Twelfth Annual Report for NAPL Recovery

August 2025 Through July 2026
Former Equity Works MGP Site, Brooklyn, New York
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Acronyms

BUG	Brooklyn Union Gas Company
CCR	Construction Completion Report
DNAPL	dense non-aqueous phase liquid
IRM	Interim Remedial Measure
MGP	Manufactured Gas Plant
NAPL	non-aqueous phase liquid
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O&M	Operation & Maintenance
PDI	Pre-design Investigation
PLC	Programmable Logic Controller
PVC	polyvinyl chloride
Site	222-254 Maspeth Avenue
TOC	top of casing

Executive Summary

On behalf of National Grid, AECOM USA, Inc. (AECOM), has prepared this non-aqueous phase liquid (NAPL) Recovery Annual Report to document the twelfth year of operation of the NAPL recovery system within the footprint of the former K-Equity Works site (the Site), a former Manufactured Gas Plant (MGP) site, located at 222-254 Maspeth Avenue in Brooklyn, New York, during the period of August 2025 through July 2026.

The NAPL recovery is being conducted pursuant to a Multi-site Order on Consent and Administrative Settlement, Index # A2-0552-0606, between The Brooklyn Union Gas Company (BUG) d/b/a National Grid NY, and the New York State Department of Environmental Conservation (NYSDEC).

The Site is located in a historically industrialized area and operated as a MGP from approximately 1893 to 1929. BUG acquired the MGP in approximately 1903 and transferred ownership of the Site in 1951. The Site currently consists of three adjoining properties – 222 Maspeth Avenue, 252 Maspeth Avenue, and 254 Maspeth Avenue. The 222 Maspeth Avenue property was previously used by Cooper Tank as a solid waste recycling facility and more recently used for waste container (roll-off) fabrication and rehabilitation. The 252 Maspeth Avenue property is leased to a tenant who parks and maintains buses, and the 254 Maspeth Avenue parcel is leased to a construction contractor as a lay-down space to support their construction operations.

The NAPL Recovery Interim Remedial Measure (IRM) activities included the following:

- Installation of five recovery wells at appropriate locations within the central areas of the Site to reduce the quantity of NAPL, and at 18 selected perimeter locations to control the potential for off-Site migration (Figure ES-1).
- Installation of pumps, controls, and a NAPL recovery collection tank/system.
- Installation of two recovery wells within the former No.1 Relief Holder in 2018. These wells were properly abandoned by a licensed driller in July 2023 in accordance with NYSDEC's CP-43 Groundwater Monitoring Well Decommissioning Policy in advance of the planned excavation of the former No. 1 Relief Holder contents as part of the ongoing IRM happening at 222 Maspeth Avenue.
- Installation of seven pilot recovery wells screened at varying depths below the former gas holder foundation at 222 Maspeth Avenue between September and December 2021 to recover NAPL beneath this suspected source area structure. Given the start of IRM activities involving the removal of the material within the former gas holder foundation at the 222 Maspeth Avenue parcel, the pilot recovery wells were properly abandoned by a licensed driller in July 2023 in accordance with NYSDEC's CP-43 Groundwater Monitoring Well Decommissioning Policy.

On-going Operation Maintenance and Monitoring activities following completion of the IRM include the following:

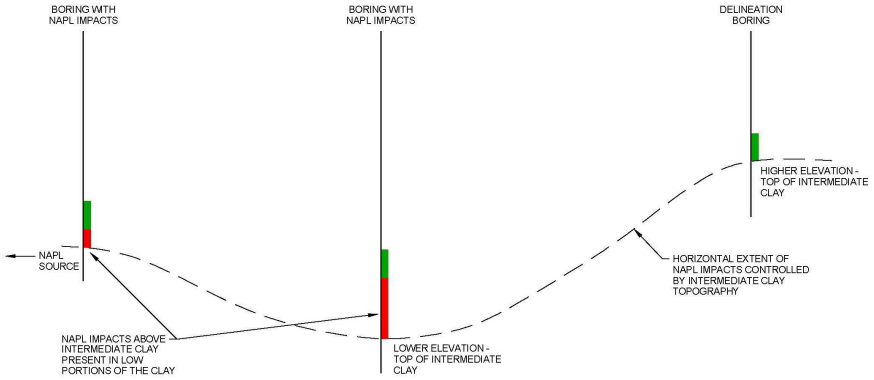
- Gauging of NAPL,
- Recovery of NAPL that collects in the recovery wells, and
- Quarterly maintenance and housekeeping of the NAPL recovery system trailer and quarterly maintenance of NAPL recovery pump well screens as required.

Details regarding the construction of the NAPL recovery wells are included in the Interim Remedial Measure for NAPL Recovery Construction Completion Report (CCR), submitted to the NYSDEC in May 2015 (AECOM, 2015). Details regarding the pilot recovery wells have been transmitted to NYSDEC via email.

Since system startup through July 31, 2026, the system has operated with an average on-line factor of 98%, without incidents or unplanned releases from the system. Based on system measurements from a level sensor within the NAPL recovery tank, approximately 36,400 gallons of mixed fluids have been collected from the automated recovery system and managed as an alternative fuel, initially at the Tradebe

Facility in Cohoes, New York until March of 2017 and more recently at Veolia Technical Solutions Facility in Middlesex, New Jersey. An estimate of the NAPL/water ratios over the monitoring period indicates that the mixed fluids collected are typically 60 to 70% NAPL, resulting in over 25,500 gallons of NAPL having been removed from the Site to date by the automated recovery system. Furthermore, approximately 1,156 gallons of mixed fluids have been manually removed from the Site to date with an estimated 90% NAPL/water ratio. In addition, 2,600 gallons of mixed fluids were collected from the seven pilot recovery wells during their operational period (December 2021 to July 2023) with an estimated 80% NAPL/water ratio.

It is important to note that the NAPL identified at the Equity MGP is a denser than water NAPL (DNAPL) that when released to the subsurface will migrate downward through permeable materials until encountering a lower permeability layer that acts as natural barrier, limiting the downward and outward migration of NAPL. Once the NAPL encounters a lower permeability unit the vertical migration of NAPL in the subsurface is impeded, causing the NAPL to migrate along the slope of the lower permeable unit until it obtains residual saturation levels within the soils. A schematic documenting the observed NAPL migration pathways once encountering a lower permeability layer is outlined below:



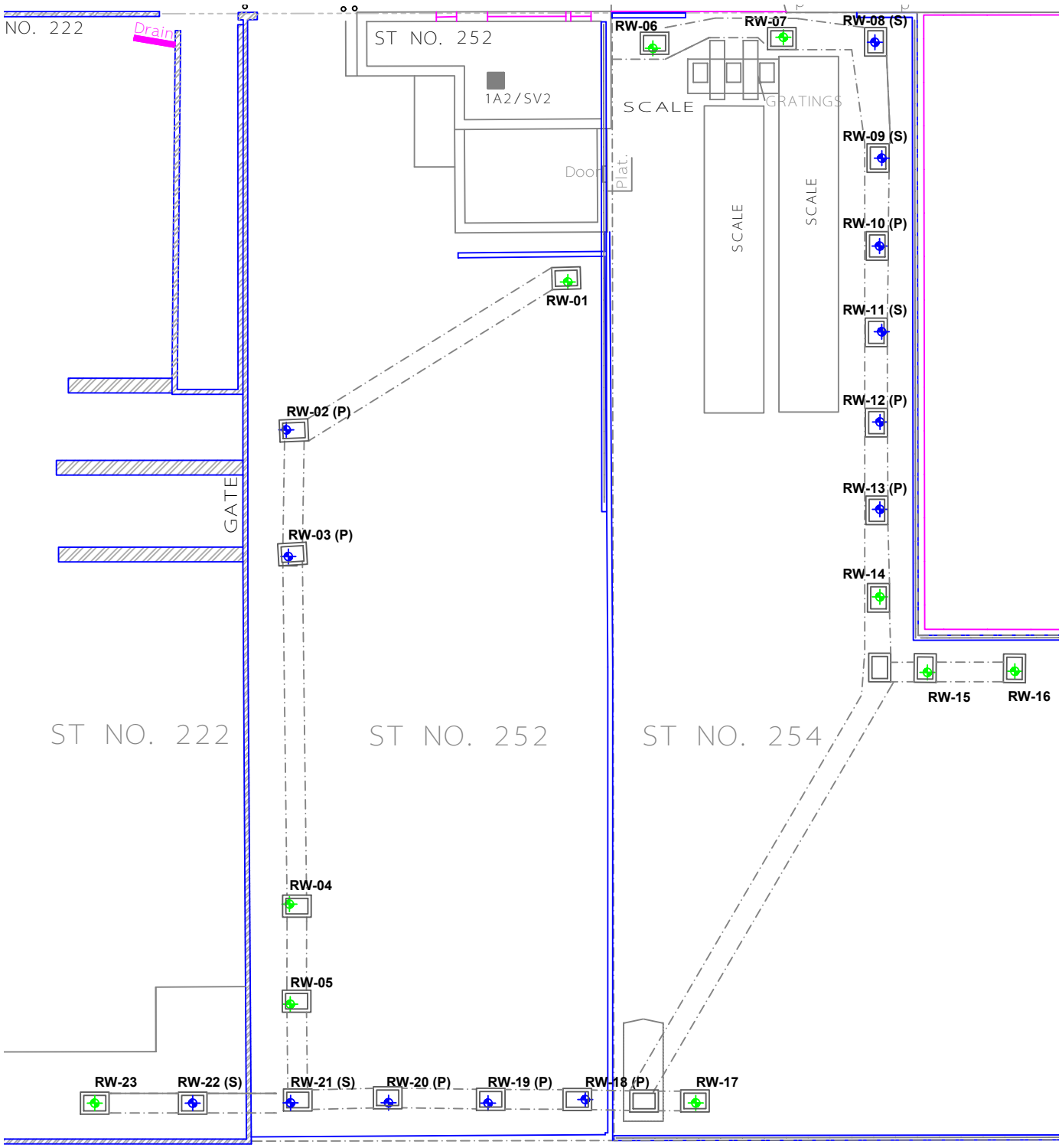
Example of Intermediate Clay Topography Controlling Extent of NAPL Impacts

The NAPL present in the subsurface was determined to be stable during the Remedial Investigation (RI) and prior to implementation of the IRM consistent with the above schematic, as evidenced by the documented decrease in NAPL impacts away from source areas showing a progressive change from NAPL saturation to NAPL coating to staining and odors and at distal areas within the RI Study Area.

Furthermore, the NAPL presence was observed to be aligned with the topography of the various lower permeability subsurface units, which largely limited its potential to migrate from the Site to adjacent locations within the RI Study Area. As a result, the extent of NAPL was defined during the Remedial Investigation vertically and horizontally within the RI Study Area, which includes the Site and immediately adjacent surrounding properties. The RI demonstrated that there is no migration of NAPL beyond the RI Study Area. Where present at one boring on the eastern edge of the RI Study Area, the DNAPL was documented in a residual state and not mobile. DNAPL is largely contained within the Site itself by the topography of the various subsurface low permeability confining layers. The IRM work outlined in this report is designed to recover DNAPL from recovery wells screened at and above the intermediate clay layer beneath the Site.

Data collected to date indicates that NAPL collection rates at 11 of the initial 23 recovery well locations warrant the continued operation of pumps to support automated recovery. The well pumps are controlled with timers that are adjusted, as required, with a goal of containing the NAPL within the sump of each well, but at a level above the inlet to the pump to minimize the collection of groundwater. The remaining 12 wells are managed using manual recovery techniques on a quarterly basis. Data collected at the pilot recovery wells at 222 Maspeth Avenue indicated that longer-term recovery of deeper NAPL below the

former gas holder foundation is warranted and therefore new recovery wells and infrastructure for connecting these wells to the automated NAPL collection system is a component of the ongoing IRM occurring at the 222 Maspeth Avenue parcel.



