

Third Annual Interim Remedial Measure for NAPL Recovery

August 2016 Through July 2017 Former Equity Works MGP Site, Brooklyn, New York

NYSDEC Site No.: 224050

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National Grid

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Quality information

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Executive Summary

National Grid's consultant, AECOM, has prepared this Interim Remedial Measure (IRM) Annual Report to document the third year of operation of the non-aqueous phase liquid (NAPL) recovery system within the footprint of the former Equity Manufactured Gas Plant (MGP) site (the Site) located at 254 Maspeth Avenue in Brooklyn, New York during the period of August 2016 through July 2017. The IRM 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). Details regarding the construction of the NAPL recovery IRM remedy are included in the IRM for NAPL Recovery Construction Completion Report (CCR), submitted to the NYSDEC in May 2015 (AECOM, 2015).

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 is used by Cooper Tank as a solid waste recycling facility, with the 252 and 254 parcels used to support Cooper Tank's recycling operations.

The IRM activities included the following:

- installation of 5 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.
- on-going measurement and recovery of NAPL that collects in the recovery wells.

Data collected to date indicate that NAPL collection rates at 12 of the 23 recovery well locations (2 on-site and 10 perimeter) 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 11 wells are managed using manual recovery techniques on a quarterly basis.

Since system startup through July 28, 2017, the system has operated with an average on-line factor of 93% without incidents or unplanned releases from the system. Approximately 15,544 gallons of mixed fluids have been collected from the 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 organic/water ratios over the monitoring period indicates that the mixed fluids collected typically contain 60 to 75% organic, resulting in over 9,300 gallons of NAPL being removed from the site to date.

1. Introduction

National Grid's consultant, AECOM, is submitting this 3rd Annual Report outlining the Interim Remedial Measure (IRM) for NAPL Recovery progress during its third year of operation. The 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. The location of the Site and the orientation of the individual properties are illustrated in Figures 1-1 and 1-2, respectively.

The IRM is being 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, and the New York State Department of Environmental Conservation (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 initial installation and operation of the recovery wells is presented in Section 2; the results from the third 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 conducted the IRM to collect recoverable NAPL while site-wide investigation and remedial alternative and design activities are completed. The design of the NAPL recovery system included the installation of 23 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-5 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.

Recovery well locations are shown on 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 has required spacing of approximately 30 feet between the three recovery wells (RW-6, -7 and -8). All 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) have 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. 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). Each recovery well was 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.

2.2 Initial Monitoring and NAPL Recovery

The NAPL recovery system is intended to operate in a manner that contains the NAPL levels at the locations within the well sumps (5 ft. in length). 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 (produce approximately 1 gallon 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) not be exceeded. This frequency of monitoring/collection was not thought to be cost-effective or practical

given site access issues and the level of activity on the Cooper Tank facility. 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

Fifteen percent of the NAPL was collected from five secondary wells. The manual management of NAPL at these locations would require that recovery activities be conducted on a monthly basis to ensure that the storage capacity of the well sumps is not exceeded. Long-term manual monitoring/ recovery at this frequency was not thought to be 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 10 remaining wells were consistently observed to be within the wells sumps at each location. It was believed 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 11 wells.

2.3 System Operation

Discussions of the recovery/collection methods more 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 Pump Works and/or Linear Pumps. Note that the equipment designed by Linear Pumps has been determined to be better suited to site conditions and will be used to replace the Pump Works equipment over time. 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 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 5 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 organic/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 observed until the fluid being removed appears to be clear (i.e., NAPL is no longer being removed). At that point, the air flow is discontinued and 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.

3. System Performance

The following discussion provides summaries of NAPL recovery and waste management observations during the third year of system operation (August 2016 to July 2017), as well as a discussion of the associated maintenance and response activities.

3.1 NAPL Recovery

Monitoring and recovery activities were conducted on an approximate quarterly basis through the year. 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 three 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 that can challenge the ability to continually maintain a matching pumping rate. Pump duration adjustments are made on an on-going basis when data indicate NAPL thickness is near or above the sump level in the recovery wells.

Approximately 4,414 gallons of mixed fluids were collected from the system during the third year of operation. An illustration of the cumulative volume of mixed fluids collected over time is provided in Figure 3-1. From startup through July 2017, approximately 15,544 gallons of mixed fluids have been removed by the system based on readings from the level sensor in the recovery tank. Note that the estimates of total recovered volume presented in Table 3-1 (16,263 gallons of mixed fluids based on manifest quantities) vary slightly from the "tank" estimate due to the variability over time between the level sensor readings and the "in truck" volumes recorded by the waste hauling company. In the past, observation of the relative proportions of organic/water have been highly variable; however, the use of the standardized protocol presented in the Year 2 Report has provided more consistent results. During Year 3 operations, the observed NAPL to water ratio of collected mixed fluids was closer to 75:25. A conservative estimate of the organic/water ratios since system startup indicates that the collected material likely contained over 9,300 gallons of NAPL

3.1.2 Gauging Wells

The 2015-2017 data from the gauging wells is presented in Table 3-2. As indicated, manual recovery on a quarterly basis is appropriate to maintain DNAPL levels within the sumps. During Year 3 operations, approximately 100 gallons of mixed fluids were recovered from the 11 gauging wells.

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

3.2 Waste Management

The collected NAPL was managed as an alternative fuel at the Tradebe Facility in Cohoes, New York until March of 2017 and more recently at Veolia Technical Solutions Facility in Middlesex, New Jersey. A summary of the waste shipments and associated quantities from both the automated and gauging wells is presented in Table 3-3.

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". Shipments after February 5, 2016 during Year 2 operations were

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 3 operations are provided in Appendix A.

3.3 System Maintenance

There were no significant maintenance issues with the system during the monitoring period. The following maintenance activities were accomplished during the third year of operation:

- Periodic cleaning of the system trailer to remove wood dust generated by Cooper Tank recycling operations.
- Replacement of the pump to tubing connection fittings at RW-3 and at RW-9.

During the current reporting period, the system was on-line 332 days out of a total of 361 days of operation. This reflects an on-line factor of 92%, which is consistent with prior years of operation. The 29 days off-line (from 02/12/17 to 03/10/17) occurred when the tank was at capacity and the system was shut down to accommodate a change in waste hauler from ESA to Veolia.

Access to RW-3 continues to require support from the property owner to access the well. Since the final grade on the 252 Parcel has not been established and the anticipated paving of the 252 parcel by Cooper Tank has been delayed, the top of the vault for RW-3 continues to be exposed to excessive wear/damage from Cooper Tank operations. A temporary solution has involved temporary grading of the area around the vault and the replacement of the vault lid with steel road plate. Routine access to gauge the NAPL level has not been possible.

3.4 Incidents/Unplanned Releases

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

4. Recommendations for Future Operation

Additional evaluations of recharge rates and the composition of mixed fluids will be conducted to determine if it will be practical to refine the operation of the system, e.g. transition automated wells to gauging wells, over time.

- Recharge Rates Starting in June 2014, and continued during various quarterly gauging events, a pilot program was initiated to evaluate the recharge rates for select wells. During the evaluation, NAPL was removed from the well and NAPL thicknesses were monitored periodically over the next 24 hours, with results reported in gallons/day. The results for three wells located along the southern edge of the 252 Maspeth Avenue parcel (RW-18, -19 and -20) and one well along the eastern edge of the 254 Maspeth Avenue parcel (RW-10) are summarized in Figure 4-1. As illustrated, NAPL recharge rates are decreasing over time, with expected variability. This evaluation will be continued at these wells and additional wells during Year 4 operations.
- Recovery Well Redevelopment Evaluation National Grid will continue to evaluate the possibility that the decreasing recharge rates (above) could be associated with "fouling" of the well screens. During Year 3, National Grid conducted a recharge evaluation during the month-long shutdown of the system in February and March 2017 (Section 3.3). The results are illustrated on Figure 4-2. In summary, significant NAPL recharge was noted in all wells monitored during the March 10, 2017 gauging event following a one-month temporary system shutdown indicating that recovery well screen fouling is not currently an issue. Frequently, the NAPL thickness in March 2017 returned to levels close to those observed prior to the startup of the system in 2014. Following tank pump-out and re-initiation of NAPL recovery, the levels dropped as expected as shown on the April 2017 data presented on Figure 4-2.

