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September 9, 2015

William Ryan Project Manager Site Investigation & Remediation National Grid 175 East Old Country Road Hicksville, NY 11801

> Re: Equity Former MGP Site Interim Remedial Measure, NAPL Recovery Construction Completion Report, Site# 224050

Dear Mr. Ryan:

The New York State Department of Environmental Conservation has reviewed the NAPL Recovery Interim Remedial Measure Construction Completion Report, dated May 2015, for the Equity Former MGP Site. The document is acceptable and is hereby approved.

Sincerely,

Henry T. Willems

Engineering Geologist 2

- ec: W. Ryan, National Grid T. Leissing, National Grid G. Cross, NYSDEC
  - G. Heitzman, NYSDEC



Environment

Prepared for: National Grid Brooklyn, NY Prepared by: AECOM Manhattan, NY 60137362 May 2015

# Completion Report Interim Remedial Measure for NAPL Recovery

Former Equity Works MGP Site Brooklyn, New York NYSDEC Site No.: 224050 Order on Consent Index #: A2-0552-0606



Environment

Prepared for: National Grid Brooklyn, NY Prepared by: AECOM Manhattan, NY 60137362 May 2015

## Completion Report Interim Remedial Measure for NAPL Recovery

Former Equity Works MGP Site Brooklyn, New York NYSDEC Site No.: 224050 Order on Consent Index #: A2-0552-0606

Prepared by

Mark McCabe, Program Manager

Reviewed By Mike Gardner

Reviewed by Peter S. Cox, Project Manager

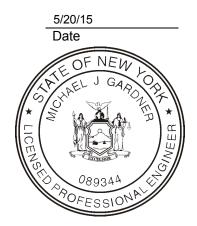
## **Engineering Certification**

I, Michael J. Gardner, certify that I am currently a NYS registered professional engineer and that this Interim Remedial Measure for NAPL Completion Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance (DER-10).

Respectfully submitted,

AECOM, Inc.

Michael J. Gardner Registered Professional Engineer New York License No. 089344



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### Acronyms

BUG	Brooklyn Union Gas Company
CAMP	Community Air Monitoring Plan
EEA	EEA Inc.
ESA	Environmental Site Assessment
ESI	Environmental Subsurface Investigation
FDNY	Fire Department of New York
ft	Feet
ft bgs	Feet Below Ground Surface
ft <sup>2</sup>	Square Feet
GFE	Gannett Fleming Environmental
gpd	Gallon Per Day
gpm	Gallons Per Minute
HASP	Health and Safety Plan
IRM	Interim Remedial Measure
mg/m <sup>3</sup>	Milligrams Per Cubic Meter
MGP	Manufactured Gas Plant
NAPL	Non-Aqueous Phase Liquid
NYCRR 6	New York Codes, Rules and Regulations Chapter 6
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCBs	Polychlorinated Biphenyls
PDI	Pre-Design Investigation
PM10	Respirable Particulate Matter that is 10 micrometers or smaller
PPE	Personal Protection Equipment
ppmv	Parts Per Million By Volume
PVC	Polyvinyl Chloride
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
SVOCs	Semivolatile Organic Compounds
TCLP	Toxicity Characteristic Leaching Procedure
TOC	Top Of Casing
TPH	Total Petroleum Hydrocarbons
TVOC	Total Volatile Organic Compounds
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds

#### **Executive Summary**

National Grid's consultant, AECOM, has prepared this Interim Remedial Measure (IRM) Completion Report to document the installation of a NAPL recovery system within the footprint of the former Equity Works Manufactured Gas Plant (MGP) site (the Site) located at 254 Maspeth Avenue in Brooklyn, New York. The IRM, as well as environmental investigation and other associated remedial activities, are being conducted pursuant to a Multi-site Order on Consent and Administrative Settlement, Index # A2-0552-0606, between The Brooklyn Union Gas Company (BUG), now d/b/a National Grid NY, and the New York State Department of Environmental Conservation (NYSDEC).

The site is located in a historically industrialized area. The Site was operated as a MGP from approximately 1893 to 1929. BUG 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.

Cooper Tank has been issued a NYSDEC Part 360 Permit for the expansion of active recycling operations on the 252 and 254 Maspeth Avenue properties. Conditions of that permit require the construction of a perimeter wall around open areas of the 254 Maspeth property and the installation of a concrete pad with a storm water collection system across the entire surface of the 252 and 254 Maspeth Avenue properties. Since the installation of the wall and concrete pad would significantly limit access to subsurface areas of the Site, NYSDEC requested that National Grid conduct an IRM to control potential migration of non-aqueous phase liquid (NAPL) while a final site remedy is developed through the DER 10 process. The IRM activities included the following:

- installation of 5 NAPL 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.

It should be noted that NAPL recovery is not performed at all recovery wells due to either the absence of NAPL or the limited thickness of NAPL within the collection sump of certain recovery wells. All recovery wells were installed during the period of March 3 to April 10, 2013. All locations had a common design (6 inch diameter, 5 and 10 foot stainless screens, 5 foot long sump to retain collected NAPL) and were equipped with the infrastructure to support automated recovery, if required. Eleven manual monitoring events were conducted during the period when Cooper Tank was designing and completing the installation of the concrete pad on the 254 Maspeth Avenue property (May 2013 to February, 2014). NAPL was collected during these events and managed at a permitted off-site facility as an alternative fuel in accordance with NYSDEC DER-4, "Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment". Data collected during these events indicated that NAPL collection rates at 13 of the 23 locations (2 on-site and 11 perimeter) warranted the installation of pumps to support automated recovery. The remaining 10 wells are managed using manual recovery techniques.

The pumps, associated controls and NAPL accumulation tank were installed during the period of June and July 2014. The fixed speed pumps are controlled by timers to ensure that the NAPL at each location is contained within the sump at a level above the pump inlet. The remaining locations are

monitored as part of the quarterly site inspection activities and NAPL is recovered on an as required basis to maintain the NAPL level within the sump.

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

The system is exempt from solid and hazardous waste permitting requirements under NYSDEC Guidance DER-10, "Technical Guidance for Site Investigation and Remediation" and the Consent Order for the Site since the substantive technical requirements of permits is met by the following:

- Development and Implementation of a Preparedness and Prevention Plan, Contingency Plan and Closure Plan.
- Maintaining Secondary Containment on the accumulation tank.

Additionally, the contents of the tank will be removed at a frequency of less than 90-days. It is expected that the contents will meet the requirements to be managed as an alternative fuel under NYSDEC DER-4. Collected NAPL that does not meet the requirements as an alternative fuels will be managed as a solid waste, and if necessary manifested as a hazardous waste for disposal at a permitted off-site facility.

The IRM monitoring and recovery activities will be documented in quarterly and annual Monitoring and Recovery Reports detailing the operation of the system, including NAPL collection rates, maintenance issues, unplanned releases/responses and a summary of off-site waste shipments for disposal.

#### 1.0 Introduction

National Grid's consultant, AECOM, is submitting this Interim Remedial Measure (IRM) Completion Report to document the installation of the NAPL recovery system within the footprint of the former Equity Works Manufactured Gas Plant (MGP) site (the Site) which 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), now 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: the background of the 222, 252 and 254 Maspeth Avenue properties is summarized in Section 2, activities associated with the installation of the recovery wells are detailed in Section 3, monitoring and NAPL recovery activities are summarized in Section 4, proposed reporting procedures related to the operation of the recovery system are provided in Section 5, and references are included in Section 6.

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#### 2.0 Site Background

A brief historical summary of the Site and description of the current property layout are provided below.

#### 2.1 Site History and Description

The Site is located in an historically industrialized area, which remains the same today. The Site was operated as a MGP from approximately 1893 to 1929. BUG sold the Site in September 1951. Subsequently, the Site was used for storage (pipe and valves) during the period of 1965 to 1981, and is believed to have been vacant during the period of 1986 to 1988. The Site is thought to have been used as a solid waste transfer facility since 1990 under the ownership of various parties.

#### 2.2 Current Property Layout

Information related to the current ownership and use of the Site is provided below:

- 222 Maspeth Avenue This property is owned by 222 Maspeth Avenue, LLC. and is currently
  used as an active waste recycling/waste transfer station operated by Cooper Tank Recycling
  (Cooper Tank). Currently, one enclosed building housing offices and one open building (no
  walls, with roof) housing waste recycling operations are located on the lot.
- 252 Maspeth Avenue This property is owned by Giacomo and Giovanna Bordone and is currently leased by Cooper Tank. The property is used as a maintenance center for equipment and a two story concrete building is located on the north side of the property, along Maspeth Avenue.
- 254 Maspeth Avenue This property is currently owned by 254 Maspeth Avenue, LLC. The
  property has been used for occasional storage of empty roll-off containers, parking of tractortrailers, and Cooper Tank employee vehicle parking. Two rectangular, in-ground scales for
  determining truck tare weight and a storm water collection structure are located on the
  northern portion of the property.

Cooper Tank has been issued a NYSDEC Part 360 Permit for the recycling facility. This permit, which covers the expansion of the current 222 Maspeth Avenue operations into the 252 and 254 Maspeth Avenue properties required construction of a perimeter wall around open areas of the 254 Maspeth parcel, and the installation of a concrete pad with a storm water collection system across the entire surface of the 252 and 254 Maspeth Avenue properties. This work was completed by Cooper Tank in the spring of 2014 at the 254 Maspeth Avenue property. Installation of a storm water collection system and concrete surface pad at the 252 Maspeth Avenue property is delayed with an unknown completion date.

Since the installation of the wall and concrete pad would significantly limit access to subsurface areas of the Site, NYSDEC requested that National Grid conduct an IRM while a final site remedy is developed through the DER 10 process.

May 2015

AECOM, on behalf of National Grid, conducted an IRM to collect NAPL while site-wide investigation and remedial design activities are completed. The design of the NAPL recovery system has been based on the installation of 23 NAPL recovery wells at locations that have the potential to collect NAPL, and are compatible with Cooper Tank's construction and long-term operational plans.

#### 3.1 Mobilization and Site Preparation

Mobilization for the IRM occurred on March 8, 2013, and included the staging of the necessary equipment and personnel to manage investigation derived waste, implement the Health and Safety Plan (HASP) and setup an on-site decontamination facility.

Site preparation activities included utility clearance and installation of site and traffic controls. Prior to the start of field activities, Dig Safely New York was contacted, and companies with subsurface utilities present in the work area marked-out their utilities in areas immediately adjacent to the Site. Cooper Tank provided site drawings to identify the locations of on-site utility lines. The IRM contractor (Envirotrac) delineated and marked-off work areas to facilitate the effective flow of site traffic for their and for Cooper Tank vehicles. Proposed well locations were surveyed by geophysical methods to identify possible locations of subsurface structures not indicated on available drawings. All well locations were pre-cleared to a depth of 5 ft bgs.

#### 3.2 Recovery Well Locations

Consistent with the NYSDEC approved work-plan (AECOM, 2013), NAPL recovery wells were installed in the following areas of the Site:

- **On-Site**–5 NAPL recovery wells (RW-1 through 5) were installed at locations within the 252 Maspeth Avenue property .
- Site Perimeter –18 NAPL recovery wells (RW-16 through 23) were installed along the perimeter of the Site on the 222, 252 and 254 Maspeth Avenue properties

An illustration of well locations is provided on Figure 3-1. The perimeter locations are spaced at approximately 18 feet - on center, with the exception of the area along the driveway of 254 Maspeth where the presence of a subsurface structure has required spacing of approximately 30 feet between the three NAPL 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, if needed.

#### 3.3 Recovery Well Designs

Recovery wells were designed to accommodate the uncertainty of long-term NAPL recovery rates. All well risers were constructed of 6-inch diameter schedule 40 polyvinyl chloride (PVC). Recovery well screens were constructed of 6-inch diameter 0.020-inch slot wire wrap stainless steel. Five (5) and ten (10) foot lengths of screen were used, as required, to address soil intervals where NAPL (i.e., saturated thickness greater than 1-inch) has been observed. Centralizers were installed at the top and bottom of each screen. The screen size was selected based on the grain-size information obtained

during the PDI. Each well was equipped with a 5-foot long, 6-inch diameter, stainless steel sump to collect NAPL. An illustration of a typical in-place recovery well, as installed using the procedures detailed below, is provided in Figure 3-2.

#### 3.3.1 Well Installation Procedures

The NAPL recovery wells were installed during the period of March 14 to April 10, 2013. Soil borings were advanced at each of the locations, and soil samples collected for observation. A summary of NAPL observations is provided as Table 3-1, with copies of the boring logs provided in Appendix A. Based on the observations, the bottom of the well screen was set at the bottom of the observed NAPL saturated interval. A summary of the design/actual depths and screen intervals for well installation is also provided in Table 3-1. Multiple intervals of NAPL saturation that were separated by low permeability soils within a location were screened separately.

The diameter of the bore hole for all locations was at least four inches greater than the riser and screen diameter. The well casing assembly, consisting of the sump, centralizer, screen, and casing was then lowered into the borehole and grout was carefully tremied into the base of the borehole until it reached the top of each sump. A sand filter pack was then placed around the well screen and the riser to a minimum of two feet above the top of the well screen. 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. A photograph of a completed location is provided as Figure 3-3.

It should be noted that the Work Plan outlined the use of a pre-determined quantity of cement/bentonite grout to be placed in the bottom of the boring to fill the annulus between the sump and the bore hole wall to the screen-sump interface where a cement basket was to be placed. However, well placement difficulties resulting in damage to the cement basket occurred during the first well installation. NYSDEC oversight personnel approved the alternate well installation method described in the paragraph above.

The elevation of the top of the vaults were set to be flush with the proposed final concrete ground surface for the facility. Installed wells were surveyed for elevation and location using a surveyor licensed in the State of New York. A minimum of 24-hours post-installation of the grout, each well was developed using surge and pump procedures to remove drilling fluids and fine-grained material from the sump, well screen, and filter pack. Development water was stored in on-site frac tanks prior to disposal at an approved off-site facility, as outlined in Section .3.2.2 below.

Equipment was routinely decontaminated to prevent the potential cross-contamination between boreholes and/or the spread of contaminated material outside of the IRM work areas. Large-scale equipment was pressure washed prior to leaving the Site. Decontamination water generated during cleaning of tools and equipment was temporarily stored on-site for later off-site disposal at an approved facility as outlined in Section .3.2.2 below. The installation of the infrastructure and controls for the system was completed on May 7, 2014.

#### 3.3.2 Environmental Controls

Environmental controls were implemented to ensure that the work activities were conducted in accordance with the NYSDEC approved Work Plan (AECOM, 2013).

#### 3.3.2.1 Air Monitoring

Site perimeter air monitoring was performed in accordance with NYSDOH requirements and the Community Air Monitoring Plan (CAMP) for the project. Concentrations of total volatile organic compounds (TVOC) ranged from 0.1 to 0.5 parts per million by volume (ppmv). Levels of respirable particulate matter (PM10) ranged from 0.01 to 0.8 milligrams per cubic meter (mg/m<sup>3</sup>). Summary data sheets from the monitoring program are provided in Appendix B.

#### 3.3.2.2 Waste Management

The installation of the recovery system resulted in the generation of the following wastes:

- Drill cuttings from the installation of the recovery wells (14.47 tons)
- Excavated soil and concrete/debris from the installation of the utility conduits running between the recovery wells and the recovery well vaults (783.6 tons)
- Purge water from the development of the wells and decontamination water (5,904 gallons)

In instances where existing analytical profiles were not available, the investigation derived wastes were characterized for the following analytical parameters: Toxicity Characteristic Leaching Procedure (TCLP), corrosivity, ignitability, reactivity, total petroleum hydrocarbons (TPH), and polychlorinated biphenyls (PCBs). All wastes were managed as solid wastes at a permitted off-site facility. Documentation of disposal at Bayshore Soil Management (soils), Bayshore Recycling Corporation (concrete/debris), and Clean Water of New York (purge/decon water) are provided in Appendix C. Note that the analysis of representative samples of the collected purge water from recovery well development indicated that material exhibited levels of benzene that exceeded the Toxicity Characteristic criterion for benzene. The frac tank containing the water was appropriately labeled to indicate that the contents had the potential to be a hazardous waste. Subsequently, the purge water was transferred to a second tank using a closed system that included an in-line carbon canister in accordance with New York Codes, Rules and Regulations Chapter 6 (NYCRR 6) Subpart 371.1(e)(3)(i). The rule exempts waste that is generated in a storage tank from regulation as a hazardous waste until it leaves the unit. Since the purge water was re-sampled in the second tank and found to have benzene levels that were less than the Toxicity Characteristic threshold, it was managed off-site as a solid waste. The spent carbon and sediment from the bottom of the frac tanks were managed in accordance with NYSDEC DER-4, "Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment." Personal protection equipment (PPE) was also managed at Bayshore Recycling, and is included in the quantity listed above.

### 4.0 Monitoring and NAPL Recovery

As part of the installation of the system, initial monitoring activities were conducted to provide a preliminary estimate of potential collection rates to determine which locations would require automation for cost-effective management of collected NAPL. Subsequent monitoring/recovery activities will be conducted on an as-required basis to a negotiated endpoint or until a final remedy is selected/implemented for the Site through the DER-10 process.

#### 4.1 Initial Monitoring

Eleven (11) manual monitoring events were conducted during the period when Cooper Tank was completing the design and installation of the concrete pad on the 254 Maspeth Avenue property (May 2013 to February 2014). As part of the monitoring activities, the depth to water, total well depth, and depth to NAPL were measured at each location. All readings were evaluated for reasonableness, and re-measured as necessary to ensure accurate data.

Collected NAPL was recovered using an air lift system. The system consists of an air compressor and sample line (1-in outside diameter [O.D.] 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.

Summaries of the results from the monitoring activities are provided in Tables 5-1 (NAPL thickness) and 5-2 (recovered NAPL). As indicated on Table 5-2, manual gauging and recovery activities performed between May 2013 and February 2014 have provided the following findings:

- The majority of NAPL (approximately 85 percent of total) has been collected from eight locations that have been designated as "primary recovery wells."
  - 2 interior wells
    - 252 Parcel RW-2, RW-3
  - 6 perimeter
    - 254 Parcel RW-10, RW-12, RW-13
    - 252 Parcel RW-18, RW-19, RW-20
- Five other perimeter locations have accounted for the remaining 15% of NAPL collected. They have been designated as "secondary recovery wells."
  - 254 Parcel RW-8, RW-9, RW-11, RW-17

- 252 Parcel RW-21
- None or limited quantities of NAPL have been observed in the 10 remaining wells. These have been designated as "gauging wells." At these locations, wells are purged on a regular basis if levels of NAPL have the potential to exceed the sump height in the well.

The collected NAPL is currently being managed as an alternative fuel at the Tradebe Facility in Cohoes, New York. The approach meets the requirements for managing the NAPL as a solid waste in accordance with NYSDEC DER-4. Documentation for the management of recovered NAPL is provided in Appendix C.

#### 4.2 On-going Monitoring and NAPL Recovery

The NAPL recovery system is intended to collect NAPL and develop data related to the nature and extent of to support the evaluation of potential long-term remedies for the Site. As a result, the NAPL recovery system will be operated in a manner that maintains the NAPL levels within the well sumps. The recovery approaches for the primary, secondary and gauging wells are described below:

- **Primary Recovery Wells** The eight primary wells currently produce about 1 gpd each of NAPL. 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 is 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.
- Secondary Recovery Wells The five secondary wells currently produce about 0.1 to 0.5 gpd of NAPL. The manual management of NAPL at these five 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 is not thought to be cost effective, and these locations were also be automated.
- **Gauging Wells** The ten gauging wells currently produce less than 0.1 gpd of NAPL. NAPL at these locations will be effectively managed using manual recovery techniques.

The locations of the automated wells are illustrated on Figure 4-1.

#### 4.2.1 System Operation

The primary and secondary locations have been equipped with fixed speed pumps manufactured by Pump Works. The well pumps are controlled with timers that will be adjusted based upon the observed recharge rates. The initial pumping rates for these locations are provided below.

- Primary Recovery Wells 0.2 gallons per minute (gpm) for approximately 5 minutes per day to achieve a recovery rate of approximately 1 gpd.
- Secondary Recovery Wells- 0.01 to 0.05 gpm for approximately 10 minutes per day to achieve a recovery rate of 0.1 to 0.5 gpd.

The timers will be adjusted as required to ensure that the NAPL is contained within the sump of each well, but at a level above the inlet to the pump to minimize the collection of groundwater. Collected NAPL accumulates in a 500 gallon capacity double walled polyethylene tank located above ground in the system's control trailer on the 254 parcel (Figure 4-2). 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. National Grid has developed the following documents to support the operation of the NAPL recovery system:

- **Preparedness and Prevention Plan** identifies communication/alarm systems and their associated maintenance/testing schedule, and will define staff training procedures. The document is used to familiarize local police, fire department and emergency response teams with the layout of the facility, nature of the waste, places where facility staff would normally be located and evacuation routes for site staff.
- **Contingency Plan** describes the actions to be taken in response to unplanned releases of waste. It provides lists of emergency contacts/support equipment; describe the arrangements with local police, fire department and emergency responders and identifies an evacuation route for site personnel.
- Closure Plan describes the approach for decommissioning the system, as well as detailing the steps necessary to decontaminate all of the system components and manage waste residuals.

Copies of the documents have been provided to Cooper Tank staff, as well as local police, fire and emergency responders.

The Gauging wells will be monitored during quarterly inspection activities and collected NAPL will be recovered using the air lift equipment described above. The NAPL will be transferred to the accumulation tank.

Accumulated NAPL will be collected as required for transport by a licensed contractor to the Tradebe Facility for use as an alternative fuel. Representative samples of the contents of the tank will be collected and analyzed as required to support the disposal activities. Samples will be submitted for proper waste characterization on an annual basis as required by the disposal facility.

#### 4.2.2 System Permitting Requirements

The collected NAPL is designated as a solid waste under NYCRR 6 Subpart 360-1.2 (a)(2)(iii), i.e. "it will be accumulated before being disposed of". Although the recovered NAPL will be a solid waste, NYSDEC guidance and regulations provide the following options for pursuing exemptions from associated permitting requirements for the accumulation tank.

• NYSDEC Guidance DER-10, "Technical Guidance for Site Investigation and Remediation" provides an exemption from certain permitting requirements for activities that are conducted as a component of a remedial program. Section 1.10 of DER-10 states that the NYSDEC will typically grant an exemption from state permits/ authorizations for activities conducted under appropriate oversight, e.g., an Order on Consent or Voluntary Cleanup Agreement, and in instances where NYSDEC determines that the proposed procedures/ activities will comply with the substantive technical requirements of the permit. Appendix 1-C of the guidance specifically lists the construction/ operation of solid waste management units as activities that are subject to the exemption described in Section 1.10 of the guidance. The potential for an exemption in instances where remedial activities meet the substantive technical requirements of a state permit is also incorporated in the referenced Consent Order for the Site (Section XIV, C.1). A review of the background information presented above demonstrates that the proposed operating practices for the NAPL accumulation tank are consistent with the technical and administrative requirements of the NYSDEC Solid Waste Management

regulations, NYCRR, 6 Subpart 360, and should make the system subject to a solid waste permitting exemption.

 NYCRR 6 Subpart 360-1.7 (b)(4) provides a separate and specific exemption from solid waste permitting for temporary storage facilities located at a single industry/commercial establishment and used exclusively for the management of waste at that facility. The intended purpose of the accumulation tank is also consistent with the requirements of this exemption from solid waste permitting.

Analytical results indicate that the NAPL has the potential to be classified a RCRA D018 Waste due to its benzene content. However, the results suggest that it is not likely to be designated as a Toxicity Characteristic waste for other constituents, or as an Ignitable, Corrosive or Reactive waste when generated. NYSDEC Guidance DER-4, "Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment" provides a conditional hazardous waste exclusion for D018 wastes at former MGP sites in instances when the waste is managed in accordance with New York State solid waste management requirements and is thermally treated at a facility permitted to receive non-hazardous media. It is expected that the recovered NAPL will meet these criteria and qualify for the hazardous waste exclusion.

Concerns that future variability in waste composition for constituents other than benzene might 'trigger' the requirement for a hazardous waste permit may also be addressed by the exemptions referenced in DER-10 and the Consent Order. Additionally, NYCRR 6 Part 373-1.1(d)(1)(iv) provides a separate and specific exemption to hazardous waste permitting requirements for accumulation units if the contents are removed in less than 90-days, secondary containment is used and certain administrative requirements, including prevention and preparedness training for staff, and preparation of contingency/closure plans are met. The proposed operating/reporting procedures are also consistent with the requirements of this exemption from hazardous waste permitting. However, wastes not meeting the requirements of the DER-4 exemption would have to be manifested and managed as a hazardous waste upon removal from the accumulation tank.

Analytical results from samples of representative samples of collected NAPL indicate that it could be classified as a Class III A Combustible Liquid due to its flash point, and could require a storage permit from the Fire Department of New York (FDNY) for the quantities that are expected to be accumulated. However, e-mail communication with FDNY stated that the storage permit requirement would not apply to the collected material at the Site since it will consist of a mixture of NAPL and water (Appendix D).

#### 5.0 Reporting

The IRM activities will be documented in an annual report for the first year of operation and quarterly Monitoring and Recovery Reports thereafter presenting the results from the on-going monitoring and NAPL recovery activities. The proposed contents of these periodic reports are outlined below.

The Reports will provide a summary of the monitoring events conducted during the period, including:

- A summary of observations from each well.
- Depths to water and NAPL in each well.
- Observed NAPL thickness in each well.
- Trends in observed NAPL thickness in each well.
- Quantity of mixed fluids recovered from each well.
- Manifests for the off-site management of waste.
- Documentation of unplanned releases and associated responses.
- Documentation of significant maintenance events.
- Recommendations for the subsequent monitoring and recovery activities.

#### 6.0 References

AECOM, 2013. Interim Remedial Measure Work Plan for Product Recovery, Equity Works Former MGP Site, Brooklyn, New York, NYSDEC Site No.: 224050, Order on Consent Index #: A2-0552-0606. January 2013.

AECOM, 2012. Interim Site Management Plan, Equity Works Former Manufactured Gas Plant Site, Brooklyn, New York, NYSDEC Site No.: 224050, Order on Consent Index #: A2-0552-0606. November 28, 2012.

National Grid, 2012. National Grid Environmental Procedure 2-A, Aboveground Storage Tank Management, December 2012.

New York State Department of Environmental Conservation (NYSDEC), 2002. Management of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment (DER-4), January 11, 2002.

NYSDEC, 2010. DER-10/Technical Guidance for Site Investigation and Remediation, May 10, 2010.

6-1

Tables

# Table 3-1Former Equity Works Product Recovery IRMWell Observations and Installation Parameters

Well ID	Installation Date	Screened Interval bgs (ft)	Sump Interval bgs (ft)	Total Well Depth (ft)	Top of Intermediate Clay bgs (ft)	Observations
RW-01	3/15-3/16/13	25'-40'	40'-45'	45'	40'	Approximately 14' of sand from 26'-40' was saturated with tar.
RW-02	3/17/2013	36'-46'	46'-51'	51'	46'	Approximately 9.5' of sand from 36.5'-46' was saturated with tar.
RW-03	3/17/2013	31'-46'	46'-51'	51'	46'	Approximately 7.5' of sand from 32'-32.5', 37'-43' and 45'-46' was saturated with tar.
RW-04	3/21/2013	16'-21' & 36'-46'	46'-51'	51'	46'	Approximately 1' of fill from 20'-21', and 2' of sand 44'-46' were saturated with tar.
RW-05	3/14-3/15/13	32'-42'	42'-47'	47'	42'	Fill coated with TLM @18'-21', 33'-40' pockets of sand saturated/coated with TLM, 40'-42' sand saturated with TLM.
RW-06	3/20/2013	17'-22' & 32'-42'	42'-47'	47'	42'	Fill coated with TLM @18'-19', and 10' of sand from 32'-42' was saturated with tar.
RW-07	3/23-3/24/13	Not finished	43'-48'	48'	43'	Approximately 10' of sand from 33'-43' was saturated with tar.
RW-08	3/23/2013	33'-43'	43'-48'	48'	43'	Approximately 8' of sand from 35'-43' was saturated with tar.
RW-09	3/18/2013	35'-45'	45'-50'	50'	44.5'	Approximately 9.5' of sand from 35'-44.5' was saturated with tar.
RW-10	3/18-3/19/13	31'-41'	41'-46'	46'	41	Approximately 4' of sand from 34'-38' and approximately 3' of sand layers interbedded with clay from 38'-41' was saturated with tar.
RW-11	3/19/2013	31'-41' & 16'-21'	41'-46'	46'		Approximately 2' of fill from 16'-18' and 6' of san from 34'-40' were saturated with tar, beds of sand from 30'-34' were also saturated with tar.
RW-12	3/19/2013	31'-41'	41'-46'	46'	40.5'	Approximately 6.5' of sand from 34'-40.5' was saturated with tar.
RW-13	3/20/2013	31'-41'	41'-46'	46'	41'	Approximately 8' of sand from 32'-40' was saturated with tar.
RW-14	3/20/2013	15'-20' & 30'-40'	40'-45'	45'	40'	Fill saturated with TLM @16.5'-18', and 7' of sand from 32'-39' was saturated with tar.
RW-15	3/19-3/20/13	30'-40'	40'-45'	45'	40'	Approximately 10' of sand from 30'-40' was saturated with tar.
RW-16	3/18-3/19/13	30'-45'	45'-50'	50'	45'	Approximately 7' of sand from 30'-32', 35'-40' was saturated with tar, pockets of tar from 40'-45'
RW-17	4/8-4/10/13	28'-43'	43'-48'	48'	43'	Approximately 13.5' of sand from 26.5'-40' had a coating of TLM, with saturated zones from 26'- 26.5' and 40'-43' with TLM
RW-18	3/14-3/15/13	35'-45'	45'-50'	50'	45'	Fill coated with TLM @ 19'-21', 33'-40' pockets of sand saturated/coated with TLM, 40'-45' sand saturated with TLM.
RW-19	3/16/2013	37'-47'	47'-52'	52'	46.5'	Approximately 5' of sand from 42'-47' was saturated with tar.
RW-20	3/15-3/16/13	37'-47'	47'-52'	52'	47'	Approximately 10' of sand 37'-47' was saturated with tar.
RW-21	3/18/2013	35'-45'	45'-50'	50'	45'	Approximately 6' of sand from 39'-45' was saturated with tar.
RW-22	3/16-3/17/13	31'-41'	41'-46'	46'	41'	Approximately 6' of sand from 35'-40.5' was saturated with tar.
RW-23	3/17/2013	24'-39'	39'-44'	44'	39'	Approximately 9' of sand from 25'-30' and 35'-39' was saturated with tar.

#### Table 4-1 Former Equity Works Manufactured Gas Plant Site Product Monitoring and Recovery Event Measured Thickness

	Loca	tion					Measu	red NAPL Thick	ness (ft.)				
	Parcel	Well ID	5/17/2013	5/31/2013	6/6/2013	6/13/2013	7/23/2013	8/26/2013	9/13/2013	10/18/2013	11/15/2013	12/6/2013	2/27/2014
		RW- 1	0.85	0.90	1.01	0.85	0.81	0.86	1.91	NM	NM	NM	2.5
	Γ	RW- 2	13.03	8.40	5.02	3.35	12.35	11.65	9.34	12.15	11.72	10.22	13.25
On-Site	252	RW- 3	15.45	10.25	5.03	4.26	14.55	13.15	11.15	13.32	NM	NM	NM
	Γ	RW- 4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
		RW- 5	1.33	1.80	1.75	2.10	2.32	3.25	4.35	4.30	0.72	0.21	2.11
		RW- 6	0.81	1.41	1.55	1.40	1.81	2.20	NE	3.0	3.73	0.30	3.11
	Γ	RW- 7	0.02	NE	0.12	NE	0.62	NM	NM	NM	NM	NM	NM
	Γ	RW- 8	2.53	3.11	2.65	3.21	5.22	1.80	3.05	4.22	1.55	1.20	5
	Γ	RW- 9	6.02	1.95	2.65	3.43	6.65	4.61	6.24	8.23	4.20	2.80	9.25
	254	RW- 10	13.05	7.05	4.22	2.20	6.11	11.85	9.01	11.93	11.00	9.91	12.85
		RW- 11	2.57	3.22	3.35	4.01	5.65	1.65	2.42	1.80	1.35	1.12	4.31
	234	RW- 12		12.96	13.03	11.92	11.90	12.22	11.90	11.71			
		RW- 13	13.50	12.61	6.98	5.00	11.93	11.45	10.60	11.42	11.70	9.15	12.33
Perimeter		RW- 14	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1 chilleter		RW- 15	1.02	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
		RW- 16	0.17	NE	NE	NE	0.15	0.03	NE	0.20	0.51	0.15	0.72
		RW- 17	1.40	1.60	1.12	0.71	3.35	3.75	4.75	6.02	6.60	0.23	5.85
		RW- 18	10.42	9.55	6.69	7.45	10.05	10.31	10.14	10.22	9.55	10.01	11.25
	252	RW- 19	13.18	11.45	7.42	7.50	12.62	12.45	11.55	11.42	11.05	11.65	12.75
	252	RW- 20	3.62	11.11	7.23	6.33	13.00	12.25	12.57	12.02	11.03	11.85	12.78
		RW- 21	3.75	4.05	0.85	1.58	4.40	4.02	3.24	5.81	4.05	3.60	10.02
l í	222	RW- 22	7.40	6.80	2.22	2.22	9.02	NM	9.31	9.45	9.32	9.40	9.35
	<i>LLL</i>	RW- 23	NM	NM	NM	NM	0.64	NM	1.17	1.20	NE	NE	1.54

Note:

NE - not encountered at thickness greater than 0.01 ft. NM- not measured, not accessible NAPL encountered, but not recovered

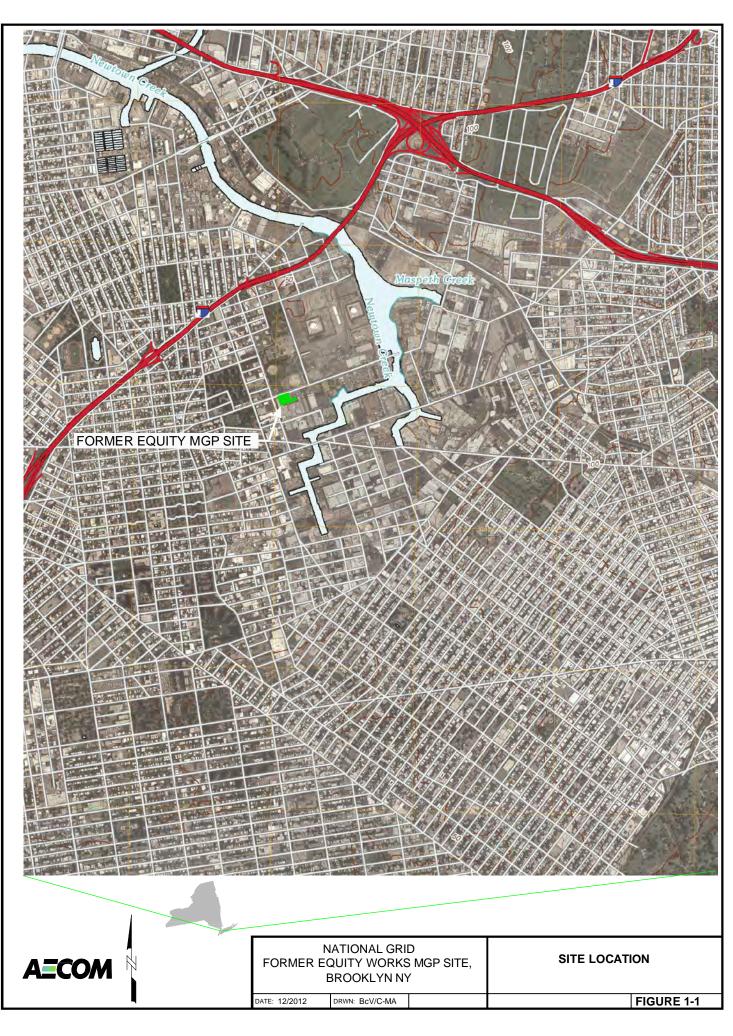
# Table 4-2Former Equity Works Manufactured Gas Plant SiteProduct Monitoring and Recovery EventQuantity of Product Recovered

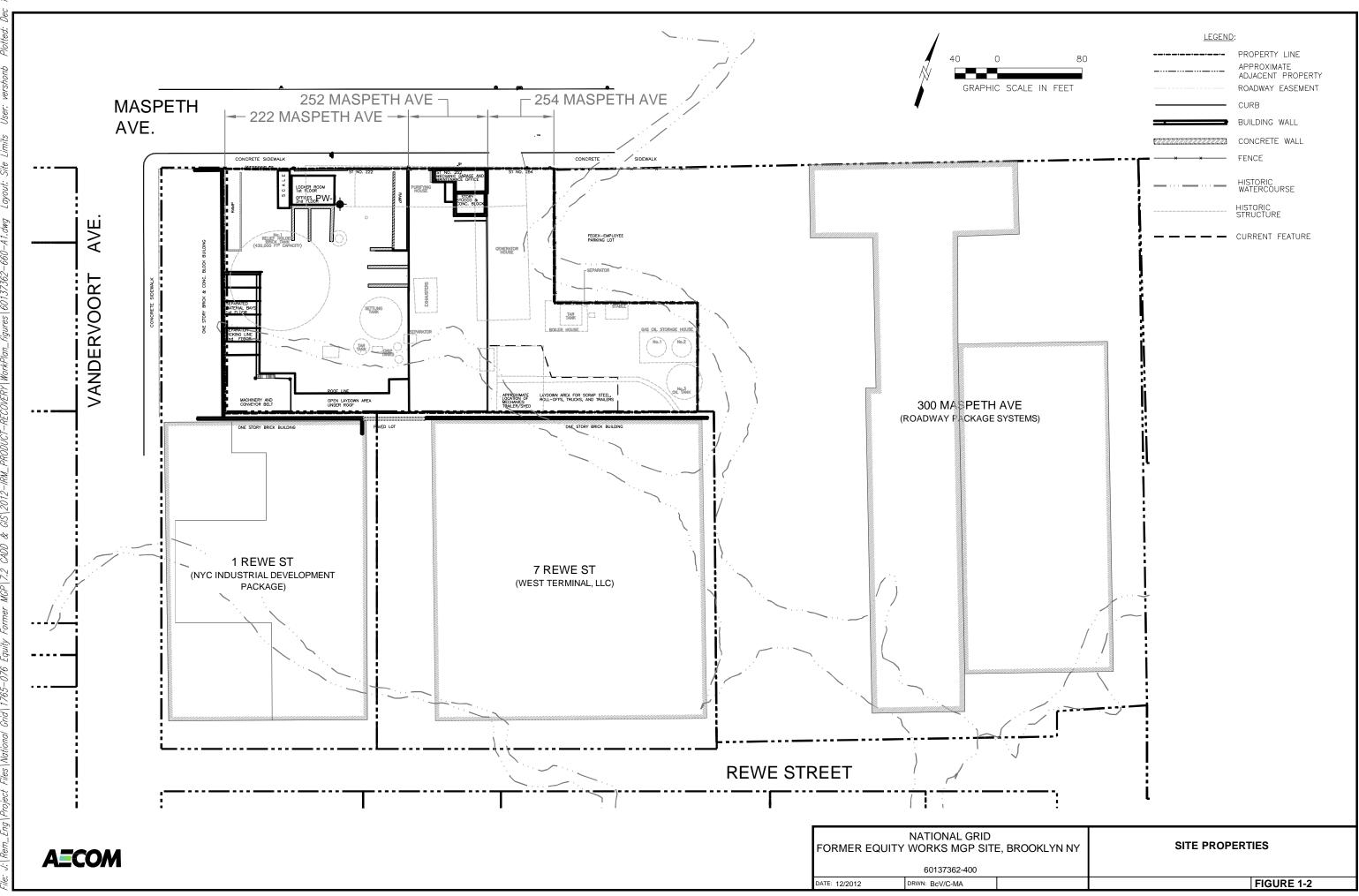
	Loca	ation					Gal. NA	PL Per Day a						Total gal.	Percent	
	Parcel	Well ID	5/17/2013	5/31/2013	6/6/2013	6/13/2013	7/23/2013	8/26/2013	9/13/2013	10/18/2013	11/15/2013	12/6/2013	2/27/2014	to date	of Total	
		RW- 1	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 2	0.3	1.0	0.9	0.9	0.6	0.4	0.9	0.6	0.7	0.9	0.3	169	10.1	
On-Site	252	RW- 3	0.3	1.2	1.0	0.9	0.7	0.4	1.2	0.6	0	0	0	124	7.4	
		RW- 4	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 5	0	0	0	0	0	0	0	0.2	0	0	0	7	0.4	18.0
		RW- 6	0	0	0	0	0	0	0		0	0	0	6	0.4	
		RW- 7	0	0	0	0	0	0	0		0	0	0	0		
		RW- 8	0	0.1	0	0	0.3	0	0	0.2	0.1	0	0	29	1.7	
	254	RW- 9	0.2	0	0	0	0.3	0	0	0.4	0.3	0	0	56	3.4	
		RW- 10	0.5	1.1	1.1	1.0	0.3	0.5	0.9	0.6	0.6	0.9	0.3	178	10.7	
		RW- 11	0	0.0	0.0	0	0.2	0.0	0.2	0.1	0.1	0	0.3	39	2.3	ļ
		RW- 12	0.2	1.6	2.3	1.7	0.6	0.5	1.2	0.5	0.7	1.1	0.3	193	11.6	
		RW- 13	0.2	1.3	1.3	1.3	0.6	0.4	1.0	0.5	0.6	0.8	0.3	171	10.3	
Perimeter		RW- 14	0	0	0	0	0	0	0	0	0	0	0	0		
enneter		RW- 15	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 16	0	0	0	0	0	0	0	0	0	0	0	0		
		RW- 17	0	0	0	0	0	0	0	0	0.4	0	0	20	1.2	41.5
	252	RW- 18	0.2	0.8	1.2	1.2	0.5	0.3	0.9	0.5	0.6	0.9	0.1	144	8.6	
		RW- 19	0.3	1.2	1.4	1.3	0.7	0.4	1.1	0.6	0.6	1.0	0.2	172	10.3	
		RW- 20	0.3	1.2	1.2	0.9	0.6	0.4	1.2	0.6	0.7	1.0	0.3	179	10.7	
		RW- 21	0	0.6	0	0.0	0.3	0.1	0.0	0.3	0.3	0.3	0.3	59	3.5	33.2
	222	RW- 22	0.3	0.7	0.7	0.4	0.4	0.0	1.0	0.5	0.5	0.9	0.2	120	7.2	
	222	RW- 23	0	0	0	0	0	0	0	0	0	0	0.2	2	0.1	7.3
otal		System Total	2.8	10.8	11.1	9.6	6.1	3.4	9.6	6.2	6.4	8	3.1	1,668		

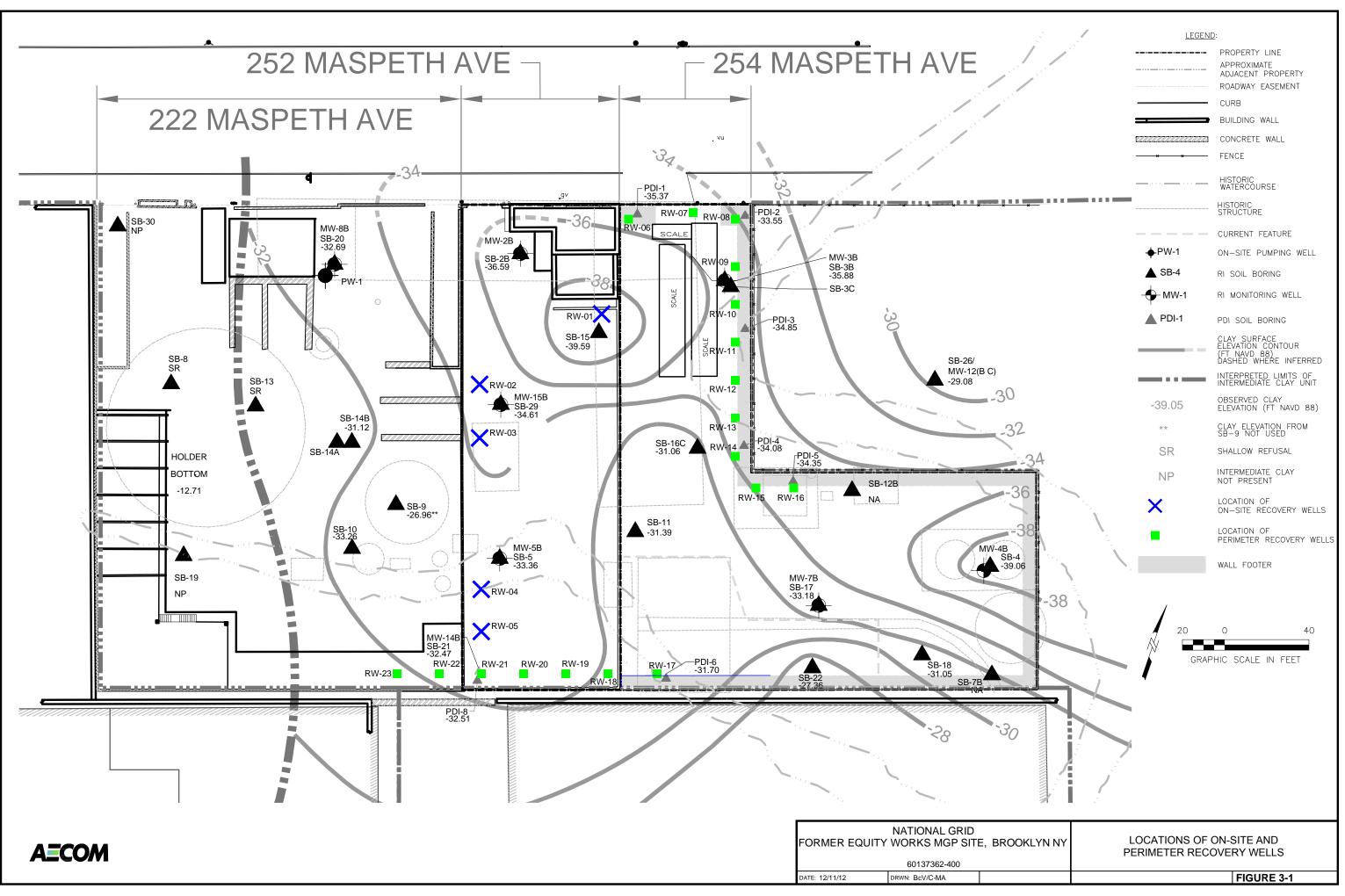
Notes:

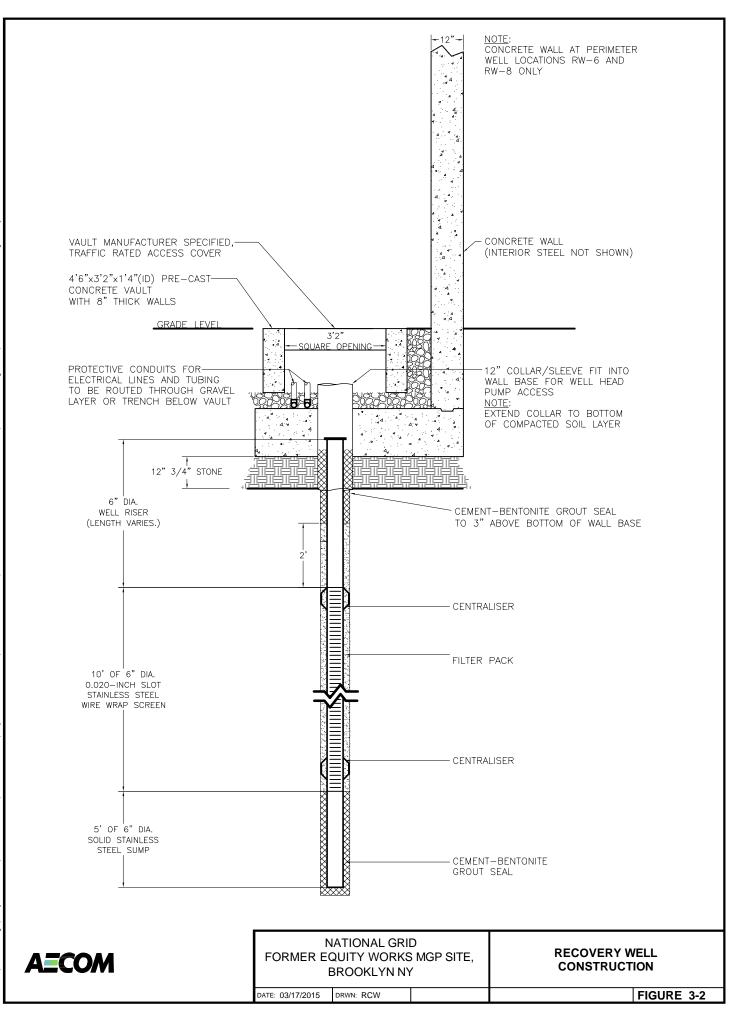
<sup>a</sup> estimated of NAPL quantity (total fluids \* estimated percent NAPL)

Figures







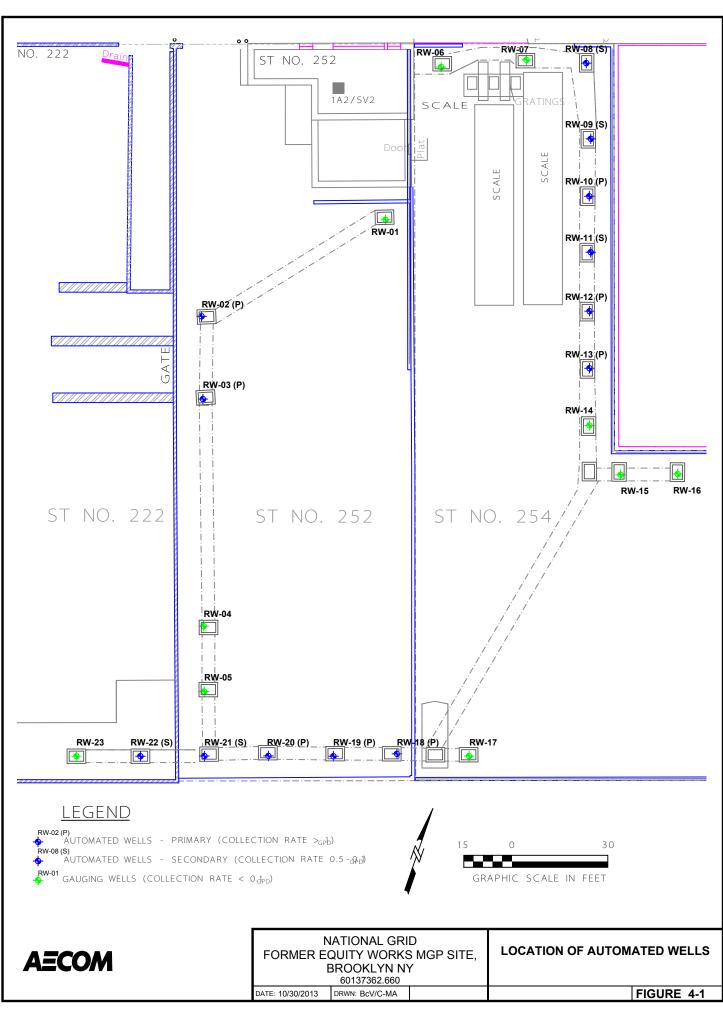


Mar Plotted: User: warrenr Layout: WellDetail J: |Rem\_Eng|Project Files|National Grid|1765-076 Equity Former MGP|7.2 CADD & GS|2012-IRM\_PRODUCT-RECOVERY|WorkPlan\_figures|60137362-660-41.dwg

File:

17,







Appendix A

**Boring/Recovery Well Logs** 

#### **AECOM** Boring and Well Construction Log BORING #: RW1

Sheet 1 of 2

0"	. NI (				1		1				
	: Nationa					: 300 Maspeth Ave, Brooklyn, NY	Logged By: St		_		
-	t: Equity		/IGP Site	9	Northing			ny: Boart Long Year	_		
-	ct #: 601				Ground Elevation:     10.4     Well Screen Interval (ft bgs):     25-40						
Start Date: 3/15/2013					Drilling Method: Roto-Sonic Water Level (ft): NA						
Finish	Date: 3	/16/2013	1		Borehole	Diameter:	Total Depth (ft):	45.0			
<ul> <li>Depth</li> <li>(ft bgs)</li> </ul>	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction		
	NA	NA			Concrete	Approximately 1 foot of CONCRETE 1.0					
2 4 6 8 10 12 12 14 14	NA	NA			FILL	FILL		6" Diam. Sch. 40 PVC Riser Bentonite Seal →			
18	NA	NA	-			FILL, tar coating					
20	NA	NA				PEAT, tar coating					
	NA	NA		<u> </u>	PT	PEAT, tar stringers and lenses					
	NIA	N14				SILTY fine SAND, tar coated		Filter Pack (#0 Sand)			
26	NA	NA			SP	25.0 SILTY fine SAND, tar saturated					
		R	emarks:	Boring Te	erminated (	(ft): 45.0					
Rock Phor	OM Enterprise ky Hill, CT ne: (860) 2 (860) 263	e Dr, Suite 06067 263-5800		See borin NA - Not Ground s	ng log SB- Applicable surface elev	15 for local/adjacent geologic descriptions. 2 / SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat ng coordinates referenced to New York State P	um.	х -			

#### **AECOM** Boring and Well Construction Log BORING #: RW1

Sheet 2 of 2

Client	Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
		Former N	/GP Site		Northing			ny: Boart Long Year	
	t#: 601				-	Elevation: 10.4		erval (ft bgs): 25-40	
	Date: 3/1					lethod: Roto-Sonic	Water Level (ft)		
	Date: 3/					Diameter:	Total Depth (ft):		
Depth (ft bgs)	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
28 30 32 32 34 36 38 40	NA	NA			SP	SILTY fine SAND, tar coated (continued)		6" Diam. 0.020 SS Continue <del>us</del> Wire Wrap Screen	
40 - 42 - 44	NA	NA			CL	40.0 CLAY 45.0		Grout →	
						End of boring at 45.0 ft. bgs.			
AEC 500 E	Enterprise	Dr, Suite	emarks:	See bori		(ft): 45.0 15 for local/adjacent geologic descriptions. e / SAA - Same as Above / bgs - below ground	surface		
Rock Phor	ky Hilİ, CT 1e: (860) 2 (860) 263	06067 63-5800		Ground s	surface elev	vation referenced to the Brooklyn Highway Dating coordinates referenced to New York State P	um.	\	

# **AECOM** Boring and Well Construction Log

BORING #: RW10 Sheet 1 of 2

Chefit	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
Projec	t: Equity	/ Former N	IGP Site		Northing: 686726.5 Easting: 649232.5 Drilling Company: Boart Long Year				
-	<b>:t #:</b> 601				-	Elevation: 10.3		erval (ft bgs): 31-41	
Start I	Date: 3/1	8/2013			Drilling N	lethod: Roto-Sonic	Water Level (ft)	NA	
Finish	Date: 3	/18/2013			Borehole	Diameter:	Total Depth (ft):	48.0	
<ul> <li>Depth</li> <li>(ft bgs)</li> </ul>	Recovery Length (%)	CIA (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
						FILL material			
2									
6	NA	NA						6" Diam. Sch. 40 PVC Riser	
8									
10					FILL				
12								Bentonite Grout	
14						14.0		Bentonite Grout	
	NA	NA				FILL material, tar coated 15.0			
16	NA	NA				FILL material, heavily tar coated			
18	NA	NA				FILL material			
						PEAT/organic material			
20	NA	NA			PT				
22									
24						24.0 SILTY fine SAND			
26	NA	NA			SP	SILTY fine SAND, tar coated			
			morke	Boring T	prmincted (	<del>4</del> ). 49.0			
Rock Phor		e Dr, Suite 06067 263-5800	emarks: 1A	See borir NA - Not Ground s	Applicable surface elev	<ul> <li>ft): 48.0</li> <li>3 for local/adjacent geologic descriptions.</li> <li>/ SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat or coordinates referenced to New York State P</li> </ul>	um.	X	

(Continued Next Page)

# **AECOM** Boring and Well Construction Log

BORING #: RW10 Sheet 2 of 2

				Looution	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
Equity	Former N	/IGP Site		Northing	: 686726.5 <b>Easting:</b> 649232.5	Drilling Compar	ny: Boart Long Year	
: 6013	37362			Ground E	Elevation: 10.3	Well Screen Inte	erval (ft bgs): 31-41	
e: 3/1	8/2013			Drilling N	lethod: Roto-Sonic	Water Level (ft)	: NA	
ate: 3/	18/2013			Borehole	Diameter:	Total Depth (ft):	48.0	
Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code			Well Construction Details	Well Construction
NA	NA				SILTY fine SAND (continued)		Bentonite Seal	
				SP	34.0		Filter Pack (#0 Sand) —	
NA	NA				SILTY fine SAND, tar saturated		6" Diam. 0.020 SS Continu <del>ou</del> Wire Wrap Screen	
NA	NA			SC	Interbedded SAND and CLAY, tar saturated			
NA	NA				CLAY		Grout — 6" Diam. SS Sump —	
				CL				
					48.0 End of horizon at 40.0 ft horizon			
2	e: 3/1 tte: 3/ Keconery Length Kecovery Length NA NA NA	e: 3/18/2013 tte: 3/18/2013 tte: 3/18/2013 tte: 3/18/2013 tte: 3/18/2013 ute: 3/18/2013 ute: 3/18/2013 ute: 1000000 ute: 100000 ute: 1000000 ute: 100000 ute: 1000000 ute: 1000000 ute: 1000000 ute: 1000000 ute: 10000000 ute: 10000000 ute: 10000000 ute: 10000000000 ute: 1000000000000 ute: 1000000000000000000000000000000000000	e: 3/18/2013 tte: 3/18/2013 tte: 3/18/2013 (uite: 3/18/2013 (u	e: 3/18/2013 tte: 3/18/2013 tte: 3/18/2013 (0) (0) (0) (0) (0) (0) (0) (0)	e:       3/18/2013       Drilling M         nte:       3/18/2013       Borehold         ubuen (w)       (i)       (i)	e: 3/18/2013 Drilling Method: Roto-Sonic te: 3/18/2013 Borehole Diameter:	e: 3/18/2013 Drilling Method: Roto-Sonic Water Level (ft) tet: 3/18/2013 Borehole Diameter: Total Depth (ft): tet: 3/18/2013 Borehole Diameter: Total Depth (ft): Total Depth (ft): tet: 3/18/2013 Borehole Diameter: Total Depth (ft): tet: 3/18/2013 Borehole Diameter: Total Depth (ft): tet: 3/18/2013 Borehole Diameter: Total Depth (ft): Total Depth (ft): Soli and Rock Description Classification Scheme: USCS NA NA NA SPACE SPACE BORE BORE BORE BORE BORE BORE BORE BOR	a:       3/18/2013       Drilling Method:       Roto-Sonic       Water Level (ft):       NA         te::       3/18/2013       Borehole Diameter:       Total Depth (ft):       48.0         tgg       gg       gg       Soil and Rock Description Classification Scheme: USCS       gg       gg         NA       NA       NA       NA       SILTY Ime SAND (continued)       Benchote Seal

Sheet 1 of 2

			_						
Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	teve Wright	
Proje	ct: Equity	/ Former I	MGP Site	e	Northing	: 686710.1 <b>Easting</b> : 649238.6	Drilling Compa	ny: Boart Long Year	
Proje	ct #: 601	37362			Ground I	Elevation: 10.3	Well Screen Int	erval (ft bgs): 31-41	
Start	Date: 3/1	9/2013			Drilling N	Method: Roto-Sonic	Water Level (ft)	: NA	
Finisł	Date: 3	/19/2013			Borehole	Diameter:	Total Depth (ft):	46.0	_
Depth (ft bgs)	Recovery Length (%)	DID (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS	I	Well Construction Details	Well Construction
0	Reco		Olfac		S			Well (	Ŝ
						FILL material			
2									
_									
4	ļ								
-								6" Diam. Sch. 40 PVC Riser	
6									
-								Bentonite Seal -	
8	NA	NA							
	NA	NA NA							
-									
10					FILL				
_									
12									
-									
14									
-								Filter Pack (#0 Sand)	
16						16.0			
						FILL material, tar saturated			
-	NA	NA							
18						18.0 FILL material		6" Diam. 0.020 SS Continueus	
_	NA	NA						Wire Wrap Screen	
20						20.0			
						PEAT/organic material			
-	1								
22	NA	NA		$\frac{\nabla y}{2} \xrightarrow{\nabla y} \frac{\nabla y}{2} \xrightarrow{\nabla y} \nabla $	PT			6" Diam. Sch. 40 PVC Riser	┣┃
-				<u> </u>					
24				1, 11, 11,		24.0			
						SILTY fine SAND, tar coated bands			
-	1				SP			Bentonite Seal —	
26									
		R	emarks:	Borina Ta	erminated	(ft): 46.0			
AEC	OM					-3 for local/adjacent geologic descriptions.			
500	Enterprise	e Dr, Suite	ə 1A	-		/ SAA - Same as Above / bgs - below ground	surface		
Roc Pho	ky Hilİ, CT ne: (860) 2	06067 263-5800				vation referenced to the Brooklyn Highway Dat			
Fax:	(860) 263	-5777				ng coordinates referenced to New York State P			

roject: Equity Former MGP Site Northing: 686710.1 Easting: 649238.6 Drilling Company: Boart Long Year roject #: 60137362 Ground Elevation: 10.3 Well Screen Interval (ft bgs): 31-41 tart Date: 3/19/2013 Drilling Method: Roto-Sonic Water Level (ft): NA inish Date: 3/19/2013 Borehole Diameter: Total Depth (ft): 46.0						Looution	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve wright	
roject #:       60137362       Ground Elevation:       10.3       Well Screen Interval (fth bgs):       31.41         ttart Date:       3/19/2013       Drilling Method:       Robo-Sonic       Water Level (ft):       NA         inish Date:       3/19/2013       Borehole Diameter:       Total Depth (ft):       46.0         igg g       g <th>Project:</th> <th>Equity  </th> <th></th> <th>IGP Site</th> <th>•</th> <th></th> <th></th> <th></th> <th></th>	Project:	Equity		IGP Site	•					
tart Date:       3/19/2013       Drilling Method:       Roto-Sonic       Water Level (ft):       NA         inish Date:       3/19/2013       Borehole Diameter:       Total Depth (ft):       46.0         inish Date:       3/19/2013       Borehole Diameter:       Total Depth (ft):       46.0         inish Date:       3/19/2013       Image of the second of the						-				
Inish Date:       3/19/2013       Borehole Dlameter:       Total Depth (ft):       46.0         Inish Date:       3/19/2013       Borehole Dlameter:       Total Depth (ft):       46.0         Inish Date:       Inish Date: <t< th=""><th>-</th><th></th><th></th><th></th><th></th><th>Drilling I</th><th>Method: Roto-Sonic</th><th></th><th colspan="2">: NA</th></t<>	-					Drilling I	Method: Roto-Sonic		: NA	
2       NA       NA       NA       NA       SILTY fine SAND, tar coated bands (continued)         30       -       -       -       -       -       -         30       -       -       -       -       -       -         30       -       -       -       -       -       -       -         30       -       -       -       -       -       -       -       -         32       -       <	-inish Da	te: 3/1	9/2013			Borehole	e Diameter:	Total Depth (ft):	46.0	
NA       NA       NA         20	Depth (ft bgs)	Kecovery Length (%)	DIG (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details Well	
40 40.0 42 42 6° Diam. SS Sump 46.0	28 - 30 - 32 - 34					SP	30.0	n 30 to 34 ft bgs	6″ Diam. 0.020 SS Continueue	
	44	NA	NA			CL	CLAY			
	46				(//////////////////////////////////////				•.	
	4	NA	NA			CL			6" Diam. SS Sump	

Sheet 1 of 2

Client	Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
Projec	t: Equity	/ Former M	MGP Site	;	Northing	686692.6 <b>Easting</b> : 649244.2	Drilling Compar	ny: Boart Long Year	
Projec	<b>:t #:</b> 601	37362			Ground E	Elevation: 10.3	Well Screen Inte	erval (ft bgs): 31-41	
Start [	Date: 3/1	9/2013			Drilling N	lethod: Roto-Sonic	Water Level (ft)	: NA	
Finish	Date: 3/	/19/2013			Borehole	Diameter:	Total Depth (ft):	46.0	
(ft bgs)	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
0						FILL material			
2 4 6 8 10 12	NA	NA			FILL			6" Diam. Sch. 40 PVC Riser	
  						16.0 FILL material, tar saturated		Bentonite Grout 🔷	
-	NA	NA			·	17.0 FILL material			
18 20 22 24	NA	NA			PT	18.0 PEAT/organic material 24.0			
						SILTY fine SAND			
26	NA	NA			SP				
		R	emarks:	Borina Te	erminated (	ft): 46.0			
Rock Phor		e Dr, Suite 06067 263-5800		See borir NA - Not Ground s	ng log PDI- Applicable surface elev	3 for local/adjacent geologic descriptions. / SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat g coordinates referenced to New York State P	um.	``	

creen Interva Level (ft): N Depth (ft): 4	Boart Long Year al (ft bgs): 31-41 VA 46.0 U U U U U U U U U U U U U
Level (ft): N Depth (ft): 4	Al 0.04
Level (ft): N Depth (ft): 4	Al 0.04
Depth (ft): 4	Well Construction Details Well Construction
	Bentonite Seal 🚽
	Filter Pack (#0 Sand)
6" Di	iam. 0.020 SS Continu <del>ous</del> Wire Wrap Screen
	Grout -
	6" Diam. SS Sump
I	· · ·
	6" Di

Sheet 1 of 2

Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
		/ Former N	/IGP Site	e	Northing			ny: Boart Long Year	
Projec	<b>:t #:</b> 601	37362			Ground E	Elevation: 10.7	Well Screen Inte	erval (ft bgs): 31-41	
Start I	Date: 3/2	0/2013			Drilling N	lethod: Roto-Sonic	Water Level (ft)	: NA	
Finish	Date: 3/	/20/2013			Borehole	Diameter:	Total Depth (ft):	46.0	
o Depth (ft bgs)	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
	NA	NA			FILL	FILL material		6" Diam. Sch. 40 PVC Riser	
20 22 22 24 24	NA	NA				PEAT/organic material 25.0 SILTY fine SAND			
26	NA	NA			SP			2 <sup>1</sup>	
AEC	OM	R	emarks:		erminated (	ft): 46.0 I-3 and PDI-4 for local/adjacent geologic descr	iptions.		
500 I Roci Phor		263-5800	1A	Ground s	surface elev	/ SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Date g coordinates referenced to New York State P	um.	```	

	: Nationa					: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	-	
	ct: Equity		/IGP Site	•	Northing	: 686675.7 <b>Easting</b> : 649250.0		ny: Boart Long Year	
Projec	ct #: 601	37362			Ground E	Elevation: 10.7	Well Screen Inte	erval (ft bgs): 31-41	
Start I	Date: 3/2	0/2013			Drilling N	Roto-Sonic	Water Level (ft):	NA	
Finish	Date: 3/	/20/2013			Borehole Diameter: Tot			46.0	
Depth (ft bgs)	Recovery Length (%)	DI9 (mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
						27.0 SILTY fine SAND <i>(continued)</i> Sility fine SAND, heavily tar coated		Bentonite Seal 🛛 🍑	
30  32	NA	NA				32.0		Filter Pack (#0 Sand)	
34 36 38	NA	NA			SP	SILTY fine SAND, tar saturated		6" Diam. 0.020 SS Continu <del>ous.</del> Wire Wrap Screen	
40	NA	NA				40.0 SILTY fine SAND 41.0			
42						CLAY		Grout —	
44	NA	NA			CL			6" Diam. SS Sump	
46				(//////////////////////////////////////		46.0 End of boring at 46.0 ft. bgs.			
		R	emarks:		erminated (				
Roci Pho	OM Enterprise ky Hill, CT ne: (860) 2 (860) 263	06067 263-5800	• 1A	NA - Not Ground s	Applicable surface elev	I-3 and PDI-4 for local/adjacent geologic descr / SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat ng coordinates referenced to New York State P	surface um.	\ \	

Sheet 1 of 2

Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	teve Wright
Projec	ct: Equity	/ Former N	/IGP Site		Northing	686658.8 <b>Easting:</b> 649255.8	Drilling Compared	ny: Boart Long Year
Projec	<b>:t #:</b> 601:	37362			Ground E	Elevation: 11.0	Well Screen Inte	erval (ft bgs): 30-40
Start I	Date: 3/2	20/2013			Drilling N	lethod: Roto-Sonic	Water Level (ft)	: NA
Finish	Date: 3/	/20/2013			Borehole	Diameter:	Total Depth (ft):	45.0
<ul> <li>Depth</li> <li>(ft bgs)</li> </ul>	Recovery Length (%)	CII4 (mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details Well Construction
2 4 6 8 10 12 14 14	NA	NA			FILL	FILL material		6" Diam. Sch. 40 PVC Riser Bentonite Seal →
- 18	NA	NA				FILL material, tar saturated 18.0 PEAT/organic material		6" Diam. 0.020 SS Continueus
20	NA	NA		<u> </u>	PT	r LATTOIganiic matellan		6" Diam. Sch. 40 PVC Riser
24	NA	NA	-			25.0 SILTY fine SAND 26.0		Bentonite Seal →
					0r .	SILTY fine SAND, tar coated, few bands of tar saturation		
Rock Phor		e Dr, Suite 06067 263-5800	emarks: • 1A	<u>See borir</u> NA - Not Ground s	Applicable	ft): 45.0 4 for local/adjacent geologic descriptions. / SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Date of coordinates referenced to New York State P	um.	X

	Nation				Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
Projec	t: Equit	y Former N	/GP Site		Northing	: 686658.8 <b>Easting</b> : 649255.8	Drilling Compar	ny: Boart Long Yea	r
-	<b>t #:</b> 601				Ground I	Elevation: 11.0		erval (ft bgs): 30-40	)
Start D	Date: 3/2	20/2013			Drilling N	Rethod: Roto-Sonic	Water Level (ft)	: NA	
inish	Date: 3	/20/2013			Borehole	Diameter:	Total Depth (ft):	45.0	
Ueptn (ft bgs)	Recovery Length (%)	OI9 (mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
_						SILTY fine SAND (continued)			
28	NA	NA				32.0		Filter Pack (#0 Sand) <sup>–</sup>	
- 34 - 36 - 38	NA	NA			SP	SILTY fine SAND, tar saturated		6" Diam. 0.020 SS Continue Wire Wrap Screen	
40	NA	NA				39.0 SILTY fine SAND 40.0			
42	NA	NA			CL	CLAY		Grout - 6" Diam. SS Sump -	
1		<u> </u>		///////////////////////////////////////		45.0 End of boring at 45.0 ft. bgs.			
AEC0 500 E		R e Dr, Suite	emarks:	See bori		(ft): 45.0 4 for local/adjacent geologic descriptions. e / SAA - Same as Above / bgs - below ground	surface		
Rock Phon	y Hill, Cl	06067 263-5800		Ground	surface ele	vation referenced to the Brooklyn Highway Dat	um.	\ 	

Sheet 1 of 2

Clicent	Notic -	ال ال ال			L a sati - :	200 Mooneth Ave. Dreaklyre NV		ovo Mright	
Client:						300 Maspeth Ave, Brooklyn, NY	Logged By: St	-	
Project: Project #		Former N	IGP SIte		Northing:	686647.4 Easting: 649270.0		ny: Boart Long Year erval (ft bgs): 30-40	_
Start Dat						lethod: Roto-Sonic	Water Level (ft):		_
Finish Da						Diameter:	Total Depth (ft):		
		19/2013			Dorenoie		Total Depth (it).		
<ul> <li>Depth</li> <li>(ft bgs)</li> </ul>	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
2 4 6 8 10 12 14 14 16 18	ΝΑ	ΝΑ			FILL	FILL material		6" Diam. Sch. 40 PVC Riser	
20				<u> </u>		20.0 PEAT/organic material			
-									
22									
_	NA	NA			PT				
24				<u>1/ 1/ 1/ 1/ 1</u>					
				<u> . 1, . 1, . 1,</u>		25.0			
26					SP	SILTY fine SAND, tar coated			
1	1	R	emarks:	Borina Te	erminated (	ft): 45.0			
AECON	M					5 for local/adjacent geologic descriptions.			
500 Ent	terprise	Dr, Suite	1A			/ SAA - Same as Above / bgs - below ground	surface		
Rocky I	Hill, CT	06067 63-5800				vation referenced to the Brooklyn Highway Dat			
	. (000) 2	•5777				g coordinates referenced to New York State P		V	

Project: Equ									
	ity Former I	MGP Site		Northing	<b>Easting:</b> 649270.0	Drilling Compar	mpany: Boart Long Year		
Project #: 60	0137362			Ground	Elevation: 11.3	Well Screen Inte	erval (ft bgs): 30-40		
Start Date:	3/19/2013			Drilling I	Method: Roto-Sonic	Water Level (ft): NA			
Finish Date:	3/19/2013			Borehole Diameter: Total Depth			45.0		
Depth (ft bgs) Recovery Length (%)	DIA (mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction	
NA 	NA				30.0 SILTY fine SAND, tar coated (continued)		Bentonite Seal		
32 34 - 36 - 38 -	NA			SP			6" Diam. 0.020 SS Continu <del>o.</del> Wire Wrap Screen		
40 - 42 - 44	NA			CL	40.0 CLAY		Grout -		
					45.0 End of boring at 45.0 ft. bgs.				
AECOM	R ise Dr, Suite	emarks:	See bori		(ft): 45.0 -5 for local/adjacent geologic descriptions. e / SAA - Same as Above / bgs - below ground	surface			

Sheet 1 of 2

Client	: Nationa	al Grid			Location	300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
		Former N	/GP Site		Northing:			ny: Boart Long Year	
-	ct #: 601			·	_	Elevation: 11.7		erval (ft bgs): 30-45	
	Date: 3/1					lethod: Roto-Sonic	Water Level (ft):		
	Date: 3					Diameter:	Total Depth (ft):		
Depth (ft bgs)	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
0 2 4 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	NA	NA	0		FILL	FILL material, lots of brick from 10 to 15 ft bgs		S 6" Diam. Sch. 40 PVC Riser Bentonite Grout	
	NA	NA	-		PT	20.0 PEAT/organic material			
24 -					ОН	25.0 CLAY with organics		Bentonite Seal 🗳	
	NA	NA			UH				
Roci Pho		e Dr, Suite 06067 263-5800	emarks:	See borin NA - Not Ground s	Applicable surface elev	ft): 50.0 -5 and SB-12B for local/adjacent geologic des / SAA - Same as Above / bgs - below ground /ation referenced to the Brooklyn Highway Date g coordinates referenced to New York State P	surface um.	· · ·	

# **AECOM** Boring and Well Construction Log

BORING #: RW16 Sheet 2 of 2

Client:	Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
Projec	t: Equity	/ Former N	/IGP Site	!	Northing	: 686653.4 Easting: 649286.8	Drilling Compar	ny: Boart Long Year	
Projec	t#: 601	37362			Ground I	Elevation: 11.7	Well Screen Inte	erval (ft bgs): 30-45	
Start D	Date: 3/1	8/2013			Drilling N	Method: Roto-Sonic	Water Level (ft):	: NA	
inish	Date: 3	/18/2013			Borehole	e Diameter:	Total Depth (ft):	50.0	
Depth (ft bgs)	Recovery Length (%)	CIA (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
					OH	27.0 CLAY with organics (continued)			
28	NA	NA				30.0 SILTY fine SAND, tar coated bands		Filter Pack (#0 Sand) —	
32	NA	NA				32.0			
34	NA	NA				SILTY fine SAND, tar coated			
36 - 38 - 40	NA	NA			SP	SILTY fine SAND, tar saturated		6″ Diam. 0.020 SS Continue <del>u</del> Wire Wrap Screen	
- 42 - 44	NA	NA				SILTY fine SAND, tar saturated pockets of SAND			
46						CLAY		Grout -	
48 _	NA	NA			CL			6" Diam. SS Sump	
50						50.0 End of boring at 50.0 ft. bgs.			
		R	emarks:		erminated		criptions		
AEC 500 E		e Dr, Suite	1A			II-5 and SB-12B for local/adjacent geologic des > / SAA - Same as Above / bgs - below ground			
Rock Phor	ay Hill, CT e: (860) 2 (860) 263	06067		Ground	surface ele	vation referenced to the Brooklyn Highway Dat ng coordinates referenced to New York State P	um.	N.	

# **AECOM** Boring and Well Construction Log

BORING #: RW17 Sheet 1 of 2

Project: Fau				Location	: 300 Maspeth Ave, Brooklyn, NY	Logged by. IN	isten Durocher	
	ty Former I	MGP Site	9	Northing	: 686548.9 <b>Easting</b> : 649253.9	Drilling Compar	ny: Boart Long Year	
Project #: 60	137362			Ground I	Elevation: 12.4	Well Screen Inte	erval (ft bgs): 28-43	
Start Date: 4	8/2013			Drilling M	Method: Roto-Sonic	Water Level (ft)	: NA	
inish Date:	4/10/2013			Borehole	Diameter:	Total Depth (ft):	48.0	
<ul> <li>Depth</li> <li>(ft bgs)</li> <li>Recovery Length</li> <li>(%)</li> </ul>	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
2 	NA			Fill	Fill material, some brick fragments and glass. 11.0 Sandy Silt, grey to black, fine grained, some coarse to fine	gravel.	6" Diam. Sch. 40 PVC Riser Bentonite Grout	
16 				PT	15.0 Fibrous and Friable Peat			
-							Bentonite Seal	
26			L NL NL		26.0			
NA	NA			SP	SAND, tar saturated/Sand tar coated			

Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: Ki	isten Durocher	
Projec	t: Equity	/ Former N	/IGP Site	!	Northing	: 686548.9 <b>Easting</b> : 649253.9	Drilling Compared	ny: Boart Long Year	_
Projec	<b>:t #:</b> 601	37362			Ground E	Elevation: 12.4	Well Screen Int	erval (ft bgs): 28-43	
Start I	Date: 4/8	8/2013			Drilling N	Method: Roto-Sonic	Water Level (ft)	: NA	
inish	Date: 4	/10/2013			Borehole	Diameter:	Total Depth (ft):	48.0	
Depth (ft bgs)	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
						SAND, tar saturated/Sand tar coated (continued)		Filter Pack (#0 Sand)	
32 - 34 - 36 -	NA	NA			SP			6" Diam. 0.020 SS Continu <del>ous</del> Wire Wrap Screen	
38 - 40 - 42	NA	NA				43.0			
44	NA	NA				CLAY		Grout 🗕	
46 - 48					CL	48.0		6" Diam. SS Sump	
_						48.0 End of boring at 48.0 ft. bgs.		6" Diam. SS Sump	
AEC			emarks:	See bori		6 for local/adjacent geologic descriptions.	surface		
Rock Phor	enterprise ky Hill, CT ne: (860) 2 (860) 263	263-5800		Ground	surface elev	Y SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat ng coordinates referenced to New York State P	um.	\	

Sheet 1 of 2

Client	Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
	:t: Equity		/GP Site	e	Northing			ny: Boart Long Year	
Projec	t#: 601	37362			Ground E	Elevation: 12.6	Well Screen Inte	erval (ft bgs): 35-45	
Start I	Date: 3/1	4/2013			Drilling N	lethod: Roto-Sonic	Water Level (ft)	: NA	
Finish	Date: 3/	/15/2013			Borehole	Diameter:	Total Depth (ft):	50.0	
<ul> <li>Depth</li> <li>(ft bgs)</li> </ul>	Recovery Length (%)	CIIA (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
2 4 6 - 8 - - - - - - - - - - - - - - - - -	NA	NA			FILL	FILL material		Bentonite Grout	
20	NA	NA				FILL, NAPL coated, tar staining at 19 ft bgs 21.0			
22	NA	NA			PT	PEAT/organic material			
26				<u> . 1, . 1, . 1</u> ,					
26				1/ <u>1/ 1/ 1/</u> 1		26.0 SILTY fine SAND			
		P	emarks:		erminated (			<b>.</b>	
Rock Phor	OM Enterprise (y Hill, CT ne: (860) 2 (860) 263	e Dr, Suite 06067 263-5800		See borin NA - Not Ground s	ng log PDI- Applicable surface elev	6 for local/adjacent geologic descriptions. / SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat g coordinates referenced to New York State P	um.	γ.	

# **AECOM** Boring and Well Construction Log

BORING #: RW18 Sheet 2 of 2

Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright		
Proje	ct: Equity	/ Former N	IGP Site		Northing	: 686542.2 Easting: 649232.4	Drilling Compar	ny: Boart Long Year		
Proje	ct #: 601	37362			Ground I	Elevation: 12.6	Well Screen Int	erval (ft bgs): 35-45		
Start	Date: 3/1	4/2013			Drilling N	Method: Roto-Sonic	Water Level (ft)	: NA		
Finisł	Date: 3	/15/2013			Borehole	e Diameter:	Total Depth (ft):	<b>:):</b> 50.0		
Depth (ft bgs)	Recovery Length (%)	CII4 (mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction	
_				<u></u>		PEAT/organic material (continued)				
28 	NA	NA						Bentonite Seal —		
	NA	NA			PT	33.0 SILTY fine SAND, heavily tar coated pockets of SAND 40.0		Filter Pack (#0 Sand) — 6° Diam. 0.020 SS Continue <del>u</del>		
42 - 44	NA	NA				SILTY fine SAND, tar saturated		Wire Wrap Screen		
46 48 50	NA	NA			CL	Gray CLAY 50.0		Grout —		
AEC 500		e Dr, Suite	emarks: 1A	See bori		End of boring at 50.0 ft. bgs. (ft): 50.0 -6 for local/adjacent geologic descriptions. e / SAA - Same as Above / bgs - below ground	surface			

Sheet 1 of 2

Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
		/ Former N	/GP Site		Northing			<b>ny:</b> Boart Long Year	
-	t#: 601			·	-	Elevation: 12.8		erval (ft bgs): 37-47	
-	Date: 3/1					lethod: Roto-Sonic	Water Level (ft)		
Finish	Date: 3/	/16/2013			-	Diameter:	Total Depth (ft):		
Depth (ft bgs)	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
0	R		ō	×××××××		FILL material		>	a 1.
2 4 6 8 10 12 12	NA	NA			FILL			6" Diam. Sch. 40 PVC Riser	
	NA	NA				FILL material, tar coated		Bentonite Grout	
22 	NA	NA			PT	PEAT/organic material			
Rock Phor		e Dr, Suite 06067 263-5800	emarks:	See borin NA - Not Ground s	Applicable	ft): 52.0 I-6, PDI-8, and SB-21 for local/adjacent geolog / SAA - Same as Above / bgs - below ground /ation referenced to the Brooklyn Highway Dat g coordinates referenced to New York State P	surface um.	\ \	

Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
		/ Former N	/IGP Site		Northing			ny: Boart Long Year	_
	<b>:t #:</b> 601				-	Elevation: 12.8		erval (ft bgs): 37-47	
Start I	Date: 3/1	6/2013			Drilling N	Method: Roto-Sonic	Water Level (ft)	: NA	
inish	Date: 3/	/16/2013			_	e Diameter:	Total Depth (ft):		
Depth (ft bgs)	Recovery Length (%)	CII (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
			-	<u></u>	PT	27.0 PEAT/organic material (continued)		-	
28 	NA	NA			SP	SILTY fine SAND			
34						34.0		Bentonite Seal —	
- 36 - 38 - 40 - 42	NA	NA			CL	CLAY/SILT		Filter Pack (#0 Sand)	
-						43.0 SILTY fine SAND, tar saturated			
4446	NA	NA			SP	47.0			
48						CLAY		Grout	
50	NA	NA			CL			6" Diam. SS Sump	
52						52.0 End of boring at 52.0 ft. bgs.			
Rock		e Dr, Suite 06067	emarks: 1A	See borii NA - Not	Applicable	(ft): 52.0 I-6, PDI-8, and SB-21 for local/adjacent geolog e / SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat	surface		
Fax:	(860) 263	-5777				ng coordinates referenced to New York State P		· · · · · · · · · · · · · · · · · · ·	

Sheet 1 of 2

Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
roje	t: Equity	Former N	/IGP Site	!	Northing	: 686651.6 <b>Easting:</b> 649130.1	Drilling Compar	ny: Boart Long Year	
roje	<b>:t #:</b> 601	37362			Ground E	Elevation: 10.8	Well Screen Inte	erval (ft bgs): 36-46	
Start	Date: 3/1	7/2013			Drilling N	lethod: Roto-Sonic	Water Level (ft)	: NA	
inish	Date: 3	/17/2013			Borehole	Diameter:	Total Depth (ft):	51.0	
<ul> <li>Depth</li> <li>(ft bgs)</li> </ul>	Recovery Length (%)	CIA (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
	NA	NA			Concrete	Approximately 1 foot of CONCRETE 1.0			
2 4 6 	NA	NA			FILL	FILL material			
	NA	NA				15.0 FILL material, tar saturated 16.0		Bentonite Grout	
						FILL material			
- 18	NA	NA				18.0		6" Diam. Sch. 40 PVC Riser	
_	NA	NA				FILL material, heavily tar coated 19.0 PEAT/organic material			
20 -				<u>12 012 012 0</u> 012 012 012 0 012 012 012 0 012 012 012 0 012 012 012 0 012 012 0 012 012 0 012 0 010 0 010 0 010 0 010 0 010 0 010 0 010 0 010 0 010 0 010 0 010 0 010 0 010 0 010 0 010 0 010 0 000 0000 000000	PT				
	NA	NA		<u>, , , , , , , , , , , , , , , , , , , </u>					
26									
Roci Pho	OM Enterprise ky Hill, CT ne: (860) 2 (860) 263	e Dr, Suite 06067 263-5800	emarks:	Boring Te See borir NA - Not Ground s	Applicable	ft): 51.0 29/MW-15B for local/adjacent geologic descrip - / SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat ng coordinates referenced to New York State P	surface um.	\	

Projec Start I	t: Equity t#: 601	/ Former N	/IGP Site		NI				
Projec Start [					Northing	: 686651.6 Easting: 649130.1	Drilling Compar	ny: Boart Long Year	
		37362			Ground I	Elevation: 10.8	Well Screen Inte	erval (ft bgs): 36-46	
Finish	Date: 3/1	7/2013			Drilling N	lethod: Roto-Sonic	Water Level (ft)	NA	
	Date: 3	/17/2013			Borehole	Diameter:	Total Depth (ft):	51.0	
Depth (ft bgs)	Recovery Length (%)	OIA (mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
_ 28			_		PT	PEAT/organic material (continued)			
-	NA	NA			SP	SILTY fine SAND			
32 - 34	NA	NA			ML-CL	SILT/CLAY		Bentonite Seal 🛁	
	NA	NA				34.5 35.0 SILTY fine SAND, tar saturated			
36	NA	NA				SILTY fine SAND 36.5 SILTY fine SAND, tar saturated		Filter Pack (#0 Sand) 🛁	
38 40 42 44	NA	NA			SP			6" Diam. 0.020 SS Continue <del>us</del> Wire Wrap Screen	
46						46.0			
48	NA	NA			CL	CLAY		Grout	
50						51.0			
						End of boring at 51.0 ft. bgs.			
Rock		e Dr, Suite 06067	emarks: 9 1A	See borii NA - Not	Applicable	(ft): 51.0 29/MW-15B for local/adjacent geologic descrip e / SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat	surface		

# **AECOM** Boring and Well Construction Log

BORING #: RW20 Sheet 1 of 2

Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
		/ Former N	/GP Site	;	Northing			ny: Boart Long Year	
Projec	:t #: 601	37362			Ground E	Elevation: 13.0	Well Screen Inte	erval (ft bgs): 37-47	
Start I	Date: 3/1	5/2013			Drilling N	lethod: Roto-Sonic	Water Level (ft)	NA	
Finish	Date: 3/	/16/2013			Borehole	Diameter:	Total Depth (ft):	52.0	
<ul> <li>Depth</li> <li>(ft bgs)</li> </ul>	Recovery Length (%)	CIA (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
	NA	NA			FILL	FILL material		6" Diam. Sch. 40 PVC Riser	
20	NA	NA				19.0         FILL material, tar coated         21.0         PEAT/organic material			
22									
24					PT				
26	NA	NA							
I		R	emarks:		erminated (	ft): 52.0		I	
Rock Phor		e Dr, Suite 06067 263-5800		See borii NA - Not Ground s	ng logs PD Applicable surface elev	II) 52.0 I-8 and SB-21 for local/adjacent geologic desc / SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat Ig coordinates referenced to New York State P	surface um.	``	

# **AECOM** Boring and Well Construction Log

BORING #: RW20 Sheet 2 of 2

lient	Nationa	al Grid			Location	a: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright		
rojec	t: Equity	/ Former M	GP Site		Northing	<b>:</b> 686528.5 <b>Easting:</b> 649194.6	Drilling Compar	ny: Boart Long Year		
rojec	<b>:t #:</b> 601	37362			Ground	Elevation: 13.0	Well Screen Inte	erval (ft bgs): 37-47		
tart I	Date: 3/1	5/2013			Drilling I	Method: Roto-Sonic	Water Level (ft)	(ft): NA		
inish	Date: 3	/16/2013			Borehol	e Diameter:	Total Depth (ft):	52.0		
(ft bgs)	Recovery Length (%)	UIA (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well	
-						PEAT/organic material (continued)				
.0			2	<u> </u>	PT					
-			<i>',</i>							
30			2 1	<u></u>		30.0 SILTY fine SAND				
_										
2										
4	NA	NA						Bentonite Seal		
6								Filter Pack (#0 Sand)		
-						37.0 SILTY fine SAND, tar saturated				
8										
_					SP				E	
0										
_									E	
2								6" Diam. 0.020 SS Continu <del>ous</del>		
	NA	NA						Wire Wrap Screen		
4										
-									E	
-										
6									E	
-						47.0 CLAY				
8								Grout		
_										
0	NA	NA			CL			6" Diam. SS Sump		
2						52.0				
		· · · · ·				End of boring at 52.0 ft. bgs.				
		Rei	marks:	Boring T	erminated	(ft): 52.0				
<b>EC</b>	OM					<ul> <li>JI-8 and SB-21 for local/adjacent geologic desci</li> </ul>	riptions.			
500 I	Enterprise	e Dr, Suite	IA			e / SAA - Same as Above / bgs - below ground				
	cy Hill, CT	06067 263-5800		Ground	urface ele	evation referenced to the Brooklyn Highway Date	um			

Sheet 1 of 2

Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
		Former N	/IGP Site		Northing	<b>·</b>		ny: Boart Long Year	
-	t#: 601				-	Elevation: 13.2		erval (ft bgs): 35-45	
	Date: 3/1				Drilling N	lethod: Roto-Sonic	Water Level (ft)		
	Date: 3/				-	Diameter:	Total Depth (ft):		
Depth (ft bgs)	Recovery Length (%)	DID (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
0	Re		Of					We	Ŭ
 - 4  - 6  - 8       	NA	NA			FILL	FILL material		6" Diam. Sch. 40 PVC Riser	
16	NA	NA				16.0 FILL material, tar coated		Bentonite Grout	
	NA	NA				FILL material, tar saturated			
 20  22  24 	NA	NA			PT	18.0 PEAT/organic material			
26			-	· · · · · · · · · ·		26.0 SILTX fine SAND			
		R	emarks:	Boring Te	sp erminated (	SILTY fine SAND ft): 50.0			
Rock Phor		e Dr, Suite 06067 263-5800		See borin NA - Not Ground s	ng logs PD Applicable surface elev	I-8 and SB-21 for local/adjacent geologic desc / SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat Ig coordinates referenced to New York State P	surface um.	\	

	: Nationa				Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St		
Projec	ct: Equity	/ Former N	/IGP Site		Northing	: 686522.0 Easting: 649175.7	Drilling Compar	ny: Boart Long Year	
Projec	<b>:t #:</b> 601	37362			Ground I	Elevation: 13.2	Well Screen Inte	erval (ft bgs): 35-45	
start I	Date: 3/1	7/2013			Drilling N	Method: Roto-Sonic	Water Level (ft):	i): NA	
inish	Date: 3/	/18/2013			Borehole	e Diameter:	Total Depth (ft):	50.0	
Depth (ft bgs)	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
-						SILTY fine SAND (continued)			
28 									
32	NA	NA						Bentonite Seal	×
34								Filter Pack (#0 Sand)	*
- 36 - 38					SP				
40	NA	NA				39.0 SILTY fine SAND, tar saturated		6" Diam. 0.020 SS Continueu Wire Wrap Screen	
44 – 46						45.0 CLAY		Grout	
48 _	NA	NA			CL			6" Diam. SS Sump	
50						50.0			
				Deriver		End of boring at 50.0 ft. bgs.			
		R	emarks:		erminated (	(π): 50.0 II-8 and SB-21 for local/adjacent geologic desc	intions		
AEC 500		e Dr, Suite	1A			<ul> <li>A SAA - Same as Above / bgs - below ground</li> </ul>			
Rocl	ky Hill, CT	06067							
Pho	ne: (860) 2 (860) 263	263-5800			Ground surface elevation referenced to the Brooklyn Highway Datum.				

Sheet 1 of 2

Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright		
Projec	ct: Equity	/ Former N	MGP Site	;	Northing			ny: Boart Long Year		
Projec	ct #: 601	37362			Ground I	Elevation:	Well Screen Int	erval (ft bgs): 31-41		
Start I	Date: 3/1	6/2013			Drilling N	Method: Roto-Sonic	Water Level (ft)	: NA		
inish	Date: 3	/17/2013			Borehole	e Diameter:	Total Depth (ft):	Total Depth (ft): 46.0		
<ul> <li>Depth</li> <li>(ft bgs)</li> </ul>	Recovery Length (%)	CIA (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction	
	NA	NA				Concrete				
2 - 4	NA	NA				FILL material				
	NA	NA				Concrete slab 5.0				
6			1			FILL material		6" Diam. Sch. 40 PVC Riser		
8 10 12 14 16	NA	NA			FILL			Bentonite Grout		
18						18.0 FILL material, tar coated				
_	NA	NA								
20 22 24	NA	NA			PT	20.0 PEAT/organic material 25.0				
_ 26					SP	SILTY fine SAND, bands of tar coating/staining				
AEC 500 Roci Pho	OM Enterprise ky Hill, CT ne: (860) 2 (860) 263	e Dr, Suite 06067 263-5800	emarks: 9 1A	See borir NA - Not Ground s	erminated ( ng logs PD Applicable surface ele	(ft): 46.0 I-8 and SB-21 for local/adjacent geologic desc e / SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat ng coordinates referenced to New York State P	surface um.	````		

Client:	Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
Projec	t: Equit	Former N	/IGP Site	9	Northing	Easting:	Drilling Compar	ny: Boart Long Year	_
Projec	t#: 601	37362			Ground I	Elevation:	Well Screen Int	erval (ft bgs): 31-41	
Start D	Date: 3/1	6/2013			Drilling M	Method: Roto-Sonic	Water Level (ft)	: NA	
Finish	Date: 3	/17/2013			Borehole	e Diameter:	Total Depth (ft):	46.0	
Depth (ft bgs)	Recovery Length (%)	CIA (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
 	NA	NA				SILTY fine SAND, bands of tar coating/staining (continued)		Bentonite Seal →	
32					SP	35.0			
36 	NA	NA				SILTY fine SAND, tar saturated		6" Diam. 0.020 SS Continu <del>ous</del>	
42 _	NA	NA			CL	CLAY		Grout	
-									
46				<u> </u>		46.0 End of boring at 46.0 ft, bas,			
46						46.0 End of boring at 46.0 ft. bgs.			
AEC( 500 E	Enterprise	e Dr, Suite	emarks:	See bori		(ft): 46.0 I-8 and SB-21 for local/adjacent geologic desc e / SAA - Same as Above / bgs - below ground			
Phor	ky Hill, CT ne: (860) 2 (860) 263	263-5800				vation referenced to the Brooklyn Highway Dat ng coordinates referenced to New York State P			

Sheet 1 of 2

Client: Nati Project: Ec Project #: 6 Start Date: Finish Date: utden 0 0 NA 2 NA	uity Former N 0137362 3/17/2013 3/17/2013	AGP Site Visible and Olfactory impacts	Noi Gra Dri Boi	rthing: ound E Illing M rehole	: 300 Maspeth Ave, Brooklyn, NY : Easting: Elevation: Iethod: Roto-Sonic Diameter: Soil and Rock Description Classification Scheme: USCS Concrete		ny: Boart Long Year erval (ft bgs): 24-39 : NA	Well Construction
Project #: ( Start Date: Finish Date: (t pdg) (t pdg) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0137362 3/17/2013 3/17/2013		Gro Dri Bor	ound E Illing M rehole ୫୦୦ ୧୦୦ ୧୦୦ ୧୦୦ ୧୦୦ ୧୦୦ ୧୦୦ ୧୦୦ ୧୦୦ ୧୦୦	Elevation: lethod: Roto-Sonic Diameter: Soil and Rock Description Classification Scheme: USCS Concrete	Well Screen Inte Water Level (ft):	erval (ft bgs): 24-39 : NA : 44.0	Well Construction
Start Date: Finish Date: utility of page o 0 NA 2 NA 4	3/17/2013 3/17/2013 	Visible and Olfactory impacts	Dri Bo	lling M rehole	lethod: Roto-Sonic Diameter: Soil and Rock Description Classification Scheme: USCS	Water Level (ft):	: NA : 44.0	Well Construction
Finish Date: util: ut	3/17/2013	Visible and Offactory Impacts	Bo	epo so so so so so	Diameter: Soil and Rock Description Classification Scheme: USCS		44.0	Well Construction
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	na	Visible and Olfactory Impacts		USCS Code	Soil and Rock Description Classification Scheme: USCS Concrete	Total Depth (ft):		Well Construction
0 NA 2 NA 4	NA	Visible and Olfactory Impacts	Graphic		Classification Scheme: USCS Concrete		Well Construction Details	Well Construction
2	NA				2.0_			
4					FILL material			
NA	NA			1	4.0_			
		ר אא			Concrete slab			
6							6" Diam. Sch. 40 PVC Riser	
8			FI	ILL			Bentonite Grout 📑	
NA	NA							
16    20					200			
20		1 🎬	× <u>××××</u>		20.0 PEAT/organic material		Bentonite Seal	
		<u><u>x</u>, 17</u>					Londonico Godi	
NA	NA		F	ЪТ			Filter Pack (#0 Sand)	
26				SP :	25.0 SILTY fine SAND, tar saturated			
Rocky Hill,	rise Dr, Suite CT 06067 0) 263-5800	• 1A <u>N</u>	NA - Not App Ground surfac	gs PDI licable ce elev	ft): 44.0 I-8 and SB-21 for local/adjacent geologic descr / SAA - Same as Above / bgs - below ground /ation referenced to the Brooklyn Highway Dat g coordinates referenced to New York State P	surface um.		

	l Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	eve Wright		
Project: Equity	Former N	/IGP Site	;	Northing	: Easting:	Drilling Compar	ny: Boart Long Year	
Project #: 6013	7362			Ground I	Elevation:	Well Screen Inte	erval (ft bgs): 24-39	
Start Date: 3/1	7/2013			Drilling N	lethod: Roto-Sonic	Water Level (ft):	: NA	
inish Date: 3/	17/2013			Borehole	Diameter:	Total Depth (ft):	44.0	
Leptn (ft bgs) Recovery Length (%)	DIA (mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
NA 	NA			SP	SILTY fine SAND, tar saturated <i>(continued)</i> <u>30.0</u> SILTY fine SAND		6" Diam. 0.020 SS Continu <del>ous</del> Wire Wrap Screen	
34 36 8 38	NA				35.0 SILTY fine SAND, tar saturated 39.0			
40 	NA			CL	CLAY 44.0		Grout -	
					End of boring at 44.0 ft. bgs.			
	R	emarks:		erminated	(ft): 44.0 I-8 and SB-21 for local/adjacent geologic desci			

Sheet 1 of 2

Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright		
Projec	t: Equity	/ Former N	IGP Site	e	Northing	: 686627.3 <b>Easting</b> : 649138.9	Drilling Compar	ny: Boart Long Year		
Projec	<b>:t #:</b> 6013	37362			Ground E	Elevation: 11.7	Well Screen Inte	erval (ft bgs): 31-46		
Start I	Date: 3/1	7/2013			Drilling N	lethod: Roto-Sonic	Water Level (ft): NA			
inish	Date: 3/	/17/2013			Borehole	Diameter:	Total Depth (ft):	al Depth (ft): 53.0		
o Depth (ft bgs)	Recovery Length (%)	CIA (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details Well		
	NA	NA			FILL	FILL material		6" Diam. Sch. 40 PVC Riser		
_	NA	NA				20.5 21.0 FILL material, heavily tar coated				
22						PEAT/organic material				
-				<u> </u>						
24				<u></u>	PT					
_				<u>1, 1, 1, 1,</u>						
26	NA	NA		<u> ~ // ~ //</u>						
				1/ <u>1/ 1/ 1/</u>						
Rocl Pho	OM Enterprise ky Hill, CT ne: (860) 2 (860) 263	e Dr, Suite 06067 263-5800	emarks: • 1A	See borin NA - Not Ground s	Applicable surface elev	ft): 53.0 -29/MW-15B and SB-9 for local/adjacent geolo -/ SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat ng coordinates referenced to New York State P	surface um.	χ		

Client	Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright		
Projec	t: Equity	/ Former N	MGP Site	e	Northing			any: Boart Long Year		
Projec	t#: 601	37362			Ground I	Elevation: 11.7		erval (ft bgs): 31-46		
Start [	Date: 3/1	7/2013			Drilling M	lethod: Roto-Sonic	Water Level (ft):	): NA		
Finish	Date: 3/	/17/2013			Borehole	Diameter:	Total Depth (ft):	): 53.0		
Depth (ft bgs)	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction	
					PT	PEAT/organic material (continued)		Bentonite Seal 🛛 🗕	· · · · · · · · · · · · · · · · · · ·	
30	NA	NA				30.0 SILTY fine SAND		Filter Pack (#0 Sand) 🛁	-	
32	NA NA	NA NA		аналалала	SP	32.0 32.5 SILTY fine SAND, tar saturated 33.0 SILTY fine SAND				
34	NA	NA			ML-CL	SILT/CLAY				
36	NA	NA		<u>XXXXXXXXXXX</u>		36.0 SILTY fine SAND 37.0 SILTY fine SAND, tar saturated				
38 	NA	NA			SP			6" Diam. 0.020 SS Continu <del>ous</del> Wire Wrap Screen		
42	NA	NA			SC	41.5 Interbedded SANDY CLAY unit, tar saturated 43.0				
44	NA	NA			CL	CLAY 45.0				
46	NA	NA		····	SP	SILTY fine SAND, tar saturated 46.0				
48						CLAY		Grout →		
50	NA	NA			CL					
						53.0				
Rock Phor		e Dr, Suite 06067 263-5800	emarks: • 1A	See borin NA - Not Ground s	Applicable surface ele	End of boring at 53.0 ft. bgs. -29/MW-15B and SB-9 for local/adjacent geolo -29/MW-15B and SB-9 for local/adjace	surface um.	\ \		

Sheet 1 of 2

Client	Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	teve Wright		
		Former N	/IGP Site	e	Northing			ny: Boart Long Year		
-	t#: 601				-	Elevation: 12.4		erval (ft bgs): 36-46	_	
-	Date: 3/2					Aethod: Roto-Sonic	Water Level (ft)			
	Date: 3/				-	e Diameter:	Total Depth (ft):			
		21/2010			Dorenoie					
<ul><li>Depth</li><li>(ft bgs)</li></ul>	Recovery Length (%)	CIIA (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction	
						FILL material				
2										
6								Bentonite Seal		
8								6" Diam. Sch. 40 PVC Riser		
10	NA	NA			FILL					
12										
14 _ 16								Filter Pack (#0 Sand)		
18								6" Diam. 0.020 SS Continu <del>ous -</del> Wire Wrap Screen		
20						22.2		wile wich Scieeli		
20	NA	NA				FILL material, tar saturated			目	
+	INFA	INA				21.0 PEAT/organic material				
22				<u>1, 1, 1, 1, 1</u>				6" Diam. Sch. 40 PVC Riser		
24	NA	NA			PT					
~ 1				<u></u>						
26					SP	26.0 SILTY fine SAND				
		R	emarks:	Borina Te	erminated (	(ft): 51.0				
Rock Phor		e Dr, Suite 06067 263-5800		See borin NA - Not Ground s	ng log SB-5 Applicable surface elev	5 for local/adjacent geologic descriptions. e / SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat ng coordinates referenced to New York State P	um.	· · ·		

lient	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	Steve Wright		
Proje	ct: Equity	/ Former M	GP Site		Northing	: 686560.2 <b>Easting</b> : 649162.3	Drilling Compar	ny: Boart Long Year		
Proje	ct #: 601	37362			Ground I	Elevation: 12.4	Well Screen Inte	erval (ft bgs): 36-46		
Start	Date: 3/2	1/2013			Drilling M	Method: Roto-Sonic	Water Level (ft)	: NA		
inisł	Date: 3	/21/2013			Borehole	Diameter:	Total Depth (ft):	): 51.0		
	ء		ŝ		I			Ę		
Depth (ft bgs)	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction	
-						SILTY fine SAND (continued)				
28 								Bentonite Seal →		
32	NA	NA			SP					
34										
36				~~~~~		37.0		Filter Pack (#0 Sand)		
38	NA	NA			CL	CLAY 39.0				
40						SILTY fine SAND		6" Diam. 0.020 SS Continu <del>ous.</del>		
42	NA	NA			SP			Wire Wrap Screen		
44	NA	NA				44.0 SILTY fine SAND, tar saturated				
48						CLAY		Grout		
50	NA	NA			CL			6" Diam. SS Sump		
-						51.0 End of boring at 51.0 ft. bgs.				
						Lind of boiling at 31.0 ft. bys.				
		Re	marks:	Boring Te	erminated	(ft): 51.0				
AEC	OM					5 for local/adjacent geologic descriptions.				
500	Enterprise	e Dr, Suite '	A			e / SAA - Same as Above / bgs - below ground	surface			
Roc	ky Hilİ, CT ne: (860) 2	06067		Ground s	urface ele	vation referenced to the Brooklyn Highway Dat	um			
		-5777						λ.		

Sheet 1 of 2

Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright	
Projec	t: Equity	/ Former N	/IGP Site	;	Northing			ny: Boart Long Year	_
	t#: 601				_	Elevation: 12.6		erval (ft bgs): 32-42	
-	Date: 3/2					lethod: Roto-Sonic	Water Level (ft):		
Finish	Date: 3/	/21/2013			Borehole	Diameter:	Total Depth (ft):		
Depth (ft bgs)	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction
0	Rec		Olfa	XXXXXXXX		FILL material		Wel	U
2 4 6 - 8 - - - - - - - - - - - - - - - - -	NA	NA			FILL			6" Diam. Sch. 40 PVC Riser	
18  20	NA	NA				FILL material, tar coated, coal from 19 -21 ft bgs			
22						PEAT/organic material			
24 _ 26	NA	NA			PT				
		-	-						
Rock Phor		e Dr, Suite 06067 263-5800	emarks:	See borir NA - Not Ground s	Applicable	ft): 51.0 -5, SB-21, and PDI-8 for local/adjacent geological of SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Data of coordinates referenced to New York State P	surface um.		

Client	t: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	teve Wright		
Proje	ct: Equity	/ Former N	IGP Site		Northing	: 686541.0 Easting: 649169.1	Drilling Compar	pany: Boart Long Year		
roje	ct #: 601	37362			Ground	Elevation: 12.6	Well Screen Inte	erval (ft bgs): 32-42		
-	Date: 3/2				Drilling I	Method: Roto-Sonic	Water Level (ft):			
inisl	n Date: 3	/21/2013			Borehole	e Diameter:	Total Depth (ft):	t): 51.0		
Depth (ft bgs)	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well	
- 28				<u>, , , , , , ,</u> <u>, , , , , , ,</u> , , , , , , , , , , , , ,	PT	PEAT/organic material (continued)		Bentonite Seal -		
- 30 -	NA	NA				SILTY fine SAND		Filter Pack (#0 Sand) —		
32 	NA	NA			SP	32.0 SILTY fine SAND, streaks of tar staining and tar coating 35.0				
36	NA	NA		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		SILTY fine SAND		6″ Diam. 0.020 SS Continueus		
38	NA	NA			CL	CLAY 38.5		Wire Wrap Screen		
40 -	NA	NA			SP	SILTY fine SAND, pockets of tar coating/saturation				
44 - 46 - 48	NA	NA			CL	CLAY		Grout —		
50						51.0 End of boring at 51.0 ft, bos				
	1	1	ı ł	·///////		End of boring at 51.0 ft. bgs.		1	1	
		e Dr, Suite	emarks: 1A	See borii NA - Not	Applicable	(ft): 51.0 B-5, SB-21, and PDI-8 for local/adjacent geolog e / SAA - Same as Above / bgs - below ground evation referenced to the Brooklyn Highway Dat	surface			

Sheet 1 of 2

lient:	Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	Logged By: Steve Wright		
roject:	Equity	Former N	IGP Site		Northing	: 686749.6 Easting: 649175.5	Drilling Compar	ny: Boart Long Year		
-	#: 6013					Elevation: 10.3		erval (ft bgs): 32-42		
	te: 3/2				Drilling N	lethod: Roto-Sonic		Water Level (ft): NA		
		20/2013				Diameter:	Total Depth (ft):			
			S				,			
0 (ft bgs)	Recovery Length (%)	UId (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details		
-						FILL material				
24								6° Diam, Sch. 40 PVC Riser		
6										
8	NIA	NIA						Bentonite Seal —		
0	NA	NA			FILL					
2										
4 - 6 - 8						18.0		Filter Pack (#0 Sand)		
-	NA	NA				FILL material, tar saturated				
)			/			19.0 PEAT/organic material		6" Diam. 0.020 SS Continuous		
2	NA	NA		<u>, ,, ,, ,,</u> ,, ,, ,, ,, ,, ,, ,, ,,	PT					
1				<u> </u>		24.0		6" Diam Sala 40 Di (0 Di		
	NA	NA			SP	SILTY fine SAND, tar coated SILTY fine SAND, tar coated		6" Diam. Sch. 40 PVC Riser		
		Re	emarks:	Boring Te	erminated (	(ft): 47.0				
ECO	М					1 for local/adjacent geologic descriptions.				
00 En	terprise	Dr, Suite	1A	NA - Not	Applicable	e / SAA - Same as Above / bgs - below ground	surface			
locky hone:	Hill, CT : (860) 2	06067 63-5800		Ground s	urface elev	vation referenced to the Brooklyn Highway Dat	um.	1		
av. /0	60) 263	-5777		Northing	and Eastin	g coordinates referenced to New York State P	lane NAD83 East			

Sheet 2 of 2

		al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve wright		
rojec	t: Equit	y Former N	/IGP Site	!	Northing	: 686749.6 Easting: 649175.5	Drilling Compar	oany: Boart Long Year		
rojec	<b>:t #:</b> 601	37362			Ground	Elevation: 10.3	Well Screen Inte	erval (ft bgs): 32-42		
tart I	Date: 3/2	20/2013			Drilling I	Method: Roto-Sonic	Water Level (ft): NA			
inish	Date: 3	/20/2013			Borehole	e Diameter:	Total Depth (ft):	47.0		
Ueptn (ft bgs)	Recovery Length (%)	CIA (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction	
_ 28 _ 30	NA	NA				SILTY fine SAND, tar coated (continued)		Bentonite Seal —	Ž	
32	NA	NA				32.0 SILTY fine SAND, tar saturated		Filter Pack (#0 Sand)		
- 34 - 36 -	NA	NA			SP			6″ Diam. 0.020 SS Continue⊌ Wire Wrap Screen		
38 40 42						42.0				
-						CLAY		Grout		
46	NA	NA			CL	47.0		6" Diam. SS Sump —		
_			•			End of boring at 47.0 ft. bgs.			····	
AEC			emarks:	See bori		-1 for local/adjacent geologic descriptions.				
	ocky Hill, CT 06067				ot Applicable / SAA - Same as Above / bgs - below ground surface					
Rocl	hone: (860) 263-5800 Ground				nd surface elevation referenced to the Brooklyn Highway Datum.					

Sheet 1 of 2

_		-								
Client: Na	tional G	rid			Location	300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright		
Project: E	quity Fo	rmer N	IGP Site		Northing	686760.4 <b>Easting:</b> 649200.0	Drilling Compar	ny: Boart Long Year		
Project #:	601373	62			Ground E	Elevation: 10.3	Well Screen Inte	erval (ft bgs): 33-43		
Start Date:	3/23/2	013			Drilling N	lethod: Roto-Sonic	Water Level (ft)	: NA		
Finish Date	<b>:</b> 3/24/	2013			Borehole	Diameter:	Total Depth (ft):	50.0		
<ul> <li>Depth</li> <li>(ft bgs)</li> <li>Recovery Length</li> </ul>	(%)	Old (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction	
2 4 6 8 10 12 14 14 16 18 20	A	ΝΑ			FILL	FILL material		6° Diam. Sch. 40 PVC Riser Bentonite Grout →		
22 N N	A	NA			PT	PEAT/organic material <u>25.0</u> SILTY fine SAND, 1" tar saturated layer at 28 ft bgs				
26			-		SP					
				<u> </u>						
		Re	emarks:		erminated (	*				
AECOM		0				I-1 and PDI-2 for local/adjacent geologic descr				
500 Enter Rockv Hil	Pocky Hill CT 06067					/ SAA - Same as Above / bgs - below ground				
Phone: (8	Phone: (860) 263-5800 Ground					vation referenced to the Brooklyn Highway Date		χ		
Fax: (860					hing and Easting coordinates referenced to New York State Plane NAD83 East.					

Sheet 2 of 2

	Nationa					: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	-		
-		/ Former N	MGP Site		Northing			ny: Boart Long Year		
-	<b>:t #:</b> 601					Elevation: 10.3		erval (ft bgs): 33-43		
	Date: 3/2				-	Method: Roto-Sonic	Water Level (ft)			
inish	Date: 3	/24/2013	· · · · ·		Borehole	Diameter:	Total Depth (ft):	50.0		
Depth (ft bgs)	Recovery Length (%)	OI4 (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction	
28	NA	NA				SILTY fine SAND, 1" tar saturated layer at 28 ft bgs (contin	nued)			
30			-			30.0 SILTY fine SAND		Bentonite Seal		
32	NA	NA				33.0		Filter Pack (#0 Sand)		
34					SP	SILTY fine SAND, tar saturated				
36										
38 40 42	NA	NA						6" Diam. 0.020 SS Continueu Wire Wrap Screen		
42						43.0 CLAY				
44								Grout		
46	NA	NA			CL			6" Diam. SS Sump 🦳		
48										
50						50.0 End of boring of 50.0 ft, boo				
						End of boring at 50.0 ft. bgs.				
_		R	emarks:	Boring Te	erminated	(ft): 50.0				
AEC	ОМ					I-1 and PDI-2 for local/adjacent geologic descr	iptions.			
500 I	00 Enterprise Dr, Suite 1A NA - No			- Not Applicable / SAA - Same as Above / bgs - below ground surface						
Rock	cy Hill, CT ne: (860) 2	06067 263-5800		Ground s	d surface elevation referenced to the Brooklyn Highway Datum.					
Eave	(860) 263	-5777		Northing	and Eastin	ng coordinates referenced to New York State P	lane NAD83 Fast			

Sheet 1 of 2

Client	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	eve Wright		
rojec	ct: Equity	/ Former N	/IGP Site	;	Northing	: 686765.5 <b>Easting</b> : 649218.0	Drilling Compared	ny: Boart Long Year		
Projec	ct #: 601	37362			Ground E	Elevation: 10.3	Well Screen Inte	erval (ft bgs): 33-43		
Start I	Date: 3/2	3/2013			Drilling N	lethod: Roto-Sonic	Water Level (ft)	el (ft): NA		
inish	Date: 3	/24/2013			Borehole	Diameter:	Total Depth (ft):	: 48.0		
<ul> <li>Ueptn</li> <li>(ft bgs)</li> </ul>	Recovery Length (%)	CIIA (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details		
2 4 6 6 7 8 7 10 12 12 14 14	NA	NA			FILL	FILL material		6" Diam. Sch. 40 PVC Riser		
18 20 22 24 24 26	NA	NA	-		PT	18.0 PEAT/organic material, 2" tar saturated layer 18 ft bgs 25.0 SILTY fine SAND				
		_	· · ·	<u></u>						
Roci Pho	OM Enterprise ky Hill, CT ne: (860) 2 (860) 263	e Dr, Suite 06067 263-5800	emarks:	See borin NA - Not Ground s	Applicable surface elev	<ul> <li>(ft): 48.0</li> <li>2 for local/adjacent geologic descriptions.</li> <li>/ SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Data of the geoordinates referenced to New York State P</li> </ul>	um.	, , , , , , , , , , , , , , , , , , ,		

Sheet 2 of 2

lient: National Grid					: 300 Maspeth Ave, Brooklyn, NY		r: Steve Wright		
Equity	Former N	/IGP Site		Northing	: 686765.5 <b>Easting:</b> 649218.0	Drilling Compa	ny: Boart Long Year		
<b>#:</b> 6013	37362			Ground I	Elevation: 10.3	Well Screen Int	erval (ft bgs): 33-43		
i <b>te:</b> 3/2	3/2013			Drilling N	Method: Roto-Sonic	Water Level (ft)	: NA		
<b>)ate:</b> 3/	24/2013			Borehole	Diameter:	Total Depth (ft)	: 48.0		
Recovery Length (%)	CIA (mdd)	Visible and Olfactory Impacts	Graphic	USCS Code			Well Construction Details	Well Construction	
NA	NA				SILTY fine SAND (continued)		Bentonite Seal →		
				SP	35.0 SILTY fine SAND, bands of tar saturation				
NA	NA				43.0		6" Diam. 0.020 SS Continueus Wire Wrap Screen		
NA	NA			CL	CLAY 48.0		Grout →		
7	*: 601; te: 3/2 ate: 3/ ate: 3/2 (%) NA	*:       60137362         te:       3/23/2013         ate:       3/24/2013         the state       3/24/2013         the state       3/24/2013         the state       ate:         the state	*:       60137362         te:       3/23/2013         ate:       3/24/2013         ate:       3/24/2013         upper (%)       0 (fund d)         (%)       0 (fund d)         NA       NA         NA       NA         NA       NA	te: 3/23/2013 ate: 3/24/2013 ubu density of the second s	*       60137362       Ground I         te:       3/23/2013       Drilling N         ate:       3/24/2013       Borehold         the system       1       1         the system	#:       60137362       Ground Elevation:       10.3         te:       3/23/2013       Drilling Method:       Roto-Sonic         ate::       3/24/2013       Borehole Diameter:         upging Street       orgen by Street       Soil and Rock Description Classification Scheme: USCS         NA       NA       NA       NA       Street         NA       NA       NA       Classification Scheme: USCS         NA       NA       NA       NA       SP       350 SILTY fine SAND, bands of tar saturation         NA       NA       NA       CL       CLAY       CLAY	F:       60137362       Ground Elevation:       10.3       Well Screen Int         te:       3/23/2013       Drilling Method:       Roto-Sonic       Water Level (ft)         te:       3/24/2013       Borehole Diameter:       Total Depth (ft)         tig:       gift effect       gift effect       gift effect       gift effect       gift effect         tig:       gift effect       gift effect	K:         60137362         Ground Elevation:         10.3         Well Screen Interval (ft bgs):         33.43           te:         3/23/2013         Drilling Method:         Roto-Sonic         Water Level (ft):         NA           ate:         3/23/2013         Borehole Diameter:         Total Depth (ft):         NA           utg:         gr gr gr gr gr gr gr gr gr gr gr gr gr g	

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	: Nationa					: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	-	_	
Projec	ct: Equity	Former N	/IGP Site	9	Northing	<b>Easting:</b> 649227.1	Drilling Compar	ny: Boart Long Year		
Projec	ct #: 6013	37362			Ground E	Elevation: 10.2	Well Screen Inte	erval (ft bgs): 35-45		
Start I	Date: 3/1	8/2013			Drilling N	lethod: Roto-Sonic	Water Level (ft): NA			
Finish	Date: 3/	/18/2013			Borehole	Diameter:	Total Depth (ft): 50.0			
o Depth (ft bgs)	Recovery Length (%)	(mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction	
2 4 6 8 10 12 12 14	NA	NA			FILL	FILL material		6" Diam. Sch. 40 PVC Riser		
16	NA	NA				16.0 FILL material, tar stained				
	NA	NA				17.0 FILL material, tar saturated 18.5 to 19 ft bgs				
	NA	NA			PT	19.0 PEAT/organic material				
			-	<u>17 817 817</u> 8 847 847 847 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	SP	25.0 SILTY fine SAND				
		R	emarks:	Borina Te	erminated (	ft): 50.0				
Rocl Pho	OM Enterprise ky Hill, CT ne: (860) 2 (860) 263	e Dr, Suite 06067 263-5800		See borin NA - Not Ground s	ng logs PD Applicable surface elev	I-3 and SB-3B for local/adjacent geologic desc -/ SAA - Same as Above / bgs - below ground vation referenced to the Brooklyn Highway Dat ug coordinates referenced to New York State P	surface um.	\		

Sheet 2 of 2

lient	: Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: St	Steve Wright		
rojeo	ct: Equity	y Former N	/IGP Site		Northing	: 686743.6 <b>Easting</b> : 649227.1	Drilling Compar	ny: Boart Long Year		
roje	ct #: 601	37362			Ground E	Elevation: 10.2	Well Screen Inte	erval (ft bgs): 35-45		
	Date: 3/1				Drilling N	lethod: Roto-Sonic	Water Level (ft)	(ft): NA		
inish	Date: 3	/18/2013			-	Diameter:	Total Depth (ft):			
			s,				,			
ueptn (ft bgs)	Recovery Length (%)	CIA (mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction	
-						SILTY fine SAND (continued)				
28 30 32 34	NA	NA			SP			Bentonite Seal		
_						35.0				
36	NA	NA				SILTY fine SAND, tar saturated				
38 40 42 44	NA	NA			SM	44.5		6" Diam. 0.020 SS Continu <del>ous</del>		
46 48 50	NA	NA			CL	CLAY 50.0		Grout →		
						End of boring at 50.0 ft. bgs.				
		R	emarks:	Boring T	erminated (	(ft): 50.0				
AE0	014	N			Terminated (ft): 50.0 ring logs PDI-3 and SB-3B for local/adjacent geologic descriptions.					
500 Roci	00 Enterprise Dr, Suite 1A NA - No ocky Hill, CT 06067			NA - Not	lot Applicable / SAA - Same as Above / bgs - below ground surface d surface elevation referenced to the Brooklyn Highway Datum.					
-110						ng coordinates referenced to New York State P		x.		

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Client	Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: Ki	isten Durocher		
		y Former N	/IGP Site	)	Northing			ny: Boart Long Year		
-	t#: 601				-	Elevation: 12.4		erval (ft bgs): 28-43		
-	<b>Date:</b> 4/8				Drillina N	Nethod: Roto-Sonic	Water Level (ft)			
Finish	Date: 4	/10/2013			_	Diameter:	Total Depth (ft): 48.0			
			ú							
<ul><li>Depth</li><li>(ft bgs)</li></ul>	Recovery Length (%)	CIP (mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction	
2 4 6 8 10					Η	Fill material, some brick fragments and glass.		6" Diam. Sch. 40 PVC Riser		
12	NA	NA			ML	11.0 Sandy Silt, grey to black, fine grained, some coarse to fine	gravel.	Bentonite Grout 🕂		
14			-		ML	15.0 Fibrous and Friable Peat				
16 	NA	NA			PT					
24 -						26.0		Bentonite Seal 🛛 🛥		
		R	emarks:		erminated (					
Rock Phor		e Dr, Suite 06067 263-5800		See borin NA - Not Ground s	ng log PDI- Applicable surface elev	<ul> <li>46.0</li> <li>6 for local/adjacent geologic descriptions.</li> <li>7 SAA - Same as Above / bgs - below ground</li> <li>vation referenced to the Brooklyn Highway Dat</li> <li>ng coordinates referenced to New York State P</li> </ul>	um.	х		

(Continued Next Page)

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Client:	Nationa	al Grid			Location	: 300 Maspeth Ave, Brooklyn, NY	Logged By: Kr	isten Durocher		
Projec	t: Equity	/ Former N	/IGP Site		Northing			ny: Boart Long Year		
Projec	t#: 601	37362			Ground E	Elevation: 12.4	Well Screen Inte	erval (ft bgs): 28-43		
Start D	Date: 4/8	/2013			Drilling N	Method: Roto-Sonic	Water Level (ft)	: NA		
Finish	Date: 4	/10/2013			Borehole	Diameter:	Total Depth (ft):	48.0		
Depth (ft bgs)	Recovery Length (%)	DI9 (mqq)	Visible and Olfactory Impacts	Graphic	USCS Code	Soil and Rock Description Classification Scheme: USCS		Well Construction Details	Well Construction	
28 - 30 - 32 -						SAND, tar saturated/Sand tar coated		Filter Pack (#0 Sand) ᢇ		
34	NA	NA			SP			6" Diam. 0.020 SS Continu <del>ous</del> Wire Wrap Screen		
38 - 40 - 42	NA	NA								
44	NA	NA				43.0 CLAY		Grout -		
46					CL	48.0		6" Diam. SS Sump		
AEC0 500 E	Enterprise	) Dr, Suite	emarks:	See bori		End of boring at 48.0 ft. bgs. (ft): 48.0 -6 for local/adjacent geologic descriptions. e / SAA - Same as Above / bgs - below ground	surface			
Phon	Rocky Hill, CT 06067 Phone: (860) 263-5800				ind surface elevation referenced to the Brooklyn Highway Datum. hing and Easting coordinates referenced to New York State Plane NAD83 East.					

Appendix B

Air Monitoring Data

# Table B-1Community Air Monitoring Plan Data

		Upwind PID	Upwind Dust	Work Area PID	Downwind PID	Downwind Dust	Corrected PID	Corrected Dust
Date	Time	(ppm)	(mg/m <sup>3</sup> )	(ppm)	(ppm)	(mg/m <sup>3</sup> )	(ppm)	(mg/m <sup>3</sup> )
3/10/2013	8:00	0.1	0.078	0	0.1	0.162	0.1	0.084
3/10/2013	8:20	0.1	0.091	0	0.1	0.148	0.1	0.057
3/10/2013	8:40	0	0.157	0	0.3	0.169	0.3	0.012
3/10/2013	8:55	0.1	0.096	0	0.3	0.16	0.2	0.064
3/10/2013	9:10	0	0.116	0	0.3	0.136	0.3	0.02
3/10/2013	9:30	0.1	0.075	0	0.3	0.056	0.2	-0.019
3/10/2013	9:45	0.1	0.072	0	0.3	0.129	0.2	0.057
3/10/2013 3/10/2013	10:00 10:15	0 0	0.077 0.081	0 0	0.1 0	0.079 0.089	0.1 0	0.002 0.008
3/10/2013	10:15	0	0.098	0	0	0.106	0	0.008
3/10/2013	11:10	0	0.132	0	0	0.109	0	0.109
3/10/2013	11:15	0	0.141	0 0	õ	0.81	0 0	0.669
3/10/2013	11:32	0	0.119	0	0	0.85	0	0.731
3/12/2013	7:15	0	n/a	0	0	0.017	0	0.017
3/12/2013	7:30	0	n/a	0	0	0.027	0	0.027
3/12/2013	7:48	0	n/a	0	0	0.021	0	0.021
3/12/2013	8:10	0	n/a	0	0	0.024	0	0.024
3/12/2013	8:40	0	n/a	0	0	0.028	0	0.028
3/12/2013	9:00	0	n/a	0	0.2	0.025	0.2	0.025
3/12/2013	9:15	0	n/a	0	0.2	0.024	0.2	0.024
3/12/2013	9:35	0	n/a	0	0.2	0.032	0.2	0.032
3/12/2013 3/12/2013	10:00 10:15	0.2 0.2	n/a n/a	0 0	0 0	0.029 0.03	0.2 0.2	0.029 0.03
3/12/2013	10:15	0.2	n/a	0	0	0.027	0.2	0.027
3/12/2013	10:57	0.2	n/a	0	0	0.014	0.2	0.014
3/12/2013	11:11	0.1	n/a	n/a	n/a	n/a	0.1	0.014
3/13/2013	7:20	0	0.083	0	0	0.088	0	0.005
3/13/2013	7:40	0	0.068	0	0	0.107	0	0.039
3/13/2013	8:05	0	0.061	0	0	0.074	0	0.013
3/13/2013	8:25	0	0.066	0	0	0.089	0	0.023
3/13/2013	8:45	0	0.061	0	0	0.112	0	0.051
3/13/2013	9:05	0	0.054	0	0	0.178	0	0.124
3/13/2013	9:25	0	0.062	0	0	0.076	0	0.014
3/13/2013	9:50	0	0.068	0	0	0.073	0	0.005
3/13/2013	10:10	0	0.074	0	0.3	0.069	0.3	0.069
3/13/2013 3/13/2013	10:35 11:00	0 0	0.05 0.052	0.3 0.4	0.2 0	0.092 0.108	0.2 0	0.042 0.056
3/13/2013	11:25	0	0.052	0.4	0.1	0.087	0.1	0.028
3/13/2013	11:42	0	0.104	0.4	0.3	0.061	0.3	0.061
3/13/2013	12:00	Ő	0.078	0.3	0.3	0.104	0.3	0.026
3/13/2013	12:30	0	0.067	0.4	0.5	0.177	0.5	0.11
3/14/2013	9:10	0.2	0.029	0	0	0.024	0.2	0.024
3/14/2013	9:30	0.2	0.024	0	0	0.028	0.2	0.004
3/14/2013	9:50	0.2	0.056	0	0	0.029	0.2	0.029
3/14/2013	10:10	0.2	0.051	0	0	0.068	0.2	0.017
3/14/2013	10:34	0.2	0.059	0	0	0.072	0.2	0.013
3/14/2013	11:00	0.2	0.082	0	0	0.099	0.2	0.017
3/14/2013	11:20	0.3	0.033 0.047	0	0	0.061	0.3	0.028
3/14/2013 3/14/2013	11:42 12:05	0.2 0.2	0.047	0 0	0 0	0.053 0.05	0.2 0.2	0.006 0.014
3/14/2013	12:05	0.2	0.030	0	0	0.087	0.2	0.056
3/14/2013	12:40	0.3	0.033	0	ů 0	0.057	0.3	0.024
3/14/2013	13:00	0.3	0.049	0	0	0.066	0.3	0.017
3/14/2013	13:20	0.2	0.043	0	0	0.064	0.2	0.021
3/23/2013	8:10	0.2	0.065	0	0	0.06	0.2	0.06
3/23/2013	8:25	0.2	0.054	0	0	0.07	0.2	0.016
3/23/2013	8:40	0.3	0.075	0	0	0.052	0.3	0.052
3/23/2013	9:00	0.3	0.074	0	0	0.058	0.3	0.058
3/23/2013	9:18	0.3	0.051	0	0	0.046	0.3	0.046
3/23/2013	9:34	0.2	0.071	0	0	0.153	0.2	0.082
3/23/2013	9:47	0.2	0.018	0	0	0.155	0.2	0.137
3/23/2013	10:05	0.3	0.002	0	0	0.118	0.3	0.116
3/23/2013 3/23/2013	10:20 10:37	0.3 0.4	0.131 0.03	0 0	0 0	0.155 0.123	0.3 0.4	0.024 0.093
3/23/2013	10:37	0.4	0.03	0	0	0.123	0.4	0.093
3/23/2013	10.55	0.3	0.094	0	0	0.12	0.3	0.12
3/23/2013	11:30	0.3	0.055	0	0	0.096	0.3	0.020
3/23/2013	11:46	0.4	0.043	0	õ	0.135	0.4	0.092
3/23/2013	12:00	0.3	0.02	0	0	0.108	0.3	0.088

# Table B-1Community Air Monitoring Plan Data

Dete         Time         (ppm)         (			Upwind PID	Upwind Dust	Work Area PID	Downwind PID	Downwind Dust	Corrected PID	Corrected Dust
3222013         12.20         0.3         0.028         0         0         0.1677         0.3         0.0666           3222013         13.00         0.4         0.339         0         0         0.171         0.4         0.31           3222013         13.40         0.3         0.44         0.31         0.44         0.31           3222013         13.42         0.3         0.42         0         0         0.153         0.44         0.31           3222013         14.45         0.3         0.447         0         0         0.118         0.3         0.161           3222013         14.45         0.3         0.417         0         0         0.118         0.3         0.161           3222013         14.50         0.3         0.402         0         0         0.116         0.3         0.414           0         0.3         0.476         0         0.477         3         0         0.414         0         0.3         0.476         0         0.476           3222013         8.47         0         0.117         0         0         0.476         0         0.476           3222013         9.47         0 </th <th>Date</th> <th>Time</th> <th>•</th> <th>•</th> <th></th> <th>(ppm)</th> <th>(mg/m<sup>3</sup>)</th> <th>(ppm)</th> <th>(mg/m<sup>3</sup>)</th>	Date	Time	•	•		(ppm)	(mg/m <sup>3</sup> )	(ppm)	(mg/m <sup>3</sup> )
3/22/013         12:45         0.3         0.066         0         0.0622         0.3         0.0667           3/22/013         13:17         0.4         0.01         0         0.322         0.4         0.31           3/22/013         13:14         0.3         0.067         0         0         0.077         0         0         0.077         0         0         0.151         0.3         0.161           3/22/013         13:34         0.3         0.077         0         0         0.158         0.3         0.161           3/22/013         14:50         0.3         0.0177         0         0         0.158         0.3         0.161           3/22/013         14:50         0.3         0.0161         0         0.2         0.063         0.2         0.083         0.2         0.083         0.2         0.083         0.2         0.083         0.2         0.083         0.2         0.083         0.2         0.083         0.2         0.083         0.2         0.083         0.2         0.083         0.2         0.083         0.2         0.062         0.2         0.043         0.2         0.083         0.2         0.023         0.0262         0.2	3/23/2013	12:15							0.089
3222013         13:00         0.4         0.399         0         0.717         0.4         0.717           3222013         13:32         0.3         0.16         0         0.087         0.3         0.087           3222013         13:44         0.3         0.147         0         0         0.12         0.3         0.165           3222013         14:40         0.3         0.147         0         0         0.116         0.3         0.121           3222013         14:50         0.3         0.002         0         0         0.116         0.3         0.163           3222013         7:45         0         0.138         0         0.3         0.078         0.3         0.076           3222013         8:15         0         0.1017         0         0.1         0.053         0.1         0.083           3222013         8:15         0         0.130         0.3         0.81         0.3         0.076           3222013         8:15         0         0.130         0.1         0.053         0         0.063           3222013         10:15         0         0         0.077         0         0.0765	3/23/2013	12:30		0.028	0	0	0.157	0.3	0.129
3222013         13:17         0.4         0.01         0         0.32         0.4         0.31           3232013         13:48         0.3         0.062         0         0.168         0.3         0.107           3232013         14:40         0.3         0.117         0         0         0.118         0.3         0.112           3232013         14:45         0.3         0.017         0         0         0.118         0.3         0.115           3232013         14:45         0.3         0.016         0         0.118         0.3         0.0178           3232013         14:50         0.3         0.016         0.2         0.118         0.3         0.078           3232013         16:0         0.134         0         0.3         0.086         0.3         0.078           3232013         8:15         0         0.115         0         0         0.076         0         0.076           3282013         8:30         0         0.11         0.053         0.077         0         0.076         0         0.079           3282013         10:10         0.1139         0         0         0.052         0         0.083 </td <td>3/23/2013</td> <td>12:45</td> <td>0.3</td> <td></td> <td></td> <td></td> <td>0.092</td> <td>0.3</td> <td>0.056</td>	3/23/2013	12:45	0.3				0.092	0.3	0.056
3/23/2013         13.32         0.3         0.16         0         0.687         0.3         0.067           3/23/2013         14.40         0.3         0.147         0         0         0.12         0.3         0.12           3/23/2013         14.45         0.3         0.017         0         0         0.15         0.3         0.111           3/23/2013         14.30         0.3         0.012         0.0083         0.2         0.083         0.2         0.083           3/23/2013         14.50         0.3         0.016         0.3         0.016         0.3         0.067         0.3         0.076           3/23/2013         8.15         0         0.113         0         0.3         0.968         0         0.076           3/23/2013         8.47         0         0.117         0         0.0693         0         0.0693           3/22/2013         8.47         0         0.117         0         0.0633         0         0.053         0         0.043           3/22/2013         9.30         0         0.117         0         0.0633         0         0.052         0         0.043         0         0         0.0779									
3222013         1.446         0.3         0.042         0         0.168         0.3         0.107           3222013         14.15         0.3         0.017         0         0         0.118         0.3         0.101           3232013         14.15         0.3         0.002         0         0         0.116         0.3         0.115           3232013         7.30         0         0.144         0         0.3         0.066         0.3         0.066           3232013         7.30         0         0.1144         0         0.3         0.066         0.3         0.066           3232013         7.30         0         0.1144         0         0.3         0.066         0.3         0.066           3232013         8.15         0         0.115         0         0         0.076         0         0.077           3282013         8.15         0         0.113         0         0         0.0653         0         0.0633           3282013         10.15         0.1         0.121         0         0         0.0653         0         0.0633           3282013         10.15         0.1         0.136         0									
3222013         14:00         0.3         0.147         0         0         0.12         0.3         0.101           3222013         14:30         0.3         0         0         0.15         0.3         0.151           3222013         14:50         0.3         0.0161         0.2         0.083         0.2         0.083           3222013         14:50         0.3         0.0161         0         0.3         0.076         0.3         0.078           3222013         15:30         0         0.1461         0         0.3         0.076         0.3         0.078           3222013         15:30         0         0.107         0         0.1         0.053         0.1         0.069           3222013         9:30         0         0.83         0         0.1         0.063         0.1         0.063           3222013         10:15         0.1         0.121         0         0         0.063         0         0.063           3222013         10:16         0.1         0.142         0         0         0.062         0.1         0.062           3222013         10:16         0.1         0.143         0         0.0679 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
3/22/2013         14-15         0.3         0.017         0         0         0.118         0.3         0.011           3/22/2013         14-50         0.3         0.002         0         0         0.116         0.3         0.114           3/22/2013         7.45         0         0.158         0         0.3         0.078         0.3         0.078           3/22/2013         6.00         0         1.44         0         0.3         0.081         0.3         0.076         0.3         0.076           3/22/2013         8.15         0         0.103         0         0.3         0.81         0.3         0.076           3/22/2013         8.30         0         0.10         0.03         0.81         0.3         0.076           3/22/2013         10.10         0         0.107         0         0         0.053         0         0.053           3/22/2013         10.10         0         1.0121         0         0         0.077         0         0.079           3/22/2013         10.10         0.1         0.143         0         0         0.079         0         0.079           3/22/2013         10.10         0.									
3/22/2013         14:30         0.3         0         0         0.15         0.3         0.15           3/22/2013         7:30         0         0.161         0         0.2         0.063         0.2         0.083           3/22/2013         7:45         0         0.164         0         0.3         0.066         0.3         0.066           3/22/2013         8:50         0         0.116         0         0.3         0.616         0.3         0.066           3/22/2013         8:47         0         0.107         0         0.1         0.633         0.1         0.053           3/22/2013         9:53         0         0.433         0         0         0.6653         0         0.009           3/22/2013         10:10         0         0.1177         0         0         0.653         0         0.009           3/22/2013         10:10         0         0.118         0         0         0.079         0         0.079           3/22/2013         10:10         0.144         0         0         0.033         0.006           3/22/2013         10:10         0.3         0.166         0         0.0177         0.2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
3/23/2013         7.30         0         0.002         0         0.116         0.3         0.114           3/28/2013         7.45         0         0.158         0         0.3         0.078         0.3         0.078           3/28/2013         8.40         0         0.116         0.3         0.068         0.3         0.078           3/28/2013         8.15         0         0.103         0         0.3         0.81         0.3         0.076           3/28/2013         8.30         0         0.117         0         0.1         0.063         0.1         0.063           3/28/2013         9.30         0.813         0         0.1         0.063         0.1         0.0623           3/28/2013         0.137         0         0.107         0         0         0.0623         0.1         0.0623           3/28/2013         10.10         0.146         0         0         0.079         0         0.079           3/28/2013         10.10         0.146         0         0         0.072         0.2         0.023           3/28/2013         10.10         0.146         0         0         0.072         0.2         0.22									
3222013         7.30         0         0.161         0         0.2         0.083         0.2         0.083           3222013         6.00         0         0.144         0         0.3         0.066         0.3         0.066           3222013         8.15         0         0.115         0         0         0.076         0         0.076           3222013         8.30         0         0.115         0         0         0.076         0         0.076         0         0.076         0         0.076         0         0.076         0         0.076         0         0.076         0         0.076         0         0         0.076         0         0         0.077         0         0         0.033         0         0.043         0         0         0.033         0         0.043         0         0         0.033         0         0.043         0.043         0.042         0         0         0.033         0         0         0         0.043         0.046         0         0         0         0         0         0         0         0.046         0         0         0         0         0         0         0         0									
3282013         7.45         0         0.158         0         0.3         0.078         0.3         0.078           3282013         8:15         0         0.103         0         0.3         0.81         0.3         0.076           3282013         8:17         0         0.107         0         0.1         0.053         0.019           3282013         9:30         0         0.133         0         0.14         0.069         0         0.099           3282013         9:30         0         0.133         0         0.117         0         0.004           3282013         10:10         0         0.177         0         0         0.0653         0         0.053           3282013         10:15         0         0.139         0         0         0.0662         0.1         0.062           3282013         10:10         0.3         0.138         0         0         0.0023         0.2         0.023           3282013         10:25         0.2         0.134         0         0         0.0127         0.2         0.024           3282013         10:40         0.2         0.014         0.2         0.027									
3282013         8:00         0         0.144         0         0.3         0.081         0.3         0.066           3282013         8:30         0         0.115         0         0         0.076         0         0.076           3282013         8:05         0         0.99         0         0         0.0693         0.1         0.063           3282013         9:53         0         0.133         0         0         0.117         0         0.0623         0         0.063           3282013         10:10         0.1077         0         0         0.0623         0         0.063           3282013         10:17         0         1.0         0.079         0         0.079           3282013         10:10         0.1         0.143         0         0         0.023         0.22         0.127           3282013         10:20         0.2         0.144         0         0         0.023         0.22         0.127           3282013         10:40         0         0         0.0168         0         0.0168         0         0.0163           3282013         11:50         0         0.1044         0         0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
3282013         8:30         0         0.115         0         0.076         0.076           3282013         9:05         0         0.99         0         0         0.089         0         0.089           3282013         9:30         0         0.433         0         0.1         0.093         0.1         0.004           3282013         10:10         0         0.177         0         0         0.0653         0         0.063           3282013         10:17         0         1.0         0.079         0         0.079           3282013         10:37         0         1.139         0         0         0.023         0.22         0.147           3282013         10:10         0.1         0.143         0         0         0.023         0.023         0.023           3282013         10:40         0         0         0.016         0         0.016         0         0.016           3282013         11:30         0.2         0.144         0         0         0.016         0         0.016           3282013         11:30         0.2         0.014         0.2         0.0127         0.2         0.027									
3/28/2013         8/47         0         0.107         0         0.1         0.069         0         0.069           3/28/2013         9:30         0         0.83         0         0.11         0.039         0.1         0.069           3/28/2013         10:10         0         0.117         0         0.004         0.023         0         0.053           3/28/2013         10:15         0.1         0.121         0         0         0.062         0.1         0.062           3/28/2013         10:10         0.3         0.139         0         0.1         0.63         0         0.079           3/28/2013         10:10         0.3         0.136         0         0         0.023         0.2         0.023           3/28/2013         10:40         0.2         0.144         0         0         0.016         0         0.016           3/28/2013         11:47         0.2         0.122         0         0         0.027         0.2         0.024           3/28/2013         11:47         0.2         0.122         0         0         0.031         0.2         0.031           3/28/2013         11:47         0.2         <	3/28/2013	8:15	0	0.103	0	0.3	0.81	0.3	0.707
3/28/2013         9:05         0         0.99         0         0.083         0         0.093         0.093           3/28/2013         9:53         0         0.113         0         0         0.017         0         0.0633           3/28/2013         10:10         0.1         0.117         0         0.0653         0         0.0533           3/28/2013         10:15         0.1         0.121         0         0         0.079         0         0.0623           3/28/2013         10:37         0         0.139         0         0         0.008         0         0.0683           3/28/2013         10:25         0.2         0.131         0         0         0.008         0         0.023           3/28/2013         10:40         0.2         0.144         0         0         0.127         0.2         0.027           3/28/2013         11:30         0.2         0.089         0         0         0.016         0         0.017           3/28/2013         11:47         0.2         0.027         0         0.027         0.2         0.027           3/28/2013         7:42         0         0.163         0         0.0	3/28/2013	8:30	0	0.115		0	0.076	0	0.076
3/28/2013         9:33         0         0.13         0         0.117         0         0.004           3/28/2013         10:15         0.1         0.121         0         0         0.053         0         0.053           3/28/2013         10:15         0.1         0.121         0         0         0.062         0.1         0.062           3/28/2013         10:30         0         1.039         0         0         0.079         0         0.073           3/28/2013         10:10         0.3         0.136         0         0         0.023         0.2         0.023           3/28/2013         10:42         0.144         0         0         0.016         0         0.016           3/28/2013         11:15         0.3         0.099         0         0         0.014         0.2         0.014           3/28/2013         11:147         0.2         0.122         0         0         0.027         0.2         0.027           3/30/2013         7:25         0         0.101         0         0         0.023         0.1         0.033           3/30/2013         7:37         0         0.168         0         0.0112<	3/28/2013	8:47							
3/28/2013         9:53         0         0.113         0         0         0.117         0         0.0053         0         0.053         0         0.053         0         0.053         0         0.053         0         0.053         0         0.053         0         0.0623         0         0.079         0         0.023         0.023         0.023         0.023         0.023         0.023         0.023         0.023         0.023         0.023         0.023         0.023         0.0147         0         0         0.0031         0.127         0.22         0.014         0         0         0.0031         0.127         0.23         0.0173         0.322/2013         1.033         0.153         <									
3/24/2013         10:15         0         0.0107         0         0.0622         0.1         0.0622           3/28/2013         10:37         0         0.139         0         0         0.0622         0.1         0.0623           3/28/2013         10:10         0.3         0.138         0         0         0.01         0.633         0         0.487           3/28/2013         10:10         0.3         0.136         0         0         0.023         0.22         0.127           3/28/2013         10:25         0.2         0.144         0         0         0.016         0         0.016           3/28/2013         11:35         0.3         0.029         0         0         0.016         0         0.016           3/28/2013         11:47         0.2         0.022         0.014         0         0         0.031         0.2         0.027           3/28/2013         11:47         0.2         0.122         0         0         0.0389         0         0.0389           3/28/2013         12:45         0.2         0.101         0         0         0.0389         0         0.0389           3/28/2013         7:35									
3/28/2013         10:37         0         0.139         0         0         0.079         0         0.079           3/28/2013         11:00         0.1         0.138         0         0         0.0079         0         0.079           3/28/2013         10:10         0.3         0.136         0         0         0.023         0.2         0.023           3/28/2013         10:26         0.2         0.144         0         0         0.016         0         0.017         0.2         0.127           3/28/2013         11:15         0.3         0.099         0         0         0.016         0         0.016           3/28/2013         11:147         0.2         0.022         0         0         0.014         0.2         0.027           3/28/2013         11:47         0.2         0.122         0         0         0.0231         0.2         0.029           3/30/2013         7:22         0         0.044         0         0         0.033         0.1         0.033           3/30/2013         7:37         0.1         0.116         0         0         0.033         0.1         0.033           3/30/2013         8									
3/28/2013         10:37         0         0.139         0         0         0.079         0         0.079           3/28/2013         10:10         0.3         0.136         0         0         0.068         0.3         0.068           3/28/2013         10:25         0.2         0.131         0         0         0.023         0.2         0.023           3/28/2013         10:58         0         0.168         0         0         0.016         0         0.016           3/28/2013         11:13         0.2         0.089         0         0         0.017         0.2         0.027           3/28/2013         11:47         0.2         0.122         0         0         0.016         0         0.027         0.2         0.027           3/28/2013         11:47         0.2         0.122         0         0         0.038         0         0.038           3/38/2013         7:52         0         0.121         0         0         0.032         0         0.062           3/38/2013         7:52         0         0.121         0         0         0.052         0         0.052           3/38/2013         8:25									
3/28/2013       11:00       0.1       0.136       0       0.0083       0.2       0.023         3/28/2013       10:25       0.2       0.131       0       0       0.023       0.2       0.023         3/28/2013       10:40       0.2       0.144       0       0       0.127       0.2       0.127         3/28/2013       11:15       0.3       0.099       0       0       0.009       0.3       0.009         3/28/2013       11:47       0.2       0.189       0       0       0.016       0       0.014         3/28/2013       11:47       0.2       0.189       0       0       0.027       0.2       0.027         3/28/2013       11:47       0.2       0.125       0       0       0.031       0.2       0.031         3/30/2013       7:25       0       0.153       0       0       0.033       0.1       0.073         3/30/2013       7:57       0.1       0.116       0       0       0.032       0       0.062         3/30/2013       8:25       0.2       0.113       0       0       0.162       0       0.052         3/30/2013       8:25       <									
3/29/2013         10:25         0.2         0.131         0         0         0.008         0.3         0.008           3/29/2013         10:25         0.2         0.131         0         0         0.127         0.2         0.127           3/29/2013         11:15         0.3         0.099         0         0         0.106         0         0.009           3/29/2013         11:15         0.3         0.099         0         0         0.014         0.2         0.014           3/29/2013         11:37         0.2         0.122         0         0         0.014         0.2         0.014           3/29/2013         12:05         0.2         0.101         0         0         0.033         0.2         0.031           3/30/2013         7:55         0         0.153         0         0         0.096         0         0.033           3/30/2013         7:52         0         0.121         0         0         0.033         0.1         0.033           3/30/2013         8:25         0.2         0.113         0         0         0.0162         0.1         0.052           3/30/2013         8:25         0.2         0									
3/22/2013         10:25         0.2         0.131         0         0         0.023         0.2         0.023           3/22/2013         10:58         0         0.108         0         0         0.107         0.2         0.117           3/22/2013         11:15         0.3         0.099         0         0         0.016         0         0.014           3/22/2013         11:30         0.2         0.089         0         0         0.014         0.2         0.014           3/22/2013         11:47         0.2         0.122         0         0.0027         0.2         0.0021           3/22/2013         11:47         0.2         0.123         0         0         0.0396         0         0.0023           3/30/2013         7:65         0         0.153         0         0         0.033         0.1         0.073           3/30/2013         7:52         0         0.121         0         0         0.052         0         0.062           3/30/2013         8:26         0.2         0.113         0         0         0.073         0.2         0.073           3/30/2013         8:25         0.3         0.124 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
3/29/2013         10:40         0.2         0.144         0         0         0.127         0.2         0.127           3/29/2013         11:15         0.3         0.099         0         0         0.009         0.3         0.009           3/29/2013         11:30         0.2         0.089         0         0         0.014         0.2         0.017           3/29/2013         11:37         0.2         0.122         0         0         0.027         0.2         0.027           3/29/2013         11:37         0.2         0.122         0         0         0.039         0         0.089           3/30/2013         7:65         0         0.153         0         0         0.033         0.1         0.033           3/30/2013         7:52         0         0.121         0         0         0.033         0.1         0.033           3/30/2013         8:25         0.2         0.113         0         0         0.073         0.2         0.073           3/30/2013         8:25         0.3         0.159         0         0         0.111         0.3         0.111           3/30/2013         9:50         0.3         0									
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3/29/2013       11:15       0.3       0.009       0       0.009       0.3       0.009         3/29/2013       11:30       0.2       0.089       0       0       0.014       0.2       0.014         3/29/2013       11:47       0.2       0.122       0       0       0.027       0.2       0.027         3/30/2013       7:05       0.2       0.101       0       0       0.096       0       0.038         3/30/2013       7:52       0       0.044       0       0       0.033       0.1       0.033         3/30/2013       7:52       0       0.121       0       0       0.0652       0       0.052         3/30/2013       8:08       0.1       0.108       0       0       0.073       0.2       0.073         3/30/2013       8:25       0.2       0.113       0       0       0.073       0.2       0.073         3/30/2013       8:25       0.3       0.171       0       0       0.073       0.3       0.044         3/30/2013       9:50       0.3       0.0171       0       0       0.073       0.3       0.059         3/30/2013       10:03 <td< td=""><td>3/29/2013</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	3/29/2013								
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3/29/2013       12:05       0.2       0.104       0       0       0.031       0.2       0.031         3/30/2013       7:05       0       0.153       0       0.098       0       0.098         3/30/2013       7:22       0       0.044       0       0.1       0.117       0.1       0.073         3/30/2013       7:52       0       0.121       0       0       0.652       0       0.654         3/30/2013       8:08       0.1       0.108       0       0.073       0.2       0.073         3/30/2013       8:25       0.2       0.113       0       0       0.073       0.2       0.073         3/30/2013       8:25       0.2       0.113       0       0       0.011       0.3       0.064         3/30/2013       8:25       0.3       0.134       0       0       0.073       0.3       0.0111         3/30/2013       10:37       0.3       0.067       0       0       0.127       0.4       0.073         3/30/2013       10:38       0.4       0.054       0       0       0.134       0.3       0.067         3/30/2013       11:20       0.3 <t< td=""><td>3/29/2013</td><td>11:30</td><td></td><td>0.089</td><td></td><td></td><td></td><td></td><td></td></t<>	3/29/2013	11:30		0.089					
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3/30/201311.130.40.061000.1160.40.0553/30/201312:000.30.068000.1320.30.0644/1/20137:050n/a000.03400.0344/1/20137:250n/a000.04500.0454/1/20137:450.1n/a000.0530.10.0534/1/20138:050.20.137000.0380.20.0384/1/20138:280.20.141000.1390.30.1394/1/20139:100.30.145000.1270.30.1274/1/20139:100.30.145000.1110.30.0024/1/20139:300.30.108000.1570.20.0694/1/201310:080.40.151000.1570.20.0694/1/201310:020.20.081000.1480.20.0674/1/201311:450.20.081000.1480.20.0674/1/201311:450.20.061000.08800.0194/1/201311:4500.065000.1480.20.0674/1/201311:4500.065000.07800.0194/1/201311:200									
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4/1/2013 $7:45$ $0.1$ $n/a$ $0$ $0$ $0.053$ $0.1$ $0.053$ $4/1/2013$ $8:05$ $0.2$ $0.137$ $0$ $0$ $0.038$ $0.2$ $0.038$ $4/1/2013$ $8:28$ $0.2$ $0.141$ $0$ $0$ $0.136$ $0.2$ $0.136$ $4/1/2013$ $8:46$ $0.3$ $0.142$ $0$ $0$ $0.139$ $0.3$ $0.139$ $4/1/2013$ $9:10$ $0.3$ $0.145$ $0$ $0$ $0.127$ $0.3$ $0.127$ $4/1/2013$ $9:30$ $0.3$ $0.108$ $0$ $0$ $0.11$ $0.3$ $0.002$ $4/1/2013$ $9:30$ $0.3$ $0.108$ $0$ $0$ $0.11$ $0.3$ $0.002$ $4/1/2013$ $9:30$ $0.3$ $0.108$ $0$ $0$ $0.244$ $0.4$ $0.047$ $4/1/2013$ $10:08$ $0.4$ $0.151$ $0$ $0$ $0.278$ $0.4$ $0.127$ $4/1/2013$ $10:20$ $0.2$ $0.088$ $0$ $0$ $0.141$ $0.3$ $0.05$ $4/1/2013$ $11:23$ $0.2$ $0.077$ $0$ $0$ $0.627$ $0.2$ $0.657$ $4/1/2013$ $11:45$ $0.2$ $0.081$ $0$ $0$ $0.148$ $0.2$ $0.067$ $4/1/2013$ $11:45$ $0.2$ $0.061$ $0$ $0.088$ $0$ $0.019$ $4/2/2013$ $8:20$ $0$ $0.065$ $0$ $0.082$ $0$ $0.017$ $4/2/2013$ $8:38$ $0$ $0.07$									
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4/1/2013	9:10	0.3	0.145	0	0	0.127	0.3	0.127
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4/1/201311:450.20.081000.1480.20.0674/1/201312:020.10.07000.2030.10.1334/2/20137:4500.061000.0800.0194/2/20138:0200.059000.07800.0194/2/20138:2000.065000.08200.0174/2/20138:3800.07000.0900.024/2/20138:5600.098000.13300.035									
4/1/201312:020.10.07000.2030.10.1334/2/20137:4500.061000.0800.0194/2/20138:0200.059000.07800.0194/2/20138:2000.065000.08200.0174/2/20138:3800.07000.0900.024/2/20138:5600.098000.13300.035									
4/2/20137:4500.061000.0800.0194/2/20138:0200.059000.07800.0194/2/20138:2000.065000.08200.0174/2/20138:3800.07000.0900.024/2/20138:5600.098000.13300.035									
4/2/20138:0200.059000.07800.0194/2/20138:2000.065000.08200.0174/2/20138:3800.07000.0900.024/2/20138:5600.098000.13300.035									
4/2/2013         8:20         0         0.065         0         0         0.082         0         0.017           4/2/2013         8:38         0         0.07         0         0         0.09         0         0.02           4/2/2013         8:56         0         0.098         0         0         0.133         0         0.035									
4/2/2013         8:38         0         0.07         0         0         0.09         0         0.02           4/2/2013         8:56         0         0.098         0         0         0.133         0         0.035									
4/2/2013 8:56 0 0.098 0 0 0.133 0 0.035									
4/2/2013 9:12 0.1 0.0186 0 0 0.169 0.1 0.1504	4/2/2013	8:56	0	0.098	0	0	0.133		0.035
	4/2/2013	9:12	0.1	0.0186	0	0	0.169	0.1	0.1504

# Table B-1Community Air Monitoring Plan Data

		Upwind PID	Upwind Dust	Work Area PID	Downwind PID	Downwind Dust	Corrected PID	Corrected Dust
Date	Time	(ppm)	(mg/m <sup>3</sup> )	(ppm)	(ppm)	(mg/m <sup>3</sup> )	(ppm)	(mg/m <sup>3</sup> )
4/2/2013	9:30	0	0.193	0	0.2	0.213	0.2	0.02
4/2/2013	10:00	0	0.25	0	0.2	0.251	0.2	0.001
4/2/2013	10:16	0.3	0.083	0	0	0.122	0.3	0.039
4/2/2013	10:34	0.5	0.211	0	0	0.118	0.5	0.118
4/2/2013	11:00	0.4	0.233	0	0	0.123	0.4	0.123
4/2/2013 4/2/2013	11:22 11:40	0.4 0.3	0.204 0.237	0 0	0 0	0.11 0.116	0.4 0.3	0.11 0.116
4/2/2013	6:50	0.3	0.082	0	0	0.087	0.3	0.005
4/3/2013	7:10	0	0.075	0	õ	0.089	0	0.014
4/3/2013	7:25	0	0.033	0	0	0.156	0	0.123
4/3/2013	8:37	0.6	0.119	0	0.1	0.108	0.6	0.108
4/3/2013	9:15	0.6	0.123	0	0.1	0.108	0.6	0.108
4/3/2013	9:45	0.5	0.138	0	0.1	0.144	0.5	0.006
4/3/2013	10:20	0.6	0.166	0	0.1	0.114	0.6	0.114
4/3/2013	11:30	0.6	0.155	0	0.1	0.123	0.6	0.123
4/4/2013	8:00 8:30	0 0	0.082 0.099	0 0	0	0.129	0 0	0.047
4/4/2013 4/4/2013	8.30 9:00	0.1	0.099	0	0 0	0.117 0.223	0.1	0.018 0.223
4/4/2013	9:30	0	0.274	0	0	0.105	0.1	0.225
4/4/2013	10:15	0	0.095	0	õ	0.084	Ő	0.084
4/4/2013	11:00	0	0.9	0	0	0.93	0	0.03
4/4/2013	11:30	0	0.082	0	0	0.174	0	0.092
4/4/2013	11:55	0	0.081	0	n/a	n/a	0	
4/5/2013	7:25	0	0.133	0	0	0.157	0	0.024
4/5/2013	7:50	0	0.123	0	0	0.164	0	0.041
4/5/2013	8:10	0	0.085	0	0	0.079	0	0.079
4/5/2013 4/5/2013	8:30	0 0	0.093 0.082	0 0	0 0	0.2 0.167	0 0	0.107 0.085
4/5/2013	8:47 9:20	0	0.082	0	0	0.171	0	0.085
4/5/2013	9:20 9:50	0	0.121	0	0	0.203	0	0.082
4/5/2013	10:10	0 0	0.194	0	Õ	0.132	Õ	0.132
4/5/2013	10:30	0	0.136	0	0	0.157	0	0.021
4/5/2013	10:48	0	0.147	0	0	0.166	0	0.019
4/5/2013	11:04	0	0.153	0	0	0.181	0	0.028
4/5/2013	11:20	0	0.119	0	0	0.202	0	0.083
4/5/2013	11:45	0	0.103	0	0	0.133	0	0.03
4/5/2013	12:00	0	0.159	0	0	0.211	0	0.052
4/5/2013 4/5/2013	12:23 12:48	0 0	0.167 0.178	0 0	0 0	0.208 0.202	0 0	0.041 0.024
4/5/2013	13:10	0	0.175	0	0	0.171	0	0.056
4/5/2013	13:25	0	0.128	0	õ	0.14	0	0.012
4/11/2013	11:00	0.1	0.029	0	0	0.038	0.1	0.009
4/11/2013	11:15	0	0.03	0	0	0.039	0	0.009
4/11/2013	11:30	0	0.041	0	0.1	0.043	0.1	0.002
4/11/2013	11:45	0	0.026	0	0.1	0.028	0.1	0.002
4/11/2013	12:02	0	0.023	0	0.1	0.028	0.1	0.005
4/11/2013	12:20	0	0.026	0	0.1	0.031	0.1	0.005
4/11/2013 4/11/2013	12:36 14:00	0 0	0.025 0.031	0 0	0.1 0.1	0.03 0.042	0.1 0.1	0.005 0.011
4/11/2013	13:22	0	0.033	0	0.1	0.041	0.1	0.008
4/13/2013	6:50	Ő	NM	NM	0.5	NM	0.5	0.000
4/13/2013	7:40	0	0.028	NM	0.3	0.007	0.3	0.007
4/13/2013	8:03	0	0.1	NM	0	0.01	0	0.01
4/13/2013	9:00	0.3	0.056	NM	0	0.035	0.3	0.035
4/13/2013	9:36	0	0.07	NM	0	0.023	0	0.023
4/13/2013	10:10	0.4	0.161	NM	0	0.043	0.4	0.043
4/13/2013 4/13/2013	10:36 10:57	0.4 0.3	0.06 0.061	NM NM	0.1 0	0.032 0.027	0.4 0.3	0.032 0.027
4/13/2013	11:12	0.3	0.021	NM	0.4	0.027	0.2	0.027
4/13/2013	11:26	0.2	0.021	NM	0.4	0.023	0.2	0.023
4/15/2013	6:35	0	0.021	0	0	0.006	0	0.006
4/15/2013	6:52	0	0.023	0	0	0.005	0	0.005
4/15/2013	7:10	0.1	0.027	0	0.1	0.008	0	0.008
4/15/2013	7:32	0.1	0.049	0	0.1	0.017	0	0.017
4/15/2013	7:53	0.1	0.025	0	0.2	0.007	0.1	0.007
4/15/2013	8:10	0.1	0.011	0	0.2	0.013	0.1	0.002
4/15/2013	8:30 8:55	0.1	0.013 0.017	0	0.2	0.01 0.008	0.1	0.01 0.008
4/15/2013 4/15/2013	8:55 9:20	0.1 0.1	0.017	0 0	0.2 0.2	0.008	0.1 0.1	0.008
1,10,2010	0.20	0.1	0.012	5	0.2	0.011	0.1	0.011

# Table B-1 Community Air Monitoring Plan Data

Date	Time	Upwind PID (ppm)	Upwind Dust (mg/m <sup>3</sup> )	Work Area PID (ppm)	Downwind PID (ppm)	Downwind Dust (mg/m <sup>3</sup> )	Corrected PID (ppm)	Corrected Dust (mg/m <sup>3</sup> )
4/15/2013	9:38	0	0.012	0	0.2	0.009	0.2	0.009
4/15/2013	10:03	0	0.01	0	0.2	0.008	0.2	0.008
4/15/2013	10:25	0	0.007	0	0.2	0.009	0.2	0.002
4/15/2013	10:42	0	0.013	0	0.2	0.009	0.2	0.009
4/15/2013	11:00	0	0.014	0	0.2	0.008	0.2	0.008
4/15/2013	11:17	0	0.018	0	0.2	0.008	0.2	0.008
4/15/2013	11:35	0	0.022	0	0.2	0.008	0.2	0.008
4/15/2013	12:00	0	0.015	0	0.2	0.011	0.2	0.011
4/16/2013	7:15	0	0.015	0	0.2	0.02	0.2	0.005
4/16/2013	7:32	0	0.027	0	0.2	0.01	0.2	0.01
4/16/2013	7:50	0	0.018	0	0.2	0.022	0.2	0.004
4/16/2013	8:05	0	0.02	0	0.2	0.01	0.2	0.01
4/16/2013	8:35	0	0.022	0	0.3	0.016	0.3	0.016
4/16/2013	9:00	0	0.027	0	0.3	0.017	0.3	0.017
4/16/2013	9:22	0	0.032	0	0.3	0.024	0.3	0.024
4/16/2013	9:45	0	0.02	0	0.3	0.021	0.3	0.001
4/16/2013	10:00	0	0.047	0	0.3	0.027	0.3	0.027
Average		0.127	0.096				0.172	0.063

Note: some data was not recovered due to malfunction of a data logger. Field notes indicate that results were consistent with other days with similar field activities.

Appendix C

Waste Disposal Documentation



### Clean Water of New York, Inc.

3249 Richmond Terrace Staten Island, NY 10303 Phone: 718-981-4600 Fax: 718-981-5213



Job Number JOB0123247	Date 4/24/13	<u>Time</u> 12:25 pm	Job Type Truck Job
·	Generator		Transporter
NATIONAL GRID 222-254 Maspeth Avenu Brooklyn, NY 11211 (000) 000-0000 EPA Permit #	e	WILLIAM J. LAU 3249 Richmond T Staten Island, NY EPA Permit #:	errace 10303
	Customer	NYS DEC Permit #:	
ENVIRO TRAC LTD 5 Old Dock Road Yaphank, NY 11980		Transport / Vessel:	VAC # 55
PO#: 7278	Job #	# of Tanks: Total Capacity:	l 6,300
Profile Sheet: Yes	Approval Code: 1022-002	U of M:	Gallons
<b>.</b>			

Site / Vessel Name: NATIONAL GRID - EQUITY MPG SITE

Received 5,904 Gall	ons Of Oily Wa	ter For Proper	Treatment and	Disposal.		
Products & Test Results	Category D	<b>Code</b> N018		<b>Description</b> Oily Water	Quantity 5,904	<b>UoM</b> Gallons
Compartment	% Water 99.00	% Oil 1.00	% Solid 0.00	Halogens (ppm)	<b>Flash Po</b> >= 100	• •

Other Tests Peformed: No

$\square$		
	ascher 1/201/13.	
Receiver's Sign 4/24/2018 12:2	ature and Date / /	

Did this load or any portion of this load orginate at a utility? Yes

## **NON-HAZARDOUS WASTE MANIFEST**

-

Λ.

	NON-HAZARDOUS 1. Gene	rator's US EPA ID No.	Mani	fest Doc.	No.			2. Page 1 of
	WASTE MANIFEST	DC 04-11-2013 R00018418	7	123	500	31		1
3	Generator's Name and Mailing Address	K U U U I O 4 I O	4 1		1			
	Na Or Bro	itional Grid NY ne Metrotech Center ooklyn, NY 11201 963-5453		A.	'Natio	onal Grid Fo 254 Ma Brookly	speth A	
	Transporter 1 (Company Name)	6. US EPA ID Number		B.	State Tr	ansporter's ID	2A	-531
7	William J. Lauer Corp. Transporter 2 (Company Name)	N Y R 0 0 0 1 5 8. US EPA ID Number	576			orter 1 Telephone ansporter's ID	( 718	) 981-8500
				F	Transno	orter 2 Telephone	1	)
9	Designated Facility Name and Site Address Clean Water Of New York, Inc	10. US EPA ID Number			State Fa	acility ID		
	3249 Richmond Terrace Staten Island, NY 10303	N Y O O O O 9 6		45				81-4600
	I. US DOT Description (Including Proper Shippi		er	12. Con Number		13. Total Quantity	14. Unit Wt / Vol	
a. b. c.	NON RCRA NON DOT REGU	LA FED LIQUIDS		001	T	5904	Gal	STATE N018
b.								EPA
								STATE
C.								EPA
								STATE
d.								EPA
								STATE
l	Additional Description for Materials listed Above 1022-001 - Development Water				J. Hand	lling Codes for W	/astes Liste	d Above
	TOLL OUT Development vater							
a.		C.			a.		C.	
a. b.		c.	~ -					
b.	Special Handling Instructions and Additional Ir	d. Iformation	- X-1		a. b.		c. d.	
b. 15	24 Hour Emergency Telephone	d. nformation e # 877 319-0800	~~~		b.		d.	P.O. # 7278
b. 15	24 Hour Emergency Telephone	d. aformation a # 877 319-0800 certify that the contents of this shipmer			b.		d.	7278
b. 15 16 in Pr	24 Hour Emergency Telephone YOC-555 GENERATOR'S CERTIFICATION: 1 hereby	d. aformation a # 877 319-0800 certify that the contents of this shipmer scribed on this manifest are not subject Signature Workelb			b.		d.	7278
b. 15 16 in Pr 17 Pr 18	24 Hour Emergency Telephone 24 Hour Emergency Telephone 26 Constant of the second se	d. formation <b>e # 877 319-0800</b> certify that the contents of this shipmer scribed on this manifest are not subject Signature Materials Materials			b.		d.	7278 ts Mo. Day Ye V 4 2 411 Mo. Day Ye 0 4 9 41
b. 15 16 in Pr 17 Pr 18 Pr	24 Hour Emergency Telephone 24 Hour Emergency Telephone 202-55 GENERATOR'S CERTIFICATION: I hereby proper condition for transport. The materials des inted/Typed Name DONAD P CAMPBEL Transporter 1 Acknowledgement of Receipt of Inted/Typed Name Transporter 2 Acknowledgement of Receipt of Inted/Typed Name	d. formation e # 877 319-0800 certify that the contents of this shipmer scribed on this manifest are not subject Signature Materials Signature			b.		d.	7278 ts Mo. Day Ye V 4 2 411 Mo. Day Ye 0 4 9 41
b. 15 16 in Pr 17 Pr 18 Pri 19	24 Hour Emergency Telephone SAC-55 GENERATOR'S CERTIFICATION: I hereby proper condition for transport. The materials des inted/Typed Name Deniab P CampBall Transporter 1 Acknowledgement of Receipt of Inted/Typed Name Manual Company Transporter 2 Acknowledgement of Receipt of Inted/Typed Name Discrepancy Indication Space	d. formation <b>e # 877 319-0800</b> certify that the contents of this shipmer scribed on this manifest are not subject Signature Materials Materials	t to federa	I hazardo	b. arately de us waste	e regulations.	d.	7278 $Mo. Day Ye$ $ 6 4  2 4 1$ $Mo. Day Ye$ $0 4  2 4 1$



### Clean Water of New York, Inc. 3249 Richmond Terrace Staten Island, NY 10303

Phone: 718-981-4600 Fax: 718-981-5213



Job Number JOB0123262	Date 4/25/13	<u>Time</u> 8:15 am	Job Type Truck Job
····	Generator		Transporter
NATIONAL GRID 222-254 Maspeth Avenue Brooklyn, NY 11211 (000) 000-0000 EPA Permit #	;	WILLIAM J. LAU 3249 Richmond T Staten Island, NY EPA Permit #:	errace
	Customer	NYS DEC Permit #:	
ENVIRO TRAC LTD 5 Old Dock Road		Transport / Vessel:	VAC # 53
Yaphank, NY 11980		# of Tanks:	1
PO #: 7278	Job #	Total Capacity:	6,300
Profile Sheet: Yes	Approval Code: 1022-002	U of M:	Gallons

Site / Vessel Name: NATIONAL GRID - EQUITY MPG SITE

Received 3,569 Gall	ons Of Oily Wa	ter For Proper	Treatment and	Disposal.		
Products &	Category	Code	I	Description	Quantity	UoM
Test Results	D	N018		Oily Water	3,569	Gallons
Compartment	% Water	% Oil	% Solid	Halogens (ppm)	Flash Po	int (oF)
1	<b>9</b> 9.00	1.00	0.00	0	>= 100	)
Other Tests Peformed	i: No					

Receiver's Signature and Date 4/25/2013 8:13 am

Did this load or any portion of this load orginate at a utility? Yes

Generator's Representative Signature and Date

## NON-HAZARDOUS WASTE MANIFEST

1.1

NON-HAZARDOUS		hifest Doc.		00		2. Page 1 of
WASTE MANIFEST NYR	000184184	12	30	62		1
Nation One M Brookly	etrotech Center yn, NY 11201	A		onal Grid Fo 254 Mas	speth A	ve
	6. US EPA ID Number	В.	State Tr	ansporter's ID	2A	-531
William J. Lauer Corp. Transporter 2 (Company Name)	N Y R 0 0 0 1 5 7 6 8. US EPA ID Number	100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100 C 100			( 718	) 981-8500
	-	E.	Transpo	rter 2 Telephone	(	)
Clean Water Of New York, Inc. 3249 Richmond Terrace	10. US EPA ID Number	F.	State Fa	acility ID		81-4600
			ntainers	13. Total	14. Unit	1
	,*	Number	Туре	Quantity	Wt / Vol	H. Waste No.
NON RCRA NON DOT REGULAT	ED LIQUIDS	001	Т	3,569	Gal	EPA STATE N018
						EPA
4						STATE
						EPA
						STATE
		-				EPA
						STATE
	d.		b.		d.	
6. GENERATOR'S CERTIFICATION: I hereby certify	that the contents of this shipment are full d on this manifest are not subject to feder				n all respec	
	Signature	10	201	0	0	Mo. Day Y
Transporter 1 Acknowledgement of Receipt of Mater	Goduli P (	Carfa	ebel	l		04251
	ials AS Signature Lulin	Carfa Du Un	2bil Vle	gal		04251
Transporter 1 Acknowledgement of Receipt of Mater inted/Typed Name	ials AS Signature Lulin	Carfa DIN	2bit	l		04251
Transporter 1 Acknowledgement of Receipt of Mater inted/Typed Name ABA ADA ADA ADA ADA ADA ADA ADA ADA ADA	ials ials ials Signature Signature	fest elcer	bel bel ot as note	ed in IJem 19.		04251 Mo. Day Y 04251
5	Additional Description for Materials listed Above 1022-001 - Development Water 3. Special Handling Instructions and Additional Informa 24 Hour Emergency Telephone # 3 3. GENERATOR'S CERTIFICATION: 1 hereby certify	3. Generator's Name and Mailing Address       National Grid NY One Metrotech Center Brooklyn, NY 11201         4. Generator's Telephone Number (718) 963-5453       6. US EPA ID Number         9. Villiam J. Lauer Corp.       N Y R 0 0 0 1 5 7 6         9. Transporter 2 (Company Name)       6. US EPA ID Number         9. Designated Facility Name and Site Address       N Y R 0 0 0 0 9 6 8 5         10. US EPA ID Number       10. US EPA ID Number         9. Designated Facility Name and Site Address       N Y 0 0 0 0 9 6 8 5         11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number       N Y 0 0 0 0 9 6 8 5         11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number       NON RCRA NON DOT REGULATED LIQUIDS         Additional Description for Materials listed Above 1022-001 - Development Water       c.         d.       5. Special Handling Instructions and Additional Information 24 Hour Emergency Telephone # 877 319-0800         3. GENERATOR'S CERTIFICATION: Thereby certify that the contents of this shipment are fully	A Generator's Name and Mailing Address National Grid NY One Metrotech Center Brooklyn, NY 11201 Generator's Telephone Number (718)963-5453 Transporter 1 (Company Name) G. US EPA ID Number William J. Lauer Corp. N Y R 0 0 0 1 5 7 6 4 4 C Transporter 2 (Company Name) B. Designated Facility Name and Site Address Clean Water Of New York, Inc. 3249 Richmond Terrace Staten Island, NY 10303 N Y 0 0 0 0 9 6 8 5 4 5 US EPA ID Number I. Description (Including Proper Shipping Name, Hazard Class and ID Number NON RCRA NON DOT REGULATED LIQUIDS COI Additional Description for Materials listed Above 1022-001 - Development Water C G. G. Special Handling Instructions and Additional Information 24 Hour Emergency Telephone # 877 319-0800	3. Generator's Name and Mailing Address       National Grid NY One Metrotech Center Brooklyn, NY 11201       A. ' National Grid NY One Metrotech Center Brooklyn, NY 11201         4. Generator's Telephone Number (       718 ) 963-5453       B. State Tr         5. Transporter 1 (Company Name)       6. US EPA ID Number       B. State Tr         Villiam J. Lauer Corp.       N Y R 0 0 0 1 5 7 6 4 4       C. Transporter 2 (Company Name)         9. Designated Facility Name and Site Address       10. US EPA ID Number       E. Transporter 2 (Company Name)         10. US EPA ID Number       F. State Tr         11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number       G. Facility         11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number       Type         NON RCRA NON DOT REGULATED LIQUIDS       Vol 1       T         10. U22-001 - Development Water       a.       b.         10. U22-001 - Development Water       c.       a.         10. U22-001 - Development Water       c.       a.         10. U22-001 - Development Water       c.       a.         10. U24 Hour Emergency Telephone # 877 319-0800       b.	a. Generator's Name and Mailing Address       National Grid NY       A. * National Grid NY         One Metrotech Center       Brooklyn, NY 11201       A. * National Grid Fo         B. Generator's Telephone Number (       718 ) 963-5453       B. State Transporter's ID         William J. Lauer Corp.       N Y R 0 0 0 1 5 7 6 4 4       C. Transporter 1 (Company Name)         Designated Facility Name and Site Address       10. US EPA ID Number       C. Transporter 2 Telephone         Designated Facility Name and Site Address       10. US EPA ID Number       C. Transporter 2 Telephone (         Clean Water Of New York, Inc.       3249 Richmond Terrace       N Y 0 0 0 0 9 6 8 5 4 5         1. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number       12. Containers       13. Total         NON RCRA NON DOT REGULATED LIQUIDS       Col T       3 / 56 9         Additional Description for Materials listed Above       J. Handling Codes for Wi         1022-001 - Development Water       c.       a.         d.       d.       b.         24 Hour Emergency Telephone # 877 319-0800       24 Hour Emergency Telephone # 877 319-0800	A Generator's Name and Mailing Address National Grid NY One Metrotech Center Brooklyn, NY 11201 B Generator's Tolephone Number (718) 963-5453 Transporter 1 (Company Name) Uilliam J. Lauer Corp. Designated Facility Name and Site Address Clean Water Of New York, Inc. 3249 Richmond Terrace Staten Island, NY 10303 N Y 0 0 0 0 9 6 8 5 4 5 1. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number NON RCRA NON DOT REGULATED LIQUIDS Ot 1 Containers Development Water C. C. C. C. C. C. C. C. C. C. C. C. C.

Bayellons Rocycl 75; Crows Fills		Facility ID:	132397	
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Customer & ENVI	RO TRAC/BRC0850	Grose:	69120 15 In	Scale 2
400. SUD	Corporate Court E e	Taret	29700 15 Out 39420 15	
50U Truck : 2474	h olainfield, nj 07080- DPC	CUYDs: 25		
Carrier: AJC	สารแหน่ง เมาะ		ruck Type: TRI	AXLE
Comment: Comment: Origin	Materials & Services	Guantity Unit		
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Brooklyn	GARNAGE -	19.71 Tons		
	CORRECT AND NON JAZARDOUS TO	THE BEST OF MY KI	IOWLEDGE	
THE ABOVE IS				
THE ABOVE 19		Weighmaster: M.		

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aysborə Recyclin 5 Crows Mill Rd 0 Box 290 easbey, NJ 0883(		Date	0: 132397 5: 223330 5: 4/16/2013 3: 09:18:11 -	09:50:04 Scale
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Carmlens AJC Ti Ecomments	RUCKING INC		Truck Type: T	RIAXLE
irajiin Jeooklyn	Materials & Services MIXED-BRICK, BLOCK, CONC GARDAGE	Quantity Unit RT 22.54 Tons 28.54 Tons	anna bian 'n a ann ai alle mba père bler file "lie franzisian dans anna t	
irook1yn			1	

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Time: 13:18:51 - 13:38:38Customer: ENVIRO TRAC/BRC0050Scal400 CORPORATE COURTGross: 77340 lb In Scale90116 ESUITE ESUITE ENot: 50020 lbSUUTH PLAINFIELD, NJ 07080-CUYDs: 25Truck: 25510PCCUYDs: 25Carrier: AJC TRUCKING INCComment:OriginMaterials & Service:OriginMaterials & Service:	ale le 1	Scale 0 16 In Scale				
Canciery AJC TRUCKING INC Comment:		0 16 nac: 2551000	27320 1b C 50020 1b License: 2	lare: Net: CUYDa: 25	20RPORATE COURT LE 1 PLAINFIELD, NJ 07080-	- 400 C Sultre Sultre
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Bayetiore Recyclin	g Corp.	Factlity ID	1	
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PD BOX 290 Keasbey, NJ 08036		Date	4/16/2013	
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Customer: ENVIR	) TRACZDRC0850 RPORATE COURT	Tare	# 27500 15 Out Sc	ale 4
SUITE		Net	: 51440 lb	
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Carrier AJC T	RUCKING INC			
. Comments		nasses the limit		
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Brooklyn	MIXED-BRICK, BLOCK, CONC	RET 25.72 Tons		
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Driver:	and and the production of the			
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Bayshore Recycling Corp. 75 Crows Mill Rd	Facility ID: 132397	
PO Box 290 Keasbey, NJ 08832 Customer: ENVIRO TRAC/BRC0850 400 CORPORATE COURT SUITE E SOUTH PLAINFIELD, NJ 07080- Truck: 18489PC Carrier: AJC TRUCKING INC Commercies Origin Naterials & Services	Ticket: 223540 Date: 4/16/2013 Time: 13:13:49 - 13:16:1 Sca Gross: 81860 15 In Sca Tare: 27500 15 P.T. Net: 54360 15 CUYDs: 25 License: 18489PC Truck Type: TRIAXLE	ile le 1
Brooklyn CONCRETE TRIAXLE Brooklyn BIG PIECES OVER 2' Brooklyn GARBAGE THE ABOVE IS CORRECT AND NON-HAZARDOUS TO Driver:	27.18 Tons 27.18 Tons 27.18 Tons 27.18 Tons D THE BEST OF MY KNOWLEDGE Weighmaster: Alec	

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					COMPANIES				Page 1 of 2 5/2/2013
125 F TRANS			Transactions f	rom 04/16/2013 t Inbound Tickets ty and Intercomp Disposal Onl	any Customers y	3		U	11:44AM ser ID: SUSAN
Material	Manifest	Truck	In / Out	Gross	Tare	Net	Bill Units	Tons	
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27CT	55061	AN786K	I						
27CT	55062	AN809P	Ι	84200					
27CT	55060	AP191K	I	87120	29800				
ansactions								144.84	
27CT	E0134255	AN809P	I	84180	27240	56940	<u> </u>	29.47	
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27CT	E0134259	AN732R	Ι						
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	Material RCO ENVIR ATIONAL GI 27CT	Material         Manifest           RCO ENVIRONMENTAL           ATIONAL GRID FORMER IN           27CT         55058           27CT         55061           27CT         55062           27CT         55060           27CT         55060           27CT         55060           27CT         55060           27CT         5000           ansactions         27CT           27CT         E0134255           27CT         E0134256           27CT         E0134257           27CT         E0134259           insactions         27CT           27CT         E0134259           ansactions         27CT	Material         Manifest         Truck           RCO ENVIRONMENTAL           TIONAL GRID FORMER MGP SITE           27CT         55058         AN828W           27CT         55059         AN381W           27CT         55061         AN786K           27CT         55062         AN809P           27CT         55060         AP191K           Insactions           27CT         E0134255         AN809P           27CT         E0134256         AN732R           27CT         E0134257         AP414M           27CT         E0134261         AN700H           AN732R	IKANS         Third Par           Material         Manifest         Truck         In / Out           RCO ENVIRONMENTAL         TIONAL GRID FORMER MGP SITE         I           27CT         55058         AN828W         I           27CT         55059         AN381W         I           27CT         55061         AN786K         I           27CT         55062         AN809P         I           27CT         55060         AP191K         I           unsactions         I         I         I           27CT         E0134255         AN809P         I           27CT         E0134254         AP414M         I           27CT         E0134256         AN732R         I           27CT         E0134257         AP414M         I           27CT         E0134257         AP414M         I           27CT         E0134259         AN732R         I           msactions         I         I         I           27CT         E0134261         AN700H         I           27CT         E0134262         AP414M         I           27CT         E0134263         AN809P         I      <	TRANS       Third Party and Intercomp       Disposal Onl         Material       Manifest       Truck       In / Out       Gross         RCO ENVIRONMENTAL       TIONAL GRID FORMER MGP SITE       I       89940         27CT       55058       AN828W       I       89940         27CT       55059       AN381W       I       83580         27CT       55061       AN786K       I       91320         27CT       55062       AN809P       I       84200         27CT       55060       AP191K       I       87120         ansactions       27CT       E0134255       AN809P       I       84180         27CT       E0134254       AP414M       I       86840         27CT       E0134255       AN809P       I       87000         27CT       E0134257       AP414M       I       92920         27CT       E0134257       AP414M       I       90120         msactions       I       75040       27CT       E0134261       AN700H       I       75040         27CT       E0134261       AN700H       I       75040       27CT       E0134262       AP414M       I       86440      <	TKANS       Third Party and Intercompany Customers Disposal Only Full Details         Material       Manifest       Truck       In / Out       Gross       Tare         Reconverse of the system of the sys	TRANS       Third Party and Intercompany Customers Disposal Only Full Details         Material       Manifest       Truck       In / Out       Gross       Tare       Net         RCO ENVIRONMENTAL       VIIONAL GRID FORMER MGP SITE       State       State       State       Net         27CT       55058       AN828W       I       89940       29440       60500         27CT       55059       AN381W       I       83580       29500       54080         27CT       55061       AN786K       I       91320       30500       60820         27CT       55062       AN809P       I       84200       27240       56960         27CT       55060       AP191K       I       87120       29800       57320         mmactions       T       E0134255       AN809P       I       84180       27240       56940         27CT       E0134254       AP414M       I       86840       28480       58360         27CT       E0134255       AN809P       I       84180       27240       56940         27CT       E0134254       AP414M       I       86840       28480       58360         27CT       E0134254       AP414M </td <td>Third Party and Intercompany Customers Disposal Only Full Details         Material       Manifest       Truck       In / Out       Gross       Tare       Net       Bill Units         RCO ENVIRONMENTAL         TTOT 55058       AN82.8W       I       89940       29440       60500       30.25       TN         27CT       55058       AN82.8W       I       89940       29440       60500       30.25       TN         27CT       55059       AN381W       I       89940       29440       60500       30.25       TN         27CT       55061       AN786K       I       91320       30500       60820       30.41       TN         27CT       55062       AN809P       I       84200       27240       56960       28.47       TN         27CT       5060       AP191K       I       87120       29800       57320       28.66       TN         27CT       E0134255       AN809P       I       84180       27240       56940       28.47       TN         27CT       E0134254       AP414M       I       86840       28480       58360       29.18       TN         27CT       E0134256&lt;</td> <td>TKANS     Third Party and Intercompany Customers Disposal Only Full Details       Material     Manifest     Truck     In / Out     Gross     Tare     Net     Bill Units     Tons       RCO ENVIRONMENTAL     Truck     In / Out     Gross     Tare     Net     Bill Units     Tons       RCO ENVIRONMENTAL     Truck     In / Out     Gross     Tare     Net     Bill Units     Tons       27CT     55058     AN828W     I     89940     29440     60500     30.25     TN     30.25       27CT     55059     AN381W     I     83580     29500     54080     27.04     TN     27.04       27CT     55061     AN786K     I     91320     30500     60820     30.41     TN     30.41       27CT     55060     AP191K     I     87120     27240     56960     28.48     TN     28.66       27CT     E0134254     AP414M     I     86840     28480     58360     29.18     TN     29.18       27CT     E0134255     AN809P     I     84180     27240     56940     28.47     TN     28.66       27CT     E0134254     AP414M     I     86840     28480     58360     29.18     TN</td>	Third Party and Intercompany Customers Disposal Only Full Details         Material       Manifest       Truck       In / Out       Gross       Tare       Net       Bill Units         RCO ENVIRONMENTAL         TTOT 55058       AN82.8W       I       89940       29440       60500       30.25       TN         27CT       55058       AN82.8W       I       89940       29440       60500       30.25       TN         27CT       55059       AN381W       I       89940       29440       60500       30.25       TN         27CT       55061       AN786K       I       91320       30500       60820       30.41       TN         27CT       55062       AN809P       I       84200       27240       56960       28.47       TN         27CT       5060       AP191K       I       87120       29800       57320       28.66       TN         27CT       E0134255       AN809P       I       84180       27240       56940       28.47       TN         27CT       E0134254       AP414M       I       86840       28480       58360       29.18       TN         27CT       E0134256<	TKANS     Third Party and Intercompany Customers Disposal Only Full Details       Material     Manifest     Truck     In / Out     Gross     Tare     Net     Bill Units     Tons       RCO ENVIRONMENTAL     Truck     In / Out     Gross     Tare     Net     Bill Units     Tons       RCO ENVIRONMENTAL     Truck     In / Out     Gross     Tare     Net     Bill Units     Tons       27CT     55058     AN828W     I     89940     29440     60500     30.25     TN     30.25       27CT     55059     AN381W     I     83580     29500     54080     27.04     TN     27.04       27CT     55061     AN786K     I     91320     30500     60820     30.41     TN     30.41       27CT     55060     AP191K     I     87120     27240     56960     28.48     TN     28.66       27CT     E0134254     AP414M     I     86840     28480     58360     29.18     TN     29.18       27CT     E0134255     AN809P     I     84180     27240     56940     28.47     TN     28.66       27CT     E0134254     AP414M     I     86840     28480     58360     29.18     TN

sRpCstPrfDay.: Customer: BSN Profile: 2713-2 Exclude Materi Site ID: All	10125 84			Custom Transactions f	<u>er/Profile/I</u>	any Customers	13			Page 2 of 2 5/2/2013 11:44AM User ID: SUSAN
Ticket	Material	Manifest	Truck	In / Out	Gross	Tare	Net	Bill Units	Tons	
04/29/2013 5 tickets and 5 05/02/2013 231490 05/02/2013 1 ticket and 1 t	transactions 27CT ransaction	RID FORMER N E0134260	16429PC	Ι	64980	36040	28940	 14.47 TN	131.93 14.47 14.47	
2713-264 - F 17 tickets and 17 BSM0125 - A 17 tickets and 17 tro Report Gra 17 tickets and 1	transactions ARCO ENVIR Insactions nd Totals	RID FORMER M	1GP SITE						471.19 471.19 471.19 471.19 E	nd of Report

NON-HAZARDOUS	1. Generator's US EPA ID No.					
MANIFEST	NONE.	Manifest Doc. N	o. 2. Page 1	-		
3. Generator's Name and Mailing Address	- NG /	55061	of			
11201	NY/	The Etg of	5	Service 1		
		アオリアム さって 1941	1			
5. Transporter 1 Company Name	2	1				
AARCO ENVIRONMENTAL SERV	6. US EP	A ID Number	1	64)		
7. Transporter 2 Company Name	ICES CORP. N.Y.R. 0.0.	D. 1. 0. 7. 3. 2. (	A. Transporter	s Phone		
DI TRUCHING.	8. US EP	A ID Number			Concentration of the last	
9 Designated Facility Name and Site Address		<u></u>	B. Transporter's	s Phone	1, 141	
13 14 For 46 19 19	10. US EP4	ID Number	C. Facility's Pho	0.00	20	
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11. Waste Shipping Name and Description	<u> </u>					
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d.						
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D. Additional Descriptions for Materials Listed Above						1
		E	Handling Codes	for Waster	s Listed Above	
5. Special Handling Instructions and Additional Informa EMERGENCY PHONE # 631-586-590	tion IO	E	Handling Codes	for Waster	s Listed Above	
5. Special Handling Instructions and Additional Informa EMERGENCY PHONE # 631-586-590	tion O	E	Handling Codes	for Waste	s Listed Above	1
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5. Special Handling Instructions and Additional Informa EMERGENCY PHONE # 631-586-590	tion O	E	Handling Codes	for Waste	s Listed Above	
EMERGENCY PHONE # 631-586-590	0					 
EMERGENCY PHONE # 631-586-590	0					
EMERGENCY PHONE # 631-586-590	0					
GENERATOR'S CERTIFICATION:   certify the materials of Printed/Typed Name	described above on this manifest are not subject Signature			el of Hazardi	ous Waste.	
GENERATOR'S CERTIFICATION: I certify the materials of Printed/Typed Name	described above on this manifest are not subject Signature			el of Hazardi		Ye
GENERATOR'S CERTIFICATION: I certify the materials of Printed/Typed Name	described above on this mapifiest are not subject Signature			el of Hazardi	ous Waste.	
GENERATOR'S CERTIFICATION: I certify the materials of Printed/Typed Name CAMP Company Transporter 1 Acknowledgment of Receipt of Materials Printed/Typed Name	described above on this mapifiest are hot subject Signature Signature Signature			I of Hazard	ous Waste. Month Day	Ye
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ESM 2713-264      If. GENERATOR'S/OFFEROR'S CERTIFICATION: I hareby declare that the contents of the consignment are fully and accurately described above by the proper shipping name, and are classified, peokage Generator's/Offeror's declared, and in an in participates in proper condition for transport according to applicable international and national governments regulations.  Generator's/Offeror's declared and intervals in proper condition for transport according to applicable international and national governments regulations.  Generator's/Offeror's declared and intervals in proper condition for transport according to applicable international and national governments regulations.  Generator's/Offeror's declared and intervals in proper condition for transport according to applicable international and national governments regulations.  Generator's/Offeror's declared according to the declared accurately declared accurate declared accurate declared accurate declared accurate declared accu		4.								-		
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18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a	18. I	Designated Facility Owner or Ope	rator: Certification of receipt of materials covered	d by the manifest except as n	oted in Item 17a							
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Annual Cold Street

	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 3.	Emergency Resp	oonse Phone	4. Waste	Tracking Nu	E0134254
	5. Generator's Name and Mai	Inn Address	<u> </u>					- EU134254
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	Facility's Phone:	MEAGEEY, NJ 0683.	An and a second se					
	9. Waste Shipping Name	and Description		10. C	ontainers	11. Total	12. Unit	
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	14. GENERATOR'S/OFFEROR'S	CERTIFICATION: I hereby declare that	the contents of this consignment are fully ion for transport according to applicable in	and accurately d	escribed above t	v the proper shi	ning name	and are classified, peekaged
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A NON-HAZARDOUS 1. Generator ID Number WASTE MANIFEST 2713-284	2. Page	a 1 of 3. Emergency Res	ponse Phone	4. Waste	Tracking N	lumber	
5. Generator's Name and Mailing Address	22.203 PC	Generator's Site Ad	dress (if differen	nt than mailing ad	Idress)	E013	14258
ONE METROTECH GENTER Generator's Phone: BEDOKLYN, NY 11211 6. Transporter 1 Company Name 5453		222-254 MARPI BROOKLYI	BTH AVER				
7. Transporter 2 Company Name	name alle publication of an ambater protocology			U.S. EPA I	D Number	20	
8. Designated Facility Name and Site Address	2036646			U.S. EPA II	D Number	a.3	
BAYSHOPE SOM	Red Red			U.S. EPA I	O Number		
9. Waste Shipping Name and Description	2015		ontainers	11. Total	12. Unit		
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		7. Transporter 2 Company Nam	* *				U.S. EPA ID Number					
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			Bryshore Soll M 75 Groves Mill RC						$ \begin{array}{c} & \left( \begin{array}{c} 1 \\ 0 \end{array} \right) & \left( \begin{array}{c} 1 \end{array} \right) & \left( \begin{array}{c} 1 \\ 0 \end{array} \right) & \left( \begin{array}{c} 1 \end{array} \right) & \left( \begin{array}{c} 1 \end{array} \right) & \left( \begin{array}{c} 1 \end{array} \right) & \left( \begin{array}{c} 1 \end{array} \right) \\ \\ \\ \end{array} \\ \end{array} \right) \\ = \left( \begin{array}{c} 1 \end{array} \right) & \left( \begin{array}{c} 1 \end{array} \right) & \left( \begin{array}{c} 1 \end{array} \right) \\ \\ \end{array} \\ \end{array} \\ \end{array} $ \\ \end{array}  \\ \end{array}  \\ \end{array}  \\ \end{array}  \\ \end{array}  \\ \end{array}  \\ \end{array}  \\ \end{array}  \\ \end{array}  \\ \end{array}  \\ \end{array}  \\ \end{array}  \\ \end{array}  \\ \end{array}  \\ \end{array}  \\ \\ \end{array}  \\ \end{array}  \\ \\ \end{array}  \\ \end{array}  \\ \\ \end{array}  \\ \\ \end{array}  \\ \\ \end{array}  \\ \\ \end{array}  \\ \\ \end{array}  \\ \\ \end{array}  \\ \\ \end{array}  \\ \\ \end{array}  \\ \\ \end{array}  \\ \\ \end{array}  \\ \\ \end{array}  \\ \\ \end{array}  \\ \\ \end{array}  \\ \\ \end{array}  \\			
		Facility's Phone:	KEASBEY, N. 1683									
	f											
				No.	Type	11. Total Quantity	12. Unit Wt./Vol.					
Ë		MOR COAL TAB	CONTAMINATED SOL				a balu	T-Malana				
GENERATOR		NOT DOT NOT	RCR4		5 8	DT		-	1			
GEN		2.			8	1						
11		3.										
H	-	4.										
H												
	13. Special Handling Instructions and Additional Information											
								670				
			141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 141 - 14	5268								
11												
	14	4. 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 accurately in an and are classified, packaged,										
		marked and labeled/placarded		at the contents of this consignment are ful lition for transport according to applicable	ly and accurately des International and nat	scribed above	by the proper sh ental regulations	ipping name,	and are classified, packaged	d,		
↓	GE 1		PMPB		Signature				Month Day Y			
INT'L	15	International Shipments	to the second se	Export from U.S. Port of entry/exit:				it i li li li li li li li li li li li li l				
_	Transporter Signature (for exports only):				Export from U.S. Port of entry/exit:							
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Month Day Your											
SPO	_		1		• • • • • • • • • • • • •	1.11#1.1 (15);44 (1);	a in the symphotic states	فعيما فالتنبي ال	Month Day	Year		
IBAN	Tra	nsporter 2 Printed/Typed Name		Signatur	9				Month Day	Year		
	17.	Discrepancy	M. J. Charles L. Sarah		Japan Strate Statistica	andre a		-	11 23 :	-		
ŢΓ	17a	. Discrepancy Indication Space	Quantity	Туре								
							Partial Reje	ection	L Full Rejection			
≿İ	17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number							lumber				
							U.J. EFA IU N	ulliu81				
2 0	Facility's Phone: 17c. Signature of Alternate Facility (or Generator)											
DESIGNATED FACILITY									Month Day Y	Year		
ESIG						1.1						
	18. Designated Facility Owner or Operator. Certification of receipt of materials covered by the manifest except as noted in Item 17a											
Įþ	rint	ed/Typed Name			Signature				Month Day Y	'ear		
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### 169-BLC-O 5 11977 (Rev. 9/09)

Manager and Am

Cenerator's Phone:		1 1811	11 1000	D Number D Number D Number D Number	
	1 10. No. () () ()	Containers Type	U.S. EPA I U.S. EPA I U.S. EPA I U.S. EPA I U.S. EPA I	D Number D Number	
	10. No.	Туре	U.S. EPA II	D Number	
	No.	Туре	U.S. EPA II	D Number	
EA - EHORE SOL, MARGEMENT LL, 75 GROWS MILL ROAD         Facility's Phone:         722732-5000         9. Waste Shipping Name and Description         1.         MCP COAL, TAP CONTINUE/ATED SOL         NDT DOT ROPA         2.         3.         4.         13. Special Handling Instructions and Additional Information         14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment marked and labeled/placarded, and are in all respects in proper condition for transport according to app Generator's/Offeror's Printed/Typed Name         Generator's/Offeror's Printed/Typed Name         WMMD       CAMPBELL         15. International Shipments	No.	Туре	11. Total Quantity	12. Unit	
	No.	Туре	Quantity		
1.       MGF DUAL TAP CONTINUMENTED SOL         2.       3.         3.       4.         13. Special Handling Instructions and Additional Information       Solutions         14.       Solutions         15. International Shipments       Import to U.S.	<1 <u>6</u> , 1		Quantity		
		DT			
13. Special Handling Instructions and Additional Information 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment marked and labeled/placarded, and are in all respects in proper condition for transport according to app Generator's/Offeror's Printed/Typed Name Generator's/Offeror's Printed/Typed Name Substance </td <td></td> <td></td> <td></td> <td></td> <td></td>					
13. Special Handling Instructions and Additional Information  14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment marked and labeled/placarded, and are in all respects in proper condition for transport according to app Generator's/Offeror's Printed/Typed Name Generator's/Offeror's Printed/Typed Name S  15. International Shipments Import to U.S.  Event for			1		
14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment marked and labeled/placarded, and are in all respects in proper condition for transport according to app Generator's/Offeror's Printed/Typed Name         Generator's/Offeror's Printed/Typed Name       S         John D       CAMPRELL         15. International Shipments       Import to U.S.			·	II	
15. International Shipments Import to U.S.		described abor national govern	ve by the proper shi mental regulations.	ipping name,	and are classified, packa
15. International Shipments	ignature ,	111	00	2 A A	Month Day
	U.S. Port o	f entry/exit:		2-17-6	1 61 12
16. Transporter Acknowledgment of Receipt of Materials	Date	eaving U.S.:			
Transporter 1 Printed/Typed Name	gnature				Month Day
Transporter 2 Printed/Typed Name	gnature	al.	n ganadigan Tanang pantan adalapat na	ب ود برای سریانی است استولیس <sup>ر</sup> ا	- and the state of
TO COS TRANSFORM	ginaalo	рдан и			Month Day
7a. Discrepancy Indication Space	Residue		Partial Reje	ction	
7b. Alternate Facility (or Generator)	Manifest Referenc	e Number:	U.S. EPA ID N	umbor	
acility's Phone:					
C. Signature of Alternate Facility (or Generator)			1		Month Day
. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest excep	as noted in Item 17-		_		
inted/Typed Name Sig	as noted in item 1/a				Month Day

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	WASTE MANIFEST	5 -	US EPA ID No.	Manifest D	oc No.			2 Page
	3 Generator's Name and Mailing Address		000184184	1 12	30	61		
4		One M		5.	<sup>A</sup> Natio	254 M	ormer E aspeth yn, NY	quity MGP ( Ave 11211
			6 US EPA ID Number	**************************************	B. State T	ransporter's ID	2	A-531
7	William J. Lauer Corp. Transporter 2 (Company Name)		N Y R 0 0 0 1 5 8. US EPA ID Number		C Transp D. State T	orter 1 Telephor ransporter's ID		8 ) 981-850
9	Designated Facility Name and Site Addre Clean Water Of New York, 3249 Richmond Terrace	Inc.	10. US EPA ID Number		F. State F	orter 2 Telephon acility ID Telephone (		)
11	Staten Island, NY 10303		NY0000968	3545	G. F dointy	relephone (	/10 ) 8	901-4000
a.	NON RCRA NON DOT REC				ontainers er Type	13. Total Quantity	14. Un Wt / Vo	H. Waste
5 b.		OULATE		061	-	5904	Gal	EPA STATE N
b. C								EPA STATE EPA
d.						K		STATE
								CPA
	dditional Description for Materials listed Ab	oove			I Hand	ling Codes (- 14		STATE
	dditional Description for Materials listed Ab 1022-001 - Development Water	Dove				ling Codes for W		STATE
1. A	dditional Description for Materials listed At 1022-001 - Development Water	c			J. Hand a.	ling Codes for W	/astes Liste	STATE
Г. А а. b.	1022-001 - Development Water Special Handling Instructions and Addition	d al Information		2)		ling Codes for W		STATE
I. A a. 15.	1022-001 - Development Water	d al Information one # 87	7 319-0800	fully and accu deral hazardo	a. b.		c d	STATE ad Above
I. A a. b. 15	1022-001 - Development Water Special Handling Instructions and Additiona 24 Hour Emergency Telepho XGC 555 SENERATOR'S CERTIFICATION: Line	d al Information one # 87	7 319-0800	fully and accu deral hazardo	a. b.		c d	STATE Above P.O. # 7278 ts
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NON-ITALANDOUS	Generator's US EPA ID No.	Manifest Do			2. F	Page 1 of
	TRUUUT8-4-18-	4 12	23062	-		1
3. Generator's Name and Mailing Address	National Grid NY One Metrotech Center Brooklyn, NY 11201		<sup>A</sup> National Gr 2! B	id Former 54 Masper rooklyn, N	th Ave	GP Site
4. Generator's Telephone Number ( 718 5. Transporter 1 (Company Name)	8 ) 963-5453 6. US EPA ID Number		B. State Transporte		2A-531	1.10.00
William J. Lauer Corp. 7. Transporter 2 (Company Name)	N Y R 0 0 0 1 5 8. US EPA ID Number		C. Transporter 1 Te D. State Transporte	elephone (	718 ) 981	-8500
9. Designated Facility Name and Site Addres	ss 10. US EPA ID Number		E. Transporter 2 Te	elephone (	)	
Clean Water Of New York, 3249 Richmond Terrace Staten Island, NY 10303	Inc.	8545	F State Facility ID G Facility Telephor	ne ( 718	) 981-460	0
11. US DOT Description (Including Proper SI	hipping Name, Hazard Class and ID Number		ontainers 13.	Total 14	Unit	
		Numb	1			Naste No
a. NON RCRA NON DOT REC	GULATED LIQUIDS			grag.	EPA	N01
b.					STATE	
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	1				STATE	
	bove		J. Handling Cod	es for Wastes	Listed Above	
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1022-001 - Development Water a.	С.		a.	es for Wastes c.	Listed Above	
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<ul> <li>1022-001 - Development Water</li> <li>a.</li> <li>b.</li> <li>15. Special Handling Instructions and Addition</li> <li>24 Hour Emergency Telepho</li> <li>16. GENERATOR'S CERTIFICATION: Lher</li> </ul>	c. d. nal Information one # 877 319-0800	N.	a. b.	c. d.	P. 7	O. # 278
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**GENERATOR'S COPY** 

	WASTE MANIFEST	271 3-284			3. Emergency Resp	onse Phone	4. Was	te Tracking	Number	
	5. Generator's Name and Mail	Ing Address	2017	1	Generator's Site Add	drase (if differen	and there is a		EQ:	1.34
	ONE 6	METROTECH GENTER	2. 4012	4-77.200	100 A 2 100 100 10	12000		address)		
	FRAA	A CALL AND A CALL AND A CALL AND A CALL		223	CHIMM MESPE	TH				
	Generator's Phone: 6. Transporter 1 Company Nar	PRIM. PR. Land			BROOKLYN	4. NY 112	11			
		1	·		1111		U.S. EPA	ID Number		
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	Nickelanla	S DT DO	5/16-18				U.S. EPA	ID Number		1
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11		유가 당시하는 것	OR MAGAGEMENT	Ste			U.S. EPA	ID Number	225 7 7522	
	Facility of	75 CROWS MIL	LL ROND					147.7	Antika (S. 1. Margel	
11	Facility's Phone:	KEASEEY, N.	22722	3			1			
11	9. Waste Shipping Name	and Description			10. Cor	ntainers	11. Total	12. Unit	1	-
1	1.				No.	Туре	Quantity	Wt./Vol.		
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14	GENEDATOD'S OFFEDDENA	1036).		consignment are fully	r and accurately desc ternational and natio	cribed above b	y the proper ship	pping name, a	and are classifie	d, package
14. Ger	GENERATOR'S/OFFEROR'S of marked and labeled/placarded, in the state of	CERTIFICATION: I hereby decla and are in all respects in proper Name	are that the contents of this condition for transport acco	consignment are fully ording to applicable in Signature		cribed above b	y the proper ship nta, regulations.	pping name, a		-
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H	14	. GENERATOR'S/OFFEROR'S marked and labeled/placarded	CERTIFICATION: I hereby decl	are that the contents of this con	nsignment are f	ully and accurately de	scribed above	by the proper shi	nning name :		
H.	G	enerator's/Offeror's Printed/Type	and are in all respects in proper	r condition for transport accord			tional governme	ental regulations.	pping name, i	ind are classilled, p	Ackaged,
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÷!	176	Alternate Facility (or Generator	· · · · · · · · · · · · · · · · · · ·			Manifest Reference N	lumber:				-
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	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2.	Page 1 of	3. Emergency Respor	nse Phone	4. Waste	Tracking Nu	E01342	¢e
	5. Generator's Name and Mail	Ing Address NY 422-20	12 0	00	Generator's Site Addre	ess (if different	than mailing add	ress)	EUL042	00
	LAUG D DINE A	HELGED NY 422-20	- En	7-2013	NATIONAL G	肥肉		,		
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	Generator's Phone: 5. Transporter 1 Company Nár	and the second			ROOK M,	1 1 1 1 2 2 4				
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8	. Designated Facility Name an				and the second		U.S. EPA ID	Number		
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	acility's Phone:	1 E/ 18E , Q 08532 3-5000			10. Con	teinem		<del></del>		
	9. Waste Shipping Name	and Description			No.	Type	11. Total Quantity	12. Unit Wt./Vol.		
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GENERATOR	MICH COPLIES	Y CONTRAMON F D S. 1			111	11		inan'		
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	3.									
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13	. Special Handling Instructions	and Additional Information								
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	•	6844 QP 3-26	sh							
14.	. GENERATOR'S/OFFEROR'S marked and labeled/placarded	S CERTIFICATION: I hereby declare that the d, and are in all respects in proper condition	Contents of this consider transport according	gnment are fu	Illy and accurately de	scribed above	by the proper shi	pping name,	and are classified, package	
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	NON-HAZARDOUS	or's US EPA ID No.	Manifest D	oc. No			2. Page 1 of
	WASTE MANIFEST NY	2000184184	+ 12	2306	50		1
	3. Generator's Name and Mailing Address	onal Grid NY		1	al Grid Form	or Equi	
		Metrotech Center		INduOII			-
		klyn, NY 11201			254 Ması Brooklyn,		
	4 Generator's Telephone Number / 719 \ 06						<b>E</b> 1 1
	5. Transporter 1 (Company Name) APPrico	G US EPA ID Number	1326		ansporter's ID	2Act	201A-
	William J. Layer Corp. Environ		7644		rter 1 Telephone (	718~	981-8500
	7. Transporter 2 (Company Name)	8. US EPA ID Number			ansporter's ID	C-BI	586-54
	9. Designated Facility Name and Site Address	10. US EPA ID Number			ter 2 Telephone (		)
	Clean Water Of New York, Inc.			F. State Fac	Santy ID		
	3249 Richmond Terrace			G Facility T	elephone ( 71	8 ) 981	1-4600
	Staten Island, NY 10303	NY0000968	8545			1	
	11. US DOT Description (Including Proper Shipping I	Name, Hazard Class and ID Number		Containers	13. Total	1 <sub>5</sub> Unit	
	a. NON RCRA NON DOT REGULA		Num	ber Type	Quantity	Wt / Vol	H. Waste No EPA
					LICIE	1	STATE N01
	b.		00	1110	CNL	GOLS	EPA
						~	STATE
	С.						EPA
			<u>,</u> #				STATE
	d.						EPA
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r	I. Additional Description for Materials listed Above		-	J. Handl	ing Codes for Was		
	1022-001 - Development Water						
	a.	С.		a.		C	
	<ol> <li>Special Handling Instructions and Additional Information</li> </ol>	d. mation	2.5	b.		d.	
	24 Hour Emergency Telephone #						
i.							P.O. #
							7278
1	<ol> <li>GENERATOR'S CERTIFICATION: I hereby cert n proper condition for transport. The materials descrit </li> </ol>	ify that the contents of this shipment are	re fully and a	ccurately des	cribed and are in a	all respects	
-	Y	and on this mannest are not subject to	icucial fiazal	idous waste i	egulations		
F	Printed/Typed Name	Signature	15				Mo. Day
L	ENALD P. CAMPERIL	(1 10 1/1	AL.	0 11		h	4 he le
	17. Transporter 1 Acknowledgement of Receipt of Ma		ant	ferr-		C.	1-1-1-1
F	Prir. Jed/Typed Name	Signature	1	and the second s			Mo. Day Y
1	8. Transporter 2 Acknowledgement of Receipt of Mal	terials	$\geq$			6	14251
	Printed/Typed Name	Signature		Wide Barris a -			Mo Day Y
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1	9. Discrepancy Indication Space		9.1				- and
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	0. Facility Owner or Operator: Certification of receipt	of hazardous materials covered by this	s manifest ex	cept as noter	d in Item 19		
2			Line in the line is a second sec				
2 P	rinted/Typed Name	Signature					Mo Day Y

		Montand and	<b>.</b> .			-	1	
NON-HAZARDOU	S 1. Generator ID Number	JUP	1-1-	3-192	68			
WASTE MANIFES	T 771208/		2. Page 1 o	f 3. Emergency Respon	nse Phone	4. Waste	Tracking No	E013426
5. Generator's Name and	Mailing Address	20 202 64	¢	Generator's Site Addr	ess (if different	than mailing ad	dress)	EU10420
	ENCINAL OFIC NY	61.2	2.2013	PROTECTAL C			,	
Generator's Phone:	ROWLAN NA 1711		di di	2- 254 MAGERY		rente. Terret Terret		
6. Transporter 1 Company	y Name			ENCOKLIN,	, INC 14241	U.S. EPA I	DNumber	
- Angeler and	- A forgen for the former of		ana frances			0.5. EPA I	D Number	
7. Transporter 2 Company		4			12	U.S. EPA I		
8. Designated Facility Nan	ne and Site Address	Hall	4.00 C	T 1( 1) 113	المليد ال	1/0Cil	APR' Laur	301 M2/66
	10.00mm的 200	H. LAAMLOPELIEAT				U.S. EPA II		and the second second
	75 SPOKES MILL	.Rost	,34					6
Facility's Phone:	TEASBEL NO		20.00			1		
9. Waste Shipping 1	Name and Description			10. Con	T	11. Total	12. Unit	
1.				No.	Туре	Quantity	Wt./Vol.	
MISE COSL	TAR CONTRACTED SOL					- California -	5	
2.	UT ROTS			1001	101	S	-B-	
-							1	
3.						1 2 2	<b>├</b> ──	
4.								_
	tions and Additional Information							
14. GENERATOR'S/OFFER marked and labeled/place	OR'S CERTIFICATION: I hereby decla arded, and are in all respects in proper	P the Contents of this co condition for transport accord	insignment are	fully and accurately des	cribed above t	by the proper shi	pping name,	and are classified, packaged,
Generator's/Offeror's Printed/	- ypour tuino		Signa	ature		intar regulations.		Month Day Year
15. International Shipments	- CAMPER	<u> </u>						105 C2113
Transporter Signature (for exp	Import to U.S.		Export from U.S		•			
16. Transporter Acknowledgm	ent of Receipt of Materials			Date leaving	ng U.S.:		_	
Transporter 1 Printed/Typed N	lame		Signa	ture			-	Month Day Year
ransporter 2 Printed/Typed N	lame N		and a street	y napalyting and 2 to match 2 to match 2 to 2 to 2 to 2 to 2 to 2 to 2 to 2 t	ana aya aya sada sada sa siya sa	**************************************	and relatively provide the	Realized in the second se
Kenr	balina		Signa	ture	When a survey			Month Day Year
7. Discrepancy	s.i			and weather	and a set that is hit of the	line Re		100 0913
7a. Discrepancy Indication Sp	Dace Quantity	П туре	R. A.	Residue	Г	7		
					L	Partial Rejer	rtion	Full Rejection
b. Alternate Facility (or Gene	erator)			Manifest Reference Nu	umber:			
		8				U.S. EPA ID NI	imber	
acility's Phone:		and the second second			1			
7c. Signature of Alternate Fac	inty (or Generator)		T					Month Day Year
8. Designated Facility Owner c rinted/Typed Name	or Operator: Certification of receipt of m	aterials covered by the mani	fest except as	noted in Item 17a			-	
плештурес мате			Signatu					Month Day Year
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	se type or print.							
	NON-HAZARDOUS	DL 04-11		Manifest Do	C. NO.			2 Page 1 of
	WASTE MANIFEST +	VYR01		4 1 2	30	59		1
	Generator's Name and Mailing Address     Generator's Telephone Number ( 71	National C	otech Center NY 11201	Advances (1999) and Advances	Δ.	nal Grid Fo 254 Ma Brookly	speth A	
	5. Transporter 1 (Company Name)		6. US EPA ID Number		B State Tra	nsporter's ID	2A-	-531
7	William J. Lauer Corp. Transporter 2 (Company Name)		N Y R 0 0 0 1 5 8. US EPA ID Number	the second		ter 1 Telephone nsporter's ID	( 718	) 981-8500
9	. Designated Facility Name and Site Addr		10. US EPA ID Number	the second second second second second second second second second second second second second second second se	E. Transport	er 2 Telephone ility ID	(	)
	Clean Water Of New York 3249 Richmond Terrace Staten Island, NY 10303		N Y O O O O 9 6		G. Facility T	elephone (	718)98	81-4600
1	1. US DOT Description (Including Proper	Shipping Name, H	lazard Class and ID Number		ontainers	13. Total	14. Unit	
а	NON RCRA NON DOT RE	EGULATED	LIQUIDS	Numb	er Type	Quantity	Wt / Vol	EPA NO18
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c	la contra de la co		1. 1.			- 		STATE
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	Additional Description for Materials listed 1022-001 - Development Wate				J Handli	ng Codes for W	astes Liste	d Above
a.		. c.		- 	а.		C	
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15	5. Special Handling Instructions and Additi 24 Hour Emergency Telep		319-0800					
								P.O. #
<b>16</b> in	. GENERATOR'S CERTIFICATION: I h proper condition for transport. The materi	ereby certify that t als described on t	he contents of this shipment his manifest are not subject to	are fully and ac o federal hazar	curately des dous waste i	cribed and are l regulations	n all respec	7278
Pri	Inted/Typed Name	PBELL	he contents of this shipment his manifest are not subject to lignatur	o federal hazar	dous waste i	cribed and are l egulations	n all respec	<b>7278</b>
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**ORIGINAL - RETURN TO GENERATOR** 

FACILITY TRANSPORTER

NON	-HAZARDOUS WAST	TE MANIFES	т		
Please type or print.					
NON-HAZARDOUS 1 Generator's	US EPA ID No. -11. 2013	anifest Doc. No.		4	2. Page 1 of
	00184184	1 2 3 0	F 0		-34, 01
3. Generator's Name and Mailing Address	and the second second second second second second second second second second second second second second second		59		1
One Me Brookly 4. Generator's Telephone Number (718) 963-	l Grid NY etrotech Center n, NY 11201 5453	Nation	254 Ma	rmer Eq aspeth A /n, NY 1	uity MGP Site ve 1211
5. Transporter 1 (Company Name)	6. US EPA ID Number	B. State Tra	nsporter's ID	24	-531
William J. Lauer Corp. 7. Transporter 2 (Company Name)	N Y R 0 0 0 1 5 7 8. US EPA ID Number		ter 1 Telephone		) 981-8500
9. Designated Facility Name and Site Address Clean Water Of New York, Inc. 3249 Richmond Terrace	10. US EPA ID Number	E. Transport F. State Fac	er 2 Telephone ility ID	e (	)
Staten Island, NY 10303		G. Facility Te	elephone (	718 ) 9	81-4600
11. US DOT Description (Including Proper Shipping Name	NY00009685				
	, Hazara orașs anu ili Number	12. Containers	13 Total	14. Unit	
<sup>a</sup> NON RCRA NON DOT REGULATE		Number Type	Quantity	Wt / Vol	H. Waste No. EPA
b.					STATE NO18
					EPA
C.	1				STATE
				10	EPA
d.					STATE
					EPA
I. Additional Description for Materials listed Above				_	STATE
1022-001 - Development Water		J. Handlin	g Codes for Wa		Above
		d.		С	
b. d.		b		d.	
15. Special Handling Instructions and Additional Information		1 4 8 B 4 7 10		α,	
24 Hour Emergency Telephone # 87 6. GENERATOR'S CERTIFICATION: I hereby certify that a proper condition for transport. The materials described on Printed/Typed Name		y and accurately descr al hazardous waste reg	ibed and are in gulations	all respects	P.O. # 7278
LENALD P CAMPBELL	Tohall # /! C	and fell		H	94114
7. Transporter 1 Acknowledgement of Receipt of Materials rinted/Typed Name	Signature				Mo. Day Yes
8. Transporter 2 Acknowledgement of Receipt of Materials					
rinted/Typed Name	Signature				Mo Day Yea
9 Discrepancy Indication Space					
. Facility Owner or Operator: Certification of second of	i			-05	
<ol> <li>Facility Owner or Operator: Certification of receipt of haza rinted/Typed Name</li> </ol>	ardous materials covered by this mani Signature	fest except as noted in	Item 19.		
	olgriditore				and the second s
	olginatore			× .	Mo Day Year

NON-HAZARDOUS	Generator's US EPA ID No. Pc_04-11-2013	Manifest	Doc. No.			2. Page 1 d
	YR000184184	1 3	230	) 5 9		
3 Generator's Name and Mailing Address	National Grid NY		-			1
			Natio	nal Grid Fo	ormer Ec	quity MGP Si
	One Metrotech Center Brooklyn, NY 11201			254 M	laspeth /	Ave
4. Generator's Telephone Number ( 718	963-5453		1	Brook	lyn, NY <sup>.</sup>	11211
5. Transporter 1 (Company Name)	6. US EPA ID Number	******			-	
William J. Lauer Corp.				ransporter's ID	2/	-531
7. Transporter 2 (Company Name)	N Y R 0 0 0 1 5 8. US EPA ID Number	7644		orter 1 Telephor	ne ( 718	3 981-8500
	0.03 EFAID Number		D. State T	ransporter's ID		
9. Designated Facility Name and Site Address			E. Transpo	orter 2 Telephor	ne (	· · ·
Clean Water Of New York, I	s 10. US EPA ID Number		F. State Fa	acility ID		
3249 Richmond Terrace	nic.	· .				
Staten Island, NY 10303		4	G. Facility	Telephone (	718 ) 9	81-4600
11 US DOT Description (Including Proper Shi						
	Pring Harrie, Hazard Class and ID Number		Containers	13 Total	14. Unit	1
<sup>a</sup> NON RCRA NON DOT REG		Numb	per Type	Quantity	Wt / Vol	H. Waste No
Contract Don Reg	ULATED LIQUIDS		2			EPA
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b. C.				1000 ( 1000 ( 1000 ( 1000 ( 1000 ( 1000 ( 1000 ( 1000 ( 1000 ( 1000 ( 1000 ( 1000 ( 1000 ( 1000 ( 1000 ( 1000 (		EPA
1						STATE
C.		518 (m. 14)				
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Additional Description for Multi-						STATE
I. Additional Description for Materials listed Abo	ve		J. Handl	ing Codes for W	lastes Listor	
1022-001 - Development Water				0	COLCO LISIEC	ADOVE
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WASTE MANIFEST N-Y-	rator's US EPA ID No. PC 04-11-2013 R-0-0-0-1-8-4-1-8-4	Manifest Doc. No. 2. Page 1 of 1 2 3 0 5 8 1
On Bro Generator's Telephone Number (718)	tional Grid NY ne Metrotech Center poklyