

Fifth Annual Report Interim Remedial Measure for NAPL Recovery

August 2018 Through July 2019 Former Equity Works MGP Site, Brooklyn, New York

NYSDEC Site No.: 224050

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Executive Summary

National Grid's consultant, AECOM, has prepared this Interim Remedial Measure (IRM) Annual Report to document the fifth 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 2018 through July 2019. 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 was historically used by Cooper Tank as a solid waste recycling facility, with the 252 and 254 parcels used to support Cooper Tank's recycling operations. More recently, the 222 Maspeth Avenue parcel is used to refurbish and ship roll-off containers. 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 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.
- Installation of two recovery wells within the former No.1 Relief Holder in 2018.
- 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 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 13 wells are managed using manual recovery techniques on a quarterly basis.

Since system startup through July 31, 2019, the system has operated with an average on-line factor of 97% without incidents or unplanned releases from the system. Based on system measurements, approximately 22,300 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 13,390 gallons of NAPL being removed from the site to date.

1. Introduction

National Grid's consultant, AECOM, is submitting this 5th Annual Report outlining the Interim Remedial Measure (IRM) for NAPL Recovery progress during its fifth 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 fifth 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.
- Two additional recovery wells (RW-24 and RW-25) were installed in 2018 inside the former No. 1 Relief Holder and added to the NAPL recovery O&M program.

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). 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) 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, with the exception of new 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.

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 manual 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

Approximately fifteen percent of the NAPL was collected from seven 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 13 remaining wells were consistently observed to be within the wells sumps at each location or within the former No. 1 Relief Holder foundation. 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 13 wells.

The initial measurements of the quantity of NAPL collected from locations within the former No. 1 Relief Holder indicate that RW-24 and RW-25 can also be effectively managed on a quarterly basis.

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 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 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 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 fifth year of system operation (August 2018 to July 2019), 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 five 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) 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 3,462 gallons of mixed fluids were collected from the system during the fifth year of operation (August 1, 2018 through July 31, 2019). An illustration of the cumulative volume of mixed fluids collected over time is provided in Figure 3-1. From startup through July 2019, approximately 22,317 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 (based on in truck volumes listed on the manifests) can vary slightly from the "tank" level sensor 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 5 operations, the observed NAPL to water ratio of collected mixed fluids was approximately 60% NAPL. A conservative estimate of the organic/water ratios since system startup indicates that the collected material likely contained over 13,390 gallons of NAPL.

3.1.2 Gauging Wells

The 2015-2019 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 5 operations, approximately 107 gallons of mixed fluids were recovered from the 13 gauging wells.

Figure 3-2 presents a graphical illustration of the trend in DNAPL thickness in the "gauging" recovery wells during the first five 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.

3.2 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". From time to time the results from the analysis of the mixed fluids in

the tank indicated a flash point that we 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 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 5 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 fifth year of operation:

- Periodic cleaning of the system trailer to remove wood dust generated by Cooper Tank recycling 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.
- Repair of the SCADA 3000 programmable logic controller (PLC), which failed on March 8, 2019 causing temporary downtime.

During the current reporting period, the system was on-line 336 days out of a total of 365 days of operation. This reflects an on-line factor of 92%, which is slightly lower than prior years of operation. The 29 days off-line included several days when the tank was at capacity so the system was shut down to accommodate the schedule for tank pump-outs, and the downtime caused by the failed PLC from March 8, 2019 to March 27, 2019.

3.4 Incidents/Unplanned Releases

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

Recommendations for Future Operation 4.

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.

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 or longer, 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 for prior years indicate a decreasing trend, with some expected variability.

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

Data collected in 2018 and 2019 indicated a continued decrease in NAPL recharge rates in RW-10, -18, -19, and -20 compared to baseline (2014) levels. The evaluation will be continued at these wells and possibly additional wells during Year 6 operations. We also plan to evaluate running the NAPL recovery pumps on a weekly versus daily basis to determine if this improves the NAPL to water collection ratios.

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.

5. References

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Tables

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AECOM

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
RW-24	222 Parcel	on-site
RW-25	222 Parcel	on-site

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		n of Well (ft.)	Typical Pre-Recovery NAPL Thickness (ft.)				NAPL 1	Thickness (f	:)											
	Parcel	Well ID	Design	Measured	THAI E THICKHESS (II.)	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	10/26/2017	1/19/2018	4/5/2018	7/25/2018	11/5/2018	1/30/2019	4/3/2019	8/13/2019
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	3.62	8.82	1.38	1.52	0.14	6.10	9.55	0.00
On-Site	202	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	11.02	13.42	1.11	13.95	10.21	11.33	11.15	0.30
		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	0.01	0.01	0.00	2.71	5.10	5.83	5.42	6.35
		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	0.01	0.01	0.00	0.00	0	2	5.25	7.55
	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	0.01	0.01	0.00	0.02	0.02	2.72	6.42	7.99
		RW- 11	46.00	45.73	8													0.91	1.41	1.30	0.82	1.05
		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	2.65	0.75	4.30	5.60	0.10	0.01	2.55	0.85
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	0.01	0.01	6.95	10.81	0	0	1.52	0.15
		RW- 18	50.00	47.50	10	8.80	0.10	trace	0.10	0.10	0.05	0.01	0.01	0.01	0.01	0.01	0.01	3.65	0.10	0.01	7.71	0.02
	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	0.01	0.01	0.01	0	0	0	9.68	0.23
	232	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	2.0	1.2	0.0	1.31	1.45	2.00	10.02	5.55
		RW- 21	50.00	49.80	5	0.06	0.1	trace	8.65	0.1	5.97	0.01	0	0	0.01	2.12	1.82	3.70		2.60	4.01	3.00
	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		0.01	0.01	0.02			2.02	0.00
	Recovered Gallons (cumulative from system startup					4215	5539	7156	9277	11477	12531	14071	15277	16263	16750	17730	18792	19316	19877	21035	21629	23127
	Average Gallons per Day					11.1	12.1	13.1	14.3	15.5	15.3	15.4	15.4	14.8	14.0	13.9	13.9	13.2	12.7	12.7	12.6	12.5

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

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

	Locatio	n	Depth o	of Well (ft.)	Typical Pre-Recovery NAPL Thickness (ft.)						N.A	APL Thicknes	ss (feet)										М	ixed Fluids Q	uantity Re	covered (ga	al.)				
	Parcel	Well ID	Design	Measured			10/17/2016	1/19/2017	4/6/2017	7/26/2017	10/26/2017	1/19/2018	4/5/2018	7/25/2018	11/5/2018	1/30/2019	4/3/2019	8/13/2019	7/28/2016	10/17/2016	1/19/2017	4/6/2017	7/26/2017	10/26/2017	1/19/2018	4/5/2018	7/25/2018	11/5/2018	1/30/2019	4/3/2019	8/13/2019
		RW- 1	45.00	43.35	3	1.50	0.98	1.55	0.01	1.66	1.02	0.95	1.00	1.52	1.52	0.73	1.11	1.72	5.0	5.0	5.0	0.0	5.0	3.0	3.0	2.0	4.0	4.0	3.0	4.0	3.0
On-Site	252	RW- 4	51.00	49.91	trace	trace	0.05	0.01	0.01	0.06	0.00	0.01	0.01	0.02		0.54	1.15	0.02	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0		4.0	0.0
		RW- 5	47.00	44.45	2	1.23	0.05	0.01	0.01	0.00	0.01	0.01	0.01	0.02		0.55	0.73	0.00	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3.0	0.0
		RW- 6	47.00	45.72	3	2.91	2.67	3.75	2.55	2.95	3.23	2.85	2.00	2.33	2.71	1.80	1.65	2.55	7.0	7.0	7.0	7.0	7.0	5.0	5.0	6.0	4.5	6.0	5.0	3.0	4.5
		RW- 7	48.00	46.05	1				1.46	0.75	0.01	0.54	1.30	0.60	0.70	0.73	0.72	0.82				0.0	3.0	0.0	2.0	3.0	2.0	3.0	2.0	2.0	3.0
		RW- 11	46.00	45.73	4	2.25	1.33	2.20	1.22	2.85	1.30	0.80	0.80	0.91	1.41	1.30	0.82	1.05	6.0	3.5	5.0	3.5	4.0	3.0	3.0	3.0	4.0	3.5	3.0	4.0	5.0
Perimeter	254	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	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 eninetei		RW- 15	45.00	43.72	trace	trace	0.0	0.0	0.0	0.0	0.0	0.01	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	0.0
		RW- 16	50.00	49.72	1			0.56	0.0	0.0	0.0	1.7	1.81	0.02			0.0				0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0			
		RW- 17	48.00	49.60	6	4.42	3.55	3.72	3.20	4.67	4.03	3.14	2.90	4.65	4.83	2.93	2.27	4.22	10.0	6.0	12.0	7.0	9.0	7.0	7.0	6.0	8.0	10.0	5.0	8.0	8.0
	222	RW- 23	44.00	41.69	2				0.01	0.01												0.0	0.0		0.0	0.0					
		RW- 24	26.50	25.95	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	0.12	0.00	0.00	0.00	NI	NI	NI	NI	NI	NI	NI	NI	NI	0.0	0.0	0.0	0.0
		RW- 25	26.25	24.93	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	1.75	0.01	0.11	0.80	NI	NI	NI	NI	NI	NI	NI	NI	NI	3.5	1.0	1.0	5.0
				•			•		•		•	•	•	•	· · · · · · · · · · · · · · · · · · ·			Total	33.0	21.5	29.0	17.5	32.0	18.0	20.0	25.0	22.5	30.0	19.0	29.0	28.5
																Cumulativ	e from Syste	em Startup	283.0	304.5	333.5	351.0	383.0	401.0	421.0	446.0	468.5	498.5	517.5	546.5	575.0

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 at installed

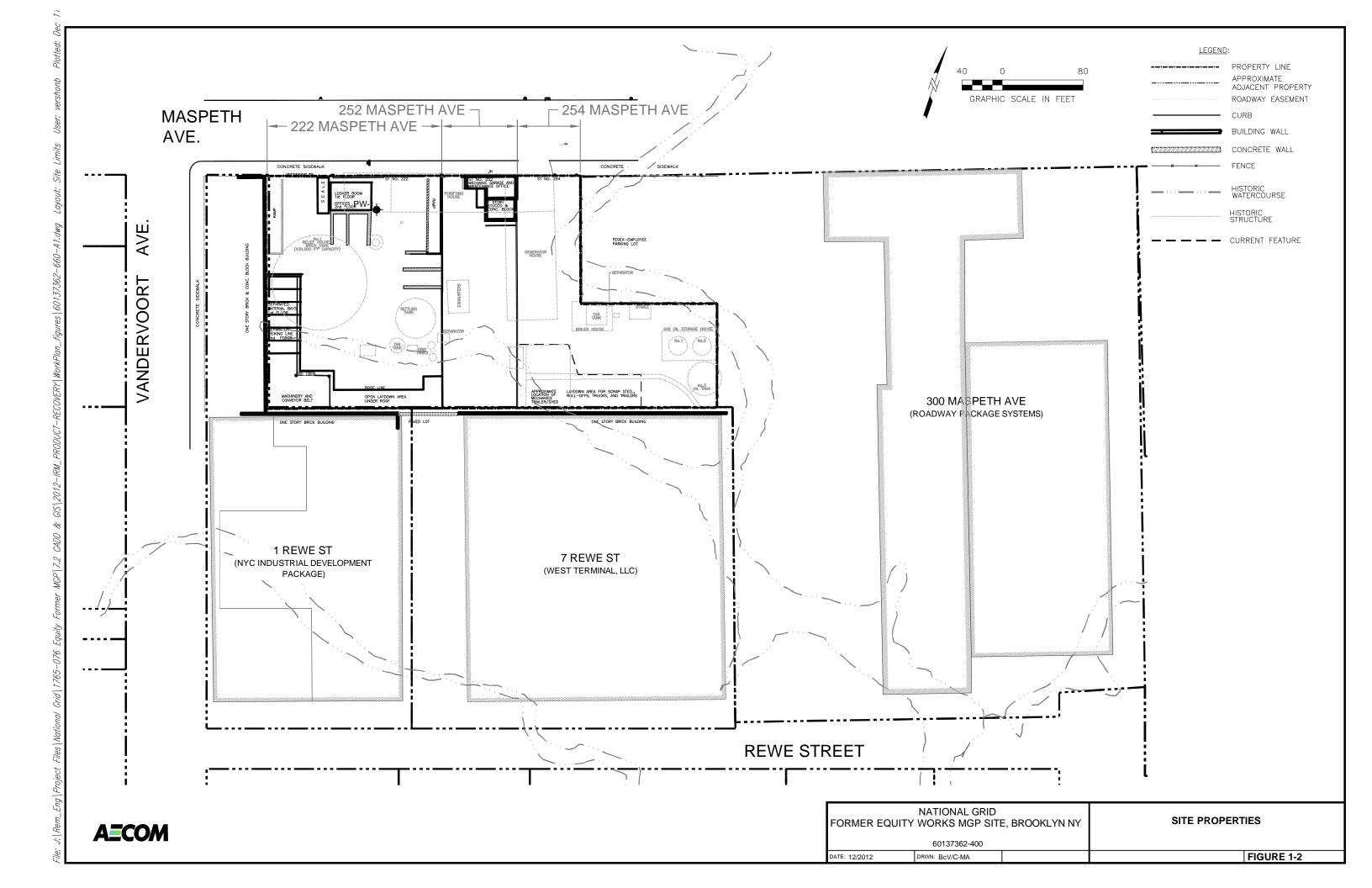
Table 3-3
Summary of Waste Management
Former Equity Works MGP Site, Brooklyn, New York

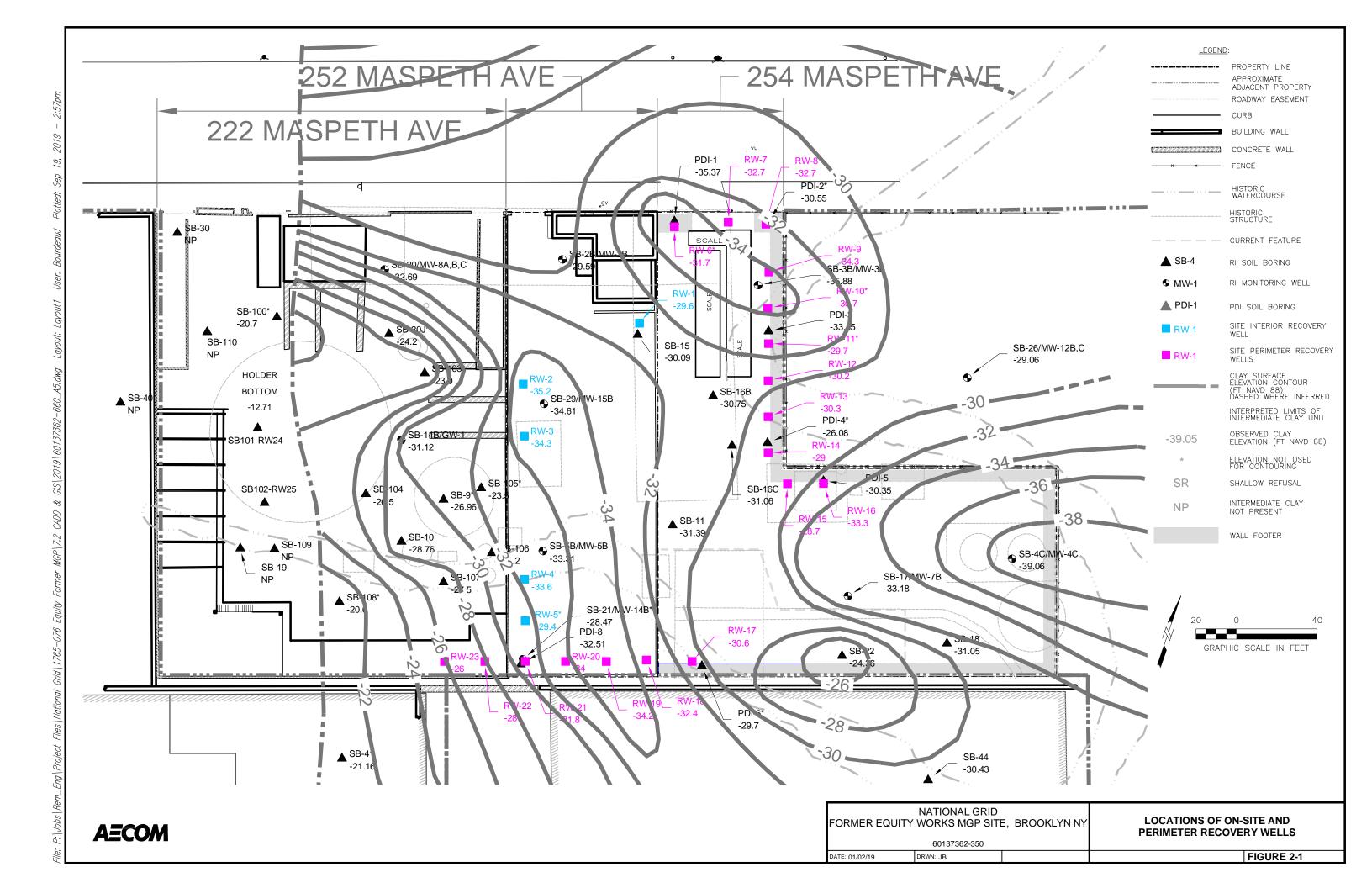
Date	Quantity Shipped (gallons)
6/8/2015	466
6/24/2015	490
7/9/2015	550
7/24/2015	437
8/17/2015	493
9/10/2015	335
9/29/2015	496
10/22/2015	617
11/18/2015	550
12/22/2015	450
2/5/2016	581
2/19/2016	545
3/11/2016	462
4/5/2016	533
5/2/2016	540
5/31/2016	625
6/27/2016	495
7/25/2016	540
9/1/2016	540
10/6/2016	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
9/29/2017	487
11/17/2017	495
12/22/2017	485
2/15/2018	571
4/6/2018	491
6/29/2018	524
8/15/2018	561
11/7/2018	567
12/20/2018	591
2/7/2019	594
5/6/2019	530
6/10/2019	483
7/17/2019	485

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

Figures

Project number: 601637362







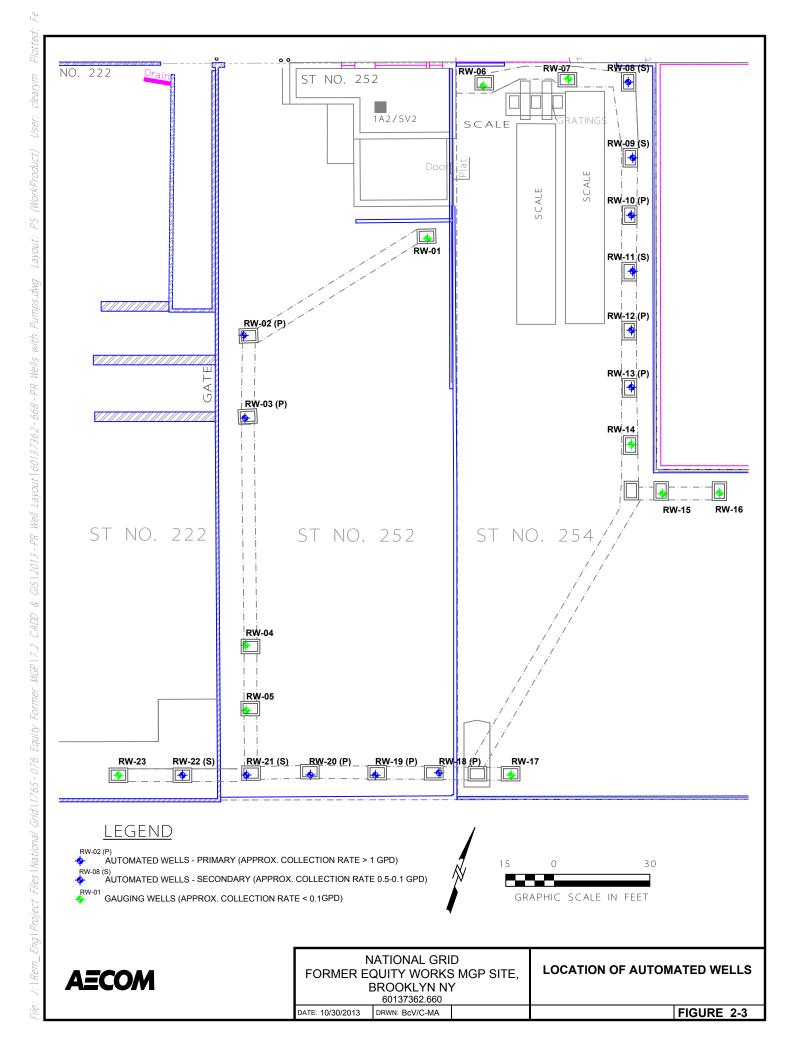


AECOM

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

COMPLETED WELL LOCATION

Figure 2-2





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

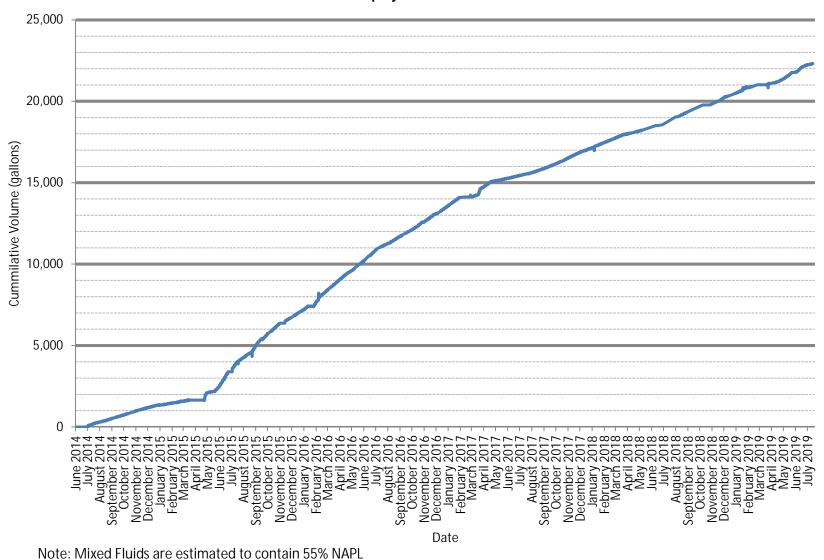


Figure 3-2
NAPL Thickness Versus Time - Gauging Wells
Former Equity Works MGP Site, Brooklyn, New York

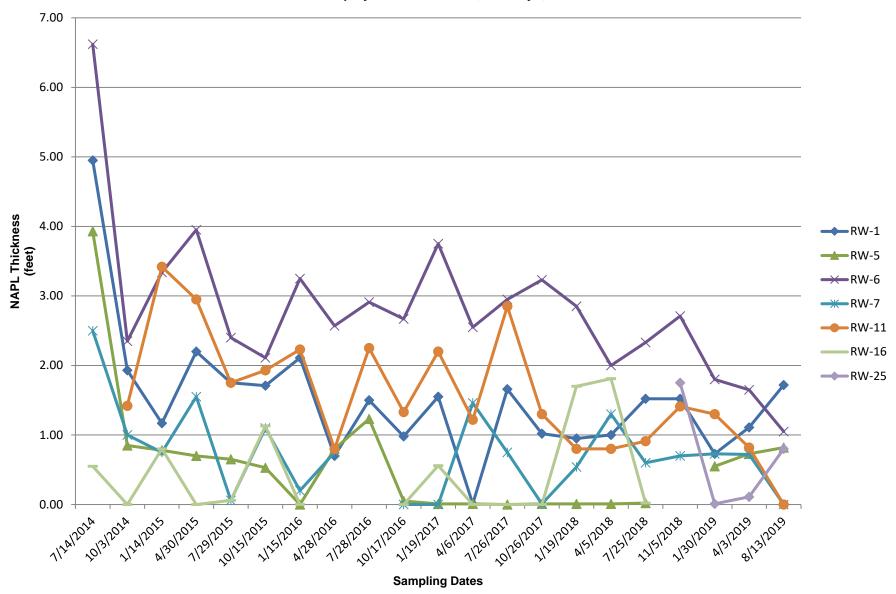
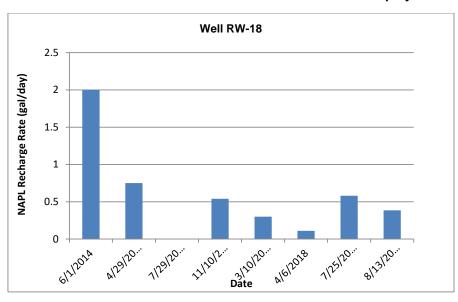
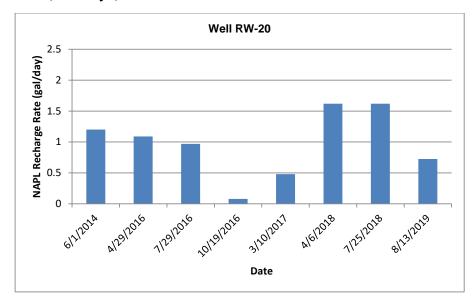
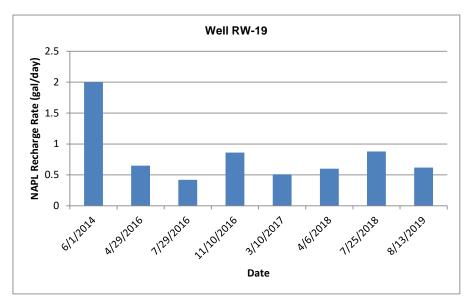
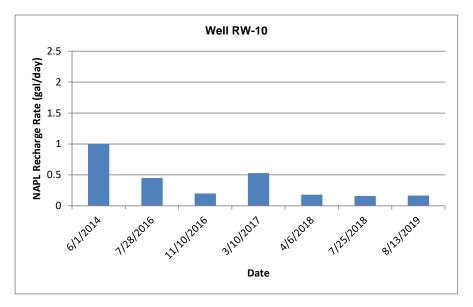


Figure 4-1
NAPL Recharge Rates Versus Time - Automated Wells
Former Equity Works MGP Site, Brooklyn, New York









Appendix A Waste Disposal Documentation

Project number: 601637362

August 15, 2016 Manifest

Plea	se pri	nt or type. (Form desig	ned for us	e on elite (12-pitch) ty	pewriter.)	100					For	n Approved	. OMB No.	2050-003
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П		TROM. TRANSPOS Insporter 2 Company Nam		UP INC						U.S. EPAID		0 6 9	206	1
					Tage wild	W 10								
	8. Des	signated Facility Name an	d Site Addre			SMS				U.S. EPA ID I	Number			
20	Facilit	ty's Phone: 7%2 469	.Ston							NID	0 0	2 4 5	4 5 4	4
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DESIGNATED FACILITY	Contract of the Contract of th	Signature of Alternate Facil	lity (or Gene	rator)		7 157			100		DE.	M	onth Day	Year
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		esignated Facility Owner of d/Typed Name	operator:	Certification of receipt of	hazardous materials covere		nature	as noted in ite	108			Me	onth Day	Year
1		The second second						Helica						1



Land Disposal Restriction Notification Form

Generator Name EQUITY WORKS MGP SITE

EPA ID Number NYR009225615 Manifest 001314692VES

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 status associated with the treatment/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 NYCRR 376.1(g)(1).