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 modifications to the operation of the system are required.

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Tables

Project number: 601637362

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

Primary Recovery Wells (collection rate < 1 gpd)

Well	Loca	tion
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	Loca	tion		
RW-8	254 Parcel	perimeter		
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	Loca	tion
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-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

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

	Locatio	on							NAPL	Thickness (f	t)			
	Parcel	Well ID	1 46.00 45.73 8 2 46.00 45.48 13 3 46.00 45.53 12 3 50.00 47.50 10 9 52.00 50.18 12 0 52.00 50.75 11	7/29/2015	10/15/2015	1/15/2016	4/28/2016	7/28/2016	10/17/2016	1/19/2017	4/6/2017	7/26/2017		
On-Site	252	RW- 2	51.00	49.70	12	0.06	5.43	8.98	0.55	3.42	0.20	3.33	0.01	6.05
On-one	232	RW- 3	51.00	50.40	14	0.63	4.72	11.74	1.25	3.06	0.50	9.20	6.02	12.04
		RW- 8	48.00	46.72	3	0.06	0.15	1.89	0.98	0.10	2.41	3.63	2.05	0.01
		RW- 9	50.00	48.87	6	0.06	1.73	7.32	13.50	7.78	0.10	4.92	6.30	12.30
	254	RW- 10	46.00	45.30	11	0.06	6.25	11.44	3.03	0.20	0.05	6.32	6.60	0.95
	254	RW- 11	46.00	45.73	8									
		RW- 12	46.00	45.48	13	4.01	2.65	10.45	10.60	2.25	10.11	1.20	0.01	2.85
Perimeter		RW- 13	46.00	45.53	12	0.06	0.35	10.51	6.01	0.1	8.08	5.53	6.2	0.01
		RW- 18	50.00	47.50	10	8.80	0.10	trace	0.10	0.10	0.05	0.01	0.01	0.01
	252	RW- 19	52.00	50.18	12	0.06	0.1	7.71	0.15	2.72	0.05	5.56	0.01	6.2
	202	RW- 20	52.00	50.75	11	9.01	1.8	2.0	1.4	2.2	1.9	2.0	0.0	2.1
		RW- 21	50.00	49.80	5	0.06	0.1	trace	8.65	0.1	5.97	0.01	0	0
	222	RW- 22	46.00	42.95	8	1.88	8.34	0.57	0	0.1	0.1	0.01	1.51	0.01
	Recovered Gallons (cumulative from system startup					4215	5539	7156	9277	11477	12531	14071	15277	16263
				Av	erage Gallons per Day	11.1	12.1	13.1	14.3	15.5	15.3	15.4	15.4	14.8

Notes:

Bold Primary Recovery Wells

--- Pump from RW-11 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

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

	Location Depth of Well (ft.) Typical Pre-Reco													Mixed Fluids Quantity Recovered (gal.)									
	Parcel	Well ID	Design	Measured	NAPL Thickness (ft.)	7/29/2015	10/15/2015	1/15/2016	4/28/2016	7/28/2016	10/17/2016	1/19/2017	4/6/2017	7/26/2017	7/29/2015	10/15/2015	1/15/2016	4/28/2016	7/28/2016	10/17/2016	1/19/2017	4/6/2017	7/26/2017
		RW- 1	45.00	43.35	3	1.75	1.71	2.11	0.70	1.50	0.98	1.55	0.01	1.66	4.0	4.0	8.0	3.0	5.0	5.0	5.0	0.0	5.0
On-Site	252	RW- 4	51.00	49.91	trace	5.22	1.00	trace	trace	trace	0.05	0.01	0.01	0.06	10.0		0.0	0.0	0.0	0.0	0.0	0.0	4.0
		RW- 5	47.00	44.45	2	0.65	0.53	trace	0.80	1.23	0.05	0.01	0.01	0.00	2.0	3.0	0.0	3.0	5.0	0.0	0.0	0.0	0.0
		RW- 6	47.00	45.72	3	2.40	2.11	3.25	2.57	2.91	2.67	3.75	2.55	2.95	5.0	4.0	6.0	7.0	7.0	7.0	7.0	7.0	7.0
		RW- 7	48.00	46.05	1	0.06	1.10	0.20	0.25				1.46	0.75	0.0	3.0	0.0	4.0				0.0	3.0
		RW- 11	46.00	45.73	4	1.75	1.93	2.23	0.80	2.25	1.33	2.20	1.22	2.85	4.0	6.0	5.0	2.0	6.0	3.5	5.0	3.5	4.0
Perimeter	254	RW- 14	45.00	45.13	trace	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
i emineter		RW- 15	45.00	43.72	trace	0.00	0.0	0.0		trace	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0
		RW- 16	50.00	49.72	1	0.06	1.13	trace				0.56	0.0	0.0	0.0	4.0	0.0				0.0	0.0	0.0
		RW- 17	48.00	49.60	6	4.34	4.01	4.42	4.40	4.42	3.55	3.72	3.20	4.67	8.0	8.0	8.0	12.0	10.0	6.0	12.0	7.0	9.0
	222	RW- 23	44.00	41.69	2	0.87	0.94	trace					0.01	0.01	0.0	0.0	0.0					0.0	0.0
·	·				·					·	·			Total	33.0	32.0	27.0	31.0	33.0	21.5	29.0	17.5	32.0
												Cumulative	from Syst	em Startup	160.0	192.0	219.0	250.0	283.0	304.5	333.5	351.0	383.0

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

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

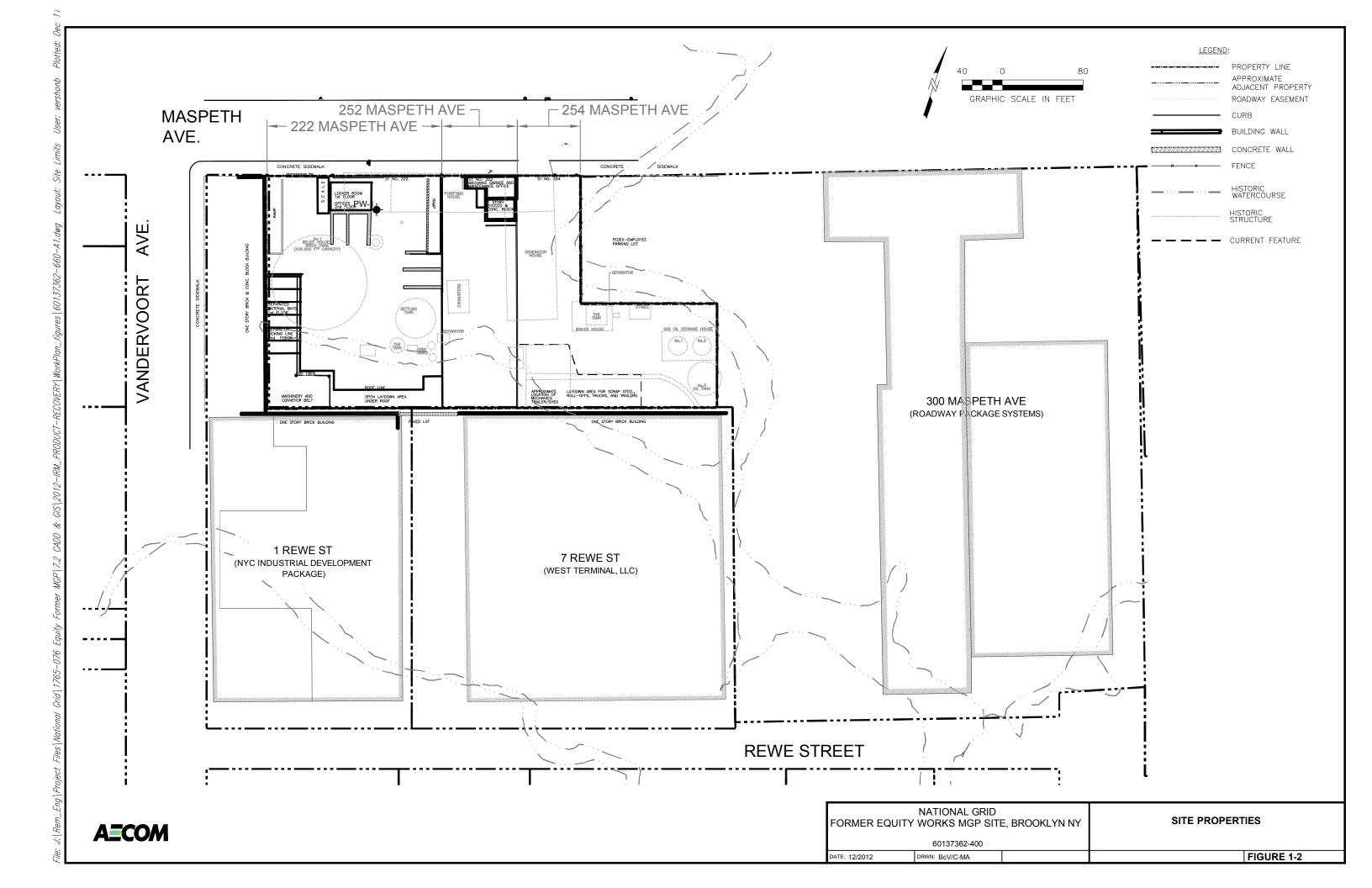
Table 3-3
Summary of Waste Management
Former Equity Works MGP Site, Brooklyn, New York

