	10:08:16 AM	23		10:09:05 AM	19
	10:23:16 AM	37		10:24:05 AM	29
	10:38:16 AM	27		10:39:05 AM	29
	10:53:16 AM	35		10:54:05 AM	18
	11:56:38 AM	17		11:57:28 AM	12
	12:11:38 PM	13		12:12:28 PM	29
	12:26:38 PM	26		12:27:28 PM	13
	12:41:38 PM	32		12:42:28 PM	12
	12:56:38 PM	19		12:57:28 PM	30
	1:11:38 PM	26		1:12:28 PM	13
	1:26:38 PM	23		1:27:28 PM	27
	1:41:38 PM	17		1:42:28 PM	12
	1:56:38 PM	34		1:57:28 PM	26
	2:11:38 PM	14		2:12:28 PM	10
	2:26:38 PM	36		2:27:28 PM	31
	2:41:38 PM	25		2:42:28 PM	11
	2:56:38 PM	33		2:57:28 PM	31
	3:11:38 PM	37		3:12:28 PM	18
	3:26:38 PM	26		3:27:28 PM	29
	3:41:38 PM	22		3:42:28 PM	29
	3:56:38 PM	18		3:57:28 PM	20
	4:11:38 PM	26		4:12:28 PM	18



Site: 450 Union Street
Date: 9/7/2023
Location: Downwind

Unit Name: MiniRAW (3000) (PGM-7320)

Serial Number: 592-908657
Running Mode: Hygiene Mode
Datalog Mode: Manual
Diagnostic Mode: No

Stop Reason:

 Date
 Time

 Begin:
 9/7/2023
 8:10:23 AM

 End:
 9/7/2023
 4:11:57 PM

 Low Alarm
 5.0

 High Alarm
 25.0

 Over Alarm
 15000.0

 STEL Alarm
 250.0

 TWA Alarm
 100.0

 Measurement Gas:
 Isobutylene

 Calibration Time
 9/7/2023 8:05

 Peak:
 0.6 ppm

 Min:
 0.0 ppm

 Average:
 0.1 ppm

Datalog:

Date	Time	PID (ppm)
9/7/2023	8:10:23 AM	0.0
9/7/2023	8:25:23 AM	0.0
9/7/2023	8:40:23 AM	0.0
9/7/2023	8:55:23 AM	0.0
9/7/2023	9:10:23 AM	0.0
9/7/2023	9:25:23 AM	0.0
9/7/2023	9:40:23 AM	0.2
9/7/2023	9:55:23 AM	0.6
9/7/2023	10:10:23 AM	0.2
9/7/2023	10:25:23 AM	0.1
9/7/2023	10:40:23 AM	0.0
9/7/2023	10:55:23 AM	0.0
9/7/2023	11:56:47 AM	0.0
9/7/2023	12:11:47 PM	0.0
9/7/2023	12:26:47 PM	0.0
9/7/2023	12:41:47 PM	0.0
9/7/2023	12:56:47 PM	0.0
9/7/2023	1:11:47 PM	0.1
9/7/2023	1:26:47 PM	0.1
9/7/2023	1:41:47 PM	0.0
9/7/2023	1:56:47 PM	0.0
9/7/2023	2:11:47 PM	0.0
9/7/2023	2:26:47 PM	0.0
9/7/2023	2:41:47 PM	0.0
9/7/2023	2:56:47 PM	0.2
9/7/2023	3:11:47 PM	0.0
9/7/2023	3:26:47 PM	0.0
9/7/2023	3:41:47 PM	0.0
9/7/2023	3:56:47 PM	0.0
9/7/2023	4:11:47 PM	0.0

Site: 450 Union Street
Date: 9/7/2023
Location: Upwind

Unit Name: MiniRAW (3000) (PGM-7320)

Serial Number: 592-925076
Running Mode: Hygiene Mode
Datalog Mode: Manual
Diagnostic Mode: No

Stop Reason:

 Date
 Time

 Begin:
 9/7/2023
 8:07:38 AM

 End:
 9/7/2023
 4:10:54 PM

 Low Alarm
 5.0

 High Alarm
 25.0

 Over Alarm
 15000.0

 STEL Alarm
 250.0

 TWA Alarm
 100.0

 Measurement Gas:
 Isobutylene

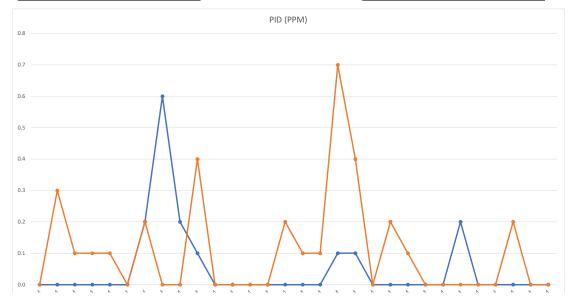
 Calibration Time
 9/7/2023 8:05

 Peak:
 0.7 ppm

 Min:
 0.0 ppm

 Average:
 0.1 ppm

Date	Time	PID (ppm)
9/7/2023	8:07:38 AM	0.0
9/7/2023	8:22:38 AM	0.3
9/7/2023	8:37:38 AM	0.1
9/7/2023	8:52:38 AM	0.1
9/7/2023	9:07:38 AM	0.1
9/7/2023	9:22:38 AM	0.0
9/7/2023	9:37:38 AM	0.2
9/7/2023	9:52:38 AM	0.0
9/7/2023	10:07:38 AM	0.0
9/7/2023	10:22:38 AM	0.4
9/7/2023	10:37:38 AM	0.0
9/7/2023	10:52:38 AM	0.0
9/7/2023	11:55:54 AM	0.0
9/7/2023	12:10:54 PM	0.0
9/7/2023	12:25:54 PM	0.2
9/7/2023	12:40:54 PM	0.1
9/7/2023	12:55:54 PM	0.1
9/7/2023	1:10:54 PM	0.7
9/7/2023	1:25:54 PM	0.4
9/7/2023	1:40:54 PM	0.0
9/7/2023	1:55:54 PM	0.2
9/7/2023	2:10:54 PM	0.1
9/7/2023	2:25:54 PM	0.0
9/7/2023	2:40:54 PM	0.0
9/7/2023	2:55:54 PM	0.0
9/7/2023	3:10:54 PM	0.0
9/7/2023	3:25:54 PM	0.0
9/7/2023	3:40:54 PM	0.2
9/7/2023	3:55:54 PM	0.0
9/7/2023	4:10:54 PM	0.0



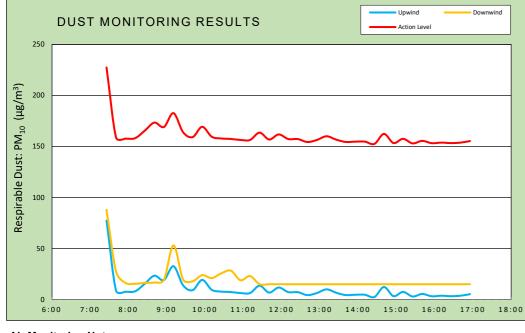
DAILY AIR MONITORING REPORT 450 Union Street Brooklyn, New York

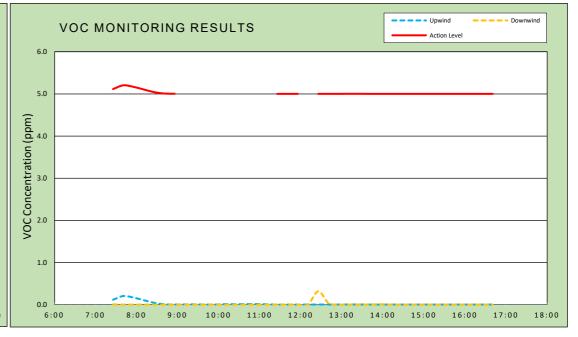
02/05/2024				
Rev. No. 0 Page 1 of 2				
Project Number:				
Dust Action Leve	150 µg/m³			
VOC Action Level		5 ppm		

37 W. 37th St, 6th Floor - New York, NY

Weather Data Range for V	Vork Day	Wind Direction	N	Relative Humidity (%)	33.0 - 57.0	Daily Rain Total (in)	0.00	Readings in the summary table and graphs below are the reported downwind
Temperature (°F)	33.0 - 46.0	Wind Speed (MPH)	2.9 - 5.5	Barometer (inHg)	29.90 - 30.00	Avg. Dew Point Temp (°F)	20.2	concentrations.

Station Location	Daily Avg. Dust Concentration (µg/m³)	Max 15-Min Dust Concentration (μg/m³)	Time of Max Dust Reading	Daily Avg. VOC Concentration (ppm)	Max 15-Min VOC Concentration (ppm)	Time of Max VOC Reading
Upwind	10.6	360.6	7:13	0.0	0.2	7:36
— Downwind ——	19.8	208.0	7:17	0.0	0.7	7:30

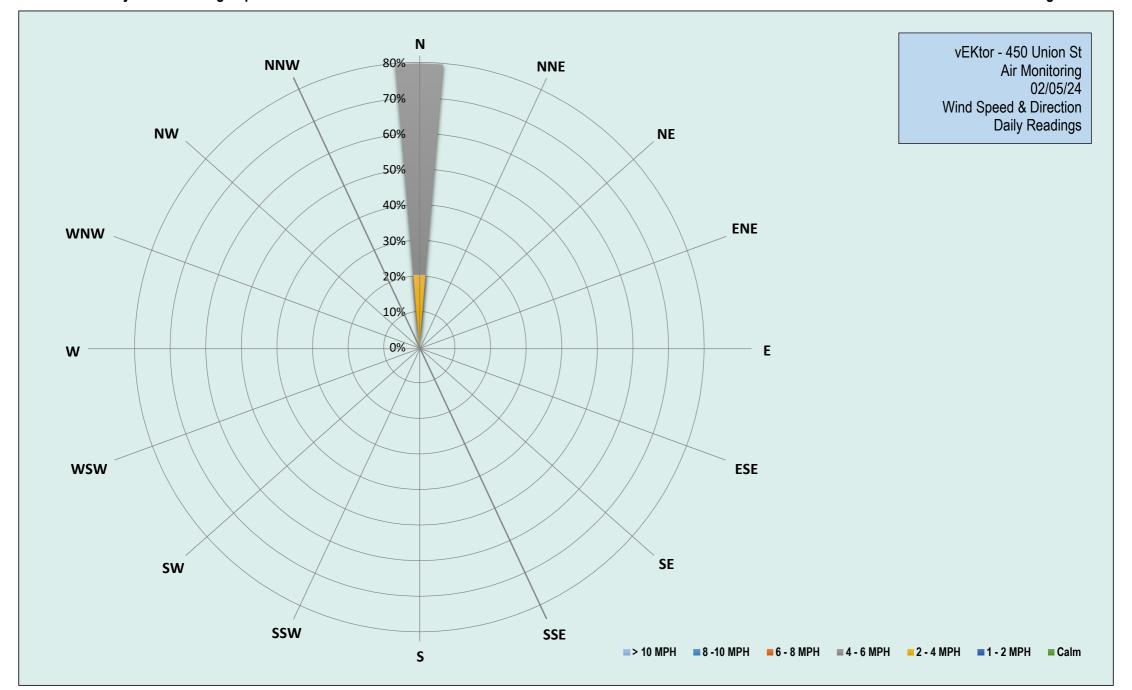




Air Monitoring Notes:

Weather Notes:







Monday, February 5, 2024

Number of Instances Where Downwind Particulates

Number of Comparable Data Points =

 Start Time:
 7:26

 End Time:
 16:56

PARTICULATE DATA

PARTICULATE DATA				
	Upwind		Downwind	
Time	15-Min Avg Concentration (ug/m³)	Time	15-Min Avg Concentration (ug/m³)	Exceeds Particulate Alarm Limit
7:26	77.3	7:26	87.9	-
7:41	8.7	7:41	27.2	-
7:56	7.7	7:56	16.2	-
8:11	8.1	8:11	15.4	-
8:26	15.5	8:26	16.3	-
8:41	23.4	8:41	16.7	_
8:56	19.0	8:56	19.2	_
9:11	32.6	9:11	53.0	-
9:26	14.0	9:26	19.7	-
9:41	9.2	9:41	17.9	-
9:56	19.3	9:56	23.9	-
10:11	9.5	10:11	21.0	-
10:26	7.8	10:26	25.7	-
10:41	7.3	10:41	28.3	-
10:56	6.4	10:56	18.9	-
11:11	6.3	11:11	23.0	-
11:26	13.5	11:26	15.0	-
11:41	6.8	11:41	15.0	-
11:56	11.8	11:56	15.0	-
12:11	7.3	12:11	15.0	-
12:26	7.2	12:26	15.0	-
12:41	4.3	12:41	15.0	-
12:56	6.4	12:56	15.0	-
13:11	10.0	13:11	15.0	-
13:26	6.7	13:26	15.0	-
13:41	4.4	13:41	15.0	-
13:56	4.7	13:56	15.0	-
14:11	4.7	14:11	15.0	-
14:26	2.5	14:26	15.0	-
14:41	12.3	14:41	15.0	-
14:56	3.3	14:56	15.0	-
15:11	7.5	15:11	15.0	-
15:26	3.0	15:26	15.0	-
15:41	5.5	15:41	15.0	-
15:56 16:11	3.2 3.7	15:56 16:11	15.0 15.0	-
16:11	3.3	16:26	15.0	-
16:41	3.7	16:41	15.0	-
16:56	5.3	16:56	15.0	-
		2.23		<u>į</u>

Exceedance Level

164.0 159.2 169.3 159.5 157.8 157.3 156.4 156.3 163.5 156.8 161.8 157.3 157.2 154.3 156.4 160.0 156.7 154.4 154.7 154.7 152.5 162.3 153.3 157.5 153.0 155.5 153.2 153.7 153.3 153.7 155.3

39

227.3							
158.7	Upwind DustTrak Data Summary						
157.7	Daily Maximum	721.3 ug/m ³					
158.1	Daily Minimum	0.0 ug/m ³					
165.5	Daily Average	10.6 ug/m ³					
173.4	Maximum 15-Minute Average	77.3 ug/m ³					
169.0							
182.6							

Downwind DustTrak Data Summary				
Daily Maximum	973.3	ug/m ³		
Daily Minimum	9.0	ug/m ³		
Daily Average	19.8	ug/m ³		
Maximum 15-Minute Average	87.9	ug/m ³		

Monday, February 5, 2024

Number of Instances Where Downwind VOCs Exceeds

Number of Comparable Data Points =

Start Time: 7:27

End Time: 16:42

PID DATA

	Upwind	Downwind		
Time	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	Exceeds VOC Alarm Limit
7:27	0.1	7:27	0.0	-
7:42	0.2	7:42	0.0	-
7:57	0.2	7:57	0.0	-
8:12	0.1	8:12	0.0	-
8:27	0.0	8:27	0.0	-
8:42	0.0	8:42	0.0	-
8:57	0.0	8:57	0.0	-
9:12	0.0	9:12	-	-
9:27	0.0	9:27	-	-
9:42	0.0	9:42	-	-
9:57	0.0	9:57	-	-
10:12	0.0	10:12	-	-
10:27	0.0	10:27	-	-
10:42	0.0	10:42	-	-
10:57	0.0	10:57	-	-
11:12	0.0	11:12	-	-
11:27	0.0	11:27	0.0	-
11:42	0.0	11:42	0.0	-
11:57	0.0	11:57	0.0	-
12:12	0.0	12:12	-	-
12:27	0.0	12:27	0.3	-
12:42	0.0	12:42	0.0	-
12:57	0.0	12:57	0.0	-
13:12	0.0	13:12	0.0	-
13:27	0.0	13:27	0.0	-
13:42	0.0	13:42	0.0	-
13:57	0.0	13:57	0.0	-
14:12	0.0	14:12	0.0	-
14:27	0.0	14:27	0.0	-
14:42	0.0	14:42	0.0	-
14:57	0.0	14:57	0.0	-
15:12	0.0	15:12	0.0	-
15:27	0.0	15:27	0.0	-
15:42	0.0	15:42	0.0	-
15:57	0.0	15:57	0.0	-
16:12	0.0	16:12 16:27	0.0	-
16:27 16:42	0.0	16:27	0.0	-
10.42	0.0	10.42	0.0	-

Exceedance Level

5.1 5.2 5.2 5.1 5.0 5.0

> 5.0 5.0 5.0

> 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0

Upwind PID Data Summary				
Daily Maximum	0.3	ppm		
Daily Minimum	0.0	ppm		
Daily Average	0.0	ppm		
Maximum 15-Minute Average	0.2	ppm		

Downwind PID Data Summary				
Daily Maximum	0.7	ppm		
Daily Minimum	0.0	ppm		
Daily Average	0.0	ppm		
Maximum 15-Minute Average	0.3	ppm		

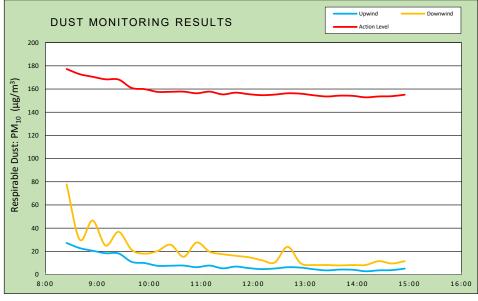
DAILY AIR MONITORING REPORT 450 Union Street Brooklyn, New York

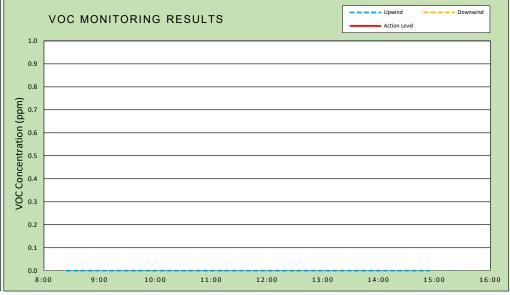
02/06/2024				
Rev. No. 0	Page 1	1 of 2		
Project Number:				
Dust Action Level		150 µg/m³		
VOC Action Level		5 ppm		

37 W. 37	th St, 6th Floor -	New York, NY
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Weather Data Range for V	Vork Day	Wind Direction	NNE	Relative Humidity (%)	42.0 - 60.0	Daily Rain Total (in)	0.00	Readings in the summary table and graphs below are the reported downwind
Temperature (°F)	30.0 - 43.0	Wind Speed (MPH)	3.3 - 5.7	Barometer (inHg)	30.20 - 30.20	Avg. Dew Point Temp (°F)	19.4	concentrations.

Station Location	Daily Avg. Dust Concentration (µg/m³)	Max 15-Min Dust Concentration (μg/m³)	Time of Max Dust Reading	Daily Avg. VOC Concentration (ppm)	Max 15-Min VOC Concentration (ppm)	Time of Max VOC Reading
Upwind	8.6	27.3	8:25	0.0	0.0	8:26
Downwind	19.9	77.7	8:25	N/A	N/A	N/A

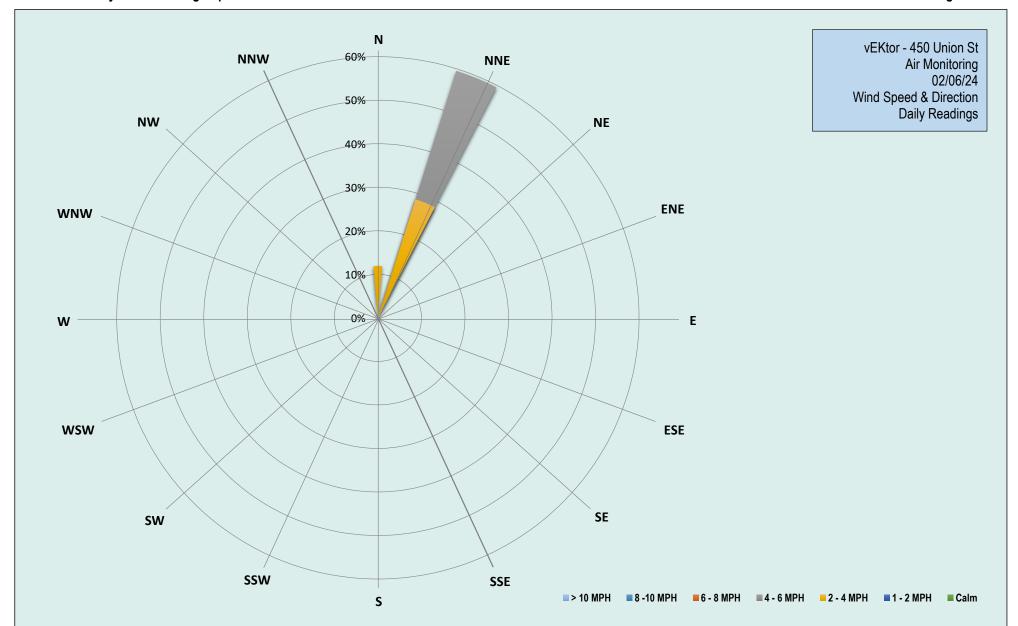




Air Monitoring Notes:

Weather Notes:







Tuesday, February 6, 2024

Number of Instances Where Downwind Particulates

Number of Comparable Data Points =

ata Points = 27 Start Time: 8:25

End Time: 14:55

PARTICULATE DATA
Downwine

	Upwind	Downwind			
Time	15-Min Avg Concentration (ug/m³)	Time	15-Min Avg Concentration (ug/m³)	Exceeds Particulate Alarm Limit	
8:25	27.3	8:25	77.7	-	
8:40	22.8	8:40	30.2	-	
8:55	20.6	8:55	46.6	-	
9:10	18.4	9:10	25.0	-	
9:25	18.2	9:25	36.8	-	
9:40	10.9	9:40	21.4	-	
9:55	9.9	9:55	18.0	-	
10:10	7.6	10:10	20.3	-	
10:25	7.6	10:25	25.7	-	
10:40	7.8	10:40	15.3	-	
10:55	6.3	10:55	27.7	-	
11:10	7.8	11:10	19.7	-	
11:25	5.4	11:25	17.6	-	
11:40	6.9	11:40	16.2	-	
11:55	5.6	11:55	14.9	-	
12:10	4.7	12:10	12.4	-	
12:25	5.2	12:25	10.4	-	
12:40	6.3	12:40	23.9	-	
12:55	6.0	12:55	9.7	-	
13:10	4.6	13:10	8.2	-	
13:25	3.6	13:25	8.2	-	
13:40	4.3	13:40	7.9	-	
13:55	4.1	13:55	8.2	-	
14:10	2.8	14:10	8.2	-	
14:25	3.6	14:25	11.5	-	
14:40	3.8	14:40	9.6	-	
14:55	5.1	14:55	11.5	-	

Exceedance Level

157.8 156.3 157.8 155.4 156.9 155.6 154.7 155.2 156.3 156.0 154.6 153.6 154.3 154.1 152.8 153.6 153.8 155.1

177.3								
172.8	Upwind DustTrak Data Summary							
170.6	Daily Maximum	27.3 ug/m ³						
168.4	Daily Minimum	2.8 ug/m ³						
168.2	Daily Average	8.6 ug/m ³						
160.9	Maximum 15-Minute Average	27.3 ug/m ³						
159.9								
157.6								
157.6	Downwind DustTrak Da	ita Summary						

Downwind DustTrak Data Summary					
Daily Maximum	77.7	ug/m ³			
Daily Minimum	7.9	ug/m ³			
Daily Average	19.9	ug/m ³			
Maximum 15-Minute Average	77.7	ug/m ³			

Tuesday, February 6, 2024

Number of Instances Where Downwind VOCs Exceeds

Number of Comparable Data Points =

Start Time:

#N/A

End Time:

14:56

חו	ח	T/

	Upwind		Downwind	
ime	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	Exceeds VOC Alarm Limit
3:26	0.0	8:26	_	_

Time	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	Exceeds VOC Alarm Limit
8:26	0.0	8:26	-	-
8:41	0.0	8:41	-	-
8:56	0.0	8:56	ı	-
9:11	0.0	9:11	-	-
9:26	0.0	9:26	-	-
9:41	0.0	9:41	-	-
9:56	0.0	9:56	-	-
10:11	0.0	10:11	ı	-
10:26	0.0	10:26	-	-
10:41	0.0	10:41	-	-
10:56	0.0	10:56	-	-
11:11	0.0	11:11	-	-
11:26	0.0	11:26	-	-
11:41	0.0	11:41	-	-
11:56	0.0	11:56	-	-
12:11	0.0	12:11	•	-
12:26	0.0	12:26	-	-
12:41	0.0	12:41	-	-
12:56	0.0	12:56	-	-
13:11	0.0	13:11	-	-
13:26	0.0	13:26	•	-
13:41	0.0	13:41	-	-
13:56	0.0	13:56	-	-
14:11	0.0	14:11	-	-
14:26	0.0	14:26	-	-
14:41	0.0	14:41	-	-
14:56	0.0	14:56	-	-

Exceedance Level

Upwind PID Data Summary					
Daily Maximum	0.0	ppm			
Daily Minimum	0.0	ppm			
Daily Average	0.0	ppm			
Maximum 15-Minute Average	0.0	ppm			

Downwind PID Data Summary					
Daily Maximum	0.0	ppm			
Daily Minimum	0.0	ppm			
Daily Average	#DIV/0!	ppm			
Maximum 15-Minute Average	0.0	ppm			

APPENDIX D

WASTE DISPOSAL DOCUMENTATION



3249 Richmond Terrace
P.O. Box 030312
Staten Island, NY 10303-0312
Telephone (718) 981-4600
Fax (718) 816-4518
www.cwofny.com

PROFILE APPROVAL

Sep 01, 2023

BROOKSIDE ENVIRONMENTAL 22 Ocean Avenue Copiague, NY 11726 Attn: Brian Graham

Generator:

2201 UNION LLC 450 Union Street Brooklyn, NY 11231

Job Number 2921

Name of waste: Oily Water

The approval number for this waste stream is: 237-471

The above referenced waste stream has been approved based on information provided by you on the Generator's Waste Profile Sheet. The waste characteristics must meet all parameters as indicated on the waste profile form. Clean Water reserves the right to reject shipments arriving at the facility due to treatability, physical or chemical characteristics.

Clean Water of New York, Inc. is a fully permitted and insured NYS DEC and USCG approved facility with the authorization and capacity to accept this material.

Please use the approval code on all documentation accompanying the loads.

Please call the facility to schedule a delivery of the material.

Sincerely,

Ralph Duca President Clean Water of New York, Inc.

1	NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emer	gency Response	Phone	4. Waste Tr	acking Numb	er	
1	WASTE MANIFEST	Not requi	red	4	DOS AND PROPERTY.	608-8810		11445 WARES 2593.7		921-962	.3
	5. Generator's Name and Maili		1 0 0					an mailing addre	ss)	7 - 10 0	
	2201 Union LLC					Union LL0					
	55 Washington S Brooklyn NY 11	Breet, 551				Jnlon Stree					
	Generator's Phone:	201		. 1	Brook	klyn NY i	1231				
	6. Transporter 1 Company Nan	ne	7.4					U.S. EPA ID I	Number		
	Brookside Envi	ronmental Inc						N V E	0.0.0	08166	4
	7. Transporter 2 Company Nan	ne						U.S. EPA ID I		LU 0 B 0	
	8. Designated Facility Name ar	nd Site Address						U.S. EPA ID I	Number	27	
	Clean Water of N										
	3249 Richmond										
	Staten Island MY Facility's Phone: 718 9							NVD	0.0.0	96854	5
		500 S. 20 S.				10. Conta	ainers	11. Total	12. Unit	1 19 U D 19 11	
	9. Waste Shipping Nam	e and Description			İ	No.	Type	Quantity	Wt./Vol.		
1	1-Man BCBA n	non-DOT waste, liquid					- /-	*			
G	POOI-POLPON, II	ion-DC1 wasar, aquid			_	11			5.0		
RAI						16	DM	726	G		
GENERATOR	2. 1	en DOT-wester solid						700	- 1		
G	PIOTETCE OFF	1911-LALI-WESTE, SONO									
	6 3						DM		m-83-		
	3.						23111				
		Q-1			-						
					- 1						
	4.								- 8		
						a					
	13. Special Handling Instruction	ns and Additional Information	2								
	 Groundwater. 	. 237-471 2) Soil. 237-460	į.								
			3								
				1							
											19
	44 05115047001010555001	R'S CERTIFICATION: I hereby declare that the	a contents of this	ennionment o	en fully an	d assumbly day	arihad abaua	bu the erecer chi	naina nama	and are electified pack	and .
	marked and labeled/placard	ded, and are in all respects in proper condition	n for transport acc	ording to applic	able inter	national and nati	ional governme	oy the proper shi ental regulations.	pping name, a	and are classified, pack	iyeu,
	Generator's/Offeror's Printed/T				nature					Month Day	Year
V	BRIAN UN	LHAM L WENER	700		6.	0		-		1916	23
٦.	15. International Shipments	Import to U.S.	Г	Export from t	10	Port of er	otn/ovit:				
INT'L	Transporter Signature (for expo	130		i Export from t	J.J.	Date leav	7.0	1			
	16. Transporter Acknowledgme								9.		
TRANSPORTER	Transporter 1 Printed/Typed No			Sig	nature	,	/ /.	10		Month Day	Year
PO	Daniel Re	NNECKE			X	~/	1	and the same		96	23
ANS	Transporter 2 Printed/Typed No	ame		Sig	nature					Month Day	Year
TR/				- 1							
A	17. Discrepancy										
T	17a. Discrepancy Indication Sp	pace Quantity	Туре		Г	Residue		Partial Rej	action	☐ Full Reje	ction
		L Quantity	шт туре		-	inesidue		L Fallai Nej	BUDGII	La ruii neje	Clion
					Man	ifest Reference I	Number:				
2	17b. Alternate Facility (or Gene	erator)					10.44	U.S. EPA ID I	Number		
H											
FAC	Facility's Phone:										
ED	17c. Signature of Alternate Fac	cility (or Generator)								Month Day	Year
NAT											
DESIGNATED FACILITY											
DE											
1											
	18. Designated Facility Owner	or Operator: Certification of receipt of materia	ls covered by the	manifest excep	t as noted	d in Item 17a					
	Printed/Typed Name	1 .1			nature	-				Month Day	Year
*	(01	los Horres				1		-		76	72



3249 Richmond Terrace
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Staten Island, NY 10303-0312
Telephone (718) 981-4600
Fax (718) 816-4518
www.cwofny.com

PROFILE APPROVAL

Sep 01, 2023

BROOKSIDE ENVIRONMENTAL 22 Ocean Avenue Copiague, NY 11726 Attn: Brian Graham

Generator:

2201 UNION LLC 450 Union Street Brooklyn, NY 11231

Job Number 2921

Name of waste: Oily Water

The approval number for this waste stream is: 237-471

The above referenced waste stream has been approved based on information provided by you on the Generator's Waste Profile Sheet. The waste characteristics must meet all parameters as indicated on the waste profile form. Clean Water reserves the right to reject shipments arriving at the facility due to treatability, physical or chemical characteristics.

Clean Water of New York, Inc. is a fully permitted and insured NYS DEC and USCG approved facility with the authorization and capacity to accept this material.

Please use the approval code on all documentation accompanying the loads.

Please call the facility to schedule a delivery of the material.

Sincerely,

Ralph Duca President Clean Water of New York, Inc.

A	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	irad		3. Emergency Response		4. Waste Tr	acking Numb	er 21	413	2 1
	5. Generator's Name and Mailing Address 2201 Union LLC 55 Washington Street, 551 Generator's Site Address (if different than mailing address) 2201 Union LLC 450 Union Street										
ı	Brooklyn NY 11201 Brooklyn NY 11231 Generator's Phone:										
	6. Transporter 1 Company Name U.S. EPA ID Number										
		Brookside Environmental, inc. NYR000081661									1
	7. Transporter 2 Company Name U.S. EPA ID Number										
	Designated Facility Name a	Tarrace f 10303	,				U.S. EPA ID I	Number			
	Facility's Phone: 718 9	81-4600					NYD	000	968	5 4	5
	9. Waste Shipping Nam	1 3 Sec. 0-00			10. Conta	Type	11. Total Quantity	12. Unit Wt./Vol.			
GENERATOR -	1Non-RCRA, n	on-DOT weste, liquid (gro	undwater)		XZ	DM	100	G			
- GENE	2.Non-RCRA, n	on-DOT wata, solid (soli)			X4	DM	1600	7 0			
	3.			+ - 11 2	1	L/Ht	7				
	4.		NI-								
	marked and labeled/placar	R'S CERTIFICATION: I hereby declare to ded, and are in all respects in proper cor	dition for transport acc	ording to applical					and are classifie	ed, packag	ed,
	Generator's/Offeror's Printed/T	TOPE Name AS AS CAR	DEPOTON	COLDINATE CONTRACTOR	B, O				Month 04	23	24
INT	15. International Shipments Transporter Signature (for exp	Import to U.S. orts only):		Export from U.	S. Port of en Date leav						
EB	16. Transporter Acknowledgme	ACTION CONTRACTOR AND ACTION CONTRACTOR ACTION ACTION CONTRACTOR ACTION				/	1				
TRANSPORTER	Transporter 1 Printed/Typed N	1 1101122		Signa	ature (CY	10		Month	Day	Zear/
TRAN	Transporter 2 Printed/Typed N	lame		. Signa	ature				Month	Day	Year
A	17. Discrepancy										
	17a. Discrepancy Indication Sp	Quantity	Туре		Residue Manifest Reference N	Number:	Partial Rej	ection		Full Reject	ion
FACILITY	17b. Alternate Facility (or General Facility's Phone:	erator)					U.S. EPA ID I	Number			
DESIGNATED FACILITY	17c. Signature of Alternate Fac	cility (or Generator)							Month	Day	Year
- DE											
		or Operator: Certification of receipt of ma	aterials covered by the			1,_	-				18-19
V	Printed/Typed Name	ovice Acer	4060	Signa	ature	/			Month	Day 1	Year

APPENDIX E

POST-COC COMPLIANCE OPERATIONS DOCUMENTATION

DAILY STATUS REPORT

Prepared By: Thomas Giordano

NYSDEC BCP Site No:	C224219	Date:	09/05/2023
Project Name:	450 Union Street	Weather:	Sunny, 80-90 °F
Client:	2201 Union LLC	Time:	8:00 – 17:00

Personnel On-Site:

Environmental Consultant: Vektor Consultants - Saranda Alka

WSP: Tim Williams

Demolition Contractor - Candid Construction

Work Activities Performed:

- Candid Construction used jackhammers to break up existing concrete to install new construction fence posts along the Union Street site boundary.
- Fence posts were installed, and concrete poured for new fence posts.

Samples Collected: None

Community Air Monitoring Program

Real-time Community Air Monitoring Plan (CAMP) was implemented during all intrusive work at an upwind and a downwind location. No exceedances were observed. Air monitoring results are appended to the end of this report.

Problems Encountered

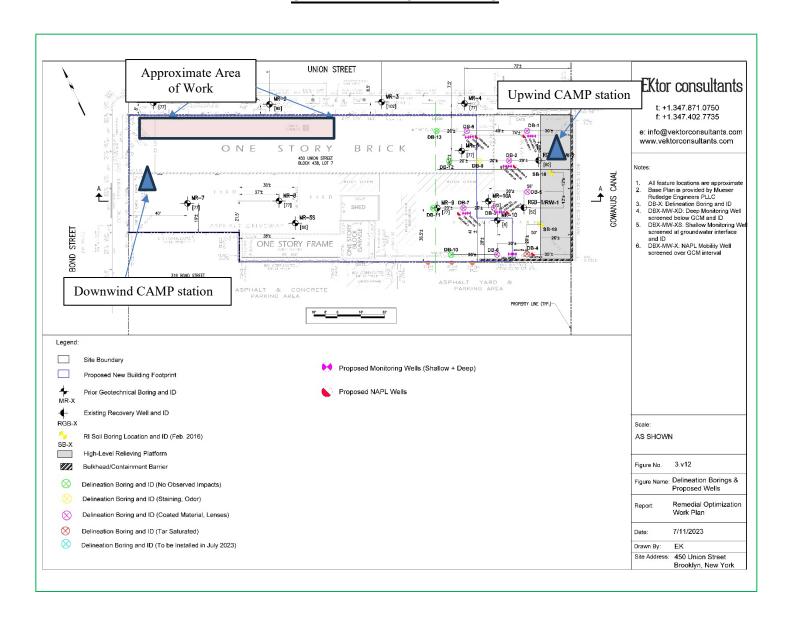
None

Planned Activities for the Next Day

Continued demolition of existing concrete and installation of new construction fence posts.

SITE PLAN / WORK AREAS

BCP No: C224219 September 5, 2023



BCP No: C224219 September 5, 2023

PHOTO LOG

Photo 1: Area of work along Union Street site boundary, facing west.



Photo 2: Breaking up concrete with jackhammers, facing southwest.

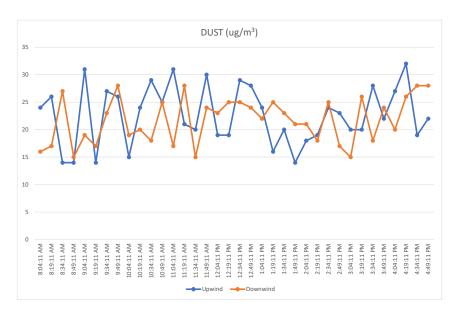


Photo 3: Installed fence posts with concrete along Union Street site boundary, facing south.



Site:	450 Union Street		Site:	450 Union Street	
Location:	Upwind		Location:	Downwind	
Model Number:	DustTrak II		Model Numb	DustTrak II	
Serial Number:	8530152605		Serial Number	e 8530104413	
Date:	9/5/2023		Date:	9/5/2023	
Start Time:	8:02:27 AM		Start Time:	8:04:11 AM	
End Time:	4:47:27 PM		End Time:	4:49:11 PM	
Log Period	00:15:00		Log Period	00:15:00	
CalFactor	1		CalFactor	1	
Unit	0		Unit	0	
Unit Name	ug/m3		Unit Name	ug/m3	
TempUnits	С		TempUnits	С	
RH Correct	Enabled		RH Correct	Enabled	
Datalog:	Date & Time	Mass [ug/m3]	Datalog:	Date & Time	١
	8:02:27 AM	24		8:04:11 AM	
	8:17:27 AM	26		8:19:11 AM	
	8:32:27 AM	14		8:34:11 AM	
	8:47:27 AM	14		8:49:11 AM	

Datalog:	Date & Time	Mass [ug/m3]	Datalog:	Date & Time	Mass [ug/m3]
	8:02:27 AM	24		8:04:11 AM	16
	8:17:27 AM	26		8:19:11 AM	17
	8:32:27 AM	14		8:34:11 AM	27
	8:47:27 AM	14		8:49:11 AM	15
	9:02:27 AM	31		9:04:11 AM	19
	9:17:27 AM	14		9:19:11 AM	17
	9:32:27 AM	27		9:34:11 AM	23
	9:47:27 AM	26		9:49:11 AM	28
	10:02:27 AM	15		10:04:11 AM	19
	10:17:27 AM	24		10:19:11 AM	20
	10:32:27 AM	29		10:34:11 AM	18
	10:47:27 AM	25		10:49:11 AM	25
	11:02:27 AM	31		11:04:11 AM	17
	11:17:27 AM	21		11:19:11 AM	28
	11:32:27 AM	20		11:34:11 AM	15
	11:47:27 AM	30		11:49:11 AM	24
	12:02:27 PM	19		12:04:11 PM	23
	12:17:27 PM	19		12:19:11 PM	25
	12:32:27 PM	29		12:34:11 PM	25
	12:47:27 PM	28		12:49:11 PM	24
	1:02:27 PM	24		1:04:11 PM	22
	1:17:27 PM	16		1:19:11 PM	25
	1:32:27 PM	20		1:34:11 PM	23
	1:47:27 PM	14		1:49:11 PM	21
	2:02:27 PM	18		2:04:11 PM	21
	2:17:27 PM	19		2:19:11 PM	18
	2:32:27 PM	24		2:34:11 PM	25
	2:47:27 PM	23		2:49:11 PM	17
	3:02:27 PM	20		3:04:11 PM	15
	3:17:27 PM	20		3:19:11 PM	26
	3:32:27 PM	28		3:34:11 PM	18
	3:47:27 PM	22		3:49:11 PM	24
	4:02:27 PM	27		4:04:11 PM	20
	4:17:27 PM	32		4:19:11 PM	26
	4:32:27 PM	19		4:34:11 PM	28
	4:47:27 PM	22		4:49:11 PM	28



Site: 450 Union Street Date: 9/5/2023 Location: Downwind Summary: No VOC detections

MiniRAW (3000) (PGM-7320) 592-915354 Unit Name:

Serial Number: Running Mode: Hygiene Mode Datalog Mode: Manual Diagnostic Mode: Stop Reson: No

<u>Date</u> 9/5/2023 9/5/2023 <u>Time</u> 8:02:54 AM Begin: End: 4:47:54 PM

5.0 Low Alarm High Alarm 25.0 Over Alarm 15000.0 STEL Alarm 250.0 TWA Alarm 100.0 Measurement Gas: Isobutylene 9/5/2023 8:00 Calibration Time

Peak: 0.4 ppm Min: 0.0 ppm Average: 0.1 ppm

Datalog:

Date	Time	PID (ppm)
9/5/2023	8:02:54 AM	0.1
9/5/2023	8:17:54 AM	0.2
9/5/2023	8:32:54 AM	0.2
9/5/2023	8:47:54 AM	0.2
9/5/2023	9:02:54 AM	0.3
9/5/2023	9:17:54 AM	0.1
9/5/2023	9:32:54 AM	0.0
9/5/2023	9:47:54 AM	0.0
9/5/2023	10:02:54 AM	0.0
9/5/2023	10:17:54 AM	0.3
9/5/2023	10:32:54 AM	0.3
9/5/2023	10:47:54 AM	0.3
9/5/2023	11:02:54 AM	0.3
9/5/2023	11:17:54 AM	0.4
9/5/2023	11:32:54 AM	0.3
9/5/2023	11:47:54 AM	0.0
9/5/2023	12:02:54 PM	0.0
9/5/2023	12:17:54 PM	0.0
9/5/2023	12:32:54 PM	0.2
9/5/2023	12:47:54 PM	0.1
9/5/2023	1:02:54 PM	0.1
9/5/2023	1:17:54 PM	0.1
9/5/2023	1:32:54 PM	0.1
9/5/2023	1:47:54 PM	0.0
9/5/2023	2:02:54 PM	0.0
9/5/2023	2:17:54 PM	0.0
9/5/2023	2:32:54 PM	0.0
9/5/2023	2:47:54 PM	0.2
9/5/2023	3:02:54 PM	0.0
9/5/2023	3:17:54 PM	0.0
9/5/2023	3:32:54 PM	0.0
9/5/2023	3:47:54 PM	0.2
9/5/2023	4:02:54 PM	0.3
9/5/2023	4:17:54 PM	0.0
9/5/2023	4:32:54 PM	0.0
9/5/2023	4:47:54 PM	0.0

450 Union Street Date: 9/5/2023 Location: Upwind Summary: No VOC detections

MiniRAW (3000) (PGM-7320) 592-915354 Unit Name:

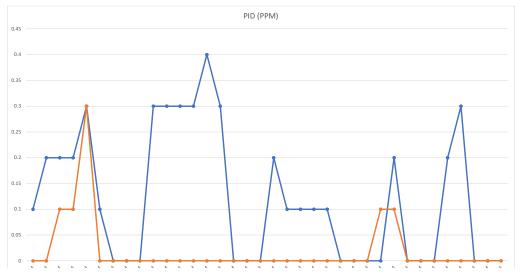
Serial Number: Running Mode: Hygiene Mode Datalog Mode: Diagnostic Mode: Stop Reson: No

<u>Date</u> 9/5/2023 9/5/2023 <u>Time</u> 8:03:44 AM Begin: End: 4:48:44 PM

5.0 Low Alarm High Alarm 25.0 Over Alarm STEL Alarm 15000.0 250.0 TWA Alarm 100.0 Measurement Gas: Isobutylene 9/5/2023 8:00 Calibration Time

Peak: 0.3 ppm 0.0 ppm Average: 0.0 ppm

Date	Time	PID (ppm)
9/5/2023	8:03:44 AM	0.0
9/5/2023	8:18:44 AM	0.0
9/5/2023	8:33:44 AM	0.1
9/5/2023	8:48:44 AM	0.1
9/5/2023	9:03:44 AM	0.3
9/5/2023	9:18:44 AM	0.0
9/5/2023	9:33:44 AM	0.0
9/5/2023	9:48:44 AM	0.0
9/5/2023	10:03:44 AM	0.0
9/5/2023	10:18:44 AM	0.0
9/5/2023	10:33:44 AM	0.0
9/5/2023	10:48:44 AM	0.0
9/5/2023	11:03:44 AM	0.0
9/5/2023	11:18:44 AM	0.0
9/5/2023	11:33:44 AM	0.0
9/5/2023	11:48:44 AM	0.0
9/5/2023	12:03:44 PM	0.0
9/5/2023	12:18:44 PM	0.0
9/5/2023	12:33:44 PM	0.0
9/5/2023	12:48:44 PM	0.0
9/5/2023	1:03:44 PM	0.0
9/5/2023	1:18:44 PM	0.0
9/5/2023	1:33:44 PM	0.0
9/5/2023	1:48:44 PM	0.0
9/5/2023	2:03:44 PM	0.0
9/5/2023	2:18:44 PM	0.0
9/5/2023	2:33:44 PM	0.1
9/5/2023	2:48:44 PM	0.1
9/5/2023	3:03:44 PM	0.0
9/5/2023	3:18:44 PM	0.0
9/5/2023	3:33:44 PM	0.0
9/5/2023	3:48:44 PM	0.0
9/5/2023	4:03:44 PM	0.0
9/5/2023	4:18:44 PM	0.0
9/5/2023	4:33:44 PM	0.0
9/5/2023	4:48:44 PM	0.0
	-	



DAILY STATUS REPORT

Prepared By: Thomas Giordano

NYSDEC BCP Site No:	C224219	Date:	09/06/2023
Project Name:	450 Union Street	Weather:	Sunny, 80-92 °F
Client:	2201 Union LLC	Time:	8:00 – 16:00

Personnel On-Site:

Environmental Consultant: Vektor Consultants - Saranda Alka

WSP: Tim Williams

Demolition Contractor - Candid Construction

Work Activities Performed:

- Candid Construction continued jackhammers to break up existing concrete to install new construction fence posts along the Union Street site boundary.
- Fence posts were installed, and concrete poured for new fence posts.
- Construction fence was relocated along the Bond Street site boundary.
- 16 drums of groundwater from the RSO/GCM delineation investigation work were loaded and transported by Brookside Environmental to Clean Water of New York, Staten Island, NY, for disposal. The manifest is appended to the end of this report.

Samples Collected: None

Community Air Monitoring Program

Real-time Community Air Monitoring Plan (CAMP) was implemented during all intrusive work at an upwind and a downwind location. No exceedances were observed. Air monitoring results are appended to the end of this report.

Problems Encountered

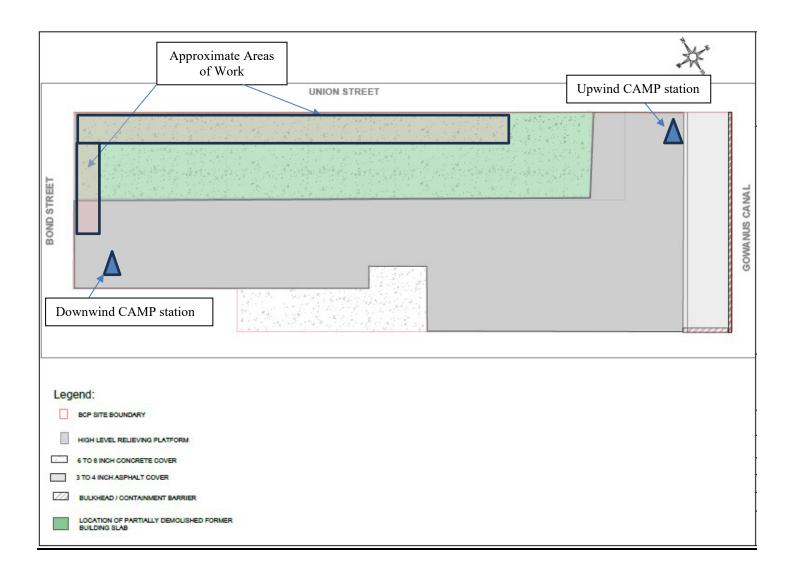
None

Planned Activities for the Next Day

Continued demolition of existing concrete and installation of new construction fence posts.

BCP No: C224219 September 6, 2023

SITE PLAN / WORK AREAS



BCP No: C224219 September 6, 2023

PHOTO LOG

Photo 1: Breaking up concrete with jackhammers, facing southwest.



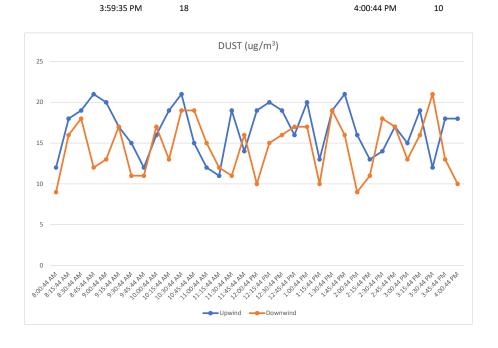
Photo 2: General work area along Union Street property boundary, facing west.



Photo 3: Relocation of fence along Bond Street, facing southwest.



Site: Location: Model Number: Serial Number: Date: Start Time: End Time:	450 Union Street Upwind DustTrak II 8530152605 9/6/2023 7:59:35 AM 3:59:35 PM		Site: Location: Model Num Serial Numb Date: Start Time: End Time:	450 Union Street Downwind b DustTrak II oe 8530104413 9/6/2023 8:00:44 AM 4:00:44 PM	
Log Period	00:15:00		Log Period	00:15:00	
CalFactor	1		CalFactor	1	
Unit	0		Unit	0	
Unit Name	ug/m3		Unit Name	ug/m3	
TempUnits	С		TempUnits	С	
RH Correct	Enabled		RH Correct	Enabled	
Datalog:	Date & Time	Mass [ug/m3]	Datalog:	Date & Time	Mass [ug/m3]
	7:59:35 AM	12		8:00:44 AM	9
	8:14:35 AM	18		8:15:44 AM	16
	8:29:35 AM	19		8:30:44 AM	18
	8:44:35 AM	21		8:45:44 AM	12
	8:59:35 AM	20		9:00:44 AM	13
	9:14:35 AM	17		9:15:44 AM	17
	9:29:35 AM	15		9:30:44 AM	11
	9:44:35 AM	12		9:45:44 AM	11
	9:59:35 AM	16		10:00:44 AM	17
	10:14:35 AM	19		10:15:44 AM	13
	10:29:35 AM	21		10:30:44 AM	19
	10:44:35 AM	15		10:45:44 AM	19
	10:59:35 AM	12		11:00:44 AM	15
	11:14:35 AM	11		11:15:44 AM	12
	11:29:35 AM	19		11:30:44 AM	11
	11:44:35 AM	14		11:45:44 AM	16
	11:59:35 AM	19		12:00:44 PM	10
	12:14:35 PM	20		12:15:44 PM	15
	12:29:35 PM	19		12:30:44 PM	16
	12:44:35 PM	16		12:45:44 PM	17
	12:59:35 PM	20		1:00:44 PM	17
	1:14:35 PM	13		1:15:44 PM	10
	1:29:35 PM	19		1:30:44 PM	19
	1:44:35 PM	21		1:45:44 PM	16
	1:59:35 PM	16		2:00:44 PM	9
	2:14:35 PM	13		2:15:44 PM	11
	2:29:35 PM	14		2:30:44 PM	18
	2:44:35 PM	17		2:45:44 PM	17
	2:59:35 PM	15		3:00:44 PM	13
	3:14:35 PM	19		3:15:44 PM	16
	3:29:35 PM	12		3:30:44 PM	21
	3:44:35 PM	18		3:45:44 PM	13



Site: 450 Union Street
Date: 9/6/2023
Location: Downwind

Unit Name: MiniRAW (3000) (PGM-7320)

Serial Number: 592-908657 Running Mode: Hygiene Mode Datalog Mode: Manual Diagnostic Mode: No

Stop Reason:

 Begin:
 9/6/2023
 8:00:39 AM

 End:
 9/6/2023
 4:47:54 PM

 Low Alarm
 5.0

 High Alarm
 25.0

 Over Alarm
 15000.0

 STEL Alarm
 250.0

 TWA Alarm
 100.0

 Measurement Gas:
 Isobutylene

 Calibration Time
 9/6/2023 8:00

 Peak:
 0.5 ppm

 Min:
 0.0 ppm

 Average:
 0.1 ppm

Datalog:

Date	Time	PID (ppm)
9/6/2023	8:00:39 AM	0.1
9/6/2023	8:15:39 AM	0.1
9/6/2023	8:30:39 AM	0.1
9/6/2023	8:45:39 AM	0.1
9/6/2023	9:00:39 AM	0.2
9/6/2023	9:15:39 AM	0.1
9/6/2023	9:30:39 AM	0.1
9/6/2023	9:45:39 AM	0.1
9/6/2023	10:00:39 AM	0.1
9/6/2023	10:15:39 AM	0.1
9/6/2023	10:30:39 AM	0.1
9/6/2023	10:45:39 AM	0.0
9/6/2023	11:00:39 AM	0.4
9/6/2023	11:15:39 AM	0.2
9/6/2023	11:30:39 AM	0.1
9/6/2023	11:45:39 AM	0.2
9/6/2023	12:00:39 PM	0.1
9/6/2023	12:15:39 PM	0.1
9/6/2023	12:30:39 PM	0.1
9/6/2023	12:45:39 PM	0.1
9/6/2023	1:00:39 PM	0.1
9/6/2023	1:15:39 PM	0.1
9/6/2023	1:30:39 PM	0.1
9/6/2023	1:45:39 PM	0.1
9/6/2023	2:00:39 PM	0.1
9/6/2023	2:15:39 PM	0.1
9/6/2023	2:30:39 PM	0.1
9/6/2023	2:45:39 PM	0.1
9/6/2023	3:00:39 PM	0.1
9/6/2023	3:15:39 PM	0.1
9/6/2023	3:30:39 PM	0.1
9/6/2023	3:45:39 PM	0.1
9/6/2023	4:00:39 PM	0.1

Site: 450 Union Street
Date: 9/6/2023
Location: Upwind

Unit Name: MiniRAW (3000) (PGM-7320)

Serial Number: 592-925076 Running Mode: Hygiene Mode Datalog Mode: Manual Diagnostic Mode: No

Stop Reason:

 Date
 Time

 Begin:
 9/6/2023
 8:02:14 AM

 End:
 9/6/2023
 4:48:44 PM

 Low Alarm
 5.0

 High Alarm
 25.0

 Over Alarm
 15000.0

 STEL Alarm
 25.0

 TWA Alarm
 100.0

 Measurement Gas:
 Isobutylene

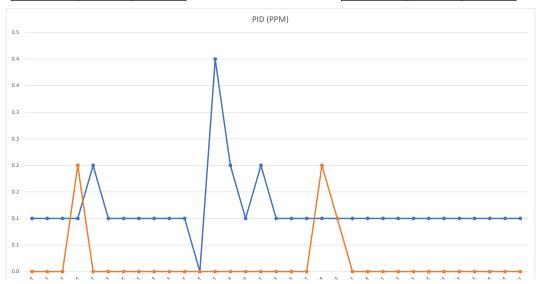
 Calibration Time
 9/6/2023 8:00

 Peak:
 0.2 ppm

 Min:
 0.0 ppm

 Average:
 0.0 ppm

Date	Time	PID (ppm)
9/6/2023	8:02:14 AM	0.0
9/6/2023	8:17:14 AM	0.0
9/6/2023	8:32:14 AM	0.0
9/6/2023	8:47:14 AM	0.2
9/6/2023	9:02:14 AM	0.0
9/6/2023	9:17:14 AM	0.0
9/6/2023	9:32:14 AM	0.0
9/6/2023	9:47:14 AM	0.0
9/6/2023	10:02:14 AM	0.0
9/6/2023	10:17:14 AM	0.0
9/6/2023	10:32:14 AM	0.0
9/6/2023	10:47:14 AM	0.0
9/6/2023	11:02:14 AM	0.0
9/6/2023	11:17:14 AM	0.0
9/6/2023	11:32:14 AM	0.0
9/6/2023	11:47:14 AM	0.0
9/6/2023	12:02:14 PM	0.0
9/6/2023	12:17:14 PM	0.0
9/6/2023	12:32:14 PM	0.0
9/6/2023	12:47:14 PM	0.2
9/6/2023	1:02:14 PM	0.1
9/6/2023	1:17:14 PM	0.0
9/6/2023	1:32:14 PM	0.0
9/6/2023	1:47:14 PM	0.0
9/6/2023	2:02:14 PM	0.0
9/6/2023	2:17:14 PM	0.0
9/6/2023	2:32:14 PM	0.0
9/6/2023	2:47:14 PM	0.0
9/6/2023	3:02:14 PM	0.0
9/6/2023	3:17:14 PM	0.0
9/6/2023	3:32:14 PM	0.0
9/6/2023	3:47:14 PM	0.0
9/6/2023	4:02:14 PM	0.0



Á	NON-HAZARDOUS	Generator ID Number		2. Page 1 of	3. Emerge	ncy Response	e Phone	4. Waste Tr	acking Nun	nber	
1	WASTE MANIFEST		uired	1		08-8810			2	921-9	623
	5. Generator's Name and Maili		01100					nan mailing addre	ess)	021-1	
	2201 Union LLC 2201 Union LLC										
	55 Washington S	ilreet, 551				nion Stre					
		Brooklyn NY 11201 Brooklyn NY 11231									
	6. Transporter 1 Company Nan	Generator's Phone: U.S. EPA ID Number U.S. EPA ID Number									
	The control of the co							I manufacture and		00010	
-	7 Transporter 2 Company Nan									0 0 8 1 6	5 65 1
	7. Hansporter 2 Company Ivan	Transporter 2 Company Name U.S. EPA ID Number									
	Designated Facility Name ar	nd Cite Address						U.S. EPA ID I	lumbor		
	Clean Water of N	lass Varie						U.S. EFA ID I	vuilloei		
	3249 Richmond										
	Staten Island NY							f			
	Facility's Phone: 718 9	81-4600						N Y D	0.0	09685	5 4 5
	9. Waste Shipping Nam	ne and Description			_	10. Conta	ainers	11. Total	12. Unit		
	and the same of th					No.	Туре	Quantity	Wt./Vol.		
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GENERATOR	2. Nen-RCRA-F	nen-DOT-waste, solid-									
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		4									
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OB		NNECKE			X		1	10		191/	123
NSF	Transporter 2 Printed/Typed N			Sig	nature				A	Month	Day Year
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DAILY STATUS REPORT

Prepared By: Thomas Giordano

NYSDEC BCP Site No:	C224219	Date:	09/07/2023
Project Name:	450 Union Street	Weather:	Sunny, 85-95 °F
Client:	2201 Union LLC	Time:	8:00 – 16:15

Personnel On-Site:

Environmental Consultant: Vektor Consultants - Saranda Alka

WSP: Tim Williams

Demolition Contractor - Candid Construction

Work Activities Performed:

- Candid Construction continued utilizing jackhammers to break up existing concrete to remove former construction fence posts along the Union Street site boundary.
- Concrete was poured in locations of former construction fence posts along the Union Street sidewalk.
- Construction fence was relocated along the Union Street site boundary.

Samples Collected: None

Community Air Monitoring Program

Real-time Community Air Monitoring Plan (CAMP) was implemented during all intrusive work at an upwind and a downwind location. No exceedances were observed. Air monitoring results are appended to the end of this report.

Problems Encountered

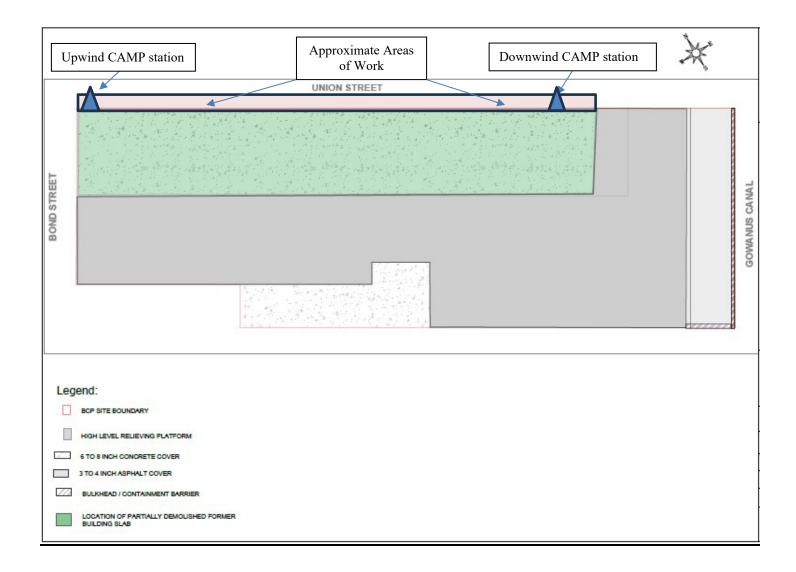
None

Planned Activities for the Next Day

Continued demolition of existing concrete and installation of new construction fence posts.

SITE PLAN / WORK AREAS

BCP No: C224219 September 7, 2023



BCP No: C224219 September 7, 2023

PHOTO LOG

Photo 1: Breaking up concrete around former fence posts after Union Street fence was relocated, facing west.



Photo 2: Poured concrete for former construction fence post locations, facing west.

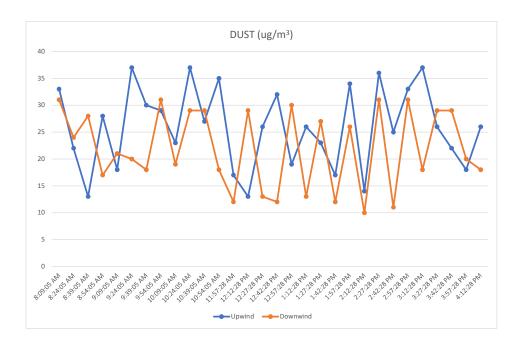


Photo 3: General view of work area with CAMP, facing west.



Site:	450 Union Street			Site:	450 Union Street
Location:	Upwind	Upwind L		Location:	Downwind
Model Number:	DustTrak II			Model Numb	DustTrak II
Serial Number:	8530152605			Serial Number	e 8530104413
Date:	9/7/2023			Date:	9/7/2023
Start Time:	8:08:16 AM			Start Time:	8:09:05 AM
End Time:	4:11:38 PM			End Time:	4:12:28 PM
Log Period	00:15:00			Log Period	00:15:00
CalFactor	1			CalFactor	1
Unit	0			Unit	0
Unit Name	ug/m3			Unit Name	ug/m3
TempUnits	С			TempUnits	С
RH Correct	Enabled			RH Correct	Enabled
Datalog:	Date & Time	Mass [ug/m3]		Datalog:	Date & Time

Datalog:	Date & Time	Mass [ug/m3]	Datalog:	Date & Time	Mass [ug/m3]
	8:08:16 AM	33		8:09:05 AM	31
	8:23:16 AM	22		8:24:05 AM	24
	8:38:16 AM	13		8:39:05 AM	28
	8:53:16 AM	28		8:54:05 AM	17
	9:08:16 AM	18		9:09:05 AM	21
	9:23:16 AM	37		9:24:05 AM	20
	9:38:16 AM	30		9:39:05 AM	18
	9:53:16 AM	29		9:54:05 AM	31
	10:08:16 AM	23		10:09:05 AM	19
	10:23:16 AM	37		10:24:05 AM	29
	10:38:16 AM	27		10:39:05 AM	29
	10:53:16 AM	35		10:54:05 AM	18
	11:56:38 AM	17		11:57:28 AM	12
	12:11:38 PM	13		12:12:28 PM	29
	12:26:38 PM	26		12:27:28 PM	13
	12:41:38 PM	32		12:42:28 PM	12
	12:56:38 PM	19		12:57:28 PM	30
	1:11:38 PM	26		1:12:28 PM	13
	1:26:38 PM	23		1:27:28 PM	27
	1:41:38 PM	17		1:42:28 PM	12
	1:56:38 PM	34		1:57:28 PM	26
	2:11:38 PM	14		2:12:28 PM	10
	2:26:38 PM	36		2:27:28 PM	31
	2:41:38 PM	25		2:42:28 PM	11
	2:56:38 PM	33		2:57:28 PM	31
	3:11:38 PM	37		3:12:28 PM	18
	3:26:38 PM	26		3:27:28 PM	29
	3:41:38 PM	22		3:42:28 PM	29
	3:56:38 PM	18		3:57:28 PM	20
	4:11:38 PM	26		4:12:28 PM	18



Site: 450 Union Street
Date: 9/7/2023
Location: Downwind

Unit Name: MiniRAW (3000) (PGM-7320)

Serial Number: 592-908657
Running Mode: Hygiene Mode
Datalog Mode: Manual
Diagnostic Mode: No

Stop Reason:

 Date
 Time

 Begin:
 9/7/2023
 8:10:23 AM

 End:
 9/7/2023
 4:11:57 PM

 Low Alarm
 5.0

 High Alarm
 25.0

 Over Alarm
 15000.0

 STEL Alarm
 250.0

 TWA Alarm
 100.0

 Measurement Gas:
 Isobutylene

 Calibration Time
 9/7/2023 8:05

 Peak:
 0.6 ppm

 Min:
 0.0 ppm

 Average:
 0.1 ppm

Datalog:

Date	Time	PID (ppm)
9/7/2023	8:10:23 AM	0.0
9/7/2023	8:25:23 AM	0.0
9/7/2023	8:40:23 AM	0.0
9/7/2023	8:55:23 AM	0.0
9/7/2023	9:10:23 AM	0.0
9/7/2023	9:25:23 AM	0.0
9/7/2023	9:40:23 AM	0.2
9/7/2023	9:55:23 AM	0.6
9/7/2023	10:10:23 AM	0.2
9/7/2023	10:25:23 AM	0.1
9/7/2023	10:40:23 AM	0.0
9/7/2023	10:55:23 AM	0.0
9/7/2023	11:56:47 AM	0.0
9/7/2023	12:11:47 PM	0.0
9/7/2023	12:26:47 PM	0.0
9/7/2023	12:41:47 PM	0.0
9/7/2023	12:56:47 PM	0.0
9/7/2023	1:11:47 PM	0.1
9/7/2023	1:26:47 PM	0.1
9/7/2023	1:41:47 PM	0.0
9/7/2023	1:56:47 PM	0.0
9/7/2023	2:11:47 PM	0.0
9/7/2023	2:26:47 PM	0.0
9/7/2023	2:41:47 PM	0.0
9/7/2023	2:56:47 PM	0.2
9/7/2023	3:11:47 PM	0.0
9/7/2023	3:26:47 PM	0.0
9/7/2023	3:41:47 PM	0.0
9/7/2023	3:56:47 PM	0.0
9/7/2023	4:11:47 PM	0.0

Site: 450 Union Street
Date: 9/7/2023
Location: Upwind

Unit Name: MiniRAW (3000) (PGM-7320)

Serial Number: 592-925076
Running Mode: Hygiene Mode
Datalog Mode: Manual
Diagnostic Mode: No

Stop Reason:

 Date
 Time

 Begin:
 9/7/2023
 8:07:38 AM

 End:
 9/7/2023
 4:10:54 PM

 Low Alarm
 5.0

 High Alarm
 25.0

 Over Alarm
 15000.0

 STEL Alarm
 250.0

 TWA Alarm
 100.0

 Measurement Gas:
 Isobutylene

 Calibration Time
 9/7/2023 8:05

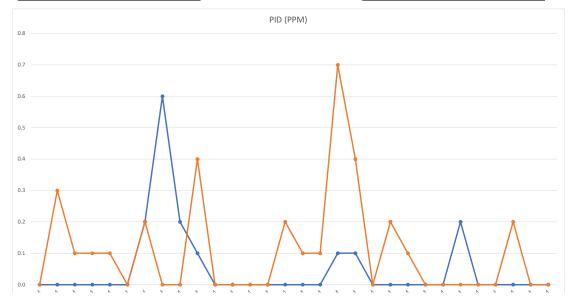
 Peak:
 0.7 ppm

 Min:
 0.0 ppm

 Average:
 0.1 ppm

Datalog:

Date	Time	PID (ppm)
9/7/2023	8:07:38 AM	0.0
9/7/2023	8:22:38 AM	0.3
9/7/2023	8:37:38 AM	0.1
9/7/2023	8:52:38 AM	0.1
9/7/2023	9:07:38 AM	0.1
9/7/2023	9:22:38 AM	0.0
9/7/2023	9:37:38 AM	0.2
9/7/2023	9:52:38 AM	0.0
9/7/2023	10:07:38 AM	0.0
9/7/2023	10:22:38 AM	0.4
9/7/2023	10:37:38 AM	0.0
9/7/2023	10:52:38 AM	0.0
9/7/2023	11:55:54 AM	0.0
9/7/2023	12:10:54 PM	0.0
9/7/2023	12:25:54 PM	0.2
9/7/2023	12:40:54 PM	0.1
9/7/2023	12:55:54 PM	0.1
9/7/2023	1:10:54 PM	0.7
9/7/2023	1:25:54 PM	0.4
9/7/2023	1:40:54 PM	0.0
9/7/2023	1:55:54 PM	0.2
9/7/2023	2:10:54 PM	0.1
9/7/2023	2:25:54 PM	0.0
9/7/2023	2:40:54 PM	0.0
9/7/2023	2:55:54 PM	0.0
9/7/2023	3:10:54 PM	0.0
9/7/2023	3:25:54 PM	0.0
9/7/2023	3:40:54 PM	0.2
9/7/2023	3:55:54 PM	0.0
9/7/2023	4:10:54 PM	0.0



DAILY STATUS REPORT

Prepared By: Thomas Giordano

NYSDEC BCP Site No:	C224219	Date:	02/05/2024
Project Name:	450 Union Street	Weather:	Sunny, 33-46 °F
Client:	2201 Union LLC	Time:	7:00 – 17:00

Personnel On-Site:

Environmental Consultant: Vektor Consultants - Peter Rathsack and Eugenia Papisov

WSP: Tim Williams

Drilling Subcontractor: Coastal Environmental Solutions

Work Activities Performed:

- Coastal Environmental Solutions, under the direction of Vektor, advanced soil borings at two locations within the proposed treatment area as proposed in the NYSDEC-conditionally approved Remedial Site Optimization Treatability Study Work Plan for the sampling of soil with grossly contaminated material (GCM) or non-aqueous phase liquid (NAPL) between elevations -10 and -28 NAVD88 for submission to Geo-Solutions, Inc for a In-Situ Stabilization (ISS) study and to ReSolutions Partners for a In-Situ Geochemical Stabilization (ISGS) study. In order to collect a sufficient volume of soil for both treatability studies concurrently, an additional two soil borings were advanced at each original soil boring location within the proposed treatment area. Vektor utilized a PID to field screen soil borings during logging of soil descriptions for the presence to ensure that samples contain soils with GCM or NAPL impacts during the investigation. Soil samples were collected in 5-gallon buckets.
- A headspace reading for DB3-MW-3 was collected utilizing a PID, DB3-MW-3 was gauged and sampled. The
 depths were measured from top of casing (TOC).
- Vektor used a peristatic pump to collect low flow groundwater samples from DB3-MW-3 for the ISGS groundwater study. Groundwater was purged from each well to measure water quality parameters (pH, specific conductivity, oxygen reduction potential, dissolved oxygen, turbidity, and temperature) for stabilization criteria prior to sampling into laboratory provided containers. Groundwater samples were collected in 9.5L stainless steel containers.

Samples Collected:

ISS: ISS-TS-Soil-1, ISS-TS-Soil-2, ISS-TS-Soil-3, and ISS-TS-Soil-4

ISGS: ISGS-TS-Soil-1, ISGS-TS-Soil-2, ISGS-TS-GW-4, ISGS-TS-GW-5, and ISGS-TS-GW-6

Community Air Monitoring Program

Real-time Community Air Monitoring Plan (CAMP) was implemented during all intrusive work at an upwind and a downwind location. No exceedances were observed; however, elevated readings were recorded on both upwind and downwind locations upon equipment startup and do not constitute exceedances. Air monitoring results are appended to the end of this report.

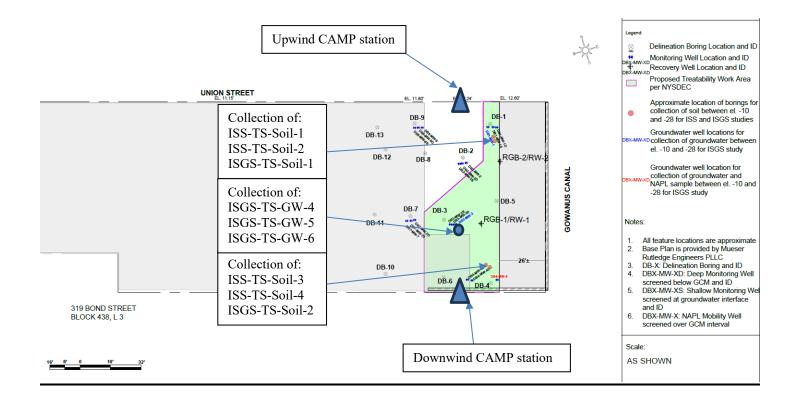
Problems Encountered

None

Planned Activities for the Next Day

Continued gauging of existing well network within the proposed treatment area, collection of groundwater samples and collection of NAPL sample for the ISGS groundwater investigation study.

SITE PLAN / WORK AREAS



BCP No: C224219 February 5, 2024

PHOTO LOG

Photo 1: Operation of CAMP during drilling activities for the treatability study investigation, facing south.



Photo 2: Drilling of soil borings to collect samples from el. -10 to - 28 NAVD88 for the treatability study investigation, facing south.



Photo 3: Soil logging and screening activities, facing south.



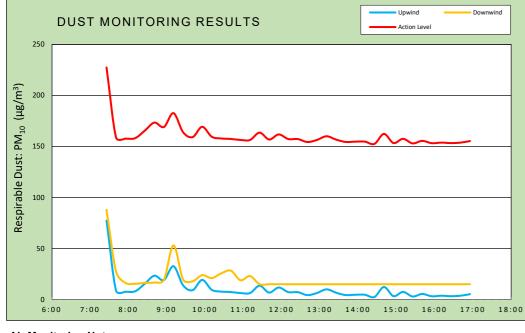
DAILY AIR MONITORING REPORT 450 Union Street Brooklyn, New York

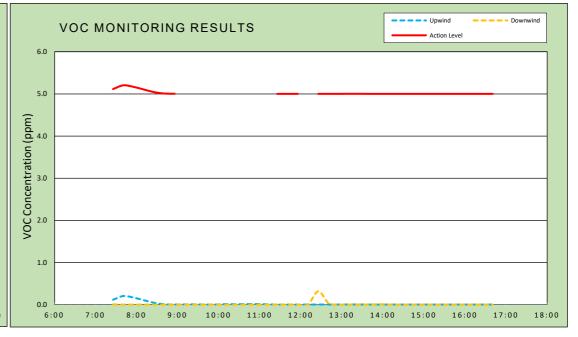
02/05/2024				
Rev. No. 0 Page 1 of 2				
Project N	Number:			
Dust Action Leve	150 µg/m³			
VOC Action Level		5 ppm		

37 W. 37th St, 6th Floor - New York, NY

Weather Data Range for V	Vork Day	Wind Direction	N	Relative Humidity (%)	33.0 - 57.0	Daily Rain Total (in)	0.00	Readings in the summary table and graphs below are the reported downwind
Temperature (°F)	33.0 - 46.0	Wind Speed (MPH)	2.9 - 5.5	Barometer (inHg)	29.90 - 30.00	Avg. Dew Point Temp (°F)	20.2	concentrations.

Station Location	Daily Avg. Dust Concentration (µg/m³)	Max 15-Min Dust Concentration (μg/m³)	Time of Max Dust Reading	Daily Avg. VOC Concentration (ppm)	Max 15-Min VOC Concentration (ppm)	Time of Max VOC Reading
Upwind	10.6	360.6	7:13	0.0	0.2	7:36
— Downwind ——	19.8	208.0	7:17	0.0	0.7	7:30

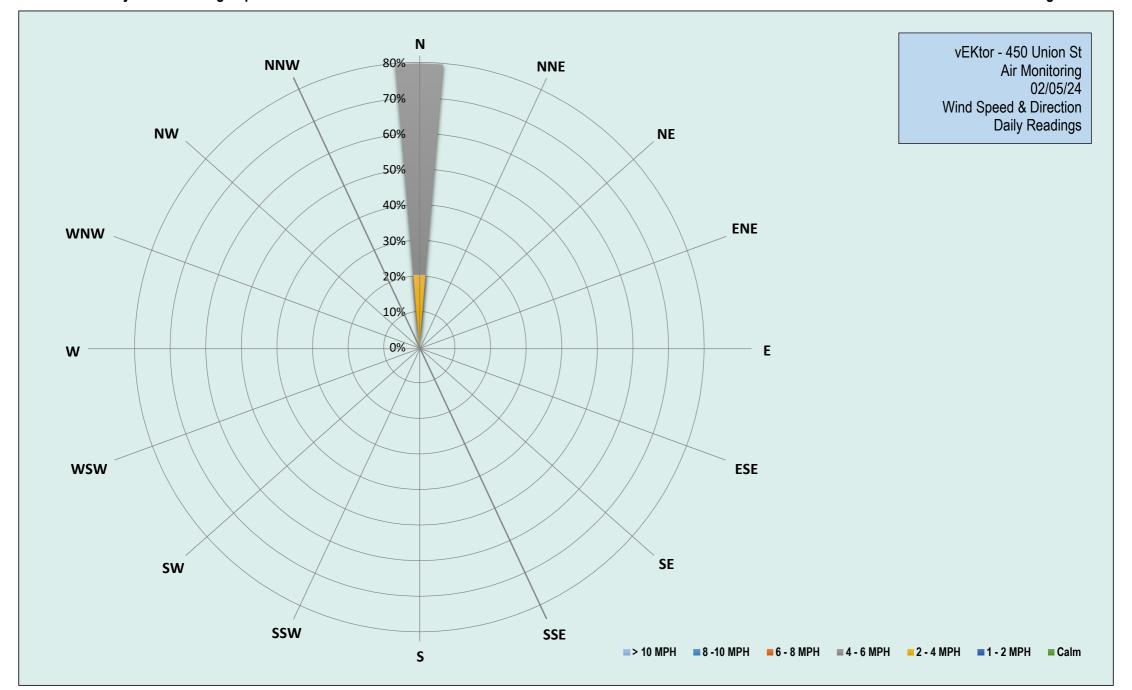




Air Monitoring Notes:

Weather Notes:







Monday, February 5, 2024

Number of Instances Where Downwind Particulates

Number of Comparable Data Points =

Start Time: 7:26 16:56

End Time:

D/	ART	ICLI	II V.	TF	DV	TΛ

Upwind Downwind				
	Opwina		Downwind	Exceeds
Time	15-Min Avg Concentration (ug/m³)	Time	15-Min Avg Concentration (ug/m³)	Particulate Alarm Limit
7:26	77.3	7:26	87.9	1
7:41		7:41		-
	8.7	1	27.2	-
7:56	7.7	7:56	16.2	-
8:11	8.1	8:11	15.4	-
8:26	15.5	8:26	16.3	-
8:41	23.4	8:41	16.7	-
8:56	19.0	8:56	19.2	-
9:11	32.6	9:11	53.0	-
9:26	14.0	9:26	19.7	-
9:41	9.2	9:41	17.9	-
9:56	19.3	9:56	23.9	-
10:11	9.5	10:11	21.0	-
10:26	7.8	10:26	25.7	-
10:41	7.3	10:41	28.3	-
10:56	6.4	10:56	18.9	-
11:11	6.3	11:11	23.0	-
11:26	13.5	11:26	15.0	-
11:41	6.8	11:41	15.0	-
11:56	11.8	11:56	15.0	-
12:11	7.3	12:11	15.0	-
12:26	7.2	12:26	15.0	-
12:41	4.3	12:41	15.0	-
12:56	6.4	12:56	15.0	-
13:11	10.0	13:11	15.0	-
13:26	6.7	13:26	15.0	-
13:41	4.4	13:41	15.0	-
13:56	4.7	13:56	15.0	-
14:11	4.7	14:11	15.0	-
14:26	2.5	14:26	15.0	-
14:41	12.3	14:41	15.0	-
14:56	3.3	14:56	15.0	-
15:11	7.5	15:11	15.0	-
15:26	3.0	15:26	15.0	-
15:41	5.5	15:41	15.0	-
15:56	3.2	15:56	15.0	-
16:11	3.7	16:11	15.0	-
16:26	3.3	16:26	15.0	-
16:41	3.7	16:41	15.0	-
16:56	5.3	16:56	15.0	-

Exceedance Level

159.2 169.3 159.5 157.8 157.3 156.4 156.3 163.5 156.8 161.8 157.3 157.2 154.3 156.4 160.0 156.7 154.4 154.7 154.7 152.5 162.3 153.3 157.5 153.0 155.5 153.2 153.7 153.3 153.7 155.3

39

227.3							
158.7	Upwind DustTrak Data Summary						
157.7	Daily Maximum	721.3	ug/m³				
158.1	Daily Minimum	0.0	ug/m³				
165.5	Daily Average	10.6	ug/m³				
173.4	Maximum 15-Minute Average	77.3	ug/m³				
169.0							
182.6							
164.0	Downwind DustTrak Data Summary						

Downwind DustTrak Data Summary					
Daily Maximum	973.3	ug/m ³			
Daily Minimum	9.0	ug/m ³			
Daily Average	19.8	ug/m ³			
Maximum 15-Minute Average	87.9	ug/m ³			

Monday, February 5, 2024

Number of Instances Where Downwind VOCs Exceeds

Number of Comparable Data Points =

Start Time: 7:27

End Time: 16:42

PID DATA

Upwind			Downwind	
Time	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	Exceeds VOC Alarm Limit
7:27	0.1	7:27	0.0	-
7:42	0.2	7:42	0.0	-
7:57	0.2	7:57	0.0	-
8:12	0.1	8:12	0.0	-
8:27	0.0	8:27	0.0	-
8:42	0.0	8:42	0.0	-
8:57	0.0	8:57	0.0	-
9:12	0.0	9:12	-	-
9:27	0.0	9:27	-	-
9:42	0.0	9:42	-	-
9:57	0.0	9:57	-	-
10:12	0.0	10:12	-	-
10:27	0.0	10:27	-	-
10:42	0.0	10:42	-	-
10:57	0.0	10:57	-	-
11:12	0.0	11:12	-	-
11:27	0.0	11:27	0.0	-
11:42	0.0	11:42	0.0	-
11:57	0.0	11:57	0.0	-
12:12	0.0	12:12	-	-
12:27	0.0	12:27	0.3	-
12:42	0.0	12:42	0.0	-
12:57	0.0	12:57	0.0	-
13:12	0.0	13:12	0.0	-
13:27	0.0	13:27	0.0	-
13:42	0.0	13:42	0.0	-
13:57	0.0	13:57	0.0	-
14:12	0.0	14:12	0.0	-
14:27	0.0	14:27	0.0	-
14:42	0.0	14:42	0.0	-
14:57	0.0	14:57	0.0	-
15:12	0.0	15:12	0.0	-
15:27	0.0	15:27	0.0	-
15:42	0.0	15:42	0.0	-
15:57	0.0	15:57	0.0	-
16:12	0.0	16:12 16:27	0.0	-
16:27 16:42	0.0	16:27	0.0	-
10.42	0.0	10.42	0.0	-

Exceedance Level

5.1 5.2 5.2 5.1 5.0 5.0

> 5.0 5.0 5.0

> 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0

Upwind PID Data Summary					
Daily Maximum	0.3	ppm			
Daily Minimum	0.0	ppm			
Daily Average	0.0	ppm			
Maximum 15-Minute Average	0.2	ppm			

Downwind PID Data Summary					
Daily Maximum	0.7	ppm			
Daily Minimum	0.0	ppm			
Daily Average	0.0	ppm			
Maximum 15-Minute Average	0.3	ppm			

DAILY STATUS REPORT

Prepared By: Thomas Giordano

NYSDEC BCP Site No:	C224219	Date:	02/05/2024
Project Name:	450 Union Street	Weather:	Sunny, 33-46 °F
Client:	2201 Union LLC	Time:	8:00 – 18:00

Personnel On-Site:

Environmental Consultant: Vektor Consultants - Eugenia Papisov

WSP: Tim Williams

IET (ISGS Subcontractor): Ian Connor

Work Activities Performed:

- A headspace reading for DB1-MW-1 and DB4-MW-4 were collected utilizing a PID, and DB1-MW-1 and DB4-MW-4 were gauged and sampled. The depths were measured from top of casing (TOC).
- Vektor used a peristatic pump to collect low flow groundwater samples from DB1-MW-1 and DB4-MW-4 for the ISGS groundwater study. Groundwater was purged from each well to measure water quality parameters (pH, specific conductivity, oxygen reduction potential, dissolved oxygen, turbidity, and temperature) for stabilization criteria prior to sampling into laboratory provided containers. Groundwater samples were collected in 9.5L stainless steel containers.
- Vektor used a peristatic pump to collect one liter of NAPL from DB4-MW-4.
- All investigation derived waste was properly transferred into DOT 55-gallon drums, secured and labelled for future off-site disposal

Samples Collected:

ISGS: ISGS-TS-GW-1, ISGS-TS-GW-2, ISGS-TS-GW-3, ISGS-TS-GW-7, ISGS-TS-GW-8, ISGS-TS-GW-9, and ISGS-TS-NAPL-1.

Community Air Monitoring Program

Real-time Community Air Monitoring Plan (CAMP) was implemented at an upwind and a downwind location despite lack of intrusive work performed. No exceedances were observed. The downwind PID experienced data transmission issues, showing no collected data from the real time CAMP station and is not represented in this report. Vektor worked to troubleshoot the issue but was not able to troubleshoot the issue by the end of the workday. Air monitoring results are appended to the end of this report.

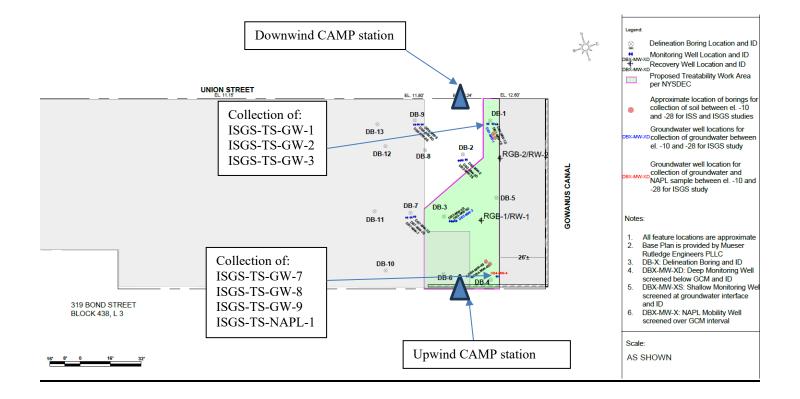
Problems Encountered

The downwind PID experienced data transmission issues, showing no collected data from the real time CAMP station and is not represented in this report. Vektor worked to troubleshoot the issue but was not able to troubleshoot the issue by the end of the workday.

Planned Activities for the Next Day

Coordination for off-site disposal of all investigation derived waste.

SITE PLAN / WORK AREAS



BCP No: C224219 February 6, 2024

PHOTO LOG

Photo 1: Preparation for gauging and sampling of DB1-MW-1 and setup of downwind CAMP, facing northwest.



Photo 2: View of groundwater/NAPL sampling setup from DB4-MW-4.

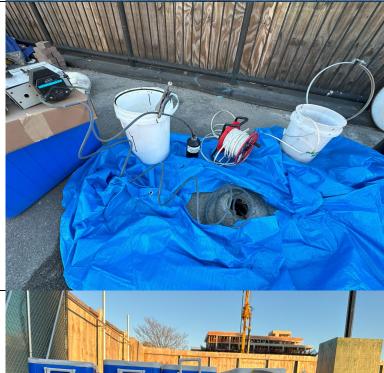


Photo 3: ISGS sampling completed and prepared for delivery to the ISGS laboratories in Madison, WI.