Container Number: HNI-3118092000-001 (1/1)

WIP / Approval Code: 101578 / MARBULK5

Form Designation / CWA Status: Won-Wastewater / Non-CWA

Waste Codes (Subcategories): D001 (IGNITABLE CHARACTERISTIC WASTE, LIQUIDS >=

10% TOC PER 261.2 1(a)(1)), D918

Constituents (F001 - F005):

simucins (FOO1 - FOO5):

UHCs Present: NAPHTHALENE (CRUDE OR REFINED), TOLUENE

Treatment Requirements Restricted waste requires treatment to applicable standards.

Additional Notices:

I bearby certify that all information in this and associated land disposal restriction documents is complete and accurate to the best of my knowledge and information.

Signature

Title

Doch

Page 1 of 1



PACKING SUMMARY

Generator Number: 640920

EQUITY WORKS MGP SITE

254 MASPETH AVE **BROOKLYN, NY 11211** Manifest Number: 001314692VFS

Field System ID: HN

Work Order Number:

3118092000

Date Shipped:

08/15/2018

Attn:

EPA ID: NYR000225615

Container#: HN-3118092000-001 Waste Area: Manifest Page/Line: 01 / 1

WIP: 101578

DisposalCode: MARBULK5

PHY State: L

Date Accumulated: 08/15/2018

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: TANKER-TT

Inner Container:

Primary Waste Codes: D001,D018,B

OOS Date: //

Total Cmns Wt: 5000

1

PCB Serial #:

Cubic Ft.: 625.00

SIC: 1389

Source: G49 Form: W606 System: H061

Individual Common Weights:

1 @ 5000 (GALLONS)

Units 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 SOLIDS [5%]



Activity Report

JOB NO: 3118092000 **BILL DOC NO HN19191532** WO NO: 3118092000 EPA ID: NYR000225615

GENERATOR NO 640920

BILL TO: NATIONAL GRID 175 E OLD COUNTRY RD HICKSVILLE, NY 118014257 (516) 545-2255

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

CONTACT: JOSEPH ODIERNA

MANIFEST NUMBER(S):

MANIFEST FEE

001314692VES

CONTACT: WILLIAM RYAN, PROJECT MANAGE

CUSTOMER P.O. NUMBER	PROJECT NUMBER			SHIP DATI	E		TERR.
				08/15/20	018		N05
DESCRIPTION		# CONT.	CONT./CODE	QTY	UOM	PG/LN	WASTE AREA
Manifest # 001314692VES WIP 101578 / Approval MAF COAL TAR CONTAMINATE	RBULK5 D WATER	1	TANKER-TT		G	1/ 1	
					7		
08/15/2018 Misc STATI	REGULATORY FEES		4419	1	EACH		

Total Hours:

of Containers:

1

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

1 of 2

CUSTOMER________



PO# _____

DROP	SPOT:	DUMP BOX VAN TANK ROLL OFF
DRIVER:	TRACTOR#:TRAILER#:	ROLLOFF#:
FACILITY NAME	ADDRESS	LINER:
TIME IN:	TIME OUT:	MANIFEST#: 00/34/57
COMMENTS:		
DRIVER RELEASED FROM DUTY	TIME:CUSTOMER INITIAL:	SPOT CHARGE: \$
PRINT:	_ SIGNATURE:	PRELOAD CHARGE: \$
PICK-UP	PICK UP: Date Time	
	- 1 1 60000	RENTAL:
	TRACTOR#:TRAILER#:	# of Days @ \$ = \$
FACILITY NAME	ADDRESS	# of Days Per Day
The first and the control of the particular section of the control	TIME OUT: 4204	PICK/UP DEMURRAGE:
COMMENTS:		# of Hrs. Per Hr. = \$
DRIVER RELEASED FROM DUTY	TIME:CUSTOMER INITIAL:	# 01 Hrs. Per Hr.
PRINT: Mester Duscal	SIGNATURE: Megay Danil	INT. STOP CHARGE: \$
INTERMEDIATE/	:/SITE WORK:	
SITE WORK	Date Time	INTERMEDIATE/SITE WORK:
DRIVER:	TRACTOR#:TRAILER#:	# of Hrs.
		# of Hrs. Per Hr.
FACILITY NAME	ADDRESS	and the second second
TIME IN:	TIME OUT:	UNLOAD DEMURRAGE:
COMMENTS:		@ \$= \$
DRIVER RELEASED FROM DUTY	TIME:CUSTOMER INITIAL:	# of Hrs. Per Hr. LINER: \$
PRINT:	_ SIGNATURE:	TANK WASH: \$
UNLOAD	UNLOAD: S 15 15 10 Date Time	TONS @ \$= \$
	Date Time	
DRIVER:	TRACTOR#:TRAILER#:	LOADS@ \$= \$
FACILITY NAME	ADDRESS	LINE HAUL RATE: \$
	TIME OUT:	F/S% = \$
COMMENTS:		PERMITS: \$
	TIME:CUSTOMER INITIAL:	TOLLS: \$
		INVOICE TOTAL: \$
FKINT:	SIGNATURE:	and the second second

November 7, 2018 Manifest

2 33183

DESIGNATED FACILITY TO EPA'S 8-MANIFEST SYSTEM

Form Approved. OMB No. 2050-0039 Please print or type. 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone UNIFORM HAZARDOUS 494506 **VES** 001 WASTE MANIFEST NYR000225615 (877) 818-0007 Generator's Site Address (if different than malling address) Generator's Name and Malling Address ROB COLERANA 254 MASPETH AVE BROOKLYN, NY 11211 EQUITY WORKS MOP SITE 175 K OLD COUNTRY ROAD HICKEVILLE, NY 11901 Generator's Phone: 516
8. Transporter 1 Company Name U.S. EPA ID Number NID 0 0 0 6 9 2 0 6 1 ENVIRON. TRANSPORT GROUP INC. U.S. EPA ID Number 7. Transporter 2 Company Name 8. Designated Facility Name and Site Address
VEOLIA BS TECHNECAL SOLUTIONS U.S. EPA ID Number 125 FACTORY LANE MIDDLEMEX, NJ 09846 N J D 0 0 2 4 5 4 5 4 4 Facility's Phone: 73/2 469-5100 10. Containers 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 12. Unit 11. Total 13. Waste Codes Quentity WL/Vol. and Packing Group (If any)) No. Type HM UN1999, WASTE FLAMMABLE LIQUEDS, nor, (BENZENE PETROLEUM DESTILLATES), 3, II, RQ D001 B Ь X G TT D018 (D001,D018) pecial Hending Instructions and Additional Information

ER. Service Constructed by VESTS + Construct retained by generator confers

egency enthority on initial transporter to add or substitute additional transporters on generator's behalf. + 1) WIP 101578
MARBULES - MIXED NAPL IMPACTED GROUND WATER - ACTUAL GALLONS RECEIVED: 50-1 14. Special Handling Instructions and Additional Information 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the dontents 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 fol 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. Loardily 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 rian Bermingham National Gra 6. International Shipments Port of entry/extit Import to U.S. _ Export from Date leaving U.S. Transporter alignature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed/Come Transporter 2 Printed/Typed Name 18. Discrepancy 18a. Discrepancy Indication Space Residue ___ Partial Rejection Full Rejection Quantity Type Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) FACILITY Facility's Phone: 18c. Signature of Alternate Facility (or Generator) vionth 19: Hazardous Waste Report Managament Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Norm 18a Printed/Typed Name Kr'N) IU1EPA Form 8700-22 (Rev) 12-17) Previous editions are obsolete.

December 20, 2018 Manifest



JOB NO: 3196266000 BILL DOC NO JS81217578 WO NO: 3196266000 EPA ID: NYR000225615

GENERATOR NO 640920

BILL TO: NATIONAL GRID 175 E OLD COUNTRY RD HICKSVILLE, NY 118014257 (516) 545-2255 JOB SITE: EQUITY WORKS MGP SITE 254 MASPETH AVE BROOKLYN, NY 11211 (516) 545-2586

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGE

MANIFEST NUMBER(\$): 001494560VES

CUSTOMER P.O. NUMBER PROJECT NUMBER SHIP DATE TERR. 12/20/2018 M05 # CONT. CONTJCODE WASTE AREA DESCRIPTION QTY UOM **PGALN** Manifest # 001494560VES VACTRU-TT WIP 101578 / Approval MARBULK5 MIXED NAPL IMPACTED GROUND WATER

Total Hours:

0

of Containers:

1

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



JOB NO: 3196266000 BILL DOC NO JS81217578 WO NO: 3196266000 EPA ID: NYR000225615

GENERATOR NO 640920

BILL TO: NATIONAL GRID 175 E OLD COUNTRY RD HICKSVILLE, NY 118014257 (516) 545-2255

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

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGE

MANIFEST NUMBER(S): 001494560VES

CUSTOMER P.O. NUMBER PROJECT NUMBER SHIP DATE TERR. 12/20/2018 N05

Comments:

PICK UP IS SCHEDULED FOR 1:00 PM ON THURSDAY, DECEMBER 20TH, DELIVERY INTO VEOLIA MIDDLESEX IS SCHEDULED FOR 6:30 PM SAME DAY.

Signature:

Print Name:

Customer authorizes Contractor to make changes on Customer's behalf in regards to transporters used and to perform the Services, including adding or changing transporters listed on manifests. If Customer provides an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Contractor shall select only those transporters on that list when providing transportation services to Customer. If Customer does not provide an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Customer authorizes Contractor to select any permitted transporter to provide transportation services to Customer.

● VEOLIA

PACKING SUMMARY

Generator Number: 640920

EQUITY WORKS MGP SITE

254 MASPETH AVE **BROOKLYN, NY 11211** Manifest Number:

001494560VES

Field System ID: JS

3196266000

Work Order Number: Date Shipped:

12/20/2018

Attn:

EPA ID: NYR000225615

Container#: JS-3196266000-001

Waste Area:

Manifest Page/Line:

01 / 1

WIP: 101578

DisposalCode: MARBULK5

Net Weight

PHY State: L

Gen Drum ID:

Date Accumulated: 12/20/2018

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

(D001,D018)

Outer Container: VACTRU-TT

No. of Commons: 01

Total Crins Wt: 5000

Inner Container:

Primery Weste Codes: D001,D018,B

PCB Serial #:

System: H061 Form: W606

OOS Date: 17 Cubic Ft.: 625.00

Individual Common Weights:

1 @ 5000 (GALLONS)

Units 1

Container Stze TANKTR

Chemical Name

Source: G49

EPA/State Codes D001, D018, B

BENZENE (21000B) NAPHTHALENE (57000B) TOLUENE (12000B) NAPL IMPACTED WATER (95%) MAY CONTAIN

NAPL SÓLIDS (5%)

3196266000 Work Order Number:

Page 1 of 1

€ VEOLIA

Land Disposal Restriction Notification Form

Generator Name	EQUITY WORKS M	GP SITE		
EPA ID Number	NYR000225815	Ma	nifest	001494560VES
restricted from lar each container is permit status asso subcategories, list	nd disposal by the USEI the designation of the w cisted with the treatmen	A under the land disposal re raste as a wastewater or non- ut/disposal facility, applicable rent constituents that are pre-	extricti wastev c wast	ou that this shipment contains waste on program. Identified below for water, the Clean Water Act (CWA) is codes and any corresponding the waste, and any underlying
This notice is also	being provided in acco	ordance with 6 NYCRR 376.	1(2)(1).
Container Number	JS-3196266000-001	(1/ 1)		
	roval Code:	101578 / MARBULK5		
	gnation / CWA Status:	Non-Wastewater / Non	-CWA	
	les (Subcategories):	D001 (IGNITABLE CHA 10% TOC PER 261.2 1(RAC*	TERISTIC WASTE, LIQUIDS >= , D018
Constituen	ts (F001 - F005):	None		
UHCs Pres	sent:	NAPHTHALENE (CRUI	DE OF	REFINED), TOLUENE
Treatment Additional	Requirements: Notices:			eatment to applicable standards.
Signature Signature	that all information in this est of my knowledge and	is and associated land disposed information. National	al rest	riction documents in complete and $\frac{12/2}{418}$
Title 4	Nati	onal Grid	Date	

3 1 Y (Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	Generator ID Number	- 20172 5 000 00100	2. Page 1 of	Windham i		100	11/19	456	O VE	- 2
5. Generator's Name and Maili	NYR000225		11	(877) 818-0087 Generator's Site Addres		an mailing addre	ess)			
EQUITY WORKS MO 175 E. OLD COUNTR HICKS VILLE, NY 11 Generator's Phone:	YROAD	ti kan Masania	v. 1.2 (1977)	254 MASPETH BROOKLYN, N	AV6 Y 11211	System :		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i.	
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ENVERON. TRANSPO	AND DESCRIPTION OF THE PARTY OF	~	200					0 6 9	2 0	6 1
7. Transporter 2 Company Nan	ne	24-7-92	and English	-11 t		U.S. EPA ID	Number			
8. Designated Facility Name as	nd Site Address			No.		U.S. EPA ID	Number		-	
Facility's Phone: 732 de	125 FACTORY MIDDLESEX,	NIT ARRAS		· (· · · · · · · · · · · · · · · · · ·		I sa T		50 500		4 4
ga. 9b. U.S. DOT Descript	ion (including Proper Shipping Name		4	10. Cont		11. Total	12. Unit	1000000	Waste Code	
HM and Packing Group (if	any)) :			No.	Туре	Quantity	- Wt./Vol.	+1.	Viasio Coo	
(D001,D018)	eth flammable liqui Etroleum distillat	DS, nos., 58), 3, II, EQ	est Fa		TT	591	O.	D018	В	
2.	er state of the st	era ete Nevra tra		ration = 4 start	4 24, 1 5-1	12 T 25 T 1	Seta 5	. 5		
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Veolia Environmental Services

125 Factory Lane Middlesex, NJ 08846 (732) 469-5100

Weigh Ticket

ate Scheduled:

12/20/2018 19:00:00

ustomer Name:

EQUITY WORKS MGP SITE

ransporter:

ENVIRONMENTAL TRANSPORT GROUP, INC.

railer #:

172

Weigh Ticket #:

206476

Order Number:

233984

OrderType:

WR

Weighing Tractor: YT6

Seneral Notes

уре	Weight	U of M	Date		Capture Type	Specific Weighing Notes	
iross	37,700	Lb	12/20/18	6:36 pm	Electronic		
are	33,000	Lb	12/20/18	8:22 pm	Electronic	- Marie	

Net:

4,700.00 Lb

February 7, 2019 Manifest

2 3683

Form Approved. OMB No. 2050-0039 Please print or type. 4. Manifest Tracking Number 1. Generator ID Number 2. Page 1 of 3. Emergency Response Phone UNIFORM HAZARDOUS 001495867 WASTE MANIFEST NYR000225615 (877) 818-0087 Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address JOE ODIERNA EQUITY WORKS MGP SITE 175 E. QLD COUNTRY ROAD 254 MASPETH AVE BROOKLYN, NY 11211 HICKSVILLE, NY 11801 Generator's Phone: 545-2586 6. Transporter 1 Company Name U.S. EPA ID Number N J D 0 0 0 6 9 2 0 6 1 ENVIRON. TRANSPORT GROUP INC 7. Transporter 2 Company Name U.S. EPA ID Number 8. Designated Facility Name and Site Address U.S. EPA ID Number VEOLIA ES TECHNICAL SOLUTIONS 125 FACTORY LANE MIDDLESEX, NJ 08846 N J D 0 0 2 4 5 4 15 4 4 Facility's Phone: 732 469-5100 9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 13. Waste Codes and Packing Group (if any)) HM Quantity WL/Vol. No. Type UN1993, WASTE FLAMMABLE LIQUIDS, 11.0.5., (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ (D001,D018) X 13001 B GENERATOR 1 TT G D018 ecial mandling 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) WIP 101578 MIXED NAPL IMPACTED GROUND WATER - MARBULKS 14. Special Handling Instructions and Additional Information Autual Gallons Rec'D: 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 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. erator's/Offeror's Printed/Typed Name Year agent-for Day Megan Dasc

16. International Shipments Nationa Export from U.S. Port of entry/exit: Date leaving U.S.: Transporter signature (for exports only): TRANSPORTER Transporter Acknowledgment of Receipt of Materials inted/Typed Name Signature Month OV 02 2 Printed/Typed Name Month Day 18. Discrepancy 18a. Discrepancy Indication Space Full Rejection Quantity Туре Residue Partial Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Month Day Year 18c. Signature of Alternate Facility (or Generator) 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 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 JO L DESIGNATED FACILITY TO EPA'S e-MANIFEST SYSTEM

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

QC Keport

Location

2/8/2019

1

Code Nbr SampleNbr Generator Ship To **Broker** Date S160-7242 EQUITY WORKS MGP SITE 2/7/2019 19038-00053 VEOLIA ES TECHNICAL SOLUTIONS, LLC OP# LR# Ord# -Fuel Lot# Still Run Source Tank Gals Dest. 412 615 / B 236834 T-221 S160 615 gal

2/7/2019 2:14:19 PM SKAWAGUCHI

VERY HEAVY.