Date	Quantity Shipped (gallons)
6/8/2015	466
6/24/2015	490
7/9/2015	550
7/24/2015	437
8/17/2015	493
9/10/2015	335
9/29/2015	496
10/22/2015	617
11/18/2015	550
12/22/2015	450
2/5/2016	581
2/19/2016	545
3/11/2016	462
4/5/2016	533
5/2/2016	540
5/31/2016	625
6/27/2016	495
7/25/2016	540
9/1/2016	540
10/6/2016	514
11/10/2016	550
12/14/2016	500
1/12/2017	490
3/10/2017	553
4/6/2017	653
5/22/2017	520
7/28/2017	466

Note: Shipments prior to June 2015 not included on table.

Figures

Project number: 601637362





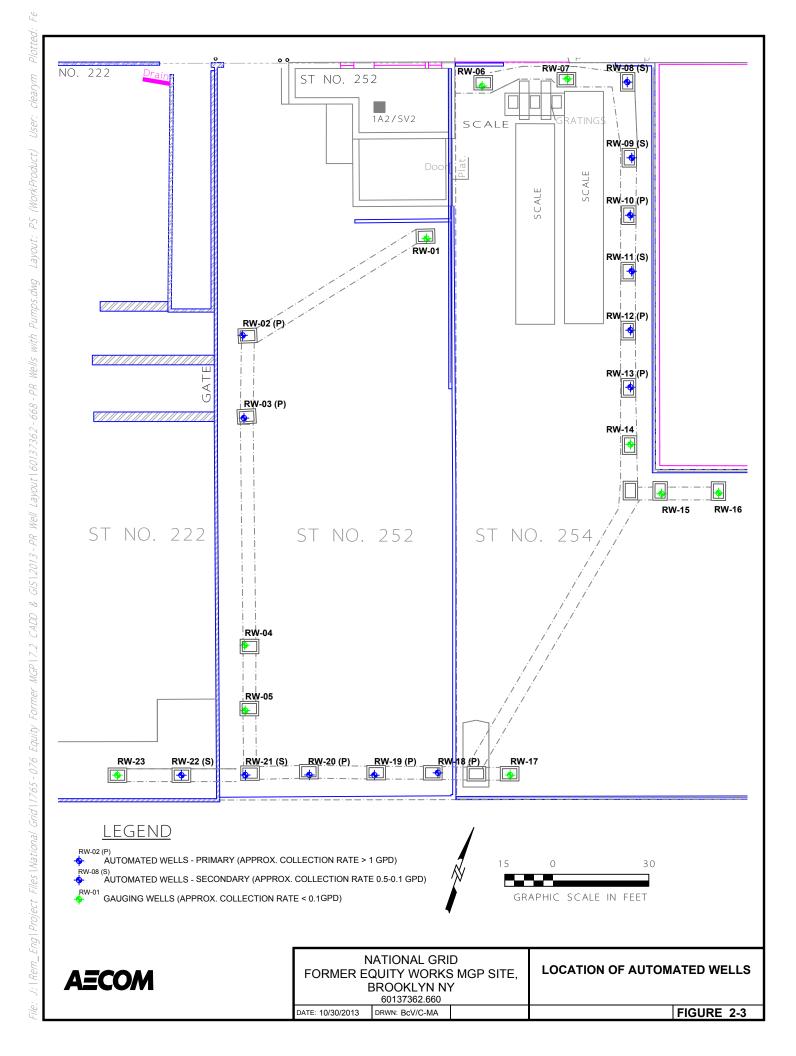


AECOM

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

COMPLETED WELL LOCATION

Figure 2-2



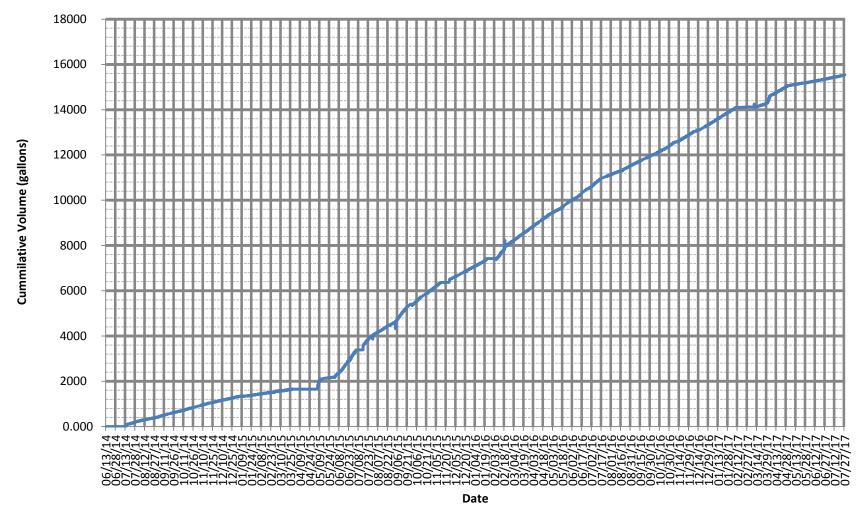


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NATIONAL GRID FORMER EQUITY WORKS MGP SITE, BROOKLYN, NY 60137362.660

CONTROL TRAILER

Figure 2-4

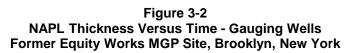


Note: Mixed Fluids are estimated to contain 60% NAPL



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

Cumulative Volume of Mixed Fluids Collected IRM for NAPL Recovery



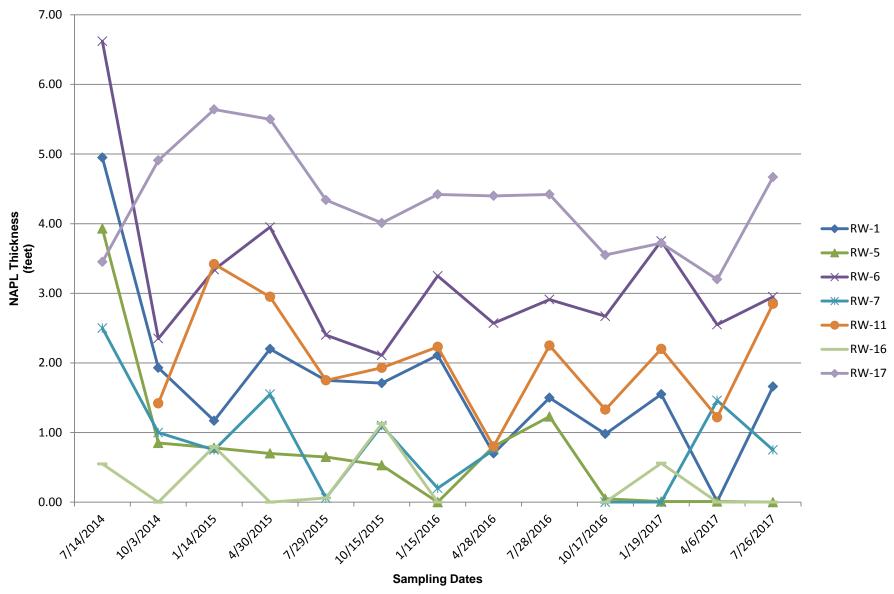
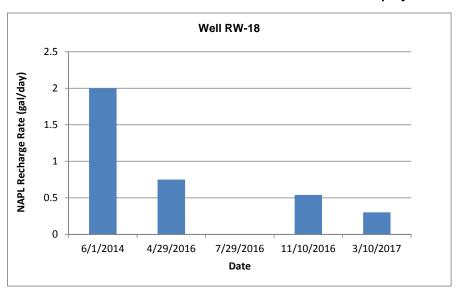
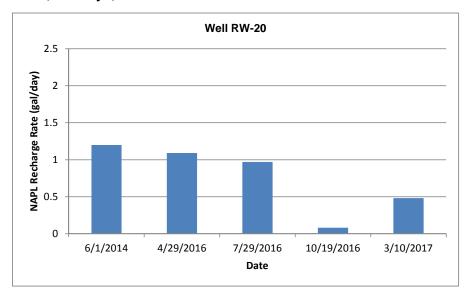
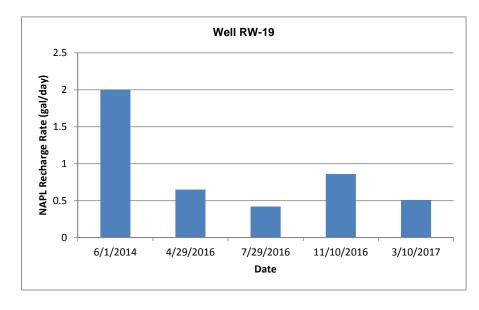