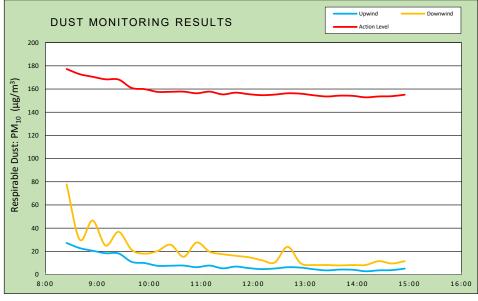
DAILY AIR MONITORING REPORT 450 Union Street Brooklyn, New York

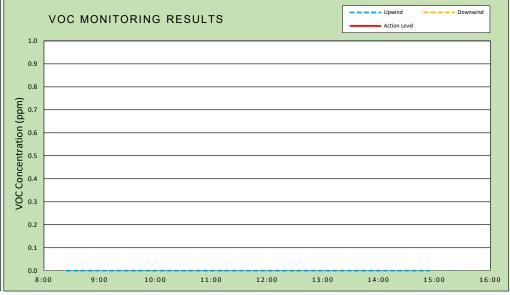
02/06/2024					
Rev. No. 0 Page 1 of 2					
Project N	Project Number:				
Dust Action Level 150 µg/m ³					
VOC Action Leve	el	5 ppm			

37 W. 37	th St, 6th Floor -	New York, NY
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Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	42.0 - 60.0	Daily Rain Total (in)	0.00	Readings in the summary table and graphs below are the reported downwind
Temperature (°F)	30.0 - 43.0	Wind Speed (MPH)	3.3 - 5.7	Barometer (inHg)	30.20 - 30.20	Avg. Dew Point Temp (°F)	19.4	concentrations.

Station Location	Daily Avg. Dust Concentration (µg/m³)	Max 15-Min Dust Concentration (μg/m³)	Time of Max Dust Reading	Daily Avg. VOC Concentration (ppm)	Max 15-Min VOC Concentration (ppm)	Time of Max VOC Reading
Upwind	8.6	27.3	8:25	0.0	0.0	8:26
Downwind	19.9	77.7	8:25	N/A	N/A	N/A

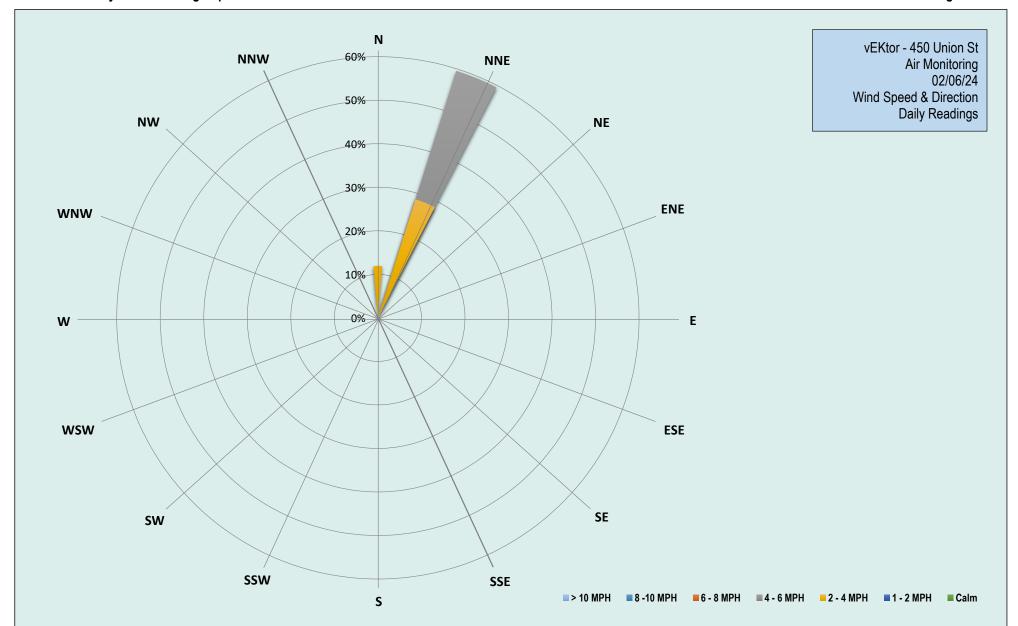




Air Monitoring Notes:

Weather Notes:







Tuesday, February 6, 2024

Number of Instances Where Downwind Particulates

Number of Comparable Data Points =

ata Points = 27 Start Time: 8:25

End Time: 14:55

PARTICULATE DATA
Downwine

	Upwind	Downwind		Downwind	
Time	15-Min Avg Concentration (ug/m³)	Time	15-Min Avg Concentration (ug/m³)	Exceeds Particulate Alarm Limit	
8:25	27.3	8:25	77.7	-	
8:40	22.8	8:40	30.2	-	
8:55	20.6	8:55	46.6	-	
9:10	18.4	9:10	25.0	-	
9:25	18.2	9:25	36.8	-	
9:40	10.9	9:40	21.4	-	
9:55	9.9	9:55	18.0	-	
10:10	7.6	10:10	20.3	-	
10:25	7.6	10:25	25.7	-	
10:40	7.8	10:40	15.3	-	
10:55	6.3	10:55	27.7	-	
11:10	7.8	11:10	19.7	-	
11:25	5.4	11:25	17.6	-	
11:40	6.9	11:40	16.2	-	
11:55	5.6	11:55	14.9	-	
12:10	4.7	12:10	12.4	-	
12:25	5.2	12:25	10.4	-	
12:40	6.3	12:40	23.9	-	
12:55	6.0	12:55	9.7	-	
13:10	4.6	13:10	8.2	-	
13:25	3.6	13:25	8.2	-	
13:40	4.3	13:40	7.9	-	
13:55	4.1	13:55	8.2	-	
14:10	2.8	14:10	8.2	-	
14:25	3.6	14:25	11.5	-	
14:40	3.8	14:40	9.6	-	
14:55	5.1	14:55	11.5	-	

Exceedance Level

157.8 156.3 157.8 155.4 156.9 155.6 154.7 155.2 156.3 156.0 154.6 153.6 154.3 154.1 152.8 153.6 153.8 155.1

177.3							
172.8	Upwind DustTrak Data Summary						
170.6	Daily Maximum	27.3 ug/m ³					
168.4	Daily Minimum	2.8 ug/m ³					
168.2	Daily Average	8.6 ug/m ³					
160.9	Maximum 15-Minute Average	27.3 ug/m ³					
159.9							
157.6							
157.6	Downwind DustTrak Data Summary						

Downwind DustTrak Data Summary					
Daily Maximum	77.7	ug/m ³			
Daily Minimum	7.9	ug/m ³			
Daily Average	19.9	ug/m ³			
Maximum 15-Minute Average	77.7	ug/m ³			

Tuesday, February 6, 2024

Number of Instances Where Downwind VOCs Exceeds

Number of Comparable Data Points =

Start Time:

#N/A

End Time:

14:56

חו	ח	T/

Upwind			Downwind	
ime	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	Exceeds VOC Alarm Limit
3:26	0.0	8:26	_	_

Time	15-Min Avg Concentration (ppm)	Time	15-Min Avg Concentration (ppm)	Exceeds VOC Alarm Limit
8:26	0.0	8:26	-	-
8:41	0.0	8:41	-	-
8:56	0.0	8:56	ı	-
9:11	0.0	9:11	-	-
9:26	0.0	9:26	-	-
9:41	0.0	9:41	-	-
9:56	0.0	9:56	-	-
10:11	0.0	10:11	ı	-
10:26	0.0	10:26	-	-
10:41	0.0	10:41	-	-
10:56	0.0	10:56	-	-
11:11	0.0	11:11	-	-
11:26	0.0	11:26	-	-
11:41	0.0	11:41	-	-
11:56	0.0	11:56	-	-
12:11	0.0	12:11	•	-
12:26	0.0	12:26	-	-
12:41	0.0	12:41	-	-
12:56	0.0	12:56	-	-
13:11	0.0	13:11	-	-
13:26	0.0	13:26	•	-
13:41	0.0	13:41	-	-
13:56	0.0	13:56	-	-
14:11	0.0	14:11	-	-
14:26	0.0	14:26	-	-
14:41	0.0	14:41	-	-
14:56	0.0	14:56	-	-

Exceedance Level

Upwind PID Data Summary								
Daily Maximum	0.0	ppm						
Daily Minimum	0.0	ppm						
Daily Average	0.0	ppm						
Maximum 15-Minute Average	0.0	ppm						

Downwind PID Data Summary								
Daily Maximum	0.0	ppm						
Daily Minimum	0.0	ppm						
Daily Average	#DIV/0!	ppm						
Maximum 15-Minute Average	0.0	ppm						

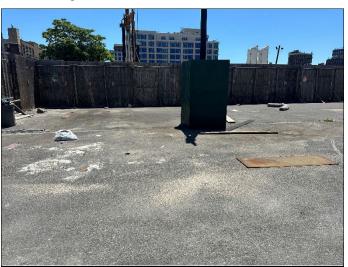
APPENDIX F

SITE INSPECTION PHOTOGRAPHIC DOCUMENTATION

Site Inspection Photographs



1. View of high-level relieving platform and sheeting, facing southwest.



3. View of the Site's cover system closest to the bulkhead facing east.



5. View of the Site facing northwest.



2. View of the Site facing west.



 View of the Site's cover system closest to the bulkhead facing southeast.



5. View of the western half of the site facing west.



7. View of the Site's cover system facing northeast.



8. View of the Site's cover system facing east.

APPENDIX G

SITE INSPECTION FORMS

SITE INSPECTION CHECKLIST

Site Name: <u>450 Union Street</u> Location: <u>450 Union Street, Brooklyn, NY</u> Project Number: <u>C224219</u>

Insp	ector Name: PR Date: 6/28/2024 Weather Cor	nditio	ns: <u>C</u>	lear	- 82° F	
Reas	son for Inspection (i.e., routine, severe condition, etc.): 2024	Perio	odic F	Review	Report Annua	al Inspection
Ched	ck one of the following: Y: Yes N: No NA : Not Applicable					
		Υ	N	NA	Normal Situation	Remarks
	General		1	1		1
1	What are the current site conditions?				Υ	No significant changes since the 2023 PRR.
2	Site Cover System	Υ			Υ	
	Environmental Easement					
3	Has the site use changed since the last inspection?		N		N	
4	Does it appear that all environmental easement restrictions have been followed?	Υ			Y	All field activities that breached the site cover system were NYSDEC-approved.
	Site Cover System					
5	Are there any indications of a breach in the site cover system at the time of this inspection?	Υ			N	The building slab of the former building has been cracked as part of development activities. Cover system repairs from NYSDEC approved breaches were in good condition.
6	Are there any cracks in the building slabs or site cover?	Υ			N	No cracks were observed outside of the NYSDEC-approved building slab cracking.
7	Are there any cracks in the building walls?			N/A	Y	
8	Is there any construction activity, or indication of any construction activity within the past certification year (including any tenant improvements), that included the breaching of the capping system, on-site at the time of this inspection?	Υ			N	All field activities (investigations) including environmental work that breach the site cover system are NYSDEC-approved.
9	If YES to number 8, is there documentation that the Soil Management Plan, HASP, and CAMP for the site was/is being followed?	Υ			Y	All NYSDEC-approved field activities will be documented in the 2024 PRR report.
	Bulkhead Wall/Containment Barrier					
10	Are there any indications of damage to the bulkhead at the time of this inspection?		N		N	
	Recovery Well Network					
11	Are all wells within the recovery well network intact and secured at the time of this inspection?	Υ			Y	

^{***} If the answer to any of the above questions indicate non-compliance with any IC/ECs for the site, additional remarks must be provided and, where applicable, documentation attached to this checklist detailing additional inspection and repair activities.

SITE INSPECTION CHECKLIST

Additional remarks All NYSDEC-approved field activities (investigations) to date and within the future (in the reporting	
year) are and will be in compliance with the SMP, Excavation Work Plan (EWP), HASP and CAMP	
guidance. All NYSDEC-approved field activites will be documented and summarized in the 2024 P	
report.	
·	
	_

Minimum Inspection Schedule: Site-wide inspections will be conducted annually, per certification year, at a minimum. Additional inspections will also be conducted at times of severe condition events. All inspection events will utilize this checklist.

APPENDIX F

DNAPL RECOVERY REPORTS



450 UNION STREET NAPL GAUGING AND RECOVERY MONTHLY REPORT SEPTEMBER 2023

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:

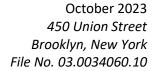
On September 19, 2023, GZA performed DNAPL gauging and recovery at RW-01 and RW-02. The table below
provides a summary of this event, and the attached **Table 1** summarizes gauging and recovery data collected
by GZA to date.

		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	9/19/23	9.62	43.80	5.10	25	Trace	Trace
RW-02	9/19/23	9.70	51.81	6.54	110	Trace	Trace

- The area around each well was covered with polyethylene sheeting prior to performance of gauging and recovery activities.
- Approximately 135 gallons of DNAPL/water mixture was recovered from the two wells during the September 19, 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. 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 (PPE), and Norlite facility in Cohoes, New York (DNAPL). A copy of the disposal manifests are attached.

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

Attachment A: Disposal Manifest





I, James J. Clark, certify that I am currently a	Qualified Environmental Profession	nal as defined in 6 NYCRR Part 375 and that
this field report was prepared in accordance	with all applicable statutes and reg	gulations and in substantial conformance with
the DER Technical Guidance for Site Investiga	tion and Remediation (DER-10).	
		Jones Olak
James J. Clark, P.E., LEP	10/18/2023	Jumes 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 Rec	overy	Post D	NAPL Recove	ry	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	3/28/2023	Trace	Trace	40	357	No flooding oberved
	7/6/2023	39.45	9.45	7/6/2023	Trace	Trace	40	397	No flooding oberved
	8/15/2023	38.85	10.05	8/15/2023	Trace	Trace	20	417	Flooding observed prior to DNAPL recovery
	9/19/2023	43.80	5.1	9/19/2023	Trace	Trace	25	442	Flooding observed prior to DNAPL recovery

TABLE 1 Summary of NAPL Gauging and Recovery Activities

450 Union Street Brooklyn, NY

Location	Prior to I	to DNAPL Recovery Recovery after Removal			Recovery after Removal			Cumulative Volume of DNAPL Removed	Total 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)	(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
		T	1 1			T T		1	<u> </u>	Site Inaccessible due to demolition
	6/8/2023	45.40	12.95	6/8/2023	56.5	1.85	140	883	1240	
	7/6/2023	48.25	10.10	7/6/2023	57	1.35	110	993	1390	
	8/15/2023	49.50	8.85	8/15/2023	Trace	Trace	130	1123	1540	
	9/19/2023	51.81	6.54	9/19/2023	Trace	Trace	110	1233	1675	



ATTACHMENT A DISPOSAL MANIFEST

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	sa přaku lipá									eta A	
	 decimal for one on one (12) 	1. Generator ID Number	2. Page 1 of	3. Emerge	ency Response	Phone	4. Waste Trac				
1	WASTE MANIFEST	N/A	11_	<u> </u>	347-21	3-8874			2385		
	5. Generator's Name and Mailin						an mailing addres	10)			
	NATIONAL GRID 175 East Old Country Road NATIONAL GRID 450 UNION ST										
	Hicksville, NY 118	Hicksville, NY 11801 BROOKLYN, NY 11231				11231					
	Generator's Phone: 347-2 6. Transporter 1 Company Nam					U.S. EPA ID Number					
	MILLER ENVIRON	MILLER ENVIRONMENTAL GROUP, INC							NYD986908085		
	7. Transporter 2 Company Nam	1				U.S. EPA ID Number					
	Tradaba	DPPC				U.S. EPA ID Number					
	8. Designated Facility Name and	rp 1 - a s	- marketon			G 7D0025938 87					
	TRADEBE TREATMENT AND RECYCLING 50 CROSS STREET 638 South Saratogast BRIDGEPORT, CT. 06610										
	Facility's Phone: 888-2	1.06610 276-0887 Cohogs hu	1 13047	518-235-0401			hyposo469935				
	9. Waste Shipping Name			-	10, Conta	ainers	11. Total Quantity	12. Unit Wl./Vol.			
l					No.	Туре	- Garmiy	4			
Ę.	NON RCRA, NO	ON DOT REGULATED LIQUIDS	S (DNAPL)		3		1/5				
RATE					<u> </u>	DM	165	G			
GENERATOR	2.										
<u> </u>											
	3.										
)										
SHOULD SHOW											
	4.										
13. Special Handling Instructions and Additional Information Document # D41262 Job#: NY02231774 PO#: 2) Container Size: MCHau Disha C 3) Truck #: 8807							J	Land Control	A STATE OF THE STA		
1)Approval #: 27500 2) Container Size: MEHAL DRUMS 3) Truck #: 8807											
11 2775016							1				
	KEFERENC	E# 3770818	RaRow	$L \mathcal{L}_{22}$	2/2	لمرسمة	re tre	hh	<u>`</u>		
	14 GENERATOR'S CERTIFIC	CATION: I certify the materials described above	on this manifest are not sub	ject to feder	al regulations fo	r reporting pro	per disposal of h	lazardous V	Vaste.		
	Generator's/Offeror's Printed/T	14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for Generator's/Offeror's Printed/Typed-Name For NAT GRID Signature FOR NAT GRID Signature				Month Day Tear					
V		FSan	[N]		γ ^μ		sar	<u></u>		19 23	
ILL	15. International Shipments	Import to U.S.	Export fro	m U.S.		entry/exit: ving U.S.:				-	
-		orts only):			Date lea	viriy U.S.:					
TRANSPORTER	Transporter 1 Printed/Typed N	lama .		Signature	Wal.	1 120	. 1		Month P	Day Year	
POG:		F Santos			Jefne	e sa	1 F		Month	19 23 Day Year	
NA	Transporter 2 Printed/Typed N	, <u>.</u>	ı	Signature					1 9	22 23	
F	The property of	Myson		17					[122	
14	17. Discrepancy 17a. Discrepancy Indication Sp	pace /	Пт	<u> </u>	Residue		Partial Re	election		ull Rejection	
	Tra, pissiopanoj muloanon op	Quantity	Type	, L	nesique		r artial At	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1I	, , , , , , , , , , , , , , , , , ,	
				Mar	ifest Reference	Number:	II O EDA IF	Number			
	17b. Alternate Facility (or Gene	erator)					U.S. EPA ID	MUNDE			
							1				
i I	Facility's Phone: 17c. Signature of Alternate Fac	cility (or Generator)							Month	Day Year	
IATE		, , , , , , , , , , , , , , , , ,						1475°, 144 5 - 146 5 1 1 1 1 1			
DESIGNATED FACILITY											
J.											
	40 Dada - 14 E - 19 O	or Operator: Certification of receipt of materials	covered by the manifest ex	cept as note	ed in Item 17a		opposition (1881)		eres marke i licar a nergit 25-17-18	o y agree georges in the state of the states	
4	18. Designated Facility Owner Printed/Typed Name	Commence of the second		Signature	<u></u>	<u> </u>			Month	Day Year	
1	1 South	er Tishen	4	\rightarrow	1/ /	2h	~			P2753	

Ple (Fo	ease print or type orm designed for use on elite (12-pitch) typewriter.)							
Á	NON-HAZARDOUS 1. Generator ID Number	2. Page 1 d	of 3. Emergency Response Phone	4. Waste Tracking	0 0			
	WASTE MANIFEST 5. Generator's Name and Mailing Address	1	Generator's Site Address (if differ	ent than mailing address)	METRO 2389			
	NATIONAL GRID		National Grid	on than mailing address;				
	300 ERIE BOULEVARD		450 Union St. Brooklyn, NY 11231					
	Generator's Phone: 6. Transporter 1 Company Name	U.S. EPA ID Number						
	MILLER ENVIRONMENTAL GROUP INC	NYD988908085						
	7. Transporter 2 Company Name	U.S. EPA ID Numbe	U.S. EPA ID Number					
	8. Designated Facility Name and Site Address	- T		U.S. EPA ID Number				
	WATERWORKS 77 STEWART AVENUE		NYR000236349					
	NEWBURGH, NY 12550 Facility's Phone: 845-590-0408			Ī				
	9. Waste Shipping Name and Description		10. Containers No. Type	11. Total 12. U Quantity Wt./	Market 1			
GENERATOR -	NON RCRA NON DOT REGULATED	SOLIDS	l DM	35 ,				
ENER	2		10/11/	·				
5								
	3.		и					
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	Special Handling Instructions and Additional Information	ocument# D41261 Job#	NM0004774 DOK	4.5				
		Container Size: METAL		8807				
	33D 0158							
	9700100							
	14. GENERATOR'S CERTIFICATION: I certify the materials descri	hed above on this manifest are not subje	act to federal regulations for reporting	proper disposal of Hazarda	us Woote			
V			ignature Tunk	/	Month Day Year			
_	T.		Λ ,	Sar	9 19 23			
INT'L	Transporter Signature (for exports only):	Export from	U.S. Port of entry/exit: Date leaving U.S.:	*				
TER	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name	Si	gnature		Month Day Year			
SPOF	+ Santo	5	Feline	5 ant	19 119 23			
TRANSPORTER	Transporter 2 Printed/Typed Name	Si	gnature		Month Day Year			
A	17. Discrepancy							
	17a. Discrepancy Indication Space Quantity	Туре	Residue	Partial Rejection	Full Rejection			
П			Manifest Reference Number:					
Σ	17b. Alternate Facility (or Generator)	The state of the s	U.S. EPA ID Number					
FACI	Facility's Phone:			The state of the s				
YED	17c. Signature of Alternate Facility (or Generator)				Month Day Year			
DESIGNATED FACILITY								
- DE								
100	18. Designated Facility Owner or Operator: Certification of receipt of	materials covered by the manifest exec	nt as noted in Item 179					
	Printed/Typed Name		gnature		Month Day Year			
1		NU		and the same of th	1000			

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DESIGNATED FACILITY'S COPY

Reorder Part# MANIFEST-C6NHW 913-897-6966



GZA GeoEnvironmental of New York



450 UNION STREET NAPL GAUGING AND RECOVERY MONTHLY REPORT OCTOBER 2023

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:

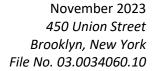
 On October 17, 2023, GZA performed DNAPL gauging and recovery at RW-01 and RW-02. The table below provides a summary of this event, and the attached **Table 1** summarizes gauging and recovery data collected by GZA to date.

		Post 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	10/17/23	9.10	45.35	3.55	30	Trace	Trace
RW-02	10/17/23	9.25	54.70	3.65	40	Trace	Trace

- The area around each well was covered with polyethylene sheeting prior to performance of gauging and recovery activities.
- Approximately 70 gallons of DNAPL/water mixture was recovered from the two wells during the October 17,
 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. 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 (PPE), and Norlite facility in Cohoes, New York (DNAPL). A copy of the disposal manifests are attached.

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

Attachment A: Disposal Manifest





this field report was prepared in accordance		gulations and in substantial conformance with
the DER Technical Guidance for Site Investiga	• •	saluciono una in outotantial comormanoc man
		Jomes O. Clar
James J. Clark, P.E., LEP	11/7/2023	Jones J. Clark
Qualified Environmental Professional	Date	Signature



TABLE 1 SUMMARY OF NAPL GAUGING ACTIVITIES

TABLE 1

Summary of NAPL Gauging and Recovery Activities

Location	Prior	to DNAPL Reco	overy	Post D	NAPL Recove	ry	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	3/28/2023	Trace	Trace	40	357	No flooding oberved
	7/6/2023	39.45	9.45	7/6/2023	Trace	Trace	40	397	No flooding oberved
	8/15/2023	38.85	10.05	8/15/2023	Trace	Trace	20	417	Flooding observed prior to DNAPL recovery
	9/19/2023	43.80	5.1	9/19/2023	Trace	Trace	25	442	Flooding observed prior to DNAPL recovery
	10/17/2023	45.35	3.55	10/17/2023	Trace	Trace	30	472	No flooding oberved

Location	Prior to I	ONAPL Recov	very	Recove	ry after Remo	val	Volume of DNAPL Removed	Cumulative Volume of DNAPL Removed	Total 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)	(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	3/28/2023	Trace	Trace	50	743	1060	
										Site Inaccessible due to demolition
		Π				<u> </u>		<u> </u>		Site Inaccessible due to demolition
	6/8/2023	45.40	12.95	6/8/2023	56.5	1.85	140	883	1240	
	7/6/2023	48.25	10.10	7/6/2023	57	1.35	110	993	1390	
	8/15/2023	49.50	8.85	8/15/2023	Trace	Trace	130	1123	1540	
	9/19/2023	51.81	6.54	9/19/2023	Trace	Trace	110	1233	1675	
	10/17/2023	54.70	3.65	10/17/2023	Trace	Trace	40	1273	1745	



ATTACHMENT A DISPOSAL MANIFEST

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	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number		2. Page 1 of	3. Emerç	gency Response		4. Waste Tra	500 Bd	ber								
	5. Generator's Name and Mailir	ng Address	N/A	l	Generate	or's Site Address	(if different the	nan mailing addre	2341		1							
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	14. GENERATOR'S CERTIFICA	ATION: I certify the materials	described above on this manifest	are not subject					ardous Wast	te.								
	Generator's/Offeror's Printed/Ty	ped Name PEARC	E as agent	Sign	nature	rany	Pen	cl		Month	Day Y	ear 3						
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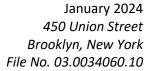
DESIGNATED FACILITY'S COPY

Reorder Part# MANIFEST-C6NHW 913-897-6966

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GZA GeoEnvironmental of New York





450 UNION STREET NAPL GAUGING AND RECOVERY MONTHLY REPORT NOVEMBER 2023

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:

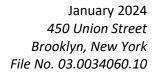
 On November 21, 2023, GZA performed DNAPL gauging and recovery at RW-01 and RW-02. The table below provides a summary of this event, and the attached **Table 1** summarizes gauging and recovery data collected by GZA to date.

		Post Recovery					
Well ID	Date	Depth to Water (ft)	Water NAPL (ft)		DNAPL Thickness (ft) DNAPL Volume Removed (gal)		DNAPL Thickness (ft)
RW-01	11/21/23	9.70	45.05	3.85	40	Trace	Trace
RW-02	11/21/23	10.20	53.65	4.70	50	Trace	Trace

- The area around each well was covered with polyethylene sheeting prior to performance of gauging and recovery activities.
- Approximately 90 gallons of DNAPL/water mixture was recovered from the two wells during the November 21, 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. 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 (PPE), and Norlite facility in Cohoes, New York (DNAPL). A copy of the disposal manifests are attached.

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

Attachment A: Disposal Manifest





•	with all applicable statutes and re	onal as defined in 6 NYCRR Part 375 and that egulations and in substantial conformance with
James J. Clark, P.E., LEP	1/8/2024	Jones J. Clark
Qualified Environmental Professional	Date	Signature



TABLE 1 SUMMARY OF NAPL GAUGING ACTIVITIES

Location	Prior	to DNAPL Reco	overy	Post D	NAPL Recover	ry	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 Some flooding oberved prior to DNAPL recovery	
	10/26/2022	38.65	10.25	10/26/2022	Trace	Trace	35	160		
	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	3/28/2023	Trace	Trace	40	357	No flooding oberved	
	7/6/2023	39.45	9.45	7/6/2023	Trace	Trace	40	397	No flooding oberved	
	8/15/2023	38.85	10.05	8/15/2023	Trace	Trace	20	417	Flooding observed prior to DNAPL recovery	
	9/19/2023	43.80	5.1	9/19/2023	Trace	Trace	25	442	Flooding observed prior to DNAPL recovery	
	10/17/2023	45.35	3.55	10/17/2023	Trace	Trace	30	472	No flooding oberved	
	11/21/2023	45.05	3.85	11/21/2023	Trace	Trace	40	512	No flooding oberved	

Location	Prior to I	ONAPL Reco	very	Recove	ry after Remo	val	Volume of DNAPL Removed	Cumulative Volume of DNAPL Removed	Total 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)	(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	3/28/2023	Trace	Trace	50	743	1060	
										Site Inaccessible due to demolition
		Т	<u> </u>		1	, , , , , , , , , , , , , , , , , , ,				Site Inaccessible due to demolition
	6/8/2023	45.40	12.95	6/8/2023	56.5	1.85	140	883	1240	
	7/6/2023	48.25	10.10	7/6/2023	57	1.35	110	993	1390	
	8/15/2023	49.50	8.85	8/15/2023	Trace	Trace	130	1123	1540	
	9/19/2023	51.81	6.54	9/19/2023	Trace	Trace	110	1233	1675	
	10/17/2023	54.70	3.65	10/17/2023	Trace	Trace	40	1273	1745	
	11/21/2023	53.65	4.70	11/21/2023	Trace	Trace	50	1323	1835	



ATTACHMENT A DISPOSAL MANIFEST

	se print or type n designed for use on elite (12	2-pitch) typewriter.)							
A	NON-HAZARDOUS	1. Generator ID Number	2. Page 1 of	Emergency Respons	se Phone		acking Numb		
ŢΙ	WASTE MANIFEST	AMA	4	947	942 007			2658	
	5. Generator's Name and Maili	ng Address		Generator's Site Addres	ss (if different	than mailing addr	ess)		
	NATIONAL GRID			NATIONAL GE	SID				
	175 East Old Co Hicksville, NY 11 Generator's Phone:	untry Road		450 UNION S' BROOKLYN, I	T UV 1122	t .			
	Generator's Phone:	219 9974		Dittort III,	61 1120	U.S. EPA ID	Number		
	6. Transporter 1 Company Nar					1		170	
	7. Transporter 2 Company Nar	NAFNTAL GROUP INC				U.S. EPA ID	REGARAGE Number	5	
	7. Hansporter 2 Company Nai	116					4		
	Designated Facility Name as	nd Site Address				U.S. EPA ID	Number		100
	WATERWORKS					E 15 CT 0			
	77 STEWART AV	ENUE				MAKE	0023634	S	
	NEVBURGH, N' Facility's Phone: 845.	Y 12550 .gon_nans						200	
				10. Cor	ntainers	11. Total	12. Unit	aread .	- 12
	9. Waste Shipping Nam	e and Description		No.	Туре	Quantity	Wt./Vol.		300
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	13. Special Handling Instructi	ons and Additional Information	ument# D42484 Job#	NY02232083	PO#:				
	1)Approval #: 20	DO158 2100	ontainer Size: 55-gal dru	ıms	3) T	ruck# E	Enh		
Ш						-			
		5.							
									2,42
	14 GENERATOR'S CERTIFIC	CATION: I certify the materials described a	hove on this manifest are not subject	to federal regulations f	or reporting p	oner dienosal of l	Hazardous Wa	ate .	
	Generator's/Offeror's Printed/		() /- Sign	nature	or reporting pr	oper disposar di	iazaiuous vva	Month Day	Year
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ä	16. Transporter Acknowledgm							W .	
E	Transporter 1 Printed/Typed N		Sign	nature	011			Month Day	Year
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A	17. Discrepancy 17a. Discrepancy Indication St	nare \square							
	17a. Discrepancy indication of	Quantity	Туре	Residue		Partial Re	ejection	Full Reject	tion
18				Manifest Reference	Number				1.7
7	17b. Alternate Facility (or Gene	erator)		Manifest Deletelice	, INCHIDEL.	U.S. EPA ID	Number		4-1
1									
FAC	Facility's Phone:								
E	17c. Signature of Alternate Fa	cility (or Generator)			10. 34			Month Day	Year
NAT	nix p		1	Market was					
DESIGNATED FACILITY		1							
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A	NON-HAZARDOUS 1. Generator ID Number	2. Page 1 of 3. E	mergency Respon	se Phone	4. Waste T			
	WASTE MANIFEST N/A 5. Generator's Name and Mailing Address	1 1	347 erator's Site Addre	'-213-88'			2657	
	NATIONAL GRID			•	than mailing addr	ess)		
	175 East Old Country Road Hicksville, NY 11801 Generator's Phone: 347-213-8874	45	ATIONAL GI 50 UNION S ROOKLYN, I	T	1			
	6. Transporter 1 Company Name			**	U.S. EPA ID	Number		
	MILLER ENVIRONMENTAL GROUP, INC				NYDE	86908	085	
Ш	7. Transporter 2 Company Name	_			U.S. EPA ID	Number		
		on hhe			CTO	3918C	16889	
	8. Designated Facility Name and Site Address Nesting Lice 136 Grac	ell Allonge Morlite	t Coub		U.S. EPA ID	Number		
	629 St. LICEAST. Maridan	CFOGHSICOLO	south sq	raicy	9 NYDO	80469	935	
	CGUSES, NF 12047 Facility's Phone: 518 285 3401 518	335.0401	ae III ed	1 200	1 274	30 SC	0469935	***
	9. Waste Shipping Name and Description		10. Con	tainers	11. Total	12. Unit		
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	13. Special Handling Instructions and Additional Information Doc	ıment# D42483 Job#: NY		PO#:				
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GZA GeoEnvironmental of New York



450 UNION STREET NAPL GAUGING AND RECOVERY MONTHLY REPORT DECEMBER 2023

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:

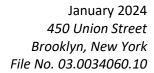
 On December 27, 2023, GZA performed DNAPL gauging and recovery at RW-01 and RW-02. The table below provides a summary of this event, and the attached **Table 1** summarizes gauging and recovery data collected by GZA to date.

		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	12/27/23	9.60	45.00	3.90	15	Trace	Trace
RW-02	12/27/23	9.87	55.50	2.85	10	Trace	Trace

- The area around each well was covered with polyethylene sheeting prior to performance of gauging and recovery activities.
- Approximately 25 gallons of DNAPL/water mixture was recovered from the two wells during the December 27, 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. 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 manifests are attached.

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

Attachment A: Disposal Manifest





I, James J. Clark, certify that I am currently a		nal as defined in 6 NYCRR Part 375 and that gulations and in substantial conformance with
the DER Technical Guidance for Site Investiga		Salutions and in Substantial Comornance With
James J. Clark, P.E., LEP	1/24/2024	Jones J. Clar
Qualified Environmental Professional	Date	Signature



TABLE 1 SUMMARY OF NAPL GAUGING ACTIVITIES

Location	Prior	to DNAPL Reco	overy	Post D	NAPL Recover	ry	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
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	9/28/2022	39.19	9.71	9/28/2022	Trace	Trace	15	125	No flooding oberved
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	12/28/2022	39.51	9.39	12/28/2022	Trace	Trace	35	215	No flooding oberved
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	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	3/28/2023	Trace	Trace	40	357	No flooding oberved
	7/6/2023	39.45	9.45	7/6/2023	Trace	Trace	40	397	No flooding oberved
	8/15/2023	38.85	10.05	8/15/2023	Trace	Trace	20	417	Flooding observed prior to DNAPL recovery
	9/19/2023	43.80	5.1	9/19/2023	Trace	Trace	25	442	Flooding observed prior to DNAPL recovery
	10/17/2023	45.35	3.55	10/17/2023	Trace	Trace	30	472	No flooding oberved
	11/21/2023	45.05	3.85	11/21/2023	Trace	Trace	40	512	No flooding oberved
	12/27/2023	45.00	3.9	12/27/2023	Trace	Trace	15	527	No flooding oberved

Location	Prior to I	ONAPL Reco	very	Recove	ry after Remo	val	Volume of DNAPL Removed	Cumulative Volume of DNAPL Removed	Total 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)	(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	3/28/2023	Trace	Trace	50	743	1060	
										Site Inaccessible due to demolition
		<u> </u>	7		1	1		1		Site Inaccessible due to demolition
	6/8/2023	45.40	12.95	6/8/2023	56.5	1.85	140	883	1240	
	7/6/2023	48.25	10.10	7/6/2023	57	1.35	110	993	1390	
	8/15/2023	49.50	8.85	8/15/2023	Trace	Trace	130	1123	1540	
	9/19/2023	51.81	6.54	9/19/2023	Trace	Trace	110	1233	1675	
	10/17/2023	54.70	3.65	10/17/2023	Trace	Trace	40	1273	1745	
	11/21/2023	53.65	4.70	11/21/2023	Trace	Trace	50	1323	1835	
	12/27/2023	55.50	2.85	12/27/2023	Trace	Trace	10	1333	1860	



ATTACHMENT A DISPOSAL MANIFEST

	ise print or type m designed for use on elite (12	-pitch) typewriter.)									
A	NON-HAZARDOUS	Generator ID Number		2. Page 1 of	3. Emer	rgency Respons			acking Nun		
T	WASTE MANIFEST		N/A		<u> </u>			WETRO	260	14	1
	5. Generator's Name and Mailir					tor's Site Addres			ess)		
	NATIONAL GRID 175 East Old Cou				450	Vnic	NY	11201			
	Hicksville, NY 116 Generator's Phone 16-408	801		1	Droo	righ	, • ,	((20)			
	6. Transporter 1 Company Nam	ne						U.S. EPA ID	Number		
	MILLER ENVIRO	NMENTAL GROUP, IN	C	NYD986	390808	85			8	00-394-860	6
	7. Transporter 2 Company Nam							U.S. EPA ID	Number		
	Designated Facility Name an	d Site Address						U.S. EPA ID	Number		
	WATERWORKS 77 STEWART AV	ENLIE		NYR000	2363	49					
	Facility S Phone	12550									
	O Wests Objects Ness	and Describer				10. Cont	tainers	11. Total	45-590 - 12. Unit	0408	
	9. Waste Shipping Name	e and Description				No.	Туре	Quantity	Wt./Vol.		
H.	1. NON-RCRA	NON-DOT REGULA	TED SOLIDS (OI	LY DEBRI	S)	1	D	15	P		
ATO	(bily PP		(-,	- 1	DM	15	1		
GENERATOR	2.	C /									
- GE											Than 1
	3.										
	4.										
П	4.										
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Ш	13. Special Handling Instruction	ns and Additional Information		C	me	rated	with ,	nanife	54 ±	2526	
Ш		2/11/		-							
П	Document#	2644 Job	#: 0253205	3 PO#							
П	1)Approval#	960002M2)0	Container Type:	DM		3)Truck	# 38C	06	_		
П											
		ATION: I certify the materials described	nued above on this manife			ral regulations fo	r reporting prop	per disposal of H	łazardous W		
	Generator's/Offeror's Printed/Ty		of 10100 D.		gnature	and				Month	Day Year 2 7 23
$\overline{}$	15. International Shipments	National Grid	Michaes Po							1,4	2 / 22
INT'L	Transporter Signature (for expo	Import to U.S.	L	Export from	U.S.		entry/exit: ving U.S.:				
Œ.	16. Transporter Acknowledgme	nt of Receipt of Materials				2310 100	3 2.0.1				
TRANSPORTER	Transporter 1 Printed/Typed Na	1		Si	gnature	N.				Month	Day Year
SPC		mont			· ·	10				Month	27 23 Day Year
RA	Transporter 2 Printed/Typed Na	arrie		J	gnature					Worter	Day Teal
1	17. Discrepancy						- /				
1	17a. Discrepancy Indication Spa	ace Quantity	Туре		Г	Residue		Partial Re	iection	П	ull Rejection
		wanting						- Caracar Flo	1-011011		
1	17b. Alternate Facility (or Gene	rotori			Mar	ifest Reference	Number:	U.S. EPA ID	Number		
F	17b. Alternate Facility (or General	rator)						U.S. EFA ID	Number		
FACI	Facility's Phone:										
	17c. Signature of Alternate Fac	ility (or Generator)								Month	Day Year
NAT											
DESIGNATED FACILITY											
١											
	18. Designated Facility Owner	or Operator: Certification of receipt	of materials covered by the	ne manifest exce	pt as note	ed in Item 17a				(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
	Printed/Typed Name				gnature,	. 1 .		16		Month	Day Year
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	Printed in USA by		DESIGNATED	FACILITY	Y TO	GENERA:	TOR	Reorde		MANIFES	T-C6NHW
	1-800-997-0	6966	DEGIGIANIED	INVILIT		OLIVEIVA	1011		913	-897-6966	

	ise print or type m designed for use on elite (12	-pitch) (vpewriter.)										
A	NON-HAZARDOUS	Generator ID Number		2. Page 1 of	3. Emer	gency Response	e Phone	4. Waste Tr				
	WASTE MANIFEST	- ^44	N/A					METRO	25	26	1	
	5. Generator's Name and Mailir					Ors Site Address		than mailing addre	ess)			
	NATIONAL GRID 175 East Old Cou	untry Road				oklyn						
	Hicksville NY 118	301 516-408-8928			0,00	onign	1 141	11201				
	6. Transporter 1 Company Nam	ne						U.S. EPA ID	Number			
	MILLER ENVIRO	NMENTAL GROUP, INC.		NYD986	90808	5		110 501 15		0-394-860	6	
	7. Transporter 2 Company Nam	ne .						U.S. EPA ID	Number			
	Designated Facility Name an	d Site Address						U.S. EPA ID	Number			
	WATERWORKS					_						
	77 STEWART AV	ENUE		NYR000	23634	9						
	Facility FACILITY FACILITY OF THE PROPERTY OF	12550						84	5-590-0	<u>₩08</u>		
	9. Waste Shipping Name	e and Description			-	10. Conta		11. Total Quantity	12. Unit Wt./Vol.			
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	1)Approval # 1	960002 M 2) Co	ntainer Type:	DIA		_3)Trucki	2806		-			
Н	14. GENERATOR'S CERTIFICATION OF THE CASE	ATION: I certify the materials describe	ed above on this manifes		ct to federa	al regulations for	reporting pro	per disposal of H	azardous W	aste. Month	Day	Year
۷I		National Carid	Nicholas			NO					271	
	15. International Shipments	Import to U.S.	- 101014	Export from	ette tiete	Port of er	ntn/ovit			17-		-
INT	Transporter Signature (for expo			_ Export from	0.0.	Date leav						
EB	16. Transporter Acknowledgmen											
TRANSPORTER	Transporter 1 Printed/Typed Na	-		Sig	gnature	5				Month	Day	Year
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	17b. Alternate Facility (or Gener	alor)						U.S. EPA ID	Number			
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0	17c. Signature of Alternate Faci	lity (or Generator)								Month	Day	Year
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$\ $	10 Designated Facility Over	or Operator: Codification of account of	materials servered by the	monifest sus	nt no mate d	l in Itom 17-		Walter Street				
	18. Designated Facility Owner of Printed/Typed Name	or Operator: Certification of receipt of r	materials covered by the		pt as noted gnature	in text 1/a	1/	2		Month	Day	Year
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	Printed in USA by	GC Labels					,-	Reorde	r Part#	MANIFES	AND DESCRIPTION OF THE PERSON NAMED IN	Market Street
	1-800-997-6	6966 DI	ESIGNATED I	FACILITY	/ TO G	BENERAT	ror,			-897-6966		
							and la			AND RECEIPTION OF THE PARTY OF	Personal Property	



GZA GeoEnvironmental of New York



450 UNION STREET NAPL GAUGING AND RECOVERY MONTHLY REPORT JANUARY 2024

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:

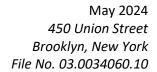
 On January 30, 2024, GZA performed DNAPL gauging and recovery at RW-01 and RW-02. The table below provides a summary of this event, and the attached **Table 1** summarizes gauging and recovery data collected by GZA to date.

		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	1/30/24	9.55	41.20	7.70	35	Trace	Trace
RW-02	1/30/24	9.90	52.90	5.45	50	Trace	Trace

- The area around each well was covered with polyethylene sheeting prior to performance of gauging and recovery activities.
- Approximately 85 gallons of DNAPL/water mixture was recovered from the two wells during the January 30,
 2024, 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. 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 (PPE) and Tradabe facility in East Chicago, Indiana (DNAPL). A copy of the disposal manifests are attached.

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

Attachment A: Disposal Manifests





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I, James J. Clark, certify that I am currently a this field report was prepared in accordance the DER Technical Guidance for Site Investig	e with all applicable statutes and re	nal as defined in 6 NYCRR Part 375 and that gulations and in substantial conformance with
James J. Clark, P.E., LEP	5/30/2024	Jones J. Olak
Qualified Environmental Professional	Date	Signature



TABLE 1 SUMMARY OF NAPL GAUGING ACTIVITIES

Location	Prior	Prior to DNAPL Recovery		Post D	NAPL Recover	ry	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	3/28/2023	Trace	Trace	40	357	No flooding oberved
	7/6/2023	39.45	9.45	7/6/2023	Trace	Trace	40	397	No flooding oberved
	8/15/2023	38.85	10.05	8/15/2023	Trace	Trace	20	417	Flooding observed prior to DNAPL recovery
	9/19/2023	43.80	5.1	9/19/2023	Trace	Trace	25	442	Flooding observed prior to DNAPL recovery
	10/17/2023	45.35	3.55	10/17/2023	Trace	Trace	30	472	No flooding oberved
	11/21/2023	45.05	3.85	3.85 11/21/2023 Trace Trace		40	512	No flooding oberved	
	12/27/2023	45.00	3.9	12/27/2023	Trace	Trace	15	527	No flooding oberved
	1/30/2024	41.20	7.7	1/30/2024	Trace	Trace	35	562	No flooding oberved

Location	Prior to DNAPL Recovery			Recovery after Removal			Volume of DNAPL Removed	Cumulative Volume of DNAPL Removed	Total 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)	(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	3/28/2023	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	
	7/6/2023	48.25	10.10	7/6/2023	57	1.35	110	993	1390	
	8/15/2023	49.50	8.85	8/15/2023	Trace	Trace	130	1123	1540	
	9/19/2023	51.81	6.54	9/19/2023	Trace	Trace	110	1233	1675	
	10/17/2023	54.70	3.65	10/17/2023	Trace	Trace	40	1273	1745	
	11/21/2023	53.65	4.70	11/21/2023	Trace	Trace	50	1323	1835	
	12/27/2023	55.50	2.85	12/27/2023	Trace	Trace	10	1333	1860	
	1/30/2024	52.90	5.45	1/30/2024	Trace	Trace	50	1383	1945	



ATTACHMENT A DISPOSAL MANIFEST

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Please print or type 1. Document No. METRO 2875 1 **BILL OF LADING** Site Address National Grid 3. Offeror Name and Mailing Address National Grid
175 East Old Country Rd 450 Union St Hicksville, NY, 11801 4. Offeror Phone (347) 213 - 8874 Brooklyh, NY 11231 A. State Transporter's ID 5. Transporter 1 Company Name

MILLER ENVIRONMENTAL GROUP, INC 6. EPA ID # 800-394-8606 NYD986908085 B. Transporter 1 Phone 8 FPA ID # C. State Transporter's ID 7. Transporter 2 Company Name D. Transporter 2 Phone F. State Facility's ID 10. EPA ID # 9. Designated Facility Name and Site Address Water WORKS HM New Burgh, NY, 12550 NYR 0002 36349 F. Facility's Phone 12. Containers Total No. Quantity Wt./Vol "NON RIRA, NON DOT Regulated,
(Solid debri PPE P 20 Dn N R A OR G. Additional Descriptions for Materials Listed Above Document#_2875 -Job #: 02240222 PO#____ 2) Container Type: Dm 3)Truck# 8806 ;1)Approval # 15. Special Handling Instructions and Additional Information 16. OFFEROR CERTIFICATION: I hereby certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulation of the Department of Transportation. The materials described on this document are not subject to federal uniform hazardous waste manifest requirements. Date Day Month Year Signature Printed/Typed Name 30 24 Agent For Nationa Gred 17. Transporter 1 Acknowledgment of Receipt of Materials Date Printed/Typed Name Day Year 24 30 1/cech lose 18. Transporter 2 Acknowledgment of Receipt of Materials Date Month Day Year Printed/Typed Name Signature 19. Discrepancy Indication Space Α С 20. Facility Owner or Operator; Certification of receipt of the materials covered by this bill of lading except as noted in item 19. Date Signature Printed/Typed Name Day Year 311 24



GZA GeoEnvironmental of New York



450 UNION STREET NAPL GAUGING AND RECOVERY MONTHLY REPORT FEBRUARY 2024

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:

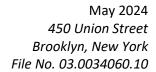
 On February 27, 2024, GZA performed DNAPL gauging and recovery at RW-01 and RW-02. The table below provides a summary of this event, and the attached **Table 1** summarizes gauging and recovery data collected by GZA to date.

		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	2/27/24	9.14	40.50	8.40	15	Trace	Trace
RW-02	2/27/24	9.21	53.60	4.75			

- The area around each well was covered with polyethylene sheeting prior to performance of gauging and recovery activities.
- Approximately 15 gallons of DNAPL/water mixture was recovered from RW-01 during the February 27, 2024, recovery event with a submersible pump and the Pulse Pump ® Model LP1301, however was unable to recover from RW-02 due to equipment issues.
- 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 (PPE) and Tradabe facility in East Chicago, Indiana (DNAPL). A copy of the disposal manifests are attached.

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

Attachment A: Disposal Manifest





I, James J. Clark, certify that I am currently a C	Qualified Environmental Profession	onal as defined in 6 NYCRR Part 375 and that
this field report was prepared in accordance	with all applicable statutes and re	egulations and in substantial conformance with
the DER Technical Guidance for Site Investiga	tion and Remediation (DER-10).	
		1
James J. Clark, D.E. J.ED	5/30/2024	Jones J. Clark
James J. Clark, P.E., LEP	5/30/2024	
Qualified Environmental Professional	Date	Signature



TABLE 1 SUMMARY OF NAPL GAUGING ACTIVITIES

Location	Prior to DNAPL Recovery Post DNAPL Recovery		Post DNAPL Recovery DNAPL Volume of DNAPL Volume of Volume of 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	3/28/2023	Trace	Trace	40	357	No flooding oberved
	7/6/2023	39.45	9.45	7/6/2023	Trace	Trace	40	397	No flooding oberved
	8/15/2023	38.85	10.05	8/15/2023	Trace	Trace	20	417	Flooding observed prior to DNAPL recovery
	9/19/2023	43.80	5.1	9/19/2023	Trace	Trace	25	442	Flooding observed prior to DNAPL recovery
	10/17/2023	45.35	3.55	10/17/2023	Trace	Trace	30	472	No flooding oberved
	11/21/2023	45.05	3.85	11/21/2023	Trace	Trace	40	512	No flooding oberved
	12/27/2023	45.00	3.9	12/27/2023	Trace	Trace	15	527	No flooding oberved
	1/30/2024	41.20	7.7	1/30/2024	Trace	Trace	35	562	No flooding oberved
	2/27/2024	40.50	8.4	2/27/2024	Trace	Trace	15	577	No flooding oberved

Location	Prior to I	ONAPL Reco	very	Recove	Recovery after Removal			Cumulative Volume of DNAPL Removed	Total 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)	(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	3/28/2023	Trace	Trace	50	743	1060	
										Site Inaccessible due to demolition
		ı	T 1			Г				Site Inaccessible due to demolition
	6/8/2023	45.40	12.95	6/8/2023	56.5	1.85	140	883	1240	
	7/6/2023	48.25	10.10	7/6/2023	57	1.35	110	993	1390	
	8/15/2023	49.50	8.85	8/15/2023	Trace	Trace	130	1123	1540	
	9/19/2023	51.81	6.54	9/19/2023	Trace	Trace	110	1233	1675	
	10/17/2023	54.70	3.65	10/17/2023	Trace	Trace	40	1273	1745	
	11/21/2023	53.65	4.70	11/21/2023	Trace	Trace	50	1323	1835	
	12/27/2023	55.50	2.85	12/27/2023	Trace	Trace	10	1333	1860	
	1/30/2024	52.90	5.45	1/30/2024	Trace	Trace	50	1383	1945	
	2/27/2024	53.60	4.75	2/27/2024	53.6	4.75	0	1383	1960	No recovery due to equipment issue



ATTACHMENT A DISPOSAL MANIFEST

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4	BILL OF LADING	NUE - E	W.+-	İ	1. Document N	•	2. Page 1 of 1
	3. Offeror Name and Malling Address		. C . D		Stie Address		
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	WORKEDOC, THE BOOK	cbsulle any ma	TOP TOP	·	Brocklyn,	NY11231	
37.0	4. Offeror Phope 6. 1. 3472138874	87EPAID#	· Fa		A. State Transp	orter's ID	<u>.</u>
3 80	Thille Environment	at " I mire	D08690808	<u> 5</u>	B. Transporter	1 Phone	
£ 1	Transporter 2 Company Name A	R EPAID			C. State Transp		
		- 1	<u> </u>	_	D. Transporter : E. State Facility		
5	9. Designated Facility Name and Site Address NORLITE LLC		NYE D80469935			, v1	
	628 S. SARABOA ST. COHOEB AB12047		*		F. Facility's Ph	one 518-235-0401	3 4
	Shipping Name	act wes	Y	12. C	ontainers	13. Total	14. Unit
				No.	Type	Quantity	Wt./Vol.
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5	G. Additional Descriptions for Materials Listed Above	Document# D4398	38 Job #: NY0224037	3 POF	3348	٦ · ٠٠٠	
	1369COD 1	ما	*		1010	1	
₹	2) Container Star 55 gal drums	The same			Ħ	- 39 72615	•
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PILL	15. Special Handling Instructions and Additional Information	eass		le	ul	3.80.6	94
7		* 3:					- <u>J</u>
	16. OFFEROR CERTIFICATION: Libereby certify that the all according to the applicable regulation of the Department	over named materials are prop of Transportation. The materia	eny classilled, described, packa als described on this document a	yea, marki re not subj	su emo ispeled en ect to federal unifo	u are in proper condition for orm bazardous waste manif	est requirements.
	BE DER LOSAL NAT C	KID .				· [Date
	Printed/Typed Name CRALG PEARCE		Signature /)	~1.		nth Day Year
2		The second secon	Cray F.				. • • -
RA			Signature			Mo	Date nth Day Year
N S	Nicholas Dumont	70 Aug 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	MO			2	2724
O R	18. Transporter 2 Acknowledgment of Receipt of Materials)	į		<u> </u>	Date · 7 /
T E R	· miles ()postante		Signature .	, تارید ت	٠ , .	, Mo	inth Day Year .
	19. Discrepancy Indication Space Tracable T+R 4343 (Ter	redyava B	actohicago 7	1746	2319: 7	TOOOG469	143
F		a garage	, , , , , , , , , , , , , , , , , , ,			•	
C		3	St. Company		•		
L	20. Facility Owner or Operator; Certification of receipt of the	materials covered by this bill o	of lading swept as noted in Item.	19			<u> </u>
Y	·		Claneture				Date
	Printed/Typed Name *		Signature		٠		enth Day Year
L					 		

MILLER ENVIRONMENTAL GROUP

24-Hour Emergency 800-394-8606

Please print or type		1. Document	l No.	2. Page 1		
BILL OF LADING N	' A	METR	RO3115	ot 1		
		Site Address	<u> </u>			
3. Offeror Name and Mailing Address: NATIONAL GRID 300 ERIE BOULEVARD SYRABUSE, NY 13232 4. Offeror Phone (3472138874)	National 450 Unio	National Grid 450 Union St Brooklyn, NY 11231				
5. Transporter 1 Company Name	6. EPA ID #	A, State Tran	sporter's ID			
MILLER ENVIRONMENTAL GROUP, INC	NYD986808085	B. Transporte	or 1 Phone 800-394-	8606		
	8. EPA ID #	C. State Tran	sporter's ID			
7. Transporter 2 Company Name	1	D. Transporte	<u> </u>			
i con Address	10, EPA ID #	E, State Faci		,		
9. Designated Facility Name and Site Address WATERWORKS 77 STEWART AVENUE NEWBURGH, NY 12550	<u> </u>	Phone 845-561-4111				
HM Les Orientes Name		12. Containers	13.	14.		
11. Shipping Name		No. Type	Total Quantity ~	Unit Wt./Vol,		
DOTAN DOTT Desided College (C	il. Debde	100. 1775	- Goulinity			
a. Non RCRANon DOT Regulated Solids (O	nly Debits)	1 0м	25	Р		
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	1# D43989 Job #: NY0224037	1100 1400				
15. Special Handling Instructions and Additional Information			(-5.73			
16. OFFEROR CERTIFICATION: I hereby certify that the above named man according to the applicable regulation of the Department of Transportation	terials are property classified, described, packag on. The materials described on this document ar	ed, marked and labeled a e not subject to federal uni	nd are in proper condition for tra form hazardous waste manifes:	ensportation requirements		
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Printed/Typed Name	Signature	آھے میں 🕽	Mont			
Craig Pearce	1 com	Peane		27 24		
T 17, Transporter 1 Acknowledgment of Receipt of Materials			!	Date		
Printed/Typed Name NICHOLAS DUMONT	Signature AD		Mont Z			
0 18. Transporter 2 Acknowledgment of Receipt of Materials				Date		
Printed/Typed Name	Signature		Mont	h Day Year		
19. Discrepancy Indication Space						
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20. Facility Owner or Operator; Certification of receipt of the materials cover	ed by this bill of lading except as noted in Item 1	9.	. —			
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Steikn I Solano	•			14 24		



GZA GeoEnvironmental of New York



450 UNION STREET NAPL GAUGING AND RECOVERY MONTHLY REPORT MARCH 2024

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:

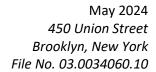
 On March 7, 2024, GZA performed DNAPL gauging and recovery at RW-01 and RW-02. The table below provides a summary of this event, and the attached **Table 1** summarizes gauging and recovery data collected by GZA to date.

		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	3/7/24	9.64	48.50	.40			
RW-02	3/7/24	9.65	53.60	5.00	25	Trace	Trace

- The area around each well was covered with polyethylene sheeting prior to performance of gauging and recovery activities.
- Approximately 25 gallons of DNAPL/water mixture was recovered from RW-02 during the March 7, 2024, recovery event with a submersible pump and the Pulse Pump ® Model LP1301, however insufficient volume was observed in RW-01.
- 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 (PPE) and Tradabe facility in East Chicago, Indiana (DNAPL). A copy of the disposal manifests are attached.

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

Attachment A: Disposal Manifest





•	e with all applicable statutes and reg	nal as defined in 6 NYCRR Part 375 and that gulations and in substantial conformance with
James J. Clark, P.E., LEP	5/30/2024	Jones J. Clark
Qualified Environmental Professional	Date	Signature



TABLE 1 SUMMARY OF NAPL GAUGING ACTIVITIES

Location	Prior	to DNAPL Rec	overy	Post Di	NAPL Recove	ery	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	3/28/2023	Trace	Trace	40	357	No flooding oberved
	7/6/2023	39.45	9.45	7/6/2023	Trace	Trace	40	397	No flooding oberved
	8/15/2023	38.85	10.05	8/15/2023	Trace	Trace	20	417	Flooding observed prior to DNAPL recovery
	9/19/2023	43.80	5.1	9/19/2023	Trace	Trace	25	442	Flooding observed prior to DNAPL recovery
	10/17/2023	45.35	3.55	10/17/2023	Trace	Trace	30	472	No flooding oberved
	11/21/2023	45.05	3.85	11/21/2023	Trace	Trace	40	512	No flooding oberved
	12/27/2023	45.00	3.9	12/27/2023	Trace	Trace	15	527	No flooding oberved
	1/30/2024	41.20	7.7	1/30/2024	Trace	Trace	35	562	No flooding oberved
	2/27/2024	40.50	8.4	2/28/2024	Trace	Trace	15	577	No flooding oberved
	3/7/2024	48.50	0.4	3/7/2024	0.4	0.4	0	577	No flooding oberved

Location	Prior to I	to DNAPL Recovery Recovery after Remove			Recovery after Removal		Volume of DNAPL Removed	Cumulative Volume of DNAPL Removed	Total 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)	(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	3/28/2023	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	
	7/6/2023	48.25	10.10	7/6/2023	57	1.35	110	993	1390	
	8/15/2023	49.50	8.85	8/15/2023	Trace	Trace	130	1123	1540	
	9/19/2023	51.81	6.54	9/19/2023	Trace	Trace	110	1233	1675	
	10/17/2023	54.70	3.65	10/17/2023	Trace	Trace	40	1273	1745	
	11/21/2023	53.65	4.70	11/21/2023	Trace	Trace	50	1323	1835	
	12/27/2023	55.50	2.85	12/27/2023	Trace	Trace	10	1333	1860	
	1/30/2024	52.90	5.45	1/30/2024	Trace	Trace	50	1383	1945	
	2/28/2024	53.60	4.75	2/27/2024	53.6	4.75	0	1383	1960	No recovery due to equipment issue
	3/7/2024	53.35	5.00	3/7/2024	Trace	Trace	25	1408	1985	



ATTACHMENT A DISPOSAL MANIFEST

A	NON-HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. Emer	rgency Response Phone	4. Waste Tracking Num	0006425
4	5. Generator's Name and Mailing Address National Grid 175 E Old Country Rd Generator's Phone: Hicksuite MY 11801	162.00	an mailing address) Union St NY 1/20	,
	6. Transporter 1 Company Name	3908085	U.S. EPA ID Number U.S. EPA ID Number	800-394-8606
	8. Designated Facility Name and Site Address 77 Stewart Ave Newburgh NY 12550		U.S. EPA ID Number	236349
	9. Waste Shipping Name and Description	10. Containers No. Type	11. Total 12. Unit Quantity Wt./Vol.	
GENERATOR -	1 non-RCRA, non-Dot Regulated Solids (PPE) (Debris)	1 Dm	40 P	
- GENI	2.			
	3.			
	4.			
	13. Special Handling Instructions and Additional Information Document# Job #: NY02240373 PO#			
	Document# Job #: NY02240373 PO# 1)Approval # JODO 158 2) Container Type: DM 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully an		v the proper shipping name	and are classified inackaged
*	marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable inter Generator's/Offeror's Printed/Typed Name Signature As Accept in Matthew Neves	mational and national governme With New	ntal regulations.	Month Day Year
INT'L	15. International Shipments Import to U.S. Export from U.S. Transporter Signature (for exports only):	Port of entry/exit: Date leaving U.S.:		
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Transporter 2 Printed/Typed Name Signature	a la		Month Day Year 3 7 2 4 Month Day Year
A	17. Discrepancy 17a. Discrepancy Indication Space Quantity Type	Residue	Partial Rejection	Full Rejection
ACILITY	17b. Alternate Facility (or Generator)	ifest Reference Number:	U.S. EPA ID Number	
DESIGNATED FACILITY	Facility's Phone: 17c. Signature of Alternate Facility (or Generator)			Month Day Year
- DESI				
V	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted Printed/Typed Name Signature	d in Item 17a	and the second s	Month Day Year

ביור כי המקווע



GZA GeoEnvironmental of New York



450 UNION STREET NAPL GAUGING AND RECOVERY MONTHLY REPORT APRIL 2024

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:

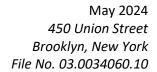
 On April 25, 2024, GZA performed DNAPL gauging and recovery at RW-01 and RW-02. The table below provides a summary of this event, and the attached **Table 1** summarizes gauging and recovery data collected by GZA to date.

		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	4/25/24	9.98	39.20	9.70	20	Trace	Trace
RW-02	4/25/24	10.20	54.70	3.65	35	Trace	Trace

- The area around each well was covered with polyethylene sheeting prior to performance of gauging and recovery activities.
- Approximately 55 gallons of DNAPL/water mixture were recovered from RW-01 and RW-02 during the April 25, 2024, 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. 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 (PPE) and Tradabe facility in East Chicago, Indiana (DNAPL). A copy of the disposal manifests are attached.

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

Attachment A: Disposal Manifests





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Certification		
I, James J. Clark, certify that I am currently a this field report was prepared in accordance the DER Technical Guidance for Site Investig	e with all applicable statutes and reg	nal as defined in 6 NYCRR Part 375 and that gulations and in substantial conformance with
<u>James J. Clark, P.E., LEP</u> Qualified Environmental Professional	5/30/2024 Date	James Olah Signature



TABLE 1 SUMMARY OF NAPL GAUGING ACTIVITIES

Location	Prior	to DNAPL Recovery		Post D	NAPL Recove	ry	Volume of DNAPL Removed	Cumulative Volume of DNAPL Removed	l 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	3/28/2023	Trace	Trace	40	357	No flooding oberved	
	7/6/2023	39.45	9.45	7/6/2023	Trace	Trace	40	397	No flooding oberved	
	8/15/2023	38.85	10.05	8/15/2023	Trace	Trace	20	417	Flooding observed prior to DNAPL recovery	
	9/19/2023	43.80	5.1	9/19/2023	Trace	Trace	25	442	Flooding observed prior to DNAPL recovery	
	10/17/2023	45.35	3.55	10/17/2023	Trace	Trace	30	472	No flooding oberved	
	11/21/2023	45.05	3.85	11/21/2023	Trace	Trace	40	512	No flooding oberved	
	12/27/2023	45.00	3.9	12/27/2023	Trace	Trace	15	527	No flooding oberved	
	1/30/2024	41.20	7.7	1/30/2024	Trace	Trace	35	562	No flooding oberved	
	2/27/2024	40.50	8.4	2/28/2024	Trace	Trace	15	577	No flooding oberved	
	3/7/2024	48.50	0.4	3/7/2024	0.4	0.4	0	577	No flooding oberved	
	4/25/2024	39.20	9.7	4/25/2024	Trace	Trace	20	597	No flooding oberved	

Location	Prior to DNAPL Recovery		very	Recove	Recovery after Removal		Volume of DNAPL Removed	Cumulative Volume of DNAPL Removed	Total 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)	(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	3/28/2023	Trace	Trace	50	743	1060	
										Site Inaccessible due to demolition
		ı	1			<u> </u>				Site Inaccessible due to demolition
	6/8/2023	45.40	12.95	6/8/2023	56.5	1.85	140	883	1240	
	7/6/2023	48.25	10.10	7/6/2023	57	1.35	110	993	1390	
	8/15/2023	49.50	8.85	8/15/2023	Trace	Trace	130	1123	1540	
	9/19/2023	51.81	6.54	9/19/2023	Trace	Trace	110	1233	1675	
	10/17/2023	54.70	3.65	10/17/2023	Trace	Trace	40	1273	1745	
	11/21/2023	53.65	4.70	11/21/2023	Trace	Trace	50	1323	1835	
	12/27/2023	55.50	2.85	12/27/2023	Trace	Trace	10	1333	1860	
	1/30/2024	52.90	5.45	1/30/2024	Trace	Trace	50	1383	1945	
	2/28/2024	53.60	4.75	2/27/2024	53.6	4.75	0	1383	1960	No recovery due to equipment issue
	3/7/2024	53.35	5.00	3/7/2024	Trace	Trace	25	1408	1985	
	4/25/2024	54.70	3.65	4/25/2024	Trace	Trace	35	1443	2040	



ATTACHMENT A DISPOSAL MANIFEST

1	NON-HAZ DOUS	1. Generator ID Number		2. Page 1 of 3. Em	nergency Response	e Phone	4. Waste Ti	racking Num	ber	3	
1	WASTE MANIFEST	N/A					M*S	15-26			
300000	5. Generator's Name and Maili	iling Address		Gene	erator's Site Address	s (il different ti	an mailing addr	ess)			
	NATIONAL GRID 300 ERIE BOUL General Sandies NY	EVARD (13292	and the and the	45	rtional Grid 0 Union St. ooklyn, NY 1	1231					
	6. Transporter 1 Company Nan	Enviornm	nontal (IVANI)		U.S. EPA ID		08085	_	
	7. Transporter 2 Company Nan		V				U.S. EPA ID	The state of the s	A TO SECURE		
	8. Designated Facility Name a	and Site Address TradCb	Treatment	and Rec	ectina [U.S. EPA ID	Number			
٠	Facility's Phone:	and Site Address TradCbo 4343 E95+ C	Kennedy Av hiogo, EN 41 -397-3951	lenve 6312			INDO	00064	6943		8
	9. Waste Shipping Name				10. Conta	1 50	11. Total Quantity	12. Unit Wt./Vol.			
1	1.		And the second state of th	-	No.	Type	Quartity				
ERATOF	Mon RCRANo	on DOT Regulated Liq	tuids (DNAPL)		1	DM -	55	3			
GEN GEN	2.	,			荷						
	3.										
	4.	9		,					are a		
	13. Special Handling Instruction	ions and Additional Information				L					
1	1) Approval # 10 2) Container Size 3) Truck # 840	000362816 s: 55-gal drums		bye M	12240575 P	L	Me	94	-30· Ə	4	
	001) ERG	1000362816		4015131	200		+4015				
	14. GENERATOR'S CERTIFIC. Generator's/Offeror's Printed/Ty	CATION: I certify the materials des Typed Name	scribed above on this manifest	it are not subject to fed Signature		reporting prop	er disposal of H	lazardous Wa	iste. Month	Day	Year
*	As Agent for	or Nat Grid	Nacholas Du	mant ·	5	<i>D</i>				25	
INT'L	International Shipments Transporter Signature (for expo	Import to U.S.		Export from U.S.	Port of er Date leav						
	16. Transporter Acknowledgme	ent of Receipt of Materials				ing o.s	8		w 3		
TRANSPORTER	Transporter 1 Printed/Typed Na NICHOLAS T		£ #8	Signature	K	12			Month	Day 251	Year ·
MANS	Transporter 2 Printed/Typed Na	iame		Signature			8		Month	Day	Year
-	17. Discrepancy					-3":				¥	10
1	17. Discrepancy Indication Spa	pace Quantity	Type		Residue	3103	Partial Rej	Cartes		" 2 1 2 1	-050
	1	:					Li Falliai nej	ection	<u> </u>	ull Rejectio	חג
7	17b. Alternate Facility (or General	erator)		Ma	anifest Reference N	Number:	U.S. EPA ID	Number	- Area		
4CILL	1	% g ⇒			(2)		5 1				920
ED F	Facility's Phone: 17c. Signature of Alternate Faci	cility (or Generator)			-	- 399			Month	Day	Year
SNAT	Ruzone successi de la companya			The Party of the August Sank.	202	·					*
— DESIGNATED FACILITY											
		or Operator: Certification of receip	ot of materials covered by the		ted in Item 17a	ACCOUNT NAME OF STREET	**************************************				September 1
¥	Printed/Typed Name	8		Signature					Month [Day	Year .

	5. Ge	nerator's Name and Mailing Address	1.1	Generator's Site Addres	0394880 s (il different)	han mailing addr	AFTRO	3429		
	157	NATIONAL GRID		National Grid		9	/			
		300 ERIE BOULEVARD	a.	450 Union St.						
	Gene	SYRACUSE, NY 13202 rator's Phone: 3472138874 nsporter 1 Company Name		Brooklyn, NY 1	11231		1504			
						U.S. EPA ID Number				
	7. Tra	WILLER ENVIRONMENTAL GROUP INC INSporter 2 Company Name			-	U.S. EPA ID Number				
		,]	Number					
	8. De:	signated Facility Name and Site Address				U.S. EPA ID	Number			
	1	VATERWORKS 77 STEWART AVENUE	NVDA	002363	40					
İ.	P	NEWBURGH, NY 12550	1 11150	462363	40					
9	Facilit	y's Phone: 845-561-4111	7.	10. Cont	ninara	1	Terrent			
		Waste Shipping Name and Description		No.	Type	11. Total Quantity	12. Unit Wt./Vol.			
~	74.7	Nam DCDANI - DOTD - Was d C NA (50 B 1 1 1 1 1 1 2 3 3		1774	1000		Section from Market		
GENERATOR		Non RCRA Non DOT Regulated Soilds (Olly Debns) (PPE)	1	Calo D. A.	20	1000			
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GE	1	2.								
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	1	3.	1.5				1000			
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ŀ			9							
	1. 3									
	13. 8	Special Handling Instructions and Additional Information	ument# D45072 Job#:	NV02240575 B	O#-		11	The Art and State of the State		
	1)	Approval # 20100 158			O 17.					
	2)	Container Size: 55-gal drums								
1	3)	Truck #. 8806								
		St. Accompany of the Archest (#)								
	14. G	ENERATOR'S CERTIFICATION: I certify the materials described a	bove on this manifest are not subject	to federal regulations fo	r reporting pro	oper disposal of h	łazardous W	aste.		
	Gene	rator's/Offeror's Printed/Typed Name	Sign	nature	15			Month Day Year		
1	H2	Agent for Nat Grad Hi	indis Dumont	11	14			14 125124		
INT	1	ternational Shipments Import to U.S.	Export from U		entry/exit:					
15915		porter Signature (for exports only): ransporter Acknowledgment of Receipt of Materials		Date lea	ving U.S.:					
TRANSPORTER		porter 1 Printed/Typed Name	Sign	nature		· · · · · · · · · · · · · · · · · · ·		Month Day Year		
SPO	M	1 cholas Tournant	1 ~	1	Vand			14 125 124		
RAN	Trans	porter 2 Printed/Typed Name	Sign	nature				Month Day Year		
F	17 B			00						
A		iscrepancy Discrepancy Indication Space		····						
	2465065	Quantity	Туре	Residue		Partial Re	jection	Full Rejection		
				Manifest Reference	Number:					
È	17b. /	Alternate Facility (or Generator)				U.S. EPA ID	Number	-		
\CIL						4				
DF		ty's Phone: Signature of Alternate Facility (or Generator)						Marth D. V		
IATE	1100	organization of Allemate Facility (of Centerator)	1					Month Day Year		
DESIGNATED FACILITY			The second section of the	1. Page 1. July 1. DOM: 1	A SECTION					
DE										
1										
040		esignated Facility Owner or Operator: Certification of receipt of mat						March 1		
¥	Printe	rd/Typed Name	Sign	nature	7	- Comments		Month Day Year		
	1		1	Contract of the second	AND DESCRIPTION OF THE PERSON NAMED IN					

DESIGNATED FACILITY'S COPY



GZA GeoEnvironmental of New York



450 UNION STREET NAPL GAUGING AND RECOVERY MONTHLY REPORT MAY 2024

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:

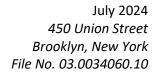
 On May 29, 2024, GZA performed DNAPL gauging and recovery at RW-01 and RW-02. The table below provides a summary of this event, and the attached **Table 1** summarizes gauging and recovery data collected by GZA to date.

		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	5/29/24	10.39	39.40	9.50	40	Trace	Trace
RW-02	5/29/24	10.56	54.12	4.23	30	Trace	Trace

- The area around each well was covered with polyethylene sheeting prior to performance of gauging and recovery activities.
- Approximately 70 gallons of DNAPL/water mixture were recovered from RW-01 and RW-02 during the May 29, 2024, 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. 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 (PPE) and Tradabe facility in East Chicago Indiana (DNAPL). A copy of the disposal manifests are attached.

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

Attachment A: Disposal Manifest





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).

		Jones J. Class
James J. Clark, P.E., LEP	7/10/2024	Jones 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

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Location	Prior	to DNAPL Rec	overy	Post D	NAPL Recover	ту	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
2	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
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	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	3/28/2023	Trace	Trace	40	357	No flooding oberved
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	12/27/2023	45.00	3.9	12/27/2023	Trace	Trace	15	527	No flooding oberved
	1/30/2024	41.20	7.7	1/30/2024	Trace	Trace	35	562	No flooding oberved
	2/27/2024	40.50	8.4	2/28/2024	Trace	Trace	15	577	No flooding oberved
	3/7/2024	48.50	0.4	3/7/2024	0.4	0.4	0	577	No flooding oberved
	4/25/2024	39.20	9.7	4/25/2024	Trace	Trace	20	597	No flooding oberved
	5/29/2024	39.40	9.5	5/29/2024	Trace	Trace	40	637	No flooding oberved

TABLE 1 Summary of NAPL Gauging and Recovery Activities 450 Union Street

Brooklyn, NY

Location	Prior to I	DNAPL Reco	very	Recove	ry after Remo	val	Volume of DNAPL Removed	Cumulative Volume of DNAPL Removed	Total 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)	(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
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	11/29/2022	49.20	9.15	11/29/2022	Trace	Trace	80	486	666	
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	3/28/2023	52.53	5.82	3/28/2023	Trace	Trace	50	743	1060	
										Site Inaccessible due to demolition
		T	T 1			T		<u> </u>		Site Inaccessible due to demolition
	6/8/2023	45.40	12.95	6/8/2023	56.5	1.85	140	883	1240	
	7/6/2023	48.25	10.10	7/6/2023	57	1.35	110	993	1390	
	8/15/2023	49.50	8.85	8/15/2023	Trace	Trace	130	1123	1540	
	9/19/2023	51.81	6.54	9/19/2023	Trace	Trace	110	1233	1675	
	10/17/2023	54.70	3.65	10/17/2023	Trace	Trace	40	1273	1745	
	11/21/2023	53.65	4.70	11/21/2023	Trace	Trace	50	1323	1835	
	12/27/2023	55.50	2.85	12/27/2023	Trace	Trace	10	1333	1860	
	1/30/2024	52.90	5.45	1/30/2024	Trace	Trace	50	1383	1945	
	2/28/2024	53.60	4.75	2/27/2024	53.6	4.75	0	1383	1960	No recovery due to equipment issue
	3/7/2024	53.35	5.00	3/7/2024	Trace	Trace	25	1408	1985	
	4/25/2024	54.70	3.65	4/25/2024	Trace	Trace	35	1443	2040	
	5/29/2024	54.12	4.23	5/29/2024	Trace	Trace	30	1473	2110	



ATTACHMENT A DISPOSAL MANIFEST

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*		ON-HAZÁRDOUS	Generator ID Number		2. Page 1 of		7			racking Num	291	9	
		ASTE MANIFEST enerator's Name and Mailir	N/A		4	Generator's Sit	e Addres	3394860 s (if different t	han mailing addr	9166 ess)		-	
							1		SANSAN AND SANSAN SANS				
	- 13	NATIONAL GRID 300 ERIE BOULB	TIME			National 450 Unic							
	Gene	SYRACUSE, NY	13202			Brooklyn		1231					
	6. Tra	ansporter 1 Company Nam	133874				1		U.S. EPA ID) Number			
	1	MILED ENVIDO	NMENTAL GROUP, IN	IC					L NYD9	8690801 Number	35		
Ш	7. Tr	ansporter 2 Company Nam	ne						U.S. EPA IL	Number			
		1	d Ohr Address			-	-		U.S. EPA ID	Number			
		esignated Facility Name an	nd Site Address						0.0. LI A I	, i tumber			
		WATERWORKS 77 STEWART AV	ENUE						NYRO	0023634	49		
	Facil	NEWBURGH, NY	Y 12550 561-4111										
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3		9. Waste Shipping Name	e and Description				No.	Туре	Quantity	Wt./Vol.		-	
1		1.	a BOT Begulated Cal	do /Olly Dobola) /	רחחבו		A				1000		
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	13.	Special Handling Instruction	ons and Additional Information	Document# D45	830 Job#	: NY02240	708 F	O#:					
	1)	Approval #: 20				1	j)3 :	34 - 3	- 10				
	2)	Approval #: 🔍 Container Size: 5	5-gal drum										
	3)	Truck#: 6605											
	14. (SENERATOR'S CERTIFIC	ATION: I certify the materials desc	cribed above on this manifes	t are not subje	ct to federal requ	lations fo	or reporting pro	oper disposal of l	Hazardous W	laste.		
П	Gene	erator's/Offeror's Printed/T	yped Name		Siç	gnature		TA F			Month		Year
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7	15. li	nternational Shipments	Import to U.S.		Export from		Port of e	entry/exit:					
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	NON-HAZARDOUS 1. Generator ID Number								
1	NON-HAZARDOUS 1. Generator ID Number WASTE MANJFEST	2. Page 1 of	3. Emergency Respor	se Phone	4. Waste	Tracking Num	ber		
	5. Generator's Name and Mailing Address		Generator's Site Addre	ess (if different	than mailing add	ress)	-		
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	Designated Facility Name and Site Address				U.S. EPA ID) Number		*******	
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	2)Container Sizer 55-gai drum 5) Truck #: 6605	9							
	14. GENERATOR'S CERTIFICATION: I certify the materials described above on this Generator's/Offeror's Printed/Typed Name	manifest are not subject Signa	Lane	or reporting pro	per disposal of h	Hazardous Wa	ste. Month	Day	Year
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A	18. Designated Facility Owner or Operator: Certification of receipt of materials cover	red by the manifest excen	t as noted in Item 17a	18815-VI				F-1 9787	4/31/9
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TRANSPORTER #1



GZA GeoEnvironmental of New York



450 UNION STREET NAPL GAUGING AND RECOVERY MONTHLY REPORT JUNE 2024

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:

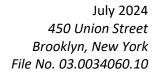
 On June 25, 2024, GZA performed DNAPL gauging and recovery at RW-01 and RW-02. The table below provides a summary of this event, and the attached **Table 1** summarizes gauging and recovery data collected by GZA to date.

		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	6/25/24	9.59	39.30	9.60	30	Trace	Trace
RW-02	6/25/24	10.00	55.65	2.70	40	Trace	Trace

- The area around each well was covered with polyethylene sheeting prior to performance of gauging and recovery activities.
- Approximately 70 gallons of DNAPL/water mixture were recovered from RW-01 and RW-02 during the June
 25, 2024, 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. Prior to leaving the Site, these drums were transported off-Site for disposal by Miller Environmental Group at the AB Environmental, facility in Bohemia, New York (PPE) and Tradabe facility in Meriden Connecticut (DNAPL). A copy of the disposal manifests are attached.

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

Attachment A: Disposal Manifest





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).

		Jones J. Clar
James J. Clark, P.E., LEP	7/10/2024	Jones 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 Rec	overy	Post D	NAPL Recove	ry	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	3/28/2023	Trace	Trace	40	357	No flooding oberved
	7/6/2023	39.45	9.45	7/6/2023	Trace	Trace	40	397	No flooding oberved
	8/15/2023	38.85	10.05	8/15/2023	Trace	Trace	20	417	Flooding observed prior to DNAPL recovery
	9/19/2023	43.80	5.1	9/19/2023	Trace	Trace	25	442	Flooding observed prior to DNAPL recovery
	10/17/2023	45.35	3.55	10/17/2023	Trace	Trace	30	472	No flooding oberved
	11/21/2023	45.05	3.85	11/21/2023	Trace	Trace	40	512	No flooding oberved
	12/27/2023	45.00	3.9	12/27/2023	Trace	Trace	15	527	No flooding oberved
	1/30/2024	41.20	7.7	1/30/2024	Trace	Trace	35	562	No flooding oberved
	2/27/2024	40.50	8.4	2/28/2024	Trace	Trace	15	577	No flooding oberved
	3/7/2024	48.50	0.4	3/7/2024	0.4	0.4	0	577	No flooding oberved
	4/25/2024	39.20	9.7	4/25/2024	Trace	Trace	20	597	No flooding oberved
	5/29/2024	39.40	9.5	5/29/2024	Trace	Trace	40	637	No flooding oberved
	6/25/2024	39.30	9.6	6/25/2024	Trace	Trace	30	667	No flooding oberved

TABLE 1 Summary of NAPL Gauging and Recovery Activities 450 Union Street Brooklyn, NY

Location	Prior to I	DNAPL Reco	very	Recovery after Remova Date/Time Depth to		val	Volume of DNAPL Removed	Cumulative Volume of DNAPL Removed	Total Cumulative Volume of DNAPL Removed	Comments
	Date	Depth to DNAPL (ft.)	DNAPL Thickness (ft)	Date/Time		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 replace
	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 replace
	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	3/28/2023	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	
	7/6/2023	48.25	10.10	7/6/2023	57	1.35	110	993	1390	
	8/15/2023	49.50	8.85	8/15/2023	Trace	Trace	130	1123	1540	
	9/19/2023	51.81	6.54	9/19/2023	Trace	Trace	110	1233	1675	
	10/17/2023	54.70	3.65	10/17/2023	Trace	Trace	40	1273	1745	
	11/21/2023	53.65	4.70	11/21/2023	Trace	Trace	50	1323	1835	
	12/27/2023	55.50	2.85	12/27/2023	Trace	Trace	10	1333	1860	
	1/30/2024	52.90	5.45	1/30/2024	Trace	Trace	50	1383	1945	
	2/28/2024	53.60	4.75	2/27/2024	53.6	4.75	0	1383	1960	No recovery due to equipment issue
	3/7/2024	53.35	5.00	3/7/2024	Trace	Trace	25	1408	1985	
	4/25/2024	54.70	3.65	4/25/2024	Trace	Trace	35	1443	2040	
	5/29/2024	54.12	4.23	5/29/2024	Trace	Trace	30	1473	2110	
	6/25/2024	55.65	2.70	6/25/2024	Trace	Trace	40	1513	2180	



ATTACHMENT A DISPOSAL MANIFEST

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SYRACUSE, NY 13202 Generator's Phone: 3472136674	Brooklyn, NY	11231	110 504 15	V V	71		
6. Transporter 1 Company Name			U.S. EPA ID				
MILLER ENVIRONMENTAL GROUP, INC 7. Transporter 2 Company Name	- 1		U.S. EPA ID	986908(Number	J65 		
. Hampono. 2 Sovipany Name							
Designated Facility Name and Site Address Ab / willer Engranded	/		U.S. EPA ID				
TO STEWART AVENUE 1599 OCCAN HE			NYR	900236	349.		
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o. Waste Onlyping Name and Description	No.	Туре	Quantity	Wt./Vol.	\$1250 A 340 (254 A 8	1310 - 495 ex	
Non RCRA Non DOT Regulated Solids (Oily Debris)				505			
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2) Container Size: 55-gal drums 3) Truck #: (662)							
3) Truck #: (662) AS AGENT TOR NATGRID 4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject	ot to federal regulations fo	or reporting pr	oper disposal d F	-fazardous W			
4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject Generator's/Offeror's Printed/Typed Name Signature	ot to federal regulations for	or reporting pr	oper disposal d F	Hazardous W	Mon		
4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject tenerator's/Offeror's Printed/Typed Name Sig		or reporting pr	oper disposal di F	Hazardous W		100	
4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject Senerator's/Offeror's Printed/Typed Name Sig	J.S. Port of 6	entry/exit	oper disposal of H	Hazardous W	Mon		
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4. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject enerator's/Offeror's Printed/Typed Name 5. International Shipments	J.S. Port of on Date lead insture Residue	entry/exit	Partial Rej	jection	Mon	th Day 25 th Day 2	i
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5. Generator's Name and Mailing Address	Generator's Site Addres	s (if different th	han mailing addre	ess)		
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NATIONAL GRID 175 East Old Country Road	450 UNION S	37				
175 East Old Country Road Hicksville, NY 11801 Generator's Phone: 347-213-8874	BROOKLYN,		9			
Generator's Phone: 347-513-8874			U.S. EPA ID	Number		
6. Transporter 1 Company Name						
MILLER ENVIRONMENTAL GROUP, INC			U.S. EPA ID)889080£	!5	-
7. Transporter 2 Company Name			U.S. EFA ID	Number		
8. Designated Facility Name and Site Address			U.S. EPA ID			
TRADEBE TREATMENT AND RECYCLING 136 GRACEY AVENUE MERIDEN, CT 06451 Facility's Phone: 203-238-6745			CTD)21816 8 6	39	
Waste Shipping Name and Description	10. Con No.	tainers Type	11. Total Quantity	12. Unit Wt./Vol.	#1	
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Non RCRA Non DOT Regulated Liquids (DNAPL) 2.						
3.						
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			Mark.			
13. Special Handling Instructions and Additional Information Document # D46341 Jobs	#: NY02240943	PO#:				
1) Approval #: 1 CS V 3 CS & Lo						
1) Approval #: 1 2) Container Size: 55-gal drums						
2) Container Stap: 55-gal drums 3) Truck #: 14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject Generator's/Offeror's Printed/Typed Name Sign		S				
AS AGENT FOR NATGRID	REA HU	101	>			
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject	t to federal regulations f	or reporting pro	oper disposal of h	lazardous Was	ste.	
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17. Discrepancy					<u> </u>	
17a. Discrepancy Indication Space Quantity Type	Residue		Partial Re	jection	Full Rejecti	ion
	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
17c. Signature of Alternate Facility (or Generator)						
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest excep Printed/Typed Name Sign	t as noted in Item 17a nature	1		×	Month Day	Year
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GZA GeoEnvironmental of New York