LEGEND

RW-02 (P) AUTOMATED WELLS - PRIMARY (APPROX. COLLECTION RATE > 1 GPD)

RW-08 (S) AUTOMATED WELLS - SECONDARY (APPROX. COLLECTION RATE 0.5-0.1 GPD)

RW-01 GAUGING WELLS (APPROX. COLLECTION RATE < 0.1GPD)

15 0 30

GRAPHIC SCALE IN FEET

AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE,
BROOKLYN NY
60137362.660

LOCATION OF AUTOMATED WELLS

DATE: 10/30/2013 | DRWN: BcV/C-MA

FIGURE ES-1

File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2013-PR Well Layout\60137362-668-PR Wells with Pumps.dwg Layout: PS (WorkProduct) User: clearym Plotted: Fe

1. Introduction

On behalf of National Grid, AECOM USA, Inc. (AECOM), has prepared this Twelfth Annual Report outlining NAPL recovery progress during its twelfth year of operation, covering the period of August 2025 through July 2026.

The non-aqueous phase liquid (NAPL) recovery system is located within the footprint of the former Equity Works Manufactured Gas Plant (MGP) site (the Site). The Site consists of three adjoining properties – 222 Maspeth Avenue, 252 Maspeth Avenue, and 254 Maspeth Avenue located in Brooklyn, New York. Details regarding the construction of the NAPL recovery system are included in the Interim Remedial Measure for NAPL Recovery Construction Completion Report (CCR), submitted to the New York State Department of Environmental Conservation (NYSDEC) in May 2015 (AECOM, 2015). The location of the Site and the orientation of the individual properties are illustrated in **Figure 1-1** and **Figure 1-2**, respectively.

The Interim Remedial Measure (IRM) was implemented pursuant to a Multi-site Order on Consent and Administrative Settlement, Index # A2-0552-0606, between The Brooklyn Union Gas Company (BUG) d/b/a National Grid NY (hereinafter, National Grid), and the NYSDEC, in accordance with applicable guidelines of the NYSDEC and the New York State Department of Health (NYSDOH).

This document is organized in the following manner: a summary of activities associated with the installation and operation of the recovery system is presented in **Section 2**; the results from the twelfth year's monitoring activities are documented in **Section 3** and proposed revisions to the system's operation and monitoring program are discussed in **Section 4**.

2. Recovery Well Installation and Operation

National Grid has been collecting recoverable NAPL at the Site since 2014. The design of the NAPL recovery system included the installation of 25 recovery wells at locations that were determined to have the potential to collect mobile NAPL and be compatible with Cooper Tank's construction and long-term operational activities. Consistent with the NYSDEC approved work-plan (AECOM, 2013), recovery wells were installed in the following areas of the Site:

- On-Site – Five recovery wells (RW-1 through 5) were installed at locations within the 252 Maspeth Avenue property.
- Site Perimeter –18 recovery wells (RW-6 through 23) were installed along the perimeter of the Site on the 222, 252 and 254 Maspeth Avenue properties.
- Two additional recovery wells (RW-24 and RW-25) were installed in 2018 inside the former No. 1 Relief Holder on the 222 Maspeth Avenue parcel and added to the NAPL recovery Operation & Maintenance (O&M) program. These wells were properly abandoned by a licensed driller in July 2023 in accordance with NYSDEC's CP-43 Groundwater Monitoring Well Decommissioning Policy in advance of the planned excavation of the former No. 1 Relief Holder contents as part of the ongoing IRM happening at 222 Maspeth Avenue.
- Seven recovery wells (referred to as pilot recovery wells) were installed in late 2021 below the foundation of the former No.1 Relief Holder for a pilot program to explore the recoverability of dense non-aqueous phase liquid (DNAPL) below the intermediate clay and above the deep clay (a confining unit). These recovery wells terminated at various depths and were designated as follows: shallow (RW-28S and RW-29S), intermediate (RW-27I), and deep (RW-26, RW-27DR, RW-28D, and RW-29D). One of the Pilot wells (RW-27D) was abandoned due to broken casing and was replaced (RW-27DR). Remaining pilot recovery wells were properly abandoned by a licensed driller in July 2023 in accordance with NYSDEC's CP-43 Groundwater Monitoring Well Decommissioning Policy in advance of the planned excavation of the former No. 1 Relief Holder contents as part of the ongoing IRM happening at 222 Maspeth Avenue.

Recovery well locations are shown in **Figure 2-1**. The perimeter locations are spaced at approximately 18 ft on center, with the exception of the area along the driveway of 254 Maspeth Avenue where the presence of a subsurface structure required spacing of approximately 30 feet between the three recovery wells (RW-6, -7 and -8). The On-Site and Site Perimeter locations were equipped with the infrastructure, i.e., conduits for electrical service and tubing, for the subsequent automation of NAPL recovery activities.

2.1 Recovery Well Designs

Recovery wells were designed to accommodate the uncertainty of long-term NAPL recovery rates. All well risers were constructed of 6-inch diameter schedule 40 polyvinyl chloride (PVC). Recovery well screens were constructed of 6-inch diameter 0.020-inch slot wire wrap stainless steel.

Five (5) and ten (10) foot lengths of screen were used, as required, to address soil intervals where NAPL (i.e., saturated thickness greater than 1-inch) has been observed. Centralizers were installed at the top and bottom of each screen. The screen size was selected based on the grain-size information obtained during the Pre-Design Investigation (PDI).

Each well was equipped with a 5-foot long, 6-inch diameter, stainless steel sump to collect NAPL, with the exception of wells RW-24 and RW-25 which were screened to the former No. 1 Relief Holder foundation to avoid penetrating the holder bottom. The annular space above the filter pack was filled with a bentonite seal (minimum of 3 to 4 feet thick). Note that additional bentonite seals were used at locations where multiple screen intervals were installed. The annular space above the bentonite seal was filled with a grout mixture from the bentonite seal to approximately one to two feet below the top of casing (TOC).

Recovery wells at the On-Site and Site Perimeter locations were completed in a 4-foot by 4-foot traffic rated well vault. Illustrations of an in-place recovery well and completed well location are provided in

Figure 2-2. The pilot wells were constructed in a similar fashion with four different screen lengths: 5-foot (RW-29D), 10 feet (RW-26, RW-28S, RW-29S and RS-28D), 15 feet (RW-27I), and 20 feet (RW-27DR). All pilot wells had 10-foot-long sumps.

2.2 Initial Monitoring and NAPL Recovery

The NAPL recovery system is intended to operate in a manner that contains the NAPL levels within the well sumps (5 ft. in length) to the extent practicable. As part of the installation of the system, initial monitoring activities were conducted to provide a preliminary estimate of potential collection rates. The results were used to determine which locations would require automation for the cost-effective recovery of NAPL.

The monitoring activities provided the ability to group the locations into three categories based on the observed recharge rates. They were grouped as follows: Primary recovery wells (greater than 0.5 gallons per day [gpd] of NAPL recovered); Secondary recovery wells (approximately 0.1 to 0.5 gpd of NAPL recovered) and gauging wells (< 0.1 gpd of NAPL recovered). The distribution of wells within these categories is provided on **Table 2-1**.

2.2.1 Primary Recovery Wells

The majority of NAPL (approximately 85 percent of total) was collected from the eight primary locations. The manual management of NAPL at these locations would require that recovery activities be conducted on a weekly basis to ensure that the storage capacity of the well sumps (approximately 7.5 gallons) was not exceeded. This frequency of manual monitoring/collection is not cost-effective or practical given site access issues and the level of activity at the Site. As a result, the wells at these eight locations were automated by setting NAPL recovery pumps in the wells.

2.2.2 Secondary Recovery Wells

Approximately 15 percent of the NAPL was collected from the seven secondary wells. The manual management of NAPL at these locations would require that recovery activities be conducted monthly to ensure that the storage capacity of the well sumps is not exceeded. Long-term manual monitoring/recovery at this frequency is not cost effective, and these locations were also automated by setting NAPL recovery pumps in the wells.

2.2.3 Gauging Wells

NAPL levels at the 13 remaining wells were consistently observed to be within the well's sumps at each location or within the former No. 1 Relief Holder foundation. It was determined that NAPL at these locations could be effectively managed on a quarterly basis using manual recovery techniques. Note that one of the secondary wells (RW-11) was converted to a gauging well during the first year of operation, bringing the total to 13 wells.

The measurements of the quantity of NAPL collected from locations within the former No. 1 Relief Holder indicated that RW-24 and RW-25, while they were present, could also be effectively managed using manual recovery techniques on a quarterly basis.

2.2.4 Pilot Wells

Seven pilot recovery wells were installed in the fall of 2021 to evaluate the potential for NAPL recovery at depth below the intermediate clay unit beneath the former gas holder foundation at 222 Maspeth Avenue. RW-26 and RW-28S were installed initially. The second group included RW-27I, RW-27D, and RW-29S. One of the wells, RW-27D, was later abandoned and replaced by RW-27DR. The third group of wells installed were RW-28D and RW-29D.

The pilot recovery wells were installed in accordance with the NYSDEC-approved IRM Work Plan Addendum (AECOM, 2021). These well groups were installed sequentially and based on the DNAPL

accumulation documented in the previous group. After installation, significant DNAPL accumulation was not observed in either the first or second group of wells, prompting the installation of the third and final group. By the third month since RW-26 and RW-28S were installed, measurable DNAPL accumulation began to be observed in all pilot wells except RW-27I.

The DNAPL recharge rates varied among these pilot wells. Wells were gauged and pumped as needed on a weekly basis to assess the long-term NAPL recoverability potential to determine if certain pilot recovery wells could be abandoned or whether NAPL accumulation can be performed quarterly under the current O&M program, or if well(s) would benefit from automation similar to other existing primary recovery wells. The pilot recovery wells were abandoned in early July 2023 prior to mobilization for the ongoing 222 Maspeth Avenue IRM work.

2.3 System Operation

Discussions of the recovery/collection methods for the automated and gauging wells are provided below.

2.3.1 Automated Wells

The Primary and Secondary recovery well locations (**Figure 2-3**) are equipped with fixed speed pumps manufactured by Linear Pumps. The well pumps are controlled with timers that are adjusted, as required, with a goal of containing the NAPL within the sump of each well, but at a level above the inlet to the pump to minimize the collection of groundwater.

Collected NAPL is accumulated in a 500-gallon capacity double-walled polyethylene tank located above ground in the system's control trailer on the 254 Maspeth Avenue parcel (**Figure 2-4**). The accumulation tank is equipped with a high liquid level detector to prevent over-filling, as well as secondary containment. The system is equipped with additional alarms and communication equipment to ensure its safe operation.

The contents of the tank are periodically gauged by field staff using the following method:

- The tank is accessed through the topmost access port.
- An interface probe is lowered to the bottom of the tank.
- The probe is left in place for a period of five minutes to allow the separate layers of NAPL and water to resolve.
- The probe is slowly raised until the water level is encountered.

The thicknesses of the NAPL and water levels are used to estimate the relative NAPL/water composition of the mixed fluids.

2.3.2 Gauging Wells

The gauging wells are monitored during quarterly inspection activities and accumulated NAPL is recovered using an air lift system that consists of an air compressor and sample line (1 inch outside diameter black iron pipe) that runs from the bottom of the well sump to a closed 55-gallon drum and is operated in the following manner:

- A small stream of compressed air is introduced into the bottom of the sample line through a "T' connection.
- The upward movement of the air "bubble" creates a vacuum that draws NAPL upward from the sump and into the drum.
- The consistency of the stream is determined by an oil/water interface probe that is inserted into the sample line. Air flow is discontinued when the probe detects water is being pumped through the tubing instead of DNAPL. Then the volume of collected NAPL is measured and recorded.

The collected NAPL is stored in sealed drums and collected with the NAPL from the accumulation tank at regular intervals by a certified waste hauler.