Figure 4-1
NAPL Recharge Rates Versus Time - Automated Wells
Former Equity Works MGP Site, Brooklyn, New York







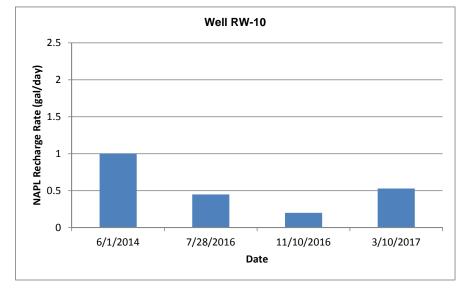
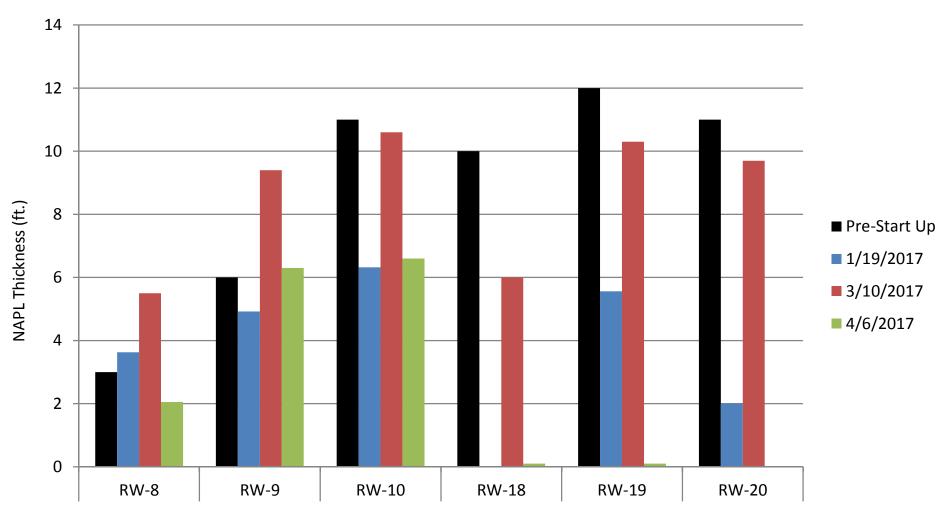


Figure 4-2
NAPL Recharge During Temporary System Shutdown
Former Equity Works MGP Site, Brooklyn, New York



Notes:

Data from 1/19/2017 collected during system operation before temporary system shutdown from 2/12/17 to 3/10/17 Data From 3/10/2017 collected just prior to system startup after temporary shutdown

Data from 4/6/2017 collected during normal system operation

Appendix A Waste Disposal Documentation

Project number: 601637362

Form Approved, OMB No. 2050-0039

<u> </u>	LINIE	ORM HAZARDOUS	1. Generator ID N	umber		2. Page 1 of	3. Emerg	ency Response 8738723	Phone	4. Manifest	Tracking No	umber	LIV
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\parallel	7. Tra	nsporter 2 Company Nam	e	Ī						U.S. EPAID N	lumber		
		ADEBE TAR OF		ORT, LLC						CTD00	lumber 259388	B7	
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EP.	4 Form	8700-22 (Rev. 3-05)		s are obsolete.			DEGIC	NATED F	CII ITV	TO DESTI	ATION	STATE (IF	REQUIRED)



value. The aqueous phase was treated by ultrafiltration, chemical precipitation and carbon number 0/5/9424/1/2 were received at Tradebe Treatment and Recycling of Bridgeport LLC. petroleum and/or solid phase were blended with other materials and burned for its thermal The materials were treated at our facility at 50 Cross Street, Bridgeport Connecticut. The This is to certify that materials from 1884 Med 2 Soid on hazardous waste manifest absorption.

(203) 238- 6745. Thank you for choosing Tradebe Treatment and Recycling of Bridgeport LLC If you have any questions or would like to visit our facility, please feel free to contact us at for your treatment and recovery needs.

Mike Davia

Facility Manager Mike Davia

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	11	90230300 015980361JJK 1300653							
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		LDGEPORT,CT 06610 (203)334-166	56				,		
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П		marked and labeled/placarded, and are in all respects in proper condition for transport accord Exporter, I certify that the contents of this consignment conform to the terms of the attached E	PA Acknowled	iment of Consent			s. II export si	PRINCIPLE SHOT SHA SHOT I THE	,
		I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large of	juantity general	or) or (b)-(q) am a sm	all quantity ge	nerator) is true.		Month Day	Year
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value. The aqueous phase was treated by ultrafiltration, chemical precipitation and carbon number <u>0159986/11/</u>were received at Tradebe Treatment and Recycling of Bridgeport LLC. petroleum and/or solid phase were blended with other materials and burned for its thermal The materials were treated at our facility at 50 Cross Street, Bridgeport Connecticut. The Baskleye this is to certify that materials from box Nat 2 Ged Non hazardous waste manifest absorption. If you have any questions or would like to visit our facility, please feel free to contact us at (203) 238- 6745. Thank you for choosing Tradebe Treatment and Recycling of Bridgeport LLC for your treatment and recovery needs.

Mike Davia

Facility Manager Mike Davia





90239122 015981517JJK 1328844

)	<u>[]</u>								MB No. 2050-0039
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This is to certify that materials from Materials from Materials on hazardous waste manifest absorption. value. The aqueous phase was treated by ultrafiltration, chemical precipitation and carbon petroleum and/or solid phase were blended with other materials and burned for its thermal number 1/5 1915 1920 were received at Tradebe Treatment and Recycling of Bridgeport LLC. The materials were treated at our facility at 50 Cross Street, Bridgeport Connecticut. The

for your treatment and recovery needs If you have any questions or would like to visit our facility, please feel free to contact us at (203) 238-6745. Thank you for choosing Tradebe Treatment and Recycling of Bridgeport LLC