м	ETAL	S

Name Code PPM Msg

CHARACTERIST	ICS
Test Method	ASIS S160-7242
SP GR	1.07
Color	D/BRN
H2O solubil	20
KF%	63.76
pН	7.15
BTU/#	5933
BTU/gal	52863.03
Lbs/gal	8.91
Ash	0
CI%	0.17
Peroxide ppm	0

AC VEhour

Location

2/8/2019

2

					50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
<u>Date</u> 2/7/2019	Code Nbi S160-7242		mpleNbr 038-00053	<u>Broker</u> VEOLIA ES T SOLUTIONS,			Generator EQUITY WORKS	MGP SITE	Ship To		
OP#	Ord# -	LR#	Fuel Lot#	Still Run	Source 7	Tank	Dest.			Gals	
	236834				412		T-221	S160	615 gal	615 / B	
COMPOSI Chemical	TION	Weight %	Volume %	Normalized Weight %		PCBs PCB	<u>Code</u>	<u>PPM</u>	Msg		



JOB NO: 3224383000 BILL DOC NO JS09796870 WO NO: 3224383888 EPA ID: NYR006225615

GENERATOR NO 640920

BILL TO: NATIONAL GRID 175 E OLD COUNTRY RD HICKSVILLE, NY 118014257 (516) 545-2255 JOB SITE: EQUITY WORKS MGP SITE 254 WASPETH AVE BROOKLYN, NY 11211 (516) 545-2586

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGE

MANIFEST NUMBER(S): 001495867VES

CUSTOMER P.O. NUMBER PROJECT NUMBER	ER		SHIP DATE	- - -		TERR.
			02/07/20	19		N05
DESCRIPTION	#CONT.	CONT./CODE	QTY	UOM	PG/LN	WASTE AREA
Manifest # 001495867VES WIP 101578 / Approval MARBULKS MIXED NAPL IMPACTED GROUND WATER	1	VACTRU-TT		G	1 / 1	
				*** *** *** ****		

Total Hours: (

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



JOB NO: 3224383060 BILL DOC NO J809796870

WO NO: 3224383000 EPA ID: NYR000225615

GENERATOR NO 640920

BILL TO: NATIONAL GRID 175 E OLD COUNTRY RD HICKSVILLE, NY 118014257 (516) 545-2255 JOB SITE: EQUITY WORKS MGP SITE 254 MASPETH AVE BROOKLYN, NY 11211 (516) 545-2586

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGE

MANIFEST NUMBER(S): 001495867VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR
		02/07/2019	1805

Comments:

BE ON-SITE @ 7 AM - SITE CONTACT: MEGAN DASCOLI, AECOM - CELL PHONE # 908-623-0145 / DELIVER LOAD TO VEOLIA, MIDDLESEX @ 1:30 PM

Signature: Myan Dascoli agent for National Find
Print Name: Megan Dascoli

Customer authorizes Contractor to make changes on Customer's behalf in regards to transporters used and to perform the Services, including adding or changing transporters listed on manifests. If Customer provides an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Contractor shall select only those transporters on that list when providing transportation services to Customer. If Customer does not provide an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Customer authorizes Contractor to select any permitted transporter to provide transportation services to Customer.

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

VEOLIA

PACKING SUMMARY

Generator Number: 640920

EQUITY WORKS MGP SITE

254 MASPETH AVE **BROOKLYN, NY 11211** Manifest Number:

001495867VES

Field System ID:

Work Order Number: 3224383000 Date Shipped:

02/07/2019

Attn:

EPA ID: NYR000225615

Container#: JS-3224383000-001

Waste Area:

Manifest Page/Line: 01 / 1

WIP: 101578

DisposalCode: MARBULKS

PHY State: L

Date Accumulated: 02/07/2019

Gen Drum ID:

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

(D001,D018)

Outer Container: VACTRU-TT

Inner Container:

No. of Commons: 01 Primary Waste Codes: D001,D018,B

PCB Serial #:

OOS Date: //

Total Cmns Wit: 5000

Source: G49 Form: W606

System: H061

Cuble Ft.: 625.00

Individual Common Weights:

1 @ 5000 (GALLONS)

SIC: 1389

Net Weight

EPA/State Codes

Units 1

Container Size TANKTR

Chemical Name

D001, D018, B

BENZENE [21000B] NAPHTHALENE [57000B] TOLUENE [12000B] NAPL IMPACTED WATER [95%] MAY CONTAIN

NAPL SÓLIDS [5%]

Manifest Number: 001495867VES

Work Order Number:

3224383000

Page 1 of 1

Veolia Environmental Services

125 Factory Lane Middlesex, NJ 08846 (732) 469-5100

Weigh Ticket

ate Scheduled:

02/07/2019 13:30:00

ustomer Name:

EQUITY WORKS MGP SITE

ransporter:

ENVIRONMENTAL TRANSPORT GROUP, INC.

railer #:

412

Weigh Ticket #:

206640

Order Number:

236834

OrderType: Weighing Tractor: YT7

WR

ieneral Notes

уре	Weight	U of M	Date		Capture Type	Specific Weighing Notes
ross	38,080	Lb	2/7/19	2:00 pm	Electronic	
are	32,780	Lb	2/7/19	2:33 pm	Electronic	

Net:

5,300.00 Lb

May 6, 2019 Manifest



JOB NO: 3277583000 BILL DOC NO JS89499373

WO NO: 3277583000 EPA ID: NYR006225615

GENERATOR NO 848929

BILL TO: NATIONAL GRID 175 E OLD COUNTRY RD HICKSVILLE, NY 11801-4257 (908) 623-9145

JOB SITE: EQUITY WORKS WGP SITE 254 MASPETH AVE BROOKLYN, NY 11211 (908) 623-0145

CONTACT: MEGAN DASCOLI

CONTACT: MEGAN DASCOLI

MANIFEST NUMBER(S):

001714542VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER			SHIP DATE			TERR.
				05/06/20	19		N05
DESCRIPTION		# CONT.	CONT./CODE	QTY	UOM	PG/LN	WASTE AREA
Manifest # 001714542VES WIP 101578 / Approval MARI MIXED NAPL IMPACTED GR		1	VACTRU-TT		G	1/1	
		7	otal Hours:	0			
		# of	Containers:	1			
Comments:							
Signature: Mejan	Doseli		***				
Print Name: Megan	Dascoli a	fent.	Gr Nati	onal G	nid		

Customer authorizes Contractor to make changes on Customer's behalf in regards to transporters used and to perform ! Services, including adding or changing transporters listed on manifests. If Customer provides an approved transporter li writing to Contractor at the time Customer executes this Agreement, Contractor shall select only those transporters on the when providing transportation services to Customer. If Customer does not provide an approved transporter list in writing Contractor at the time Customer executes this Agreement, Customer authorizes Contractor to select any permitted transto provide transportation services to Customer.

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



PACKING SUMMARY

Generator Number: 640920

EQUITY WORKS MGP SITE

254 MASPETH AVE BROOKLYN, NY 11211 Manifest Number:

001714542VES

Field System ID:

JS

Work Order Number: Date Shipped:

3277583000 05/06/2019

Altn:

EPA ID: NYR000225615

Container#: JS-3277583000-001

Waste Area:

Manifest Page/Line: 01 / 1

WP: 101578

DisposalCode: MARBULK5

PHY State: L.

Date Accumulated: 05/06/2019

Gen Drum ID:

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

(D001.D018)

Outer Container: VACTRU-TT

Inner Container:

No. of Commons: 01 Primary Waste Codes: D001,D018,B

PCB Serial #:

Total Crass Wt: 5000

Units

OOS Date: //

SIC: 1389

Source: G49

Form: W606

System: H061

Cubic Ft.: 625.00

Individual Common Weights:

Container Stre

1 @ 5000 (GALLONS)

Net Weight

Chemical Name

EPA/State Codes D001, D018, B

1 TANKTR BENZENE [21000B] NAPHTHALENE [57000B] TOLUENE [12000B] NAPL IMPACTED WATER [95%] MAY CONTAIN

NAPL SÓLIDS (5%)