2.3.3 Pilot Wells

From August 1, 2022, through November 28, 2022, the seven pilot recovery wells were accessed, gauged, and pumped on a weekly basis. From November 29, 2022, until July 12^{h}, 2023, pilot recovery wells were gauged only if there was 50% or greater (5 feet in NAPL thickness) accumulation of NAPL in any particular well, and wells with 8 feet or greater of NAPL (80% of the sump capacity) were pumped on weekly basis through July 11, 2023. On July 12th, 2023, all pilot recovery wells were abandoned in preparation for mobilization of the 222 Maspeth IRM Work. In total, 2,600 gallons of mixed fluids were collected from the seven pilot recovery wells during their operational period (December 2021 through July 12th, 2023) with an estimated 80% NAPL/water ratio. New deep recovery wells meant to replace the pilot recovery wells and infrastructure for connecting these deep recovery wells to the automated NAPL collection system is a component of the ongoing IRM occurring at the 222 Maspeth Avenue parcel.

DNAPL from the pilot recovery wells was recovered using the air lift pumping system currently in use to remove NAPL from the Gauging Wells described in **Section 2.3.2** above.

DNAPL recovered from these wells was stored in 55-gallon steel drums and picked up by National Grid's approved waste hauler on a bi-weekly basis. The quantity of the DNAPL generated from these wells is recorded separately from the other wells on-Site and outlined in **Section 3.1.3** below.

3. System Performance

The following discussion provides summaries of NAPL recovery and waste management observations during the twelfth year of system operation (August 2025 through July 2026), as well as a discussion of the associated maintenance and response activities.

3.1 NAPL Recovery

The results from the monitoring of the automated and gauging wells are discussed below.

3.1.1 Automated Wells

The results from the gauging activities during the system's operation are summarized in **Table 3-1**. Adjustments to the pumping rates were generally appropriate to contain NAPL within the sumps of the wells. However, experience during the first twelfth years of operation demonstrate that although general trends of the flow of NAPL to a well can be established, there are short-term variabilities in flow and/or minor mechanical issues (e.g., pump screen clogging, tripped fuses, pump failures) that can challenge the ability to continually maintain a matching pumping rate. In addition, because the system is automated with pumping times and durations controlled by a timer, periodically there are times where the NAPL thickness is identified above the sump interval (*e.g.*, if wells are gauged just before pumping). These are temporary conditions, as accumulated NAPL is removed from the sumps on a weekly basis over time. Pump duration adjustments are also made on an on-going basis when data indicate NAPL thickness is near or above the sump level in the recovery wells.

Approximately 1,400 gallons of mixed fluids were collected from the system during the twelfth year of operation (August 1, 2025, through July 31, 2026). An illustration of the cumulative volume of mixed fluids collected by the automated pumping system from a level sensor in the NAPL recovery tank over time is provided in **Figure 3-1**. From startup through July 2026, approximately 36,400 gallons of mixed fluids have been removed by the automated pumping system based on readings from the level sensor in the NAPL recovery tank. Note that the estimates of total recovered gallons presented in **Table 3-1** are based on in-truck volumes listed on the manifests collected by the automated pumping system based on weight of the material and include NAPL that is pumped from the recovery tank and NAPL that is manually removed from the gauging wells thus providing a higher estimate than the "recovery tank" level sensor results provided on **Figure 3-1** which is an approximate volume.

In the past, observation of the relative proportions of NAPL/water have been highly variable; however, the use of the standardized protocol presented in the Year 2 Report including lowering the probe to the bottom of the recovery tank and letting it equilibrate for approximately five minutes prior to recording the NAPL and water thicknesses has provided more consistent results. In addition, a change in pumping frequency from daily to weekly in July 2020 indicated an approximate 10% reduction in water content of the recovered NAPL following this change to weekly pumping. Another change that occurred in the eighth year of operation was the conversion of RW-8, which has become a gauging well based on the NAPL thickness and calculated recharge rates in this well.

During Year 12 operations, the observed NAPL to water ratio of collected mixed fluids was approximately 60% to 70% NAPL. A conservative estimate of the NAPL/water ratios since system startup indicates that the collected material likely contained over 25,500 gallons of NAPL.

3.1.2 Gauging Wells

Monitoring and recovery activities were conducted on an approximate quarterly basis throughout the year. The 2016-2026 data from the gauging wells is presented in **Table 3-2a** and **Table 3-2b**. As indicated, manual recovery on a quarterly basis is appropriate to maintain DNAPL levels within the sumps. During Year 12 operations, approximately 33 gallons of mixed fluids were recovered from the 14 gauging wells. Since system startup, approximately 1,156 gallons of mixed fluids have been manually removed from the Site to date from the 14 gauging wells with an estimated 90% NAPL/water ratio.

Figure 3-2 presents a graphical illustration of the trend in DNAPL thickness in the gauging wells during twelve years of operation. As illustrated, thicknesses have generally decreased over time with typical variation. This suggests that the collection system is having a potentially significant effect on reducing the quantity of recoverable DNAPL in the areas where the gauging wells are located.

3.1.3 Pilot Wells

No new information was collected from the pilot recovery wells in Year 12 since they were abandoned in July of 2023. However, previous data showing the DNAPL thickness and recovered volume from the pilot wells are presented in **Table 3-3a** and **Table 3-3b** prior to their abandonment. During the operational period of the seven pilot recovery wells (December of 2021 through July 12, 2023), approximately 2,600 gallons of mixed fluids were recovered with an estimated 80% NAPL/water ratio.

Figure 3-3 shows the cumulative volume of DNAPL recovered while the Pilot recovery wells were in place. The observed NAPL to water ratio of collected mixed fluids from the pilot recovery wells was approximately 80% NAPL.

3.2 Waste Management

The collected NAPL was managed as an alternative fuel at the Veolia Technical Solutions Facility in Middlesex, New Jersey for fuels blending. A summary of the waste shipments and associated quantities according to manifests from both the automated and gauging wells is presented in **Table 3-4**.

The initial shipments of mixed fluids during Years 1 and 2 were managed as a non-hazardous waste in accordance with NYSDEC Guidance DER-4, “Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment”. From time to time the results from the analysis of the mixed fluids in the tank have indicated a flash point greater than 140°F. Although the results were believed to be the result of inconsistencies in sampling and analysis, shipments after February 5, 2016, during Year 2 operations, have been conservatively managed as a D001 Ignitable Waste using the RCRA ID number for the Site: NYR 000 225 615. Documentation of the shipments for Year 12 operations are provided in **Appendix A**.

3.3 System Maintenance

There were no significant maintenance issues with the system during the monitoring period; however, in early 2022, Sensaphone discontinued remote monitoring support for the systems Programable Logic Controller (PLC), the SCADA 3000. As this unit operates as the system PLC and monitoring system, it was determined that both had needed to be upgraded. The PLC/monitoring system upgrade was completed in November of 2022.

The following maintenance activities were accomplished during the twelfth year of operation:

- Periodic cleaning of the system trailer to remove dust generated by site operations.
- Quarterly cleaning of recovery well pump intake screens as needed and replacement of vault lid hardware (latches, hinges, etc.) that get damaged by site operations.

During the current reporting period, the system was on-line 355 days out of a total of 365 planned operating days, as outlined below. This reflects an on-line factor of 97%, which is consistent with prior years of operation. Out of the 10 days the system was off-line, 2 days were dedicated to maintenance, and the other 8 days were manual shutdowns to allow completion of each quarterly O&M event.

3.4 Incidents/Unplanned Releases

There were no incidents or unplanned releases during the reporting period.

4. Recommendations

National Grid continues to conduct additional evaluations of recharge rates and the composition of mixed fluids to determine if it will be practical to refine the operation of the system, e.g., transition automated wells to gauging wells, over time. These evaluations will not change the effectiveness of the NAPL recovery efforts given the limited potential for NAPL to migrate from the Site footprint to adjacent locations within the RI Study area based on the subsurface topography of the various low permeability units in the subsurface, as documented during the Remedial Investigation.

4.1 Past Recommendations

Starting in June 2014, and continuing forward during various quarterly gauging events, a program was initiated to evaluate the recharge rates for selected wells. During the evaluation, NAPL was removed from the selected wells, and NAPL thickness was monitored periodically over the next 24 hours or longer, with results reported in gallons/day. The results for three wells (RW-10, RW-18, and RW-19) during Year 12 operations are summarized in **Figure 4-1**. One well, RW-20, was inaccessible because of a disabled bus blocking access to this well during Year 12 operations. As illustrated on **Figure 4-1**, NAPL recharge rates generally indicate a decreasing trend, with expected variability. The evaluation will be continued at these wells during Year 13 operations.

During Year 3 operations, National Grid also conducted a recharge evaluation to assess the possibility that the decreasing recharge rates could be associated with “fouling” of the well screens. The results from the evaluation were presented in the Year 3 Annual Report (AECOM, 2017) and demonstrated that significant NAPL recharge was noted in all wells, confirming that recovery well screen fouling is not an issue or the cause of the gradually decreasing recharge rates.

The NAPL recovery system was switched from daily to weekly pumping on July 27, 2020 in an attempt to improve NAPL to water collection ratios. Results from recorded NAPL to water ratios in the recovery tank during Year 7 and Year 8 indicated an approximate 10% reduction in water content of the recovered NAPL following this change to weekly pumping. The results of the above actions will be reviewed as part of the next annual report to determine if there is a trend in the rate of NAPL collection and if any future modifications to the operation of the system are required.

4.2 Future Recommendations

The automated collection of NAPL will continue for the Primary and Secondary wells as described in **Section 2.3.1**. The gauging wells will be monitored and pumped during the quarterly inspections as described in **Section 2.3.2**. Following installation of the deeper NAPL recovery wells screened beneath the former No. 1 Relief Holder upon completion of the current IRM at 222 Maspeth Avenue, the NAPL monitoring and recovery of those wells will be incorporated into the ongoing quarterly O&M program.

5. References

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Tables

Table 2-1
Categories of Recovery Wells
Former Equity Works MGP Site, Brooklyn, New York

Primary Recovery Wells (collection rate > 0.5 gpd)

Well	Location	
RW-2	252 Parcel	on-site
RW-3	252 Parcel	on-site
RW-10	254 Parcel	perimeter
RW-12	254 Parcel	perimeter
RW-13	254 Parcel	perimeter
RW-18	254 Parcel	perimeter
RW-19	254 Parcel	perimeter
RW-20	254 Parcel	perimeter

Secondary Recovery Wells (collection rates 0.1 to 0.5 gpd)

Well	Location	
RW-9	254 Parcel	perimeter
RW-11	254 Parcel	perimeter
RW-21	254 Parcel	perimeter
RW-22	222 Parcel	perimeter

Gauging Wells (collection rate < 0.1 gpd)

Well	Location	
RW-1	252 Parcel	on-site
RW-4	252 Parcel	on-site
RW-5	252 Parcel	on-site
RW-6	254 Parcel	perimeter
RW-7	254 Parcel	perimeter
RW-8	254 Parcel	perimeter
RW-11	254 Parcel	perimeter
RW-14	254 Parcel	perimeter
RW-15	254 Parcel	perimeter
RW-16	254 Parcel	perimeter
RW-17	254 Parcel	perimeter
RW-23	222 Parcel	perimeter
RW-24	222 Parcel	on-site
RW-25	222 Parcel	on-site

222 Maspeth Pilot Recovery Wells

Well	Location	
RW-26	222 Parcel	decommission
RW-28S	222 Parcel	decommission
RW-29S	222 Parcel	decommission
RW-27I	222 Parcel	decommission
RW-28D	222 Parcel	decommission
RW-29D	222 Parcel	decommission
RW-27D	222 Parcel	decommission

Note: Based on data from initial gauging events - May 2013 through February 2014

Table 3-1
NAPL Monitoring and Recovery - Automated Wells
Former Equity Works MGP Site, Brooklyn, New York