11-11-16

Date

Mike Davia

Mike Davia Facility Manager



	<u> </u>			4. Manifest Tracking Nur	Approved, OMB No. 2050-0039
†	UNIFORM HAZARDOUS 1. Generator 10 Numb	2. Page 1 of 1	3, Emergency Response Phone 8448738723	00893	3064 JJK
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$\ $	TRADERE TRANSPORTATION	,LC		U.S. EPAID Number	
	7. Transporter 2 Company Name			U.S. EPA ID Number	
	8. Designated Facility Name and Site Address TRADEBETER OF BRIDGEPO	RT, LLC		CTD00259385	\$7
	50 CROSS STREET BRIDGEPORT,CT 06610 Fadity's Phone:	(203)334-1666		I	N
	go 9b. U.S. DOT Description (including Proper Sh	hipping Name, Hazard Class, ID Number,	10. Containers	11. Total 12. Unit Quantity WL/Vol.	13. Waste Codes
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	14. Special Handling Instructions and Additional Inform	mation: 1355132			
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	marked and labeled/placarded, and are in all rej	: I hereby declare that the contents of this consignment as pects in proper condition for transport according to applies ment conform to the terms of the attached EPA Acknowle entified in 40 CFR 262.27(a) (If I am a large quantity general	adoment of Consent.	INTER LEGISLATION OF A CAPACITATION	pment and I am the Primary
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li	20. Designated Facility Owner or Operator: Certificat	on of receipt of hazardous materials covered by the manif	ifest except as noted in item 18a		Month Day Very
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	PA Form 8700-22 (Rev. 3-05) Previous editions a		DESIGNATED FACILITY	O DESTINATION	STATE (IF REQUIRED)



sertificate of Disposal

number 179933164 Were received at Tradebe Treatment and Recycling of Bridgeport LLC. absorption. value. The aqueous phase was treated by ultrafiltration, chemical precipitation and carbon petroleum and/or solid phase were blended with other materials and burned for its thermal The materials were treated at our facility at 50 Cross Street, Bridgeport Connecticut. The Brieflyn Urion flaa 18/4 Net'l Gudon hazardous waste manifest

for your treatment and recovery needs. If you have any questions or would like to visit our facility, please feel free to contact us at (203) 238-6745. Thank you for choosing Tradebe Treatment and Recycling of Bridgeport LLC

Date

Mike Davia

Facility Manager Mike Davia



)]											3 No. 2050-0039
†		ORM HAZARDOUS	1. Generator ID Number	25615	2. Page 1 of		ency Response 18738723		4. Manifest		1739	JJK
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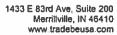
value. The aqueous phase was treated by ultrafiltration, chemical precipitation and carbon number 6699/391/kwere received at Tradebe Treatment and Recycling of Bridgeport LLC. petroleum and/or solid phase were blended with other materials and burned for its thermal The materials were treated at our facility at 50 Cross Street, Bridgeport Connecticut. The This is to certify that materials from Dog Het'l Girl on hazardous waste manifest absorption

(203) 238-6745. Thank you for choosing Tradebe Treatment and Recycling of Bridgeport LLC If you have any questions or would like to visit our facility, please feel free to contact us at for your treatment and recovery needs.

Mike Davia

Facility Manager Mike Davia







CERTIFICATE OF WASTE MANAGEMENT

To whom this may concern

This certificate is to verify that the waste described below, is handled in accordance with local, state, and federal regulations.

Generator:

Name: FORMER EQUITY WORKS MGP SITE

Address: 254 MASPETH AVENUE BROOKLYN, NY 11211

Facility

TTR Northeast Bridgeport 50 Cross Street Bridgeport , CT 06610 EPA ID: CTD002593887

Profile	Description	Manifest	Page / Line	Weight (lb)	Hcode
1000119211	MGP HAZ LIQUID DNAPL	015981739JJK	00001/001	3,920.000	H061

Robert O'Brien

Executive Vice President of Operations

TRADEBE T&R OF BRIDGEPORT, LLC

Date:01/12/2017



CERTIFICATE OF RECYCLING AND/OR DISPOSAL

By accepting the waste products described by the document number below on this certificate, Veolia ES Technical Solutions, L.L.C. certifies to the generator that the transportation, storage or processing methods employed are in accordance with the Veolia ES Technical Solutions, L.L.C permit parameters and all applicable federal, state and local laws.

CUSTOMER:

487403

NATIONAL GRID 175 EAST OLD COUNTRY ROAD

HICKSVILLE NY 11801

1

BROOKLYN

NYR000225615

GENERATOR:

NY 11211

EQUITY WORKS MGP SITE

254 MASPETH AVENUE

RETURN MANIFEST:

640920 EQUITY WORKS MGP SITE 175 E. OLD COUNTRY ROAD ATTN: JOE ODIERNA

HICKSVILLE NY 11801

RECEIVING FACILITY:

NJD002454544 VEOLIA ES TECHNICAL SOLUTIONS, L.L.C

125 FACTORY LANE
MIDDLESEX NJ 08846

Manifest/Shipping Number:

001220584VES

Date Shipped:

3/10/2017

Date Received:

3/10/2017

WASTE RECYCLED AND/OR DISPOSED:

<u>Manifest Line</u>	Waste Profile No.	Wastestream Description	Container Number	Container	Quantity	<u>uom</u>
1	101578	COAL TAR CONTAMINATED WATER	HN 2783766000 001 01 0	VACTRU	553	G

Under civil and criminal penalties of law for making or submission of false statements or representations (18 U.S.C. 1001 and 15 U.S.C 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified information in this document, for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made verification that this information is true, accurate and complete.

Donald G. Lee, Technical Manager

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	X			MARIRLIO	IIIDS		Na.	Туре	11. Total Quantity	12. Unit WL/Vol,		Waste Code	39
GENERATOR		(BENZENE PE (D801,D018)	TROLE!	um distillă	UIDS, p.o.s., TES), 3, II, RQ		1	ТТ	553	Ğ	D001 D018	B	
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OVEOLIA

Land Disposal Restriction Notification Form

EQUITY WORKS MGP SITE EPA ID Number NYR000225615 Manifest 001220584VES This notice is being provided in accordance with 40 CFR 268.7 to inform you that this shipment contains waste restricted from land disposal by the USEPA under the land disposal restriction program. Identified below for each container is the designation of the waste as a wastewater or non-wastewater, the Clean Water Act (CWA) permit stains associated with the trestment/disposal facility, applicable waste codes and any corresponding subcategories, list of any F001-F005 solvent constituents that are present in the waste, and any underlying hazardous constituents (UHC) that are present. This notice is also being provided in accordance with 6 NY CRR 376.1(g)(1). Container NumberiHN-2783766000-001 (1/ 1) WIP / Approval Code: 101578 / MARBULKS Form Designation / CWA Status: Non-Wastewater / Non-CWA Waste Codes (Subcategories): DOG1 (IGNITABLE CHARACTERISTIC WASTE, LIQUIDS >= 10% TOC PER 261.2 1(a)(1)), D018 Constituents (FOO) - FOOS): UHCs Present: NAPHTHALENE (CRUDE OR REFINED), TOLUENE Trestment Requirements: Restricted waste requires treatment to applicable standards. Additional Notices: I hearby certify that all information in this and associated land disposal restriction documents is complete and accurate to the best of my knowledge and information. Environmental Engineer (LE) Duce 3/10/17

₩VEOLIA

Activity Report

JOH NO. 2783766000 BILL DOC NO HIN29692704

WO NO: 2783766000

GENERATOR NO 640920

EPA ID: NYR000225615

BILL TO NATIONAL GRID 175 E. OLD COUNTRY ROAD SITEB HICKSVILLE, NY 11801 (516) 545-2255

JOB SITE: EQUITY WORKS MGP SITE 254 MASPETH AVENUE BROOKLYN, NY 11211 (516) 545-2586

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGER

MANIFEST NUMBER(S);

001220584VES

CUSTOMER P.O. N		PROJECT NUMBER			SHIP DA 03/10/			TERR.
	ESCRIPTION		# CONT.	CONT./CODE	QTY	ИОМ	Beau	
Manifest # 001220 WIP 101578 / APP COAL TAR CONT	roval MARE	BULK5 WATER	1	VACTRU-TT		G	1 / 1	WASTE AREA
03/10/2017 Misc.	- STATE	REGULATORY FEES		4412	1	EACH		
				otal Hours: ontainers:	0	***************************************	— — ,	
Comments:	.		# 9 1 C	ontainers;	1			
Signature:	Au	the final		·····	···			
Print Name:	Chai	d Small						

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities. 1 of 1



CERTIFICATE OF RECYCLING AND/OR DISPOSAL

By accepting the waste products described by the document number below on this certificate, Veolia ES Technical Solutions, L.L.C. certifies to the generator that the transportation, storage or processing methods employed are in accordance with the Veolia ES Technical Solutions, L.L.C permit parameters and all applicable federal, state and local laws.