UCH



Plea	ase	print or type.						(4)		Approved.	OMB No.	2050-0039
Î		NIFORM HAZARDOUS	1. Generator ID Number N Y R O O O 2 2 5 6 1 5	2. Page 1 of	0.0000000000000000000000000000000000000	ncy Response 818-0037	Phone	4. Manifest		454	2 VI	S
П	_	Generator's Name and Mailin	an Address				(if different th	an mailing addres		101		
	EC 17 HI Ge	QUITY WORKS MG 5 E. OLD COUNTRY CKSVILLE, NY 118 nerator's Phone:	PP SITE Y ROAD 901 516 545-2586		254 MA	SPETH A CLYN, NY	VE		ecte			
П	6.	Transporter 1 Company Nam	ne					U.S. EPA ID N	lumber	Va 20 W		
11		NVIRON. TRANSPO						11 17 17 17 17 17 17 17 17 17 17 17 17 1	0 100	0 6 9	2 0	6 1
П	7.	Transporter 2 Company Nam	ne					U.S. EPA ID N	lumber			
B. Designated Facility Name and Site Address U.S. EPA ID Number												
	8.	Designated Faculty Name and	VEOLIA ES TECHNICAL SOLU 125 FACTORY LANE MIDDLESEX, NJ 08846	TIONS				U.S. EPAID	vumper			
П	Fa	cility's Phone: 732, 46	59-5100					NJD	0 0	2 4 5	4 5	4 4
	9a H		tion (Including Proper Shipping Name, Hazard Class, ID Number any))	er,	-	10. Contain No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Code	s
7	Γ;	(1. UN1993, WAS	STE FLAMMABLE LIQUIDS, n.o.s.,							D001	В	
GENERATOR		(BENZENE, P) (D001,D018)	PETROLEUM DISTILLÀTES), 3, II, RQ			1	тт	530	G	D018		
IN S	Γ	2.										
1									1 1			
11	-	3.			-				-			
П												
П	L											
11	1	4.										
11												
11	14	. Special Handling Instruction	ns and Additional Information ER. Service Con	tracted by V	ESTS -I-	Contract	retained b	v generator				
		confers agency au 101578; A: MARE	nthority on initial transporter to add or substitut BULKS; MIXED NAPL IMPACTED GROUN	te additional	transport	ers on gen	erator's be	half - - 1) V	v: CLĆ	4		
11	15	GENERATOR'S/OFFERO	OR'S CERTIFICATION: I hereby declare that the contents of	his consignment	are fully and	accurately de	scribed abov	e by the proper sh	nipping name	, and are clas	ssified, pack	aged,
	1	marked and labeled/placal Exporter, I certify that the	arded, and are in all respects in proper condition for transport a contents of this consignment conform to the terms of the attac nimization statement identified in 40 CFR 262.27(a) (if I am a I	ccording to appl hed EPA Acknow	icable interna vledgment of	ational and nati Consent.	ional governr	nental regulations	. If export sh	ipment and t	am the Prim	ary
	1	nerator's/Offeror's Printed/Ty Negan Das	11 200 :- 1	Grod 10	llefe	and	onp	P. 85	t far	ه المحدث		Year
E		. International Shipments	Import to U.S.	Export from	u.s.	Port of en	try/exit:					
M	_	ansporter signature (for expo Transporter Acknowledgmen				Date leavi	ing U.S.:	/				
ZEF	Tra	insporter 1 Printed/Typed Na	ame //.	s	nature	_	6/	1,		Mor	nth Day	Year
0		MMES	SISMULI	1	120	el.	1134	12		10	SIDE	W
TRANSPORTER	Tra	ansporter 2 Printed/Typed Na	ame / Sur Ame	Si	rature	0	,			Mor	nth Day	Year
1	$\overline{}$. Discrepancy)							
	18	a. Discrepancy Indication Sp.	pace Quantity Type			Residue		Partial Re	jection	[Full Re	ection
1	L				Man	ifest Reference	e Number:					
È	18	b. Alternate Facility (or Gene	erator)					U.S. EPA ID I	Number			
FACILITY	Fa	cility's Phone:						1				
DESIGNATED	18	c. Signature of Alternate Faci	cility (or Generator)							Mo	onth Da	y Year
NS!	19	. Hazardous Waste Report M	Management Method Codes (i.e., codes for hazardous waste to	reatment, dispos	al, and recvo	ling systems)						
DES	1.	1101	2.	3.	.,	9 -14-101114		4.				
1	20	Designated Facility Owner	or Operator: Certification of receipt of hazardous materials con	vered by the mar	nifest except	as noted in Her	m 18a					
		inted/Typed Name			gnature	7				<i>y</i> -	mth Day	Year
ţ	1	DINNE	- ysuan	1	4 -	12	cer	w		1-	16	19

Se wehour

LUCATION

3/1/2019

Gals

530 / B

Code Nbr SampleNbr Date Ship To Broker Generator S160-7242 EQUITY WORKS MGP SITE 19126-00065 5/6/2019 VEOLIA ES TECHNICAL SOLUTIONS, LLC OP# Ord#-LR# Source Tank Still Run Fuel Lot# Dest. 404 238488 T-221 S160 530 gal

CHARACTERISTICS Test Method ASIS S160-7242 1.06 SP GR D/BRN Color H2O solubil 16 24.19 KF% pH 6.98 12129 BTU/# BTU/gal 107099.07 8.83 Lbs/gal

0

0.13

0

Ash

CI%

Peroxide ppm

META	LS			
<u>Name</u>	Code	PPM	Msg	

2 5///2019 **LOCATION** AC Vehour Date SampleNbr Ship To Code Nbr Broker Generator EQUITY WORKS MGP SITE S160-7242 5/6/2019 19126-00065 VEOLIA ES TECHNICAL SOLUTIONS, LLC Gals OP# Ord# -LR# Fuel Lot# Still Run Source Tank Dest. 404 530 gal 530 / B 238488 T-221 S160 COMPOSITION **PCBs PCB** PPM Msg Code Chemical Normalized Weight % Weight % Volume %

<u>DISCLAIMER</u> - THIS IS A VEOLIA ES TECHNICAL SOLUTIONS, L.L.C. INTERNAL DOCUMENT ONLY. THESE ARE PRELIMINARY LAB RESULTS AND MAY NOT HAV BEEN REVIEWED OR CONFIRMED.

Veolia Environmental Services

125 Factory Lane Middlesex, NJ 08846 (732) 469-5100

Weigh Ticket

Date Scheduled:

05/06/2019 13:30:00

Customer Name:

EQUITY WORKS MGP SITE

Fransporter:

ENVIRONMENTAL TRANSPORT GROUP, INC.

Trailer #:

404

Weigh Ticket #:

207043

Order Number:

238488

OrderType:

WR

Weighing Tractor: YT7

General Notes

Гуре	Weight	U of M	Date		Capture Type	Specific Weighing Notes	
3ross	35,700	Lb	5/6/19	1:28 pm	Electronic		
「are	30,940	Lb	5/6/19	2:19 pm	Electronic		

Net:

4,760.00 Lb

June 10, 2019 Manifest

239173

Please print or type. 4. Manifest Tracking Number 1. Generator ID Number 3. Emergency Response Phone UNIFORM HAZARDOUS Amel Januar 001 WASTE MANIFEST (877) B18:0087 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) JOE ODIERNA EQUITY WORKS MGP SITE 254 MASPETH AVE 175 E. OLD COUNTRY ROAD

HICKSVILLE, NY 11801

Generalor's Prone:

124 A45 2505 6. Transporter 1 Company Name U.S. EPA ID Number TRANSPORT GROUP INC.

7. Transporter 2 Company Name N J D 0 0 0 6 secondates for engage of the 8. Designated Facility Name and Site Address U.S. EPA ID Number VEOLIA ES TECHNICAL SOLUTIONS 125 FACTORY LANE na dagany kita ing magangang paggang kananan ana ang malah ang mga babang mga bangan i MIDDLESEX, NJ 08846 programma programma al uniforcisció 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 12. Unit 11. Total 13. Waste Codes 9a and Packing Group (if any)) WI Not HM No. Quantity Type UN1993, WASTE FLAMMABLE LIQUIDS, n.o.1, (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ DOOL B GENERATOR (D001,D018) 0 D018 TT Couranter 1913, Region of San America, 2012, the many light fill of the date of 11 than a the the finite and children of the fleet electronics melt done down 63-40 A 14. Special Handling Instructions and Additional Information HR Service Contracted by VESTS - Contract retained by generalox confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf. + 1) W: 101578; A; MARBULKS; MIXED NAPL IMPACTED GROUD WATER 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 EPAAcknowledgment 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) (it is an asmall quantity generator) is true. Month Day Year Generator's Offeror's Printed Typed Name Import to U.S. Export from U.S Port of entry/exit: Transporter signature (for exports only): Date leaving.U.S.: 17. Transporter Acknowledgment of Receipt of Materials Day Transporter 1 Printed Typed Name Month Signature 18. Discrepancy 18a. Discrepancy Indication Space Туре Full Rejection Partial Rejection Quantity Residue Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: Month Day B 18c. Signature of Alternate Facility (or Generator) DESIGNAT 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 101 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as polyd in Item 18a Printed/Typed Nag EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

Veolia Environmental Services

125 Factory Lane Middlesex, NJ 08846 (732) 469-5100

Weigh Ticket

Date Scheduled:

06/10/2019 16:00:00

Customer Name:

EQUITY WORKS MGP SITE

Transporter:

ENVIRONMENTAL TRANSPORT GROUP, INC.

Trailer #:

195

Weigh Ticket #:

207193

Order Number:

239173

OrderType:

WR

Weighing Tractor: YT7

General Notes

Туре	Weight	U of M	Date		Capture Type	Specific Weighing Notes
Gross	37,060	Lb	6/10/19	6:23 pm	Electronic	
Tare	32,940	Lb	6/10/19	7:08 pm	Electronic	

Net:

4,120.00 Lb

QC Report

Location

6/11/2019

1

Date 6/10/2019 Code Nbr S160-7242 SampleNbr 19161-00075

<u>Broker</u>

VEOLIA ES TECHNICAL SOLUTIONS, LLC Generator EQUITY WORKS MGP SITE Ship To

OP#

Ord# -239173 LR#

Fuel Lot#

Still Run

Source Tank

195

k

Dest. T-215

S160

483 gal

Gals 483 / B

CHARACTERISTICS

Test Method	ASIS S160-7242
SP GR	1.041
Color	black
H2O solubil	0
KF%	25.43
рН	4.13
BTU/#	13991
BTU/gal	121301.97
Lbs/gal	8.67
CI%	0.8
Peroxide ppm	0

ЛЕТА	LS			
lame	Code	PPM	Msg	

DISTILLATION

QC Report Location Ship To Generator **Broker** SampleNbr Code Nbr Date EQUITY WORKS MGP SITE S160-7242 19161-00075 VEOLIA ES TECHNICAL 6/10/2019 SOLUTIONS, LLC Gals Source Tank Fuel Lot# Still Run OP# Ord# -LR# Dest. 483 / B S160 483 gal T-215 195 239173 **PCBs** COMPOSITION Msg Code **PPM PCB** Normalized Chemical Weight % Weight % Volume %