Location			Depth of Well (ft.)		Typical Pre-Recovery NAPL Thickness (ft.)	NAPL Thickness (ft)													
	Parcel	Well ID	Design	Measured		4/30/2020	7/27/2020	10/19/2020	1/25/2021	4/26/2021	7/13/2021	10/18/2021	1/24/2022	4/25/2022	7/20/2022	11/8/2022	2/22/2023	4/19/2023	8/8/2023
On-Site	252	**RW- 2**	51.00	49.70	12	6.80	0.01	5.75	---	8.85	1.79	2.35	2.05	1.50	1.83	1.95	3.04	4.00	7.42
		RW- 3	51.00	50.40	14	---	2.44	12.10	---	12.90	5.25	1.10	6.80	12.10	4.42	1.95	9.22	6.25	1.60
Perimeter	254	RW- 8	48.00	46.72	3	0.00	3.20	4.55	2.50	2.30	2.95	4.20	3.28	3.00	4.40	---	---	---	---
		RW- 9	50.00	48.87	6	5.00	3.20	0.10	0.50	4.85	4.20	4.50	---	0.15	0.00	0.70	2.25	3.83	6.71
		RW- 10	46.00	45.30	11	5.30	1.25	2.96	6.98	5.91	11.89	9.68	0.90	0.30	0.00	0.02	0.03	0.92	0.82
		RW- 11	46.00	45.73	8	1.00	1.15	0.92	1.20	0.85	0.70	1.50	1.85	2.00	3.11	2.45	1.40	0.82	0.81
		RW- 12	46.00	45.48	13	0.20	0.01	2.08	5.20	5.96	7.50	1.10	0.98	2.50	1.65	0.02	1.44	3.92	4.92
		RW- 13	46.00	45.53	12	0.00	0.01	0.10	0.30	0.20	0.02	0.01	---	0.00	0.00	0.80	2.75	3.09	4.21
	252	**RW- 18**	50.00	47.50	10	0.00	0.01	1.40	1.50	2.25	0.95	0.10	1.21	1.20	1.70	1.43	0.01	1.50	1.05
		RW- 19	52.00	50.18	12	9.50	9.55	3.63	2.00	2.25	2.02	0.60	2.62	2.00	2.40	2.88	0.30	1.50	2.50
		RW- 20	52.00	50.75	11	2.30	1.93	4.22	---	0.62	4.10	2.90	4.70	1.20	7.65	7.01	7.01	6.24	3.33
		RW- 21	50.00	49.80	5	3.90	0.01	0.10	---	0.33	0.22	0.80	0.42	---	---	8.11	7.05	0.07	1.07
	222	RW- 22	46.00	42.95	8	---	0.00	0.10	0.00	0.32	0.00	0.00	0.92	0.21	0.55	0.85	0.80	1.45	0.22
Recovered Gallons (cumulative from system startup)						24988	25473	26429	26989	27397	28861	29346	30384	30761	31195	32534	33368	33765	34201
Average Gallons per Day						11.7	11.5	11.5	11.7	11.1	11.4	11.1	11.1	10.9	10.7	10.8	10.7	10.6	10.4

Notes:

Bold Primary Recovery Wells

--- Not available. At RW-11, pump transferred to RW-22 during 10/3/14 event

RW-11 converted to a Gauging Well

Recovered Gallons (cumulative) is total amount pumped (based on disposal manifests) and does not include correction factor for NAPL to water ratio

Gallons per Day does not include correction factor for NAPL to water ratio

RW-8 converted to a Gauging Well during 7/20/22 event

Table 3-1
NAPL Monitoring and Recovery - Automated Wells
Former Equity Works MGP Site, Brooklyn, New York

Location			Depth of Well (ft.)		Typical Pre-Recovery NAPL Thickness (ft.)	NAPL Thickness (ft)											
	Parcel	Well ID	Design	Measured		11/14/2023	3/26/2024	6/11/2024	7/30/2024	11/25/2024	2/18/2025	4/1/2025	8/5/2025	10/21/2025	1/29/2026	4/21/2026	7/28/2026
On-Site	252	**RW- 2**	51.00	49.70	12	0.85	9.35	0.30	4.45	1.32	7.33	1.96	2.34	1.75	1.60	1.00	3.00
		RW- 3	51.00	50.40	14	0.05	0.40	0.90	10.00	15.29	9.62	7.60	2.60	2.30	5.36	7.10	0.01
Perimeter	254	RW- 8	48.00	46.72	3	---	---	---	---	---	---	---	---	---	---	---	---
		RW- 9	50.00	48.87	6	6.02	6.97	8.00	0.02	0.55	0.80	1.11	2.80	5.79	3.93	6.04	4.4
		RW- 10	46.00	45.30	11	0.30	1.65	0.24	2.70	2.10	4.10	3.93	3.92	0.94	0.81	1.02	0.9
		RW- 11	46.00	45.73	8	1.44	0.87	0.55	0.30	1.81	4.03	0.30	0.80	1.06	1.00	0.06	1.2
		RW- 12	46.00	45.48	13	5.52	6.92	3.48	0.92	0.35	3.11	2.32	2.32	1.62	2.2	4.02	6.3
		RW- 13	46.00	45.53	12	2.22	2.80	0.02	0.02	0.20	0.85	1.13	1.44	3.5	1.5	5.55	0.01
	252	**RW- 18**	50.00	47.50	10	1.67	1.70	1.40	0.75	0.60	3.68	4.42	5.45	0.95	N/A	N/A	4.00
		RW- 19	52.00	50.18	12	4.02	7.23	2.30	10.13	0.01	1.05	2.25	6.54	2.00	N/A	5.60	1.5
		RW- 20	52.00	50.75	11	4.30	4.14	4.90	2.30	3.08	---	---	---	---	---	---	3.20
		RW- 21	50.00	49.80	5	0.02	0.02	0.30	1.00	0.02	0.02	0.10	0.20	0.30	N/A	N/A	0.01
	222	RW- 22	46.00	42.95	8	1.45	1.75	0.90	2.34	1.00	0.88	0.62	0.63	0.70	0.02	0.00	0.7
Recovered Gallons (cumulative from system startup)						34626	35094	35194	35579	36555	37055	37605	38105	38570	38959	39389	39389
Average Gallons per Day						10.2	10.0	9.8	9.7	9.7	9.9	10.0	9.8	9.7	9.5	9.5	9.2

Notes:

Bold Primary Recovery Wells

--- Not available. At RW-11, pump transferred to RW-22 during 10/3/14 event

RW-11 converted to a Gauging Well

Recovered Gallons (cumulative) is total amount pumped (based on disposal manifests) and does not include correction factor for NAPL to water ratio

Gallons per Day does not include correction factor for NAPL to water ratio

RW-8 converted to a Gauging Well during 7/20/22 event

Table 3-2a
NAPL Monitoring and Recovery - Gauging Wells
Former Equity Works MGP Site
Brooklyn, New York

Location			Depth of Well (ft.)		NAPL Thickness (feet)													
	Parcel	Well ID	Design	Measured	4/30/2020	7/27/2020	10/19/2020	1/25/2021	4/26/2021	7/13/2021	10/18/2021	1/24/2022	4/25/2022	7/20/2022	11/8/2022	2/22/2023	4/19/2023	8/8/2023
On-Site	252	RW- 1	45.00	43.35	---	3.11	0.70	---	---	---	---	---	---	---	---	---	---	---
		RW- 4	51.00	49.91	0.0	0.01	0.10	---	0.75	0.0	0.01	0.10	---	---	---	---	---	---
		RW- 5	47.00	44.45	0.10	0.01	0.10	---	0.45	0.30	0.45	0.10	---	---	---	---	---	---
Perimeter	254	RW- 6	47.00	45.72	2.40	2.54	1.35	2.50	1.80	1.32	2.20	2.47	2.00	1.65	2.45	1.50	0.8	2.02
		RW- 7	48.00	46.05	---	1.22	0.75	1.00	0.90	0.78	0.80	1.80	0.70	0.70	1.52	0.80	0.54	0.75
		RW- 8	48.00	46.72	---	---	---	---	---	---	---	---	---	4.40	3.30	3.12	2.04	0.82
		RW- 11	46.00	45.73	1.00	1.15	0.92	1.20	0.85	0.70	1.50	1.85	2.00	3.11	2.45	1.40	0.82	0.81
		RW- 14	45.00	45.13	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
		RW- 15	45.00	43.72	0.0	0.0	---	---	---	---	---	---	---	---	---	---	---	---
		RW- 16	50.00	49.72	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		RW- 17	48.00	49.60	3.90	2.23	3.40	4.00	3.45	2.81	4.40	3.51	3.00	2.45	3.23	3.00	1.42	2.15
	222	RW- 23	44.00	41.69	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		RW- 24	26.50	25.95	0.0	0.0	0.0	0.1	0.10	0.01	0.01	0.01	0.00	0.00	0.00	0.01	---	---
		RW- 25	26.25	24.93	0.20	0.25	0.12	1.00	0.10	0.23	0.01	---	---	---	0.80	---	---	---

Notes:

--- = Unable to access due to ongoing Cooper Tank/bus company site operations or equipment blocking recovery well that could not be moved

NI - Not installed

RW-8 converted to a Gauging Well during 7/20/22 event

RW-11 converted to a Gauging Well during 10/3/14 event

No manual gauging and removal during June 2015 due to time/access limitation

Table 3-2a
NAPL Monitoring and Recovery - Gauging Wells
Former Equity Works MGP Site
Brooklyn, New York

Location			Depth of Well (ft.)		NAPL Thickness (feet)											
	Parcel	Well ID	Design	Measured	11/14/2023	3/26/2024	6/11/2024	7/30/2024	11/25/2024	2/18/2025	4/1/2025	8/5/2025	10/21/2025	1/29/2026	4/21/2026	7/28/2026
On-Site	252	RW- 1	45.00	43.35	---	---	---	---	---	---	---	---	---	---	---	---
		RW- 4	51.00	49.91	---	---	---	---	---	---	---	---	---	---	---	---
		RW- 5	47.00	44.45	---	---	---	---	---	---	---	---	---	---	---	---
Perimeter	254	RW- 6	47.00	45.72	0.91	0.81	0.9	0.3	2.0	2.01	0.70	0.89	1.75	1.63	2.0	1.2
		RW- 7	48.00	46.05	0.85	0.88	0.8	0.3	0.1	0.02	0.73	0.88	0.9	0.8	0.01	0.3
		RW- 8	48.00	46.72	3.04	3.61	3.65	1.0	2.4	2.68	1.95	3.25	0.03	2.8	3.7	2.2
		RW- 11	46.00	45.73	1.44	0.87	0.55	0.3	1.8	4.03	0.30	2.80	1.06	1.00	0.06	1.20
		RW- 14	45.00	45.13	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.01	0.02	0.03	0.01	0.01
		RW- 15	45.00	43.72	---	---	---	---	---	---	---	---	---	---	---	---
		RW- 16	50.00	49.72	---	---	---	---	---	---	---	---	---	---	---	---
		RW- 17	48.00	49.60	1.94	1.82	2.85	0.8	1.8	0.22	1.43	1.13	1.21	---	1.13	1.50
	222	RW- 23	44.00	41.69	---	---	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.03	0.00	0.01
		RW- 24	26.50	25.95	---	---	---	---	---	---	---	---	---	---	---	---
		RW- 25	26.25	24.93	---	---	---	---	---	---	---	---	---	---		---

Notes:

--- = Unable to access due to ongoing Cooper Tank/bus company site operations or equipment blocking recovery well that could not be moved

NI - Not installed

RW-8 converted to a Gauging Well during 7/20/22 event

RW-11 converted to a Gauging Well during 10/3/14 event

No manual gauging and removal during June 2015 due to time/access limitation

Table 3-2b
NAPL Monitoring and Recovery - Gauging Wells
Former Equity Works MGP Site
Brooklyn, New York