CUSTOMER:

GENERATOR:

NY 11211

254 MASPETH AVENUE

RETURN MANIFEST:

RECEIVING FACILITY:

487403 NATIONAL GRID

NYR000225615 EQUITY WORKS MGP SITE 640920 EQUITY WORKS MGP SITE 175 E. OLD COUNTRY ROAD

NJD002454544 VEOLIA ES TECHNICAL SOLUTIONS, L.L.C 125 FACTORY LANE

175 EAST OLD COUNTRY ROAD

BROOKLYN

ATTN: JOE ODIERNA HICKSVILLE NY 11801

MIDDLESEX NJ 08846

HICKSVILLE NY 11801

Date Shipped:

Date Received:

4/6/2017

4/6/2017

Manifest/Shipping Number: 001062576VES

WASTE RECYCLED AND/OR DISPOSED:

Manifest Line	Waste Profile No.	Wastestream Description	Container Number	<u>Container</u>	Quantity	<u>uom</u>
1	101578	COAL TAR CONTAMINATED WATER	HN 2797739000 001 01 0	VACTRU	653	G

Under civil and criminal penalties of law for making or submission of false statements or representations (18 U.S.C. 1001 and 15 U.S.C 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified information in this document, for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made verification that this information is true, accurate and complete.

Donald G. Lee, Technical Manager

leas	e print or type, (Form designs	ed for use on elite (12-pitch) typ	pewriler.)				1859	3 Form	Approved	OMB No). 2050- 003
	INFORM HAZARDOUS 1	. Generator (D Number NYR 000225		2. Page 1 of 3. Emer 1 (177) 8		Pixone	4. Manifest	106	257	6 N	/ES
	. Generator's Name and Mailing Benerator's Phone 516 545	Address NATIONAL GR 175 E. OLD CO ATTN: JOE OD	LID UNTRY ROAD IERNA	6900 254 M BROO	í v work: Aspeth A Klyn, ny	MGPSI VENUE 1121	a progress	5)			
111	Transporter I Company Name NVIRON, TRANSPOR	•			,		U.S. EPAID		D 6 9	3 0	6 1
ΙL	7. Transporter 2 Company Name						U.S. EPAID N	lumber		4	
		Site Address VEOLIA ES TE 125 FACTORY MIDDLESEX, 1	LANE	TIONS			U.S. EPA ID 6		2 4 5	4 S	4 4
-	Facility's Phone: 732 469-	5100 n (including Proper Shipping Name,	United Close In Nimber		10. Contair	ners	11, Total	12. Unit	Γ		
	HAM and Packing Group (If an	v))			No.	Туре	Quantity	WA Not	13.	Waste Co	dus
GENERATOR -		te flammable liou troleum distillat	IIDS, n.o.s. IES), 3, 1L RQ		1	тт	653	G	D001 D016	В	1
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	3.			iı	***						
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	14. Special Handling Instructions	and Additional Information	ER Service Cont		1 15 7171	0101570	CONTR	D COR	T A 3/3337	ATED	1
	15. GENERATOR SIOFFEROR market and labeled placerd Excepter. Lostify that the co	CS CERTIFICATION: I hereby dec	r condition for transport ac n to the terms of the attach	is consignment are fully a cording to applicable inte ed EPA Admovtedgment	mational and hali of Consent.	ional governm	iaum Ladriadouz	ipping nam . If export si	e, and are ck apment and	assified, pa I am the Pr	ickaged, rimary
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INTL	Transporter signature (for export	ts only):		Export from U.S.	Port of ef Date leav	bryševit:					
RIEK	17. Transporter Addressledgment Transporter 1 Printed Freed New			Signature		1					ay Year
TRANSPORTER	Transporter 2 Printed/Typed Nan	S Byers		9 Gradine					Mc Mc		Ay Vear
<u>E</u> .	18, Discreparcy										
	18a. Discrepancy Indication Spa	Ce Quantity	[∏Туре	[Residue	e Number;	Partial Re				Rejection
	18b. Alternate Facility (or Genoral	ator)	<u> </u>	l.			U,S. EPA ID	Number			
DESIGNATED FACILITY	Facilitys Phone: 18c. Signature of Alternale Facili),	lorth	Day Yea
SIGN	19. Hazardous Waste Report Ma	anagement Method Codes (i.e., coo	les for hazardous wasla Ve		cycling systems)		14.				
出		2. or Operator: Certification of receipt of	of hazardous materials cow	ared by the man/est exc	epyas onted in Ita	жп t8a					
	Primed/Typed Name	inille e	yette	Signature	am	elle	TO DESTI	TL	<u> </u>	410)

€ VEOLIA

Land Disposal Restriction Notification Form

CONC. BOOK 148116	EQUITY WURKS	MGP SITE		
EPA ID Number	NYR000225615	1	Manifest	001062576VES
each container is to permit status associational subcategories, list	he designation of the w	aste as a wastewater or non abldisposal facility, applical ent constituents that are we	-Mastems	that this shipment contains waste in program. Identified below for ter, the Clean Water Act (CWA.) codes and any corresponding a waste, and any underlying
This notice is also	being provided in acco	rdance with 6 NYCRR 376	.1(g)(1).	
Container Number:	HN-2797739000-001	(1/-1)		
WIP/Appr	oval Code:	101578 / MARBULKS		
Form Desig	nation / CWA Status:	Non-Wastewater / No	n-CWA	
	rs (Subcategories):		IARACT	ERISTIC WASTE, LIQUIDS >==
Constituent	s (F001 - F005):	None		
UHCs Prese	ni:	NAPHTHALENE (CRU	JDE OR	REFINED), TOLUENE
Trestment R Additional 1	lequirements: Notices:	Restricted waste requ	jires tre	atment to applicable standards
i hearby certify tha accurate to the best	t all information in thi of my knowledge and	s and associated land dispos	al restrict	ion documents is complete and
the Char	el Zegrani-	THE OWNER OF THE PROPERTY OF T		
Title	pator		Date _	4/6/17

● VEOLIA

PACKING SUMMARY

Generator Number: 640920

EQUITY WORKS MGP SITE

254 MASPETH AVENUE BROOKLYN, NY 11211

WILLIAM RYAN, PROJECT MANAGER

EPA ID:NYR000225815

Manifest Number:

001062576VES

Field System ID:

Work Order Number:

2797739000

Date Shipped:

04/06/2017

HN

Container#: HN-2797739000-001

Waste Area:

Manifest Page/Line: 01 / 1

WP: 101578

DisposalCode: MARBULK5

PHY State: L

Date Accumulated:

04/06/2017

Gen Drum ID.

Shipping Name: UN 1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, 11, RQ

(B001,D018)

Outer Container: VACTRU-TT

Inner Container:

No. of Commons: 01 Primary Waste Codes:

D001.D018.B

PCB Senal #:

Total Crins Wt: 1000

SIC: 1389

Source: G49 Form: W608

System: H081

Cubic Ft.: 825.00

OOS Date: 7/7

Individual Common Weights;

1@1000 (GALLONS)

Units 1

Container Size TANKTR

Net Weight

Chemical Name

EPA/State Codes D001, D018, B

BENZENE [21000B] NAPHTHALENE [57000B] TOLUENE [12000B] COAL TAR CONTAMINATED WATER [95%] MAY CONTAIN SOME COAL TAR SOUDS [5%]

Manifest Number:

001062576VES

Work Order Number:

2797739000

Page 1 of 1

FORM# VES-8



Activity Report

JOB NO: 2797739000 BILL DOC NO HN70331532 WO NO: 2797739000

GENERATOR NO 640920

EPA ID: NYR000225615

BILL TO:NATIONAL GRID

175 E. OLD COUNTRY ROAD

SITE B

HICKSVILLE, NY 11801

(516) 545-2255

JOB SITE: EQUITY WORKS MGP SITE 254 MASPETH AVENUE BROOKLYN, NY 11211 (516) 545-2586

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGER

MANIFEST NUMBER(S): 001062576VES

CUSTOMER P.O. NUMBER PROJECT HUMBER			SHIP DATE 04/06/20			TERR. NO5
DESCRIPTION	# CONT.	CONTJCODE	QTY	UOM	PG/LN	WASTE AREA
Aanifest # 001082576VES MP 101578 / Approval MARBULK5 COAL TAR CONTAMINATED WATER	1	VACTRU-TT	253	G	1/ 1	
04/08/2017 Misc STATE REGULATORY FEES	5	4419	1	EACH		
		otal Hours:	0			
		Containers:	1			
Comments: Signature. Water Great Edit. Jugar	wh_					

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.



CERTIFICATE OF RECYCLING AND/OR DISPOSAL

By accepting the waste products described by the document number below on this certificate, Veolia ES Technical Solutions, L.L.C. certifies to the generator that the transportation, storage or processing methods employed are in accordance with the Veolia ES Technical Solutions, L.L.C permit parameters and all applicable federal, state and local laws.

CUSTOMER:

GENERATOR:

RETURN MANIFEST:

RECEIVING FACILITY:

487403 NATIONAL GRID

NATIONAL GRID 175 EAST OLD COUNTRY ROAD NYR000225615 EQUITY WORKS MGP SITE 254 MASPETH AVENUE

640920 EQUITY WORKS MGP SITE 175 E. OLD COUNTRY ROAD ATTN: JOE ODIERNA

NJD002454544 VEOLIA ES TECHNICAL SOLUTIONS, L.L.C 125 FACTORY LANE

HICKSVILLE NY 1

NY 11801

BROOKLYN

HICKSVILLE NY 11801

MIDDLESEX NJ 08846

Manifest/Shipping Number: 001226630VES

Date Shipped: 5/22/2017

Date Received:

5/22/2017

NY 11211

WASTE RECYCLED AND/OR DISPOSED:

<u>Manifest Line</u>	Waste Profile No.	Wastestream Description	<u>Container Number</u>	Container	Quantity	<u>uom</u>
1	101578	COAL TAR CONTAMINATED WATER	HN 2823904000 001 01 0	VACTRU	520	G

Under civil and criminal penalties of law for making or submission of false statements or representations (18 U.S.C. 1001 and 15 U.S.C 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified information in this document, for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made verification that this information is true, accurate and complete.

Donald G. Lee, Technical Manager

219352 Form Approved. OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 1. Generatoj iD Number 2. Page 1 of | 3. Emergency Response Phone UNIFORM HAZARDOUS WASTE MANIFEST NYR000225615 (877) 818-0087 5. Generator's Name and Mailing Address Canenado & São Address (II do Sen Illian realing adcress) NATIONAL GRID 175 E OLD COUNTRY ROAD ATTN: JOE ODIERNA Ganerator's Phone. 516 545-2586 HICKSVILLE NY 11301 6. Transporter 1 Company Name U.S. EPA ID Number ENVIRON. TRANSPORT GROUP INC. N J D 0 0 0 6 9 2 8 5 1 7. Transporter 2 Company Name U.S. EPA ID Number B. Designated Facility Name and Site Address EOLIA ES TECHNICAL SOLUTIONS U.S. EPA ID Number 125 FACTORY LANE MIDDLESEX, NJ 08846 Facility's Phone: 732 469-5100 N J D O O 2 4 5 4 5 4 4 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12 Uril and Packing Group (If any)) 13. Waste Codes No. Quantity WEARI Type UN1993, WASTE FLAMMABLE LIQUIDS, B.O.S. (BENZENE PETROLEUM DISTILLATES), 3. IL RQ (D001, D018) D001 ₿ GENERATOR 520 1 T G D018 14. Special Handling Instructions and Additional Information ER Service Contracted by VESTS -|- 1) WIP 101578 / MARBULK5 - COAL TAR CONTAMINATED WATER 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 described, packaged, marked and labeled/placarded, and see 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. l carrify 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 (As agent Rot Waltone) Generator's Offeror's Printed Typed Nam Signatu Month Day ian Berningham GCI 5 2 7 6. International Shipments Import to U.S. Depart from U.S Port of entry/exil: Transporter signature (for exports only): Date leaving U.S. 17. Transporter Acknowled ment of Receipt of Malerials Transporter Printed Skanatur Month Day Year 221 C5 Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space U Quantity ____ Туре Residue Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: DESIGNATED 18c. Signature of Alternata Facility (or Generator) Day Modb Yeer 19, Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Ov ver or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 16a Printed/Typed Name Month Day

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

₩ VEOLIA

Land Disposal Restriction Notification Form

Generator Name	EQUITY WORKS N	IGP SITE	
EPA ID Number	NYR000225615	Manifest	001226630VES
each container is the permit status association subcategories, list	id disposal by the USEI he designation of the w hated with the treatmer	te with 40 CFR 268.7 to inform you PA under the land disposal restriction aste as a wastewater or non-wastewa at/disposal facility, applicable waste ant constituents that are present in the esent.	n program. Identified below for ter, the Clean Water Act (CWA)
This notice is also	being provided in acco	rdance with 6 NYCRR 376.1(g)(1).	
Container Number: WIP / Appr	HN-2823904000-001	*	
	nation / CWA Status:	101578 / MARBULK5 Non-Wastewater / Non-CWA	
	s (Subcategories):		ERISTIC WASTE LIQUIDS >=
Constituent	s (F001 - F005):	None	, 20.0
UHCs Prese	•	NAPHTHALENE (CRUDE OR	REFINED) TOLLIENE
Treatment F Additional 1	Requirements: Notices:		ratment to applicable standards
I hearby certify the	at all information in this of my knowledge and	s and associated land disposal restriction information.	tion documents is complete and



Activity Report

JOB NO: 2823904000 BILL DOC NO HN70512578 WO NO: 2823904000 EPA ID: NYR000225615

GENERATOR NO 640920

BILL TO:NATIONAL GRID 175 E. OLD COUNTRY ROAD SITE B HICKSVILLE, NY 11801 JOB SITE: EQUITY WORKS MGP SITE 254 MASPETH AVENUE BROOKLYN, NY 11211 (516) 545-2586

CONTACT: JOSEPH ODIERNA

(516) 545-2255

CONTACT: WILLIAM RYAN, PROJECT MANAGER

MANIFEST NUMBER(S): 001226630VES

CUSTOMER P.O. NUMBER PROJECT NUMBER SHIP DATE TERR. 05/22/2017 N₀5 DESCRIPTION # CONT. CONT/CODE HOU QTY PG/LN WASTE AREA Manifest # 001226630VES VACTRU-TI G 1/ 520 WIP 101578 / Approval MARBULK5 COAL TAR CONTAMINATED WATER 05/22/2017 Misc. - STATE REGULATORY FEES 4419 **EACH** (EACH) Total Hours: O # of Containers: Comments:

a:____/ **(**

Print Name: Brian Berningh

Vedlia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

1. of 1.

√EOLIA

Aith:

PACKING SUMMARY

Generator Number: 640920

EQUITY WORKS MGP SITE

254 MASPETH AVENUE

BROOKLYN, NY 11211

WILLIAM RYAN, PROJECT MANAGER

EPA ID: NYR000225615

Manifest Number.

001226630VES

Field System ID: HI4

Work Order Number: 2823904000

Date Shipped.

05/22/2017

Containent: HN-2823904000-001

Manifest Page/Line:

01 / 1

WP: 101578

DiscosalCode: MARBULK5

PHY State: L

Date Accumulated: 05/22/2017

Gen Drum ID:

Shipping Name:

UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3. II, RQ

(D001,D018)

No. of Commons: 01

Outer Container: VACTRU-TT

Inner Container:

Primary Waste Codes: D001.D018,B

1

PCB Serial #:

00S Date: 77

Total Crins Wt. 5000

SIC: 1389

Source: G49

Waste Area:

Form: W606

System H061

Cubio Ft.: 825.00

D001, D016, 8

Individual Common Weights:

TANKTR

1@ 5000 (GALLONS)

Units Container Size Net Weight

Chemical Name

EPA/State Codes

BENZENE (21000B) NAPHTHALENE (57000B) TOLUENE (12000B) COAL TAR CONTAMINATED WATER (95%) MAY CONTAIN SOME COAL TAR SOLIDS (5%)

Manifest Number:

001220030VES

Work Order Number:

2823904000

Page 1

FORM# VES-6

of

-	print or type. (Form desi	1. Generate	or ID Number	OFFICE ACTIONS	JUNEAU ROLL	2. Page 1 of 3	. Emergency Re	sponse	Phone	4. Manife	st Tracking I	m Approve lumber	-
	WASTE MANIFEST	NYR	00022	5615		1 (1)	7) 818-00	37		0	012	266	59 VE
	Generator's Name and Mail	ing Address	NATIONAL 175 E OLD ATTN: JOE HICKSVILI	L GRID COUNTRY ODIERNA LR NY 118	Y ROAD		nerator's Site				ress)	And your	
6.	Transporter 1 Company Na	me PORT GR	OUP INC					in lo		U.S. EPA	Number	0 6 9	3 8 6
7.1	Transporter 2 Company Nat	me		14	Kapitalia Alla					U.S. EPA II) Number		
8. 0	Designated Facility Name a	ind Site Addre		S TECHNIC.	al solui	TONS		V		U.S. EPA II) Number		
No.			125 FACTO MEDDLESE	DRY LANE IX NJ 0864	16								
Fac	cility's Phone: 731 4th		ne michie je							1 1 1 1	2 0 0	3 4 5	4 5 4
9a HM	M and Packing Group (if	(any))				, A	10. No	Contai	ners Type	11. Total Quantity	12. Unit Wt./Vol.		3. Waste Codes
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Land Disposal Restriction Notification Form

Generator Name	EQUITY WORKS N		
KPA ID Number NYR000225615		Manifest	001226659VES
restricted from la each container is permit status asso subcategories, list	nd disposal by the USEI the designation of the wi ciated with the treatmer	te with 40 CFR 268.7 to inform you PA under the land disposal restriction aste as a wastewater or non-wastew at/disposal facility, applicable waste ant constituents that are present in the essent.	n program. Identified below for ster, the Clean Water Act (CWA) e codes and any corresponding
This notice is also	being provided in accor	rdance with 6 NYCRR 376.1(g)(1).	
WIP/App	HN-2868637000-001 roval Code	101578 / MARBULK5	
	gnation / CWA Status: es (Subcategories):	Non-Wastewater / Non-CWA D001 (IGNITABLE CHARAC 10% TOC PER 261.2 1(a)(1))	TERISTIC WASTE, LIQUIDS >=
UHCs Pres	Requirements:	None NAPHTHALENE (CRUDE OF Restricted waste requires tr	R REFINED), TOLUENE eatment to applicable standards
I hearby certify the accurate to the be	nst all information in thi st of my knowledge and	s and associated land disposal restri information.	ction documents is complete and
Signature	heringhne		
Title <u>Mal</u>	Windred SO	Date Date	1/2/17



FORM# VES-6

BMMB

PROFORMA 973-882-8666

Activity Report

JOB NO: 2868637000 BILL DOC NO HN70724532 WO NO: 2868637000 EPA ID: NYR000225615

GENERATOR NO 640920

BILL TO:NATIONAL GRID

175 E. OLD COUNTRY ROAD

SITE B

HICKSVILLE, NY 11801

(516) 545-2255

JOB SITE: EQUITY WORKS MGP SITE 254 MASPETH AVENUE BROOKLYN, NY 11211 (516) 545-2586

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGER

MANIFEST NUMBER(S): 001226659VES

Print Name:

CUSTOMER P.O. NUMBER PROJECT NUMBER			SHIP DAT	TE.		TERR.
ACO (America) and analysis and a second			07/28/2	017		N05
DESCRIPTION	# CONT.	CONT./CODE	QTY	nom	PG/LN	WASTE ARE
Manifest # 001226659VES MP 101578 / Approval MARBULK5 COAL TAR CONTAMINATED WATER	1	VACTRU-TT		G	1/ 1	
07/28/2017 Misc STATE REGULATORY FEES EACH)		4419	1	EACH		
	7	otal Hours:	0			
	# of	Containers:	1			
Comments:						
Bignature:						



PACKING SUMMARY

Generator Number: 640920

EQUITY WORKS MGP SITE 254 MASPETH AVENUE

BROOKLYN, NY 11211

WILLIAM RYAN, PROJECT MANAGER

EPA ID: NYR000225615

Manifest Number:

00122665

Field System ID:

Work Order Number: 28686370

HN

Date Shipped:

07/28/201

Container#: HN-2868637000-001

Waste Area:

Manifest Page/Line:

WIP: 101578

DisposalCode: MARBULK5

PHY State: L

Date Accumulated: 07/24/2017

Gen Drum ID:

Shipping Name:

UN1993, WASTE FLAMMABLE LIQUIDS, n.o.s., (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ

(D001,D018)

No. of Commons: 01

Outer Container: VACTRU-TT

Inner Container:

Primary Waste Codes: D001,D018,B

PCB Serial #:

OOS Date: //

Total Cmns Wt: 5000

SIC: 1389

Source: G49 Form: W808

System: H061

Cubic Ft.: 825.

Individual Common Weights:

1@ 5000 (GALLONS)

Units

Container Size

Net Weight

Chemical Name

EPA/State C

TANKTR

D001, D018,

BENZENE [21000B] NAPHTHALENE [57000B] TOLUENE [12000B] COAL TAR CONTAMINATED WATER [95%] MAY CONTAIN SOME COAL TAR SOLIDS [5%]

CUSTOMER_	1 6041	



PO# _____

DROP	SPOT:	DUMP BOX VAN TANK ROLL OFF
DRIVER:	RACTOR#:TRAILER#:	ROLLOFF#:
7		LINER:
FACILITY NAME	ADDRESS	MANIFEST#: 00/22/659
TIME IN:	TIME OUT:	MANIFEST#:
COMMENTS:		
		SPOT CHARGE: \$
PRINT:SIG		PRELOAD CHARGE: \$
PICK-UP	PICK UP: 729 7 1809 Date Time	DENTAL.
DRIVER:T	7 CF-6	RENTAL:
	Lynoski vy	@ \$ = \$
		DICYCUID DEMURD A CE.
TIME IN: 100 ph	TIME OUT:	PICK/UP DEMURRAGE:
COMMENTS:		@ \$ = \$
PRINT: SIO	GNATURE:	INT. STOP CHARGE: \$
INTERMEDIATE/	E WORK:	
SITE WORK	Date Time	INTERMEDIATE/SITE WORK:
DRIVER:T	RACTOR#:TRAILER#:	# of Hrs. Per Hr.
ELOILIEV MANT	ADDRESS	
FACILITY NAME TIME IN:		ANY CAR DENAMED A CE
	THIVE OUT.	UNLOAD DEMURRAGE:
COMMENTS:		@ \$ = \$
		LINER: \$
PRINT: SIG	JNATURE:	TANK WASH: \$
UNLOAD	JNLOAD: Date Time	TONS @ \$= \$
DRIVER:T	RACTOR#:TRAILER#:	LOADS@ \$= \$
Veolis / 41516	- 4 - 4 -	LINE HAUL RATE: \$
FACILITY NAME	ADDRESS 33 }	F/S
TIME IN:	TIME OUT:	DERMITS: \$
COMMENTS:		TOLLS: \$
		INVOICE TOTAL: \$
PRINT:SI	GNATURE:	IIII OICE TO IAE.



CERTIFICATE OF RECYCLING AND/OR DISPOSAL

By accepting the waste products described by the document number below on this certificate, Veolia ES Technical Solutions, L.L.C. certifies to the generator that the transportation, storage or processing methods employed are in accordance with the Veolia ES Technical Solutions, L.L.C permit parameters and all applicable federal, state and local laws.

CUSTOMER:

487403 6409

175 EAST OLD COUNTRY ROAD

SITE B

NATIONAL GRID

HICKSVILLE NY 11801

640920 NYR000225615

EQUITY WORKS MGP SITE 254 MASPETH AVENUE

GENERATOR:

NY 11211

BROOKLYN

RETURN MANIFEST:

640920

EQUITY WORKS MGP SITE 175 E. OLD COUNTRY ROAD ATTN: IOF ODIERNA

HICKSVILLE NY 11801

RECEIVING FACILITY:

NJD002454544

VEOLIA ES TECHNICAL SOLUTIONS, L.L.C.

125 FACTORY LANE

MIDDLESEX NJ 08846

Manifest/Shipping Number: 001226659VES

Date Shipped: 7/28/2017

Date Received: 7/28/2017

WASTE RECYCLED AND/OR DISPOSED:

Manifest Line	Waste Profile No.	Wastestream Description	Container Number	<u>Container</u>	Quantity	<u>UOM</u>
1	101578	COAL TAR CONTAMINATED WATER	HN 2868637000 001 01 0	VACTRU	466	G

Under civil and criminal penalties of law for making or submission of false statements or representations (18 U.S.C. 1001 and 15 U.S.C 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified information in this document, for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made verification that this information is true, accurate and complete.

Donald G. Lee, Technical Manager