0/11/2017



JOB NO: 3298776888 BILL DOC NO JS89394694 GENERATOR NO 648928

WO NO: 3298776000 EPA ID: NYR000225645

BILL TO: NATIONAL GRID 175 E OLD COUNTRY RD HICKSVILLE, NY. 11801-4257 (516) 545-2255

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

CONTACT: JOSEPH ODIERNA

CONTACT: WILLIAM RYAN, PROJECT MANAGE

MANIFEST NUMBER(S): 001714584VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER			SHIP DATE	E		TERR
				06/10/29	19		N05
DESCRIPTION	The state of the s	# CONT.	CONT./CODE	OTY	UOM	PGALM	WASTE AREA
Manifest # 001714584VES WIP 101578 / Approval MARI MIXED NAPL IMPACTED GR		1	VACTRU-TT		G	1 1	
			otal Hours:	0			
		# of (Contamers:	1			
Comments:							
Signature:	7			an annahil			
Print Name:	18 21m	-					

Customer authorizes Contractor to make changes on Customer's behalf in regards to transporters used and to perform it. Services, including adding or changing transporters fisted on manifests. If Customer provides an approved transporter is writing to Contractor at the time Customer executes this Agreement, Contractor shall select only those transporters on the when providing transportation services to Customer. If Customer does not provide an approved transporter list in writing Contractor at the time Customer executes this Agreement, Customer authorizes Contractor to select any permitted transfer to provide transportation services to Customer.

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

July 17, 2019 Manifest

239647

TRANSPORTER

Please print or type. Manifest Tracking Number 1. Generator ID Number 3. Emergency Response Phone **UNIFORM HAZARDOUS** abolti insengti WASTE MANIFEST NYR 0 0 0 2 2 (877) 818-0087 (877) RTR-COH /
Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address JOE ODIERNA EQUITY WORKS MGP SITE 175 E. OLD COUNTRY ROAD: No. 151 and profit force and profit printer of the BROOKLYN, NY. 11211-0000 country of assumption of the second state of the second HICKSVIILE, NY 11801 कर हुन, करें देखती राज्याते समावत्य असति केवा या देखता विकास हते प्रकारक महीत्र करते हुन महिल्ला हता, महिल्ला 6. Transporter 1 Company Name U.S. FPA ID Number N 1 D 0 0 0 6 ENVIRON. TRANSPORT GROUP INC. 7. Transporter 2 Company Name U.S. FPA ID Number subqueent to according it U.S. EPAID Number 8. Designated Facility Name and Site Address VEOLIA ES TECHNICAL SOLUTIONS to be the theory of MIDDLESSX, NV 08846 (recepted) in the policy of the state of th par ta flavage per sagion protes, a proper palace la essi pr Facility's Phone: N J D 0 0 2 4 5 732 469-5100 13. Waste Codes 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 10. Containers 11. Total 12. Unit 9a. and Packing Group (if any)) was applicative the Lagrangian and past in the lagrangian service of the engine Quantity Wt.Nol. HM No. UN1993, WASTE FLAMMABLE LIQUIDS, no.s., B D001 GENERATOR (BENZENE, PETROLEUM DISTILLATES), 3, II, RQ (DOOL,DOLS) (produced covid skill finds) subscribit horizon to be all to relieve and or D018 G. i di udirili n rame H. Sail molecutific (petusses was APGL 51 many on galariage). Style ending 40 military 20 military 20 mili 机药 机链 interior and the about it is the transfer was a first read of the dadovia du sopulla as 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.MARBULKS MOXED NAPL IMPACTED OROUNDWATER KECENED: GALCONS 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 Month Day Year Generator's/Offeror's Printed/Typed Name Grega Rickert 16. International Shipments Import to U.S. Port of entry/exit: Export from U.S. Date leaving U.S.: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials Transpoder 1 Printed/Typed Name Month Day Year Signature Transporter 2 Printed/Typed Name Signature 18. Discrepancy Full Rejection 18a. Discrepancy Indication Space Type Residue Partial Rejection Quantity Manifest Reference Number: U.S. EPA ID Number 18b, Alternate Facility (or Generator) Facility's Phone: Day, DESIGNATED 18c. Signature of Alternate Facility (or Generator) 19. Hazardous Waste Report Management Mothod Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 061 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

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

Veolia Environmental Services

125 Factory Lane Middlesex, NJ 08846 (732) 469-5100

Weigh Ticket

Date Scheduled:

07/17/2019 13:30:00

Customer Name:

EQUITY WORKS MGP SITE

Transporter:

ENVIRONMENTAL TRANSPORT GROUP, INC.

Trailer #:

195

Weigh Ticket #:

207327

Order Number:

239648

OrderType:

WR

Weighing Tractor: YT6

General Notes

Туре	Weight	U of M	Date		Capture Type	Specific Weighing Notes
Gross	37,060	Lb	7/17/19	2:03 pm	Electronic	
Tare	36,860	Lb	7/17/19	2:52 pm	Manual	manually recorded

Net:

200.00 Lb

QC Keport

Location

7/18/2019

Date 7/17/2019

OP#

Code Nbr S130-7105 S160-7242

SampleNbr 19198-00052

Broker

VEOLIA ES TECHNICAL

SOLUTIONS, LLC

Generator

Ship To

EQUITY WORKS MGP SITE

Ord# -

LR#

Fuel Lot#

Still Run

Source Tank

Dest.

Gals

239648

195

T-213 T-222 S130 S160 219 gal 267 gal 485 / B

CHARACTERIST	ics		
Test Method	BOT: 55.00% S160-7242	TOP: 45.00% S130-7105	
SP GR	1.071	1.012	
Color	BLACK	HAZY	
H2O solubil	0	100	
KF%	15.32	96.07	
NVR		0.22	
рН	5.97	7.99	
BTU/#	11845		
BTU/gal	105657.40		
Lbs/gal	8.92	8.43	
Ash	0		
CI%	0.38		
Peroxide ppm	0	0	

META	LS			
Name	Code	PPM	Msg	

QC Keport

Location

7/18/2019

2

Date 7/17/2019

Code Nbr S130-7105 S160-7242

SampleNbr

19198-00052

Broker

VEOLIA ES TECHNICAL

SOLUTIONS, LLC

Generator

EQUITY WORKS MGP SITE

Ship To

Gals

OP#

Ord# -239648

LR#

Fuel Lot#

Still Run

Source Tank

195

Dest. T-213 T-222

S130 S160

219 gal 267 gal 485 / B

DISTILLATION

COMPOSITION

Chemical

Weight % Volume %

Normalized Weight % **PCBs**

PCB

PPM

Code

Msg

VEOLIA

PACKING SUMMARY

Generator Number: 640920

EQUITY WORKS MGP SITE

254 MASPETH AVE BROOKLYN, NY 11211 Manifest Number:

001714630VES

Field System ID:

JS

Work Order Number: Date Shipped:

3318727000 07/17/2019

Attn:

EPA ID: NYR000225615

Container#: JS-3318727000-001

Waste Area:

Manifest Page/Line: 01 / 1

WIP: 101578

DisposalCode: MARBULK5

PHY State: L

Date Accumulated: 07/17/2019

Gen Drum ID:

Shipping Name: UN1993, WASTE FLAMMABLE LIQUIDS, n.e.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 #:

Total Cmns Wt: 5000

System: H061

OOS Date: / /

Cubic Ft.: 625.00

Individual Common Weights:

1 @ 5000 (GALLONS)

Units Container Size Net Weight

SIC: 1389

Chemical Name

Source: G49

EPA/State Codes

1

TANKTR

D001, D018, B

BENZENE [21000B] NAPHTHALENE [57000B] TOLUENE [12000B] NAPL IMPACTED WATER (95%) MAY CONTAIN

Form: W606

NAPL SOLIDS [5%]

Manifest Number: 001714630VES

Work Order Number:

3318727000

Page 1



JOB NO: 3318727000 BILL DOC NO JS09291704 WO NO: 3318727000 EPA ID: NYR000225615

GENERATOR NO 640920

BILL TO: NATIONAL GRID 175 E OLD COUNTRY RD HICKSVILLE, NY 11801-4257 (516) 545-2255

JOB SITE: EQUITY WORKS MGP SITE 254 MASPETH AVE BROOKLYN, NY 11211 (908) 623-0145

CONTACT: JOSEPH ODIERNA

CONTACT: MEGAN DASCOLI

MANIFEST NUMBER(S):

001714630VES

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR
	/	07/17/2019	N05
Comments:			
Signature:	- 4		
Company		1. The strate of	
Print Name: GRicker	for Behalf of National O	Gold	

Customer authorizes Contractor to make changes on Customer's behalf in regards to transporters used and to perform it Services, including adding or changing transporters listed on manifests. If Customer provides an approved transporter li writing to Contractor at the time Customer executes this Agreement, Contractor shall select only those transporters on the when providing transportation services to Customer. If Customer does not provide an approved transporter list in writing Contractor at the time Customer executes this Agreement, Customer authorizes Contractor to select any permitted transto provide transportation services to Customer.