Location			Depth of Well (ft.)		Location			Depth of Well (ft.)		Typical Pre-Recovery NAPL Thickness (ft.)	Mixed Fluids Quantity Recovered (gal.)										
	Parcel	Well ID	Design	Measured		Parcel	Well ID	Design	Measured		4/30/2020	7/27/2020	10/19/2020	1/25/2021	4/26/2021	7/13/2021	10/18/2021	1/24/2022	4/25/2022	7/20/2022	11/8/2022
On-Site	252	RW- 1	45.00	43.35	On-Site	252	RW- 1	45.00	43.35	3	---	10.0	3.0	---	---	0.0	0.0	0.0	---	---	---
		RW- 4	51.00	49.91			RW- 4	51.00	49.91	trace	0.0	0.0	0.0	---	5.0	0.0	0.0	0.0	---	---	---
		RW- 5	47.00	44.45			RW- 5	47.00	44.45	2	0.0	0.0	0.0	---	---	0.0	0.0	0.0	---	---	---
Perimeter	254	RW- 6	47.00	45.72	Perimeter	254	RW- 6	47.00	45.72	3	0.0	7.0	4.0	5.5	10.0	5.5	3.0	4.0	15.0	5.0	5.0
		RW- 7	48.00	46.05			RW- 7	48.00	46.05	1	---	5.0	3.0	4.0	5.0	4.0	7.0	3.0	0.0	0.0	4.0
		RW- 8	48.00	46.72			RW- 8	48.00	46.72	3	---	---	---	---	---	---	---	---	---	10.0	6.0
		RW- 11	46.00	45.73			RW- 11	46.00	45.73	4	0.0	0.0	5.0	5.0	5.0	5.0	0.0	3.0	0.0	6.0	5.0
		RW- 14	45.00	45.13			RW- 14	45.00	45.13	trace	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		RW- 15	45.00	43.72			RW- 15	45.00	43.72	trace	0.0	0.0	---	---	---	---	---	---	---	---	---
		RW- 16	50.00	49.72			RW- 16	50.00	49.72	1	---	---	---	---	---	---	---	---	---	---	---
		RW- 17	48.00	49.60			RW- 17	48.00	49.60	6	5.0	5.0	8.0	7.5	14.0	7.5	7.0	5.0	15.0	0.0	6.0
	222	RW- 23	44.00	41.69		222	RW- 23	44.00	41.69	2	---	---	---	---	---	---	---	---	---	---	0.0
		RW- 24	26.50	25.95			RW- 24	26.50	25.95	NI	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	0.0
		RW- 25	26.25	24.93			RW- 25	26.25	24.93	NI	0.0	2.0	5.0	4.0	0.0	0.0	0.0	0.0	---	---	2.0
										Total	5.0	29.0	28.0	26.0	39.0	22.0	17.0	15.0	30.0	21.0	28.0
										Cumulative from System Startup	620.0	649.0	677.0	703.0	742.0	764.0	781.0	796.0	826.0	847.0	875.0

Notes:

--- = Unable to access due to ongoing Cooper Tank/bus company site operations or equipment blocking recovery well that could not be moved

NI - Not installed

RW-8 converted to a Gauging Well during 7/20/22 event

Notes:

RW-11 converted to a Gauging Well during 10/3/14 event

No manual gauging and removal during June 2015 due to time/access limitation

RW-8 converted to a Gauging Well during 7/20/22 event

Table 3-2b
NAPL Monitoring and Recovery - Gauging Wells
Former Equity Works MGP Site
Brooklyn, New York

Location			Depth of Well (ft.)		Mixed Fluids Quantity Recovered (gal.)														
	Parcel	Well ID	Design	Measured	2/22/2023	4/19/2023	8/8/2023	11/14/2023	3/26/2024	6/11/2024	7/30/2024	11/25/2024	2/18/2025	4/1/2025	8/5/2025	10/21/2025	1/29/2026	4/21/2026	7/28/2026
On-Site	252	RW- 1	45.00	43.35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		RW- 4	51.00	49.91	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		RW- 5	47.00	44.45	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Perimeter	254	RW- 6	47.00	45.72	5.0	3.0	5.0	5.0	4.0	4.0	3.0	3.0	6.0	4.0	4.0	4.9	---	2.0	4.95
		RW- 7	48.00	46.05	4.0	3.0	4.0	4.0	3.0	3.0	3.0	3.0	0.0	3.0	4.0	2.4	---	---	2.35
		RW- 8	48.00	46.72	6.0	6.0	6.0	7.0	7.0	10.0	3.0	3.0	6.0	6.0	8.0	1.0	---	3.7	1.0
		RW- 11	46.00	45.73	5.0	3.0	3.0	4.0	3.0	3.0	6.0	6.0	8.0	3.0	4.0	2.6	---	---	2.59
		RW- 14	45.00	45.13	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
		RW- 15	45.00	43.72	---	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---	---	---
		RW- 16	50.00	49.72	---	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---	---	---
		RW- 17	48.00	49.60	6.0	5.0	5.0	7.0	4.0	6.0	3.0	3.0	0.0	6.0	5.0	2.8	---	---	2.82
	222	RW- 23	44.00	41.69	---	---	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
		RW- 24	26.50	25.95	0.0	0.0	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---	---
		RW- 25	26.25	24.93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
					26.0	20.0	25.0	27.0	21.0	26.0	18.0	18.0	20.0	22.0	25.0	13.7	0.0	5.7	13.7
					901.0	921.0	946.0	973.0	994.0	1020.0	1038.0	1056.0	1076.0	1098.0	1123.0	1136.7	1136.7	1142.4	1156.2

Notes:

--- = Unable to access due to ongoing Cooper Tank/bus company site operations or equipment blocking recovery well that could not be moved

NI - Not installed

RW-8 converted to a Gauging Well during 7/20/22 event

Table 3-4
Summary of Waste Management
Former Equity Works MGP Site, Brooklyn, New York

Date	Quantity Shipped (gallons)
2/6/2020	421
4/23/2020	472
6/24/2020	485
8/20/2020	501
10/7/2020	455
12/18/2020	560
3/10/2021	408
5/12/2021	474
7/12/2021	455
7/27/2021	535
9/15/2021	485
10/26/2021	545
1/10/2022	493
3/30/2022	377
6/1/2022	434
7/20/2022	443
8/31/2022	444
10/13/2022	452
12/7/2022	428
2/15/2023	406
5/10/2023	397
8/7/2023	436
11/6/2023	425
2/27/2024	468
4/9/2024	100
5/28/2024	385
8/6/2024	513
10/22/2024	463
12/30/2024	500
4/4/2025	550
7/10/2025	500
9/22/2025	465
12/24/2025	389
4/21/2026	430
7/29/2026	478

Figures



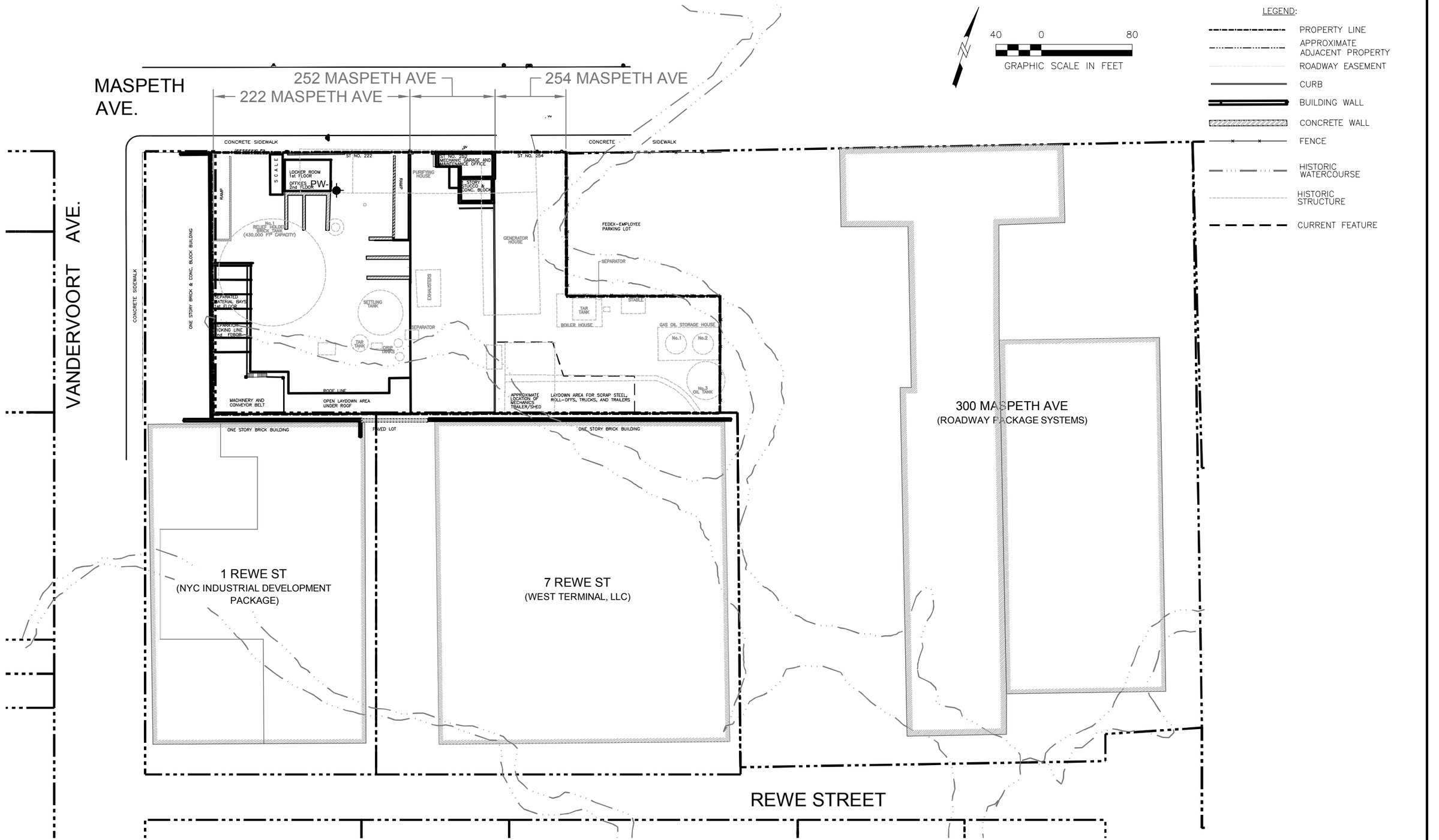
AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE,
BROOKLYN NY

SITE LOCATION

DATE: 12/2012	DRWN: BcV/C-MA			**FIGURE 1-1**

File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2012-IRM_PRODUCT-RECOVERY\WorkPlan_figures\60137362-660-A1.dwg Layout: Site LocUSGSphoto User: vershonb Plotte



AECOM

NATIONAL GRID FORMER EQUITY WORKS MGP SITE, BROOKLYN NY 60137362-400			SITE PROPERTIES
DATE: 12/2012	DRWN: BcV/C-MA		FIGURE 1-2

File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2012-IRM_PRODUCT-RECOVERY\WorkPlan_figures\60137362-660-A1.dwg Layout: Site Limits User: vershonb Plotted: Dec 1

252 MASPETH AVE

254 MASPETH AVE

222 MASPETH AVE

SB-30
NP

SB-100*
-20.7

SB-110
NP

HOLDER
BOTTOM
-12.71

SB-40
NP

RW-27 (I/DR)

RW-26

SB101-RW24

RW-28 (S/D)

RW-29 (S/D)

SB102-RW25

SB-104
-26.5

SB-9*
-26.96

SB-105*
-23.5

SB-10
-28.76

SB-109
NP

SB-19
NP

SB-107
-27.5

SB-108*
-20.6

SB-20/MW-8A,B,C
-32.69

SB-20J*
-24.2

SB-20G
-23.0

SB-29/MW-15B
-34.61

SB-14B/GW-1
-31.12

SB-106
-32.2

SB-5B/MW-5B
-33.11

SB-15
-30.09

SB-16B
-30.75

SB-11
-31.39

SB-16C
-31.06

SB-26/MW-12B,C
-29.06

SB-4C/MW-4C
-39.06

SB-17/MW-7B
-33.18

SB-18
-31.05

SB-22
-24.76

SB-44
-30.43

SB-41
-21.16

PDI-1
-35.37

RW-7
-32.7

RW-8
-32.7

PDI-2*
-30.55

RW-6*
-31.7

RW-1
-29.6

RW-9
-34.3

SB-3B/MW-3B
-35.88

RW-10*
-30.7

PDI-3
-33.05

RW-11*
-29.7

RW-12
-30.2

RW-13
-30.3

PDI-4*
-26.08

RW-14
-29

PDI-5
-30.35

RW-15
-28.7

RW-16
-33.3

RW-2
-35.2

RW-3
-34.3

RW-4
-33.6

RW-5*
-29.4

SB-21/MW-14B*
-28.47

PDI-8
-32.51

RW-17
-30.6

RW-23
-26

RW-22
-28

RW-21
-31.8

RW-20
-24

RW-19
-34.2

RW-18
-32.4

PDI-6*
-29.7

-30
-32
-34
-36
-38
-28
-26
-24
-22

LEGEND:

- PROPERTY LINE
- APPROXIMATE ADJACENT PROPERTY
- ROADWAY EASEMENT
- CURB
- BUILDING WALL
- CONCRETE WALL
- FENCE
- HISTORIC WATERCOURSE
- HISTORIC STRUCTURE
- CURRENT FEATURE
- SB-4 — RI SOIL BORING
- MW-1 — RI MONITORING WELL
- PDI-1 — PDI SOIL BORING
- RW-1 — **PILOT RECOVERY WELLS (BELOW HOLDER FOUNDATIONS)**
- RW-1 — SITE INTERIOR RECOVERY WELL
- RW-1 — SITE PERIMETER RECOVERY WELLS
- CLAY SURFACE ELEVATION CONTOUR (FT NAVD 88) DASHED WHERE INFERRED
- INTERPRETED LIMITS OF INTERMEDIATE CLAY UNIT
- -39.05 — OBSERVED CLAY ELEVATION (FT NAVD 88)
- * — ELEVATION NOT USED FOR CONTOURING
- SR — SHALLOW REFUSAL
- NP — INTERMEDIATE CLAY NOT PRESENT
- WALL FOOTER

20 0 40

GRAPHIC SCALE IN FEET

AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE, BROOKLYN NY

60137362-350

DATE: 07/25/22 | DRWN: PT

LOCATIONS OF ON-SITE AND PERIMETER RECOVERY WELLS

FIGURE 2-1

File: P:\Jobs\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2019\60137362-660_A5.dwg Layout: Layout1 User: Bourdeau Plotted: Sep 19, 2019 - 2:57pm



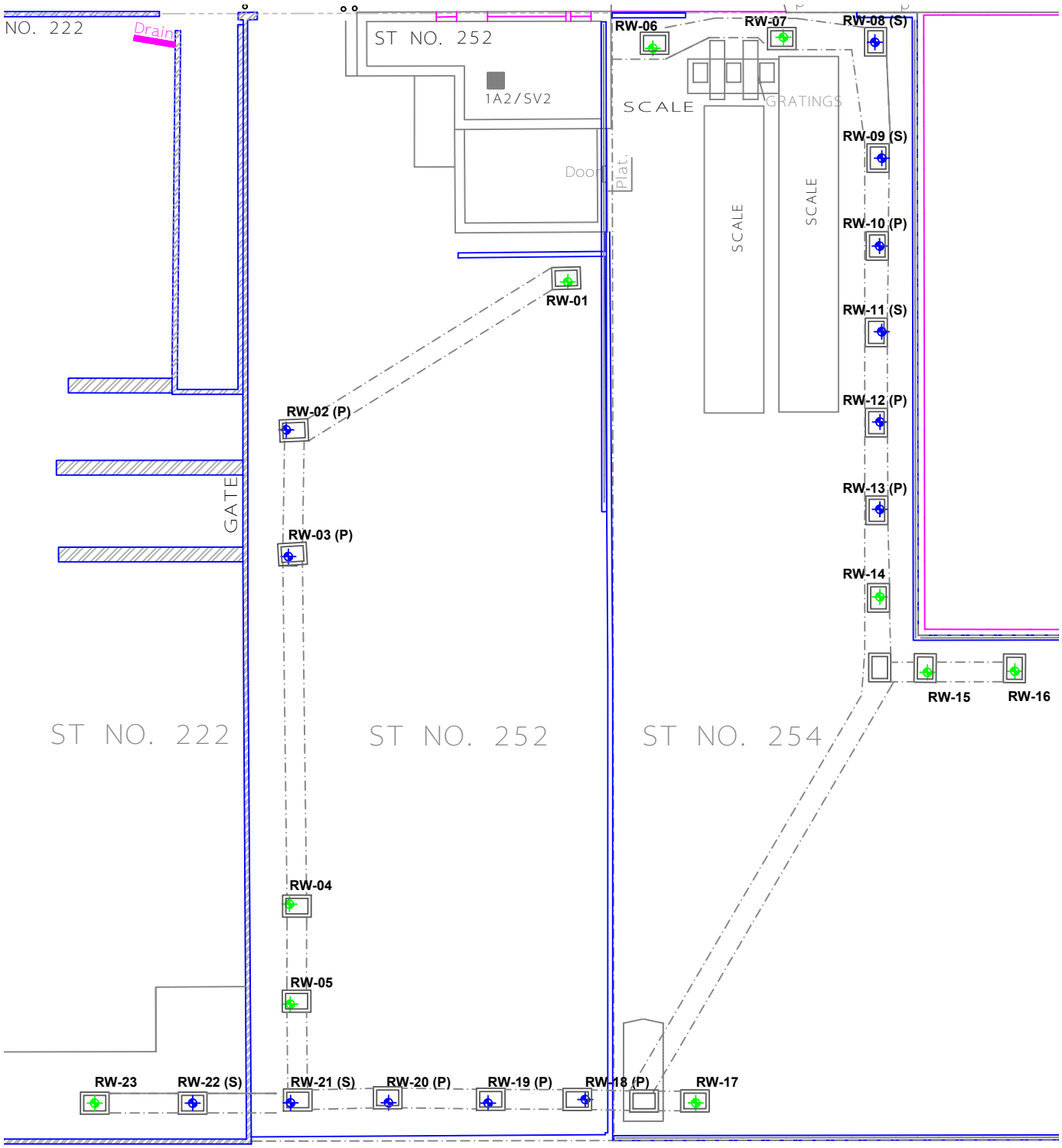


AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE,
BROOKLYN, NY
60137362.660

COMPLETED WELL LOCATION

FIGURE 2-2



LEGEND

RW-02 (P) AUTOMATED WELLS - PRIMARY (APPROX. COLLECTION RATE > 1 GPD)

RW-08 (S) AUTOMATED WELLS - SECONDARY (APPROX. COLLECTION RATE 0.5-0.1 GPD)

RW-01 GAUGING WELLS (APPROX. COLLECTION RATE < 0.1GPD)

15 0 30

GRAPHIC SCALE IN FEET

AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE,
BROOKLYN NY
60137362.660

LOCATION OF AUTOMATED WELLS

DATE: 10/30/2013 | DRWN: BcV/C-MA

FIGURE 2-3

File: J:\Rem_Eng\Project Files\National Grid\1765-076 Equity Former MGP\7.2 CADD & GIS\2013-PR Well Layout\60137362-668-PR Wells with Pumps.dwg Layout: PS (WorkProduct) User: clearym Plotted: Fe





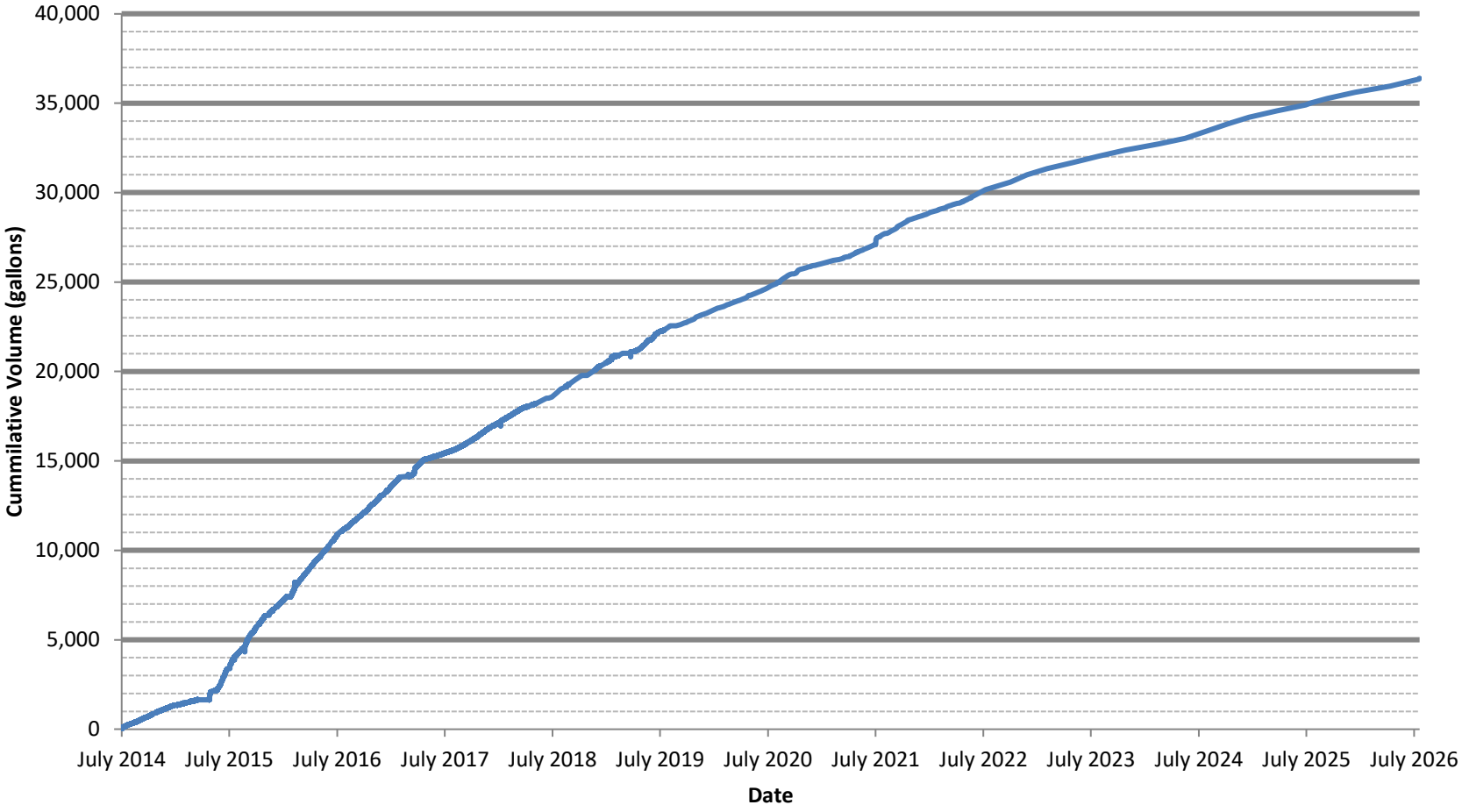
AECOM

NATIONAL GRID
FORMER EQUITY WORKS MGP SITE, BROOKLYN, NY
60137362.660

CONTROL TRAILER

FIGURE 2-4

Figure 3-1
Cumulative Volume of Mixed Fluids Collected
IRM for NAPL Recovery
Former Equity Works MGP Site



Note: Mixed Fluids are estimated to contain 60% NAPL

Figure 3-2
NAPL Thickness Versus Time - Gauging Wells
Former Equity Works MGP Site, Brooklyn, New York

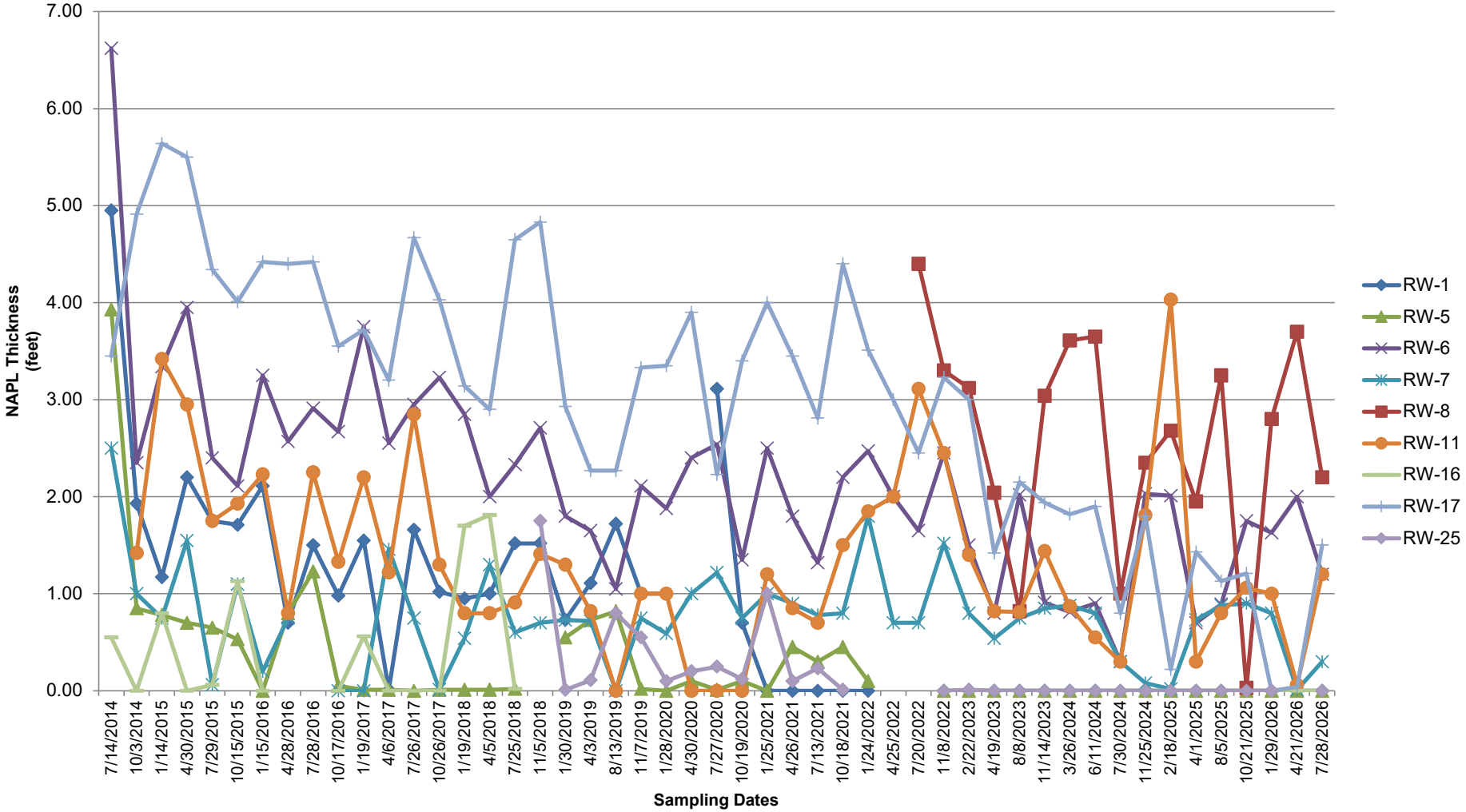


Figure 3-3
Cumulative Volume of Mixed Fluids Collected in Pilot Wells
Former Equity Works MGP Site, Brooklyn, New York

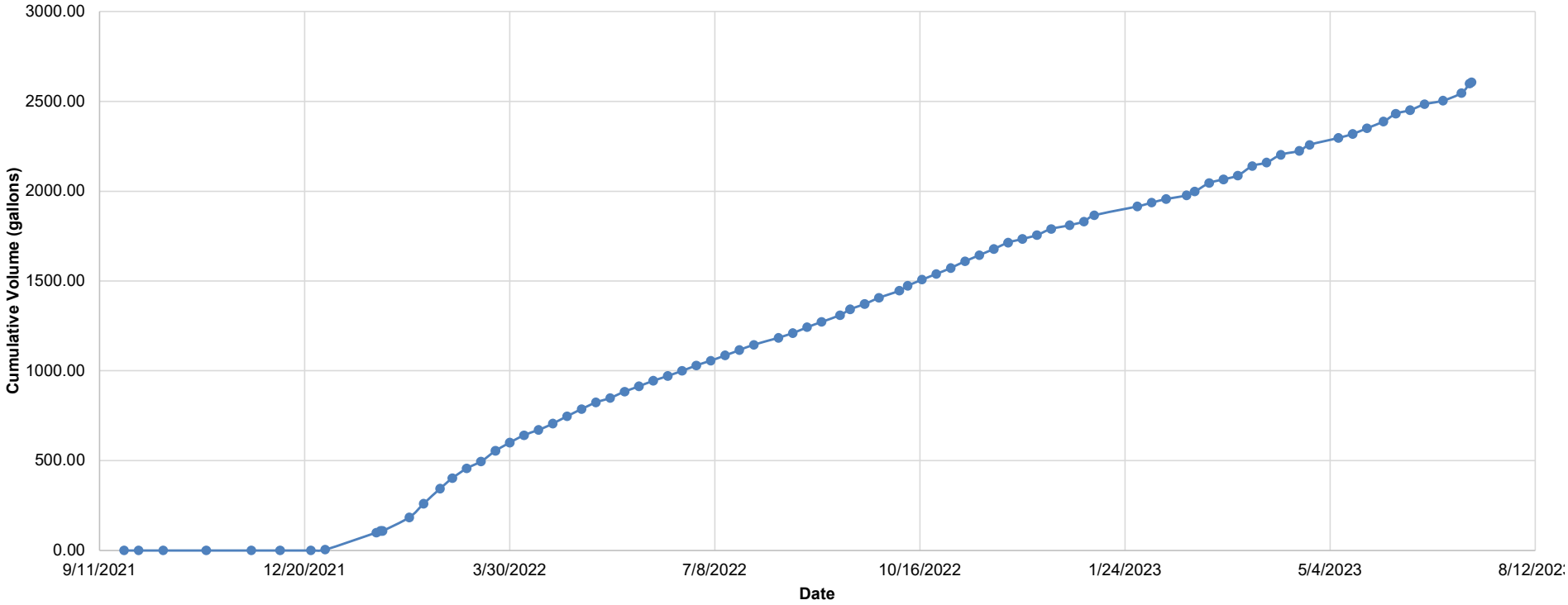
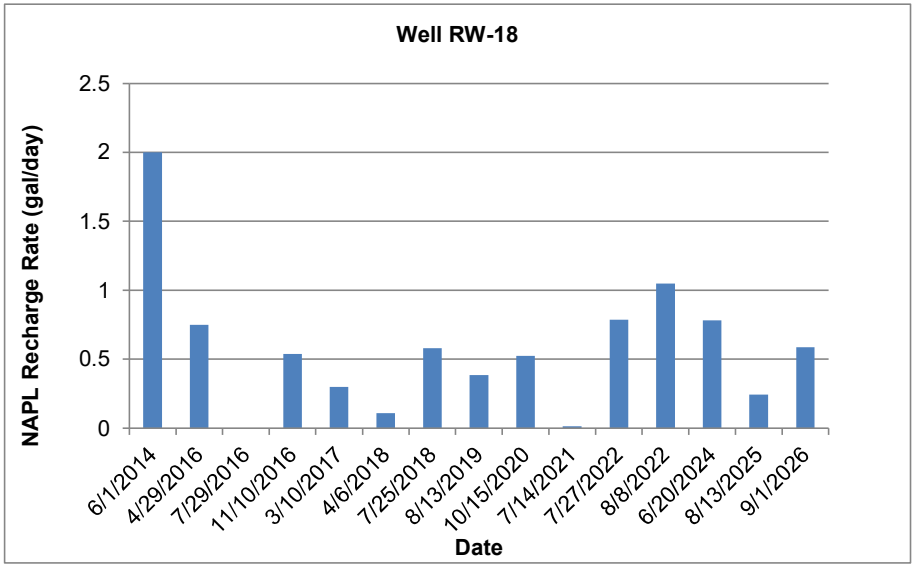
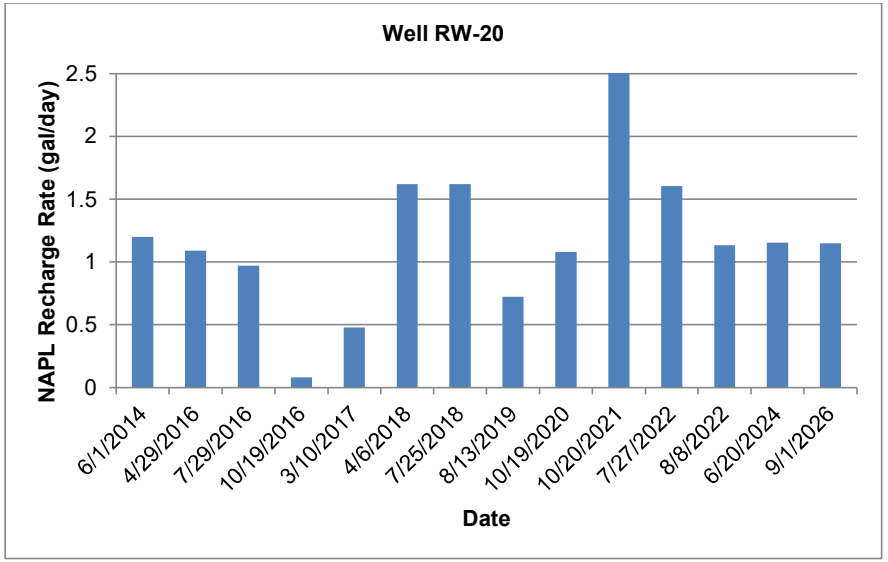
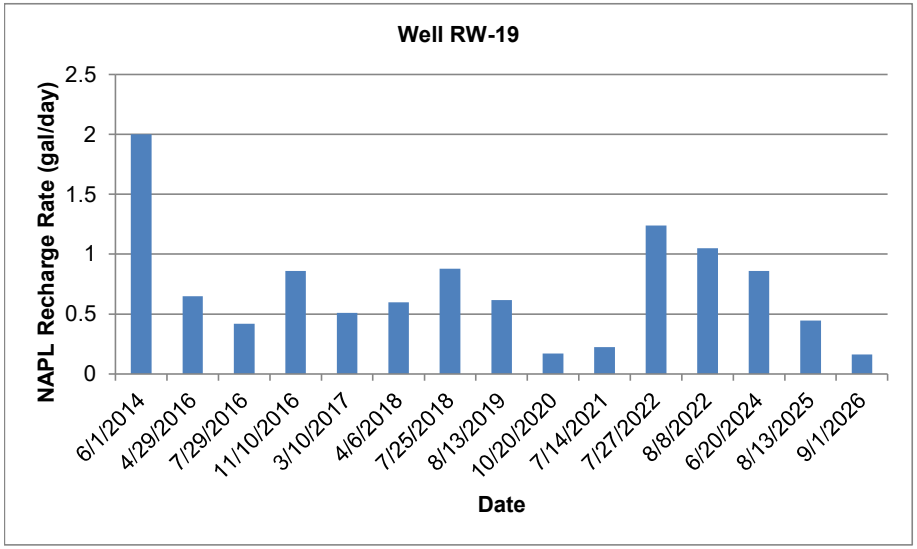


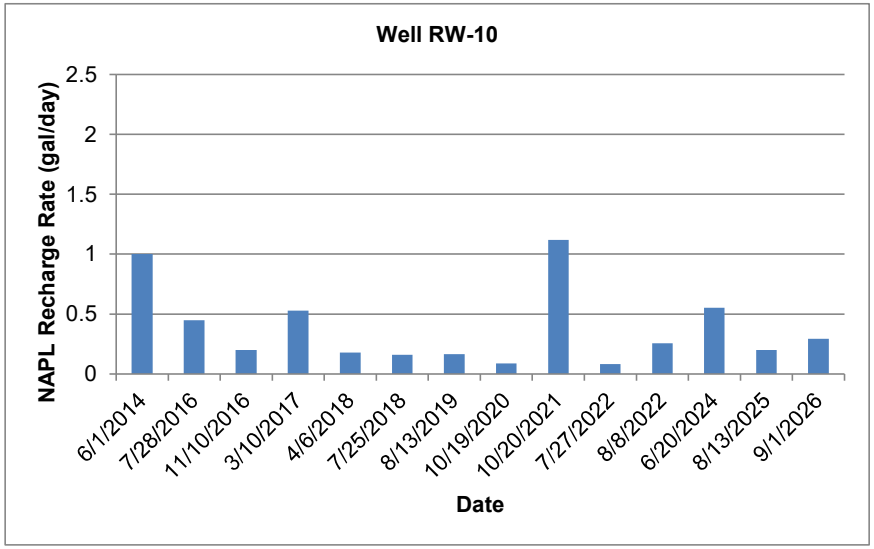
Figure 4-1
NAPL Recharge Rates Versus Time - Automated Wells
Former Equity Works MGP Site, Brooklyn, New York

AECOM









Appendix A Waste Disposal Documentation

259821

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000225615	1	(877) 818-0087	002245241 VES

GENERATOR

5. Generator's Name and Mailing Address
REBECCA STEFFENS
NATIONAL GRID - K-EQUITY WORKS
175 E OLD COUNTRY ROAD
HICKSVILLE, NY 11801
Generator's Phone: 516 545-2586

Generator's Site Address (if different than mailing address)
254 MASPETH AVE
BROOKLYN, NY 11211

6. Transporter 1 Company Name
VEOLIA ES TECHNICAL SOLUTIONS
U.S. EPA ID Number: NJD080631369

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
VEOLIA ES TECHNICAL SOLUTIONS
125 FACTORY LANE
MIDDLESEX, NJ 08846
Facility's Phone: 732 469-5100
U.S. EPA ID Number: NJD002454544

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ (D001,D018)	1	T T	Est. 400	G	D001 D018	B	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
ER Service Contracted by VESTS +- Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. +- 1) W:101578 A: MARBULK5
Truck: 102262 Plate: P1000703-IL Decal: 404530

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Raul Rosario for O.B.O. National Grid
Signature:
Month 9 Day 22 Year 25

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Raul Rosario
Signature:
Month 9 Day 22 Year 25

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual Weight on Weight Ticket

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: April Watkins
Signature:
Month 9 Day 22 Year 25

VEOLIA ES LAB CODING: "S" Codes

Piece Count: 1

BULK SHIPMENT - Single Generator

Page: 1 of 1 Received: **9/22/2025** Order Number: **WS 289821**

Bill To: **VEOLIA ES TECHNICAL SOLUTIONS, LLC (NJD080631369)** PO: **NY**

Broker: **VEOLIA ES TECHNICAL SOLUTIONS, LLC (NJD080631369)** Trailer Number: **102262**

Carrier: **VEOLIA ES TECHNICAL SOLUTIONS, LLC (NJD080631369)** Weigh Ticket: **216295**

DELIVERY TYPE: Customer delivery to Facility

All Bulk manifests need to reflect the actual received quantity by weight noted in Section 18 of the manifest.

NATIONAL GRID-EQUITY WORKS NYR000225615 (32409)

MANIFEST: 002245241VES

RESPIRATOR REQUIRED

100-32409-1 101578 WIP: 101578

One TT - 400.00 Gallons

400.00 Gallons	1.0000	S162 7122 Actual BC:MARFS (Profile:MARBULK5; MARCSWFUEL) 4120(net lbs) / 8.333 / 1.0640 SG = 465 Gls
Subtotals, for Manifest: 400.00	1.0000	
TOTAL, All Generators	**1.0000**	

290864

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR000225615
2. Page 1 of: 1
3. Emergency Response Phone: (877) 818-0087
4. Manifest Tracking Number: 002245167 VES

GENERATOR

5. Generator's Name and Mailing Address
REBECCA STEFFENS
NATIONAL GRID - K-EQUITY WORKS
175 E. OLD COUNTRY ROAD
HICKSVILLE, NY 11801
Generator's Phone: 516 545-2586

Generator's Site Address (if different than mailing address)
254 MASPETH AVE
BROOKLYN, NY 11211

6. Transporter 1 Company Name: VEOLIA ES TECHNICAL SOLUTIONS
U.S. EPA ID Number: NJD080631369

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
VEOLIA ES TECHNICAL SOLUTIONS
125 FACTORY LANE
MIDDLESEX, NJ 08846
Facility's Phone: 732 469-5100
U.S. EPA ID Number: NJD002454544

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ (D001,D018)	1	T T	EST 200	G	D001 D018	B	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
ER Service Contracted by VESTS +- Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf +- 1) W:101578 A: MARBULK5 WS#290864
WE 102259 Lic. Plate: P000706 ILL NJDEP- 50160 Decal 404527

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small ~~quantity~~ generator) is true.

Generator's/Offeror's Printed/Typed Name: On Behalf of National Grid
Signature:
Month: Dec Day: 24 Year: 25

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rodriguez Jr Francisco
Signature:
Month: Dec Day: 24 Year: 25

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual Weight on Weight Ticket

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Erin Lane
Signature:
Month: 12 Day: 24 Year: 25

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

VEOLIA ES TECHNICAL SOLUTIONS, LLC

Piece Count: 1

LAB CODING: "S" Codes
BULK SHIPMENT - Single Generator

Received: **12/24/2025**

Order Number: **WS 290864**

Bill To: **VEOLIA ES TECHNICAL SOLUTIONS, LLC (NJD080631369)**

PO: **NY**

Broker: **VEOLIA ES TECHNICAL SOLUTIONS, LLC (NJD080631369)**

Trailer Number: **102259**

Carrier: **VEOLIA ES TECHNICAL SOLUTIONS, LLC (NJD080631369)**

Weigh Ticket: **216763**

DELIVERY TYPE: Customer delivery to Facility

All Bulk manifests need to reflect the actual received quantity by weight noted in Section 18 of the manifest.

NATIONAL GRID-EQUITY WORKS NATIONAL GRID-EQUITY WORKS (32409)

Manifest: 002245167VES

RESPIRATOR REQUIRED

00100-32409-0001 101578 WIP: 101578

1 - TT 200.00 Gallons

200.00 Gallons 1.00 S162 7122

Actual BC:MARFS (Profile:MARBULK5; MARCSWFUEL)
3440 (Net Lbs) / 1.0600 (SG) / 8.333 = 389 Gals

Subtotals, for Manifest: **200.00** **1.00**

296163

Form Approved. OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000225615	1	(877) 818-0087	002245083 VES

GENERATOR

5. Generator's Name and Mailing Address
REBECCA STEFFENS
NATIONAL GRID - K-EQUITY WORKS
175 E. OLD COUNTRY ROAD
HICKSVILLE, NY 11801
Generator's Phone: 516 545 2586

Generator's Site Address (if different than mailing address)
254 MASPETH AVE
BROOKLYN, NY 11211

6. Transporter 1 Company Name
VEOLIA ES TECHNICAL SOLUTIONS
U.S. EPA ID Number: NJD080631369

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
VEOLIA ES TECHNICAL SOLUTIONS
125 FACTORY LANE
MIDDLESEX, NJ 08846
U.S. EPA ID Number: NJD002454544
Facility's Phone: 732 469-5100

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ (D001,D018)	1	T T	600	G	D001 D018	B	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
ER Service Contracted by VESTS +- Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. +- 1) W:101578 A: MARBULK5 WS# 296163
Truck # 102260, Plate, 4800707, DEP 006929

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Anthony Gilmen
Signature:
Month: 04 Day: 21 Year: 26

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Stephen Kennedy
Signature:
Month: 4 Day: 21 Year: 26

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual Weight on Weight Ticket

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Erin Lane
Signature:
Month: 4 Day: 21 Year: 26

VEOLIA ES LAB CODING: "S" Codes Piece Count: 1

BULK SHIPMENT - Single Generator

Page: 1 of 1 Received: **4/21/2026** Order Number: **WS 296163**

Bill To: **VEOLIA ES TECHNICAL SOLUTIONS, LLC (NJD080631369)** PO: **NY**

Broker: **VEOLIA ES TECHNICAL SOLUTIONS, LLC (NJD080631369)** Trailer Number: **102260**

Carrier: **VEOLIA ES TECHNICAL SOLUTIONS, LLC (NJD080631369)** Weigh Ticket: **217212**

DELIVERY TYPE: Facility pickup, OWN transporter

All Bulk manifests need to reflect the actual received quantity by weight noted in Section 18 of the manifest.

NATIONAL GRID-EQUITY WORKS NYR000225615 (32409)

MANIFEST: 002245083VES

RESPIRATOR REQUIRED

100-32409-1 101578 WIP: 101578

One TT - 600.00 Gallons

	600.00 Gallons	1.0000	S162 7122 Actual BC:MARFS (Profile:MARBULK5; MARCSWFUEL) 3820(net lbs) / 8.333 / 1.0670 SG = 430 Gls
Subtotals, for Manifest:	600.00	1.0000	
TOTAL, All Generators		1.0000	

Printed: **4/23/2026**

297403

Form Approved. OMB No. 2050-0039

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR000225615	1	(877) 818-0087	002245014 VES

GENERATOR

5. Generator's Name and Mailing Address
REBECCA STEFFENS
NATIONAL GRID - K-EQUITY WORKS
175 E. OLD COUNTRY ROAD
HICKSVILLE, NY 11801
Generator's Phone: 516 545-2586

Generator's Site Address (if different than mailing address)
254 MASPETH AVE
BROOKLYN, NY 11211

6. Transporter 1 Company Name
VEOLIA ES TECHNICAL SOLUTIONS
U.S. EPA ID Number: NJD080631369

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
VEOLIA ES TECHNICAL SOLUTIONS
125 FACTORY LANE
MIDDLESEX, NJ 08846
U.S. EPA ID Number: NJD002454544
Facility's Phone: 732 469-5100

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ (D001,D018)	1	T T	550.	G	D001 D018	B	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
ER Service Contracted by VESTS + Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + 1) W:101578 A: MARBULK5 WS# 297403
TRUCK # 102257 PLATE # PL0007Q - IL. DECAL # 404529

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: OBO - NATIONAL GRID HELMER COLOCHO
Signature:
Month 07 Day 29 Year 26

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: HELMER COLOCHO
Signature:
Month 07 Day 29 Year 26

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
ACTUAL WEIGHT 478 GALLONS
Manifest Reference Number:

18b. Alternate Facility (or Generator)
ACTUAL WEIGHT.
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H061			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: David Solecki
Signature:
Month 7 Day 29 Year 26

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

VEOLIA ES TECHNICAL SOLUTIONS, LLC

Piece Count: **1**

LAB CODING: "S" Codes

BULK SHIPMENT - Single Generator

Received: **07/29/2026**

Order Number: **WS 297403**

Bill To: **VEOLIA ES TECHNICAL SOLUTIONS, LLC (NJD080631369)**

PO: **NY**

Broker: **VEOLIA ES TECHNICAL SOLUTIONS, LLC (NJD080631369)**

Trailer Number: **102257**

Carrier: **VEOLIA ES TECHNICAL SOLUTIONS, LLC (NJD080631369)**

Weigh Ticket: **217648**

DELIVERY TYPE: Facility pickup. OWN transporter

All Bulk manifests need to reflect the actual received quantity by weight noted in Section 18 of the manifest.

NATIONAL GRID-EQUITY WORKS NATIONAL GRID-EQUITY WORKS (32409)

Manifest: 002245014VES

00100-32409-0001 101578 WIP: 101578

1 - TT 550.00 Gallons

550.00 Gallons 1.00 S162 7122 Actual BC:MARFS (Profile:MARBULK5; MARCSWFUEL)
4320 (Net Lbs) / 1.0850 (SG) / 8.333 = 478 Gals

Subtotals, for Manifest: **550.00** **1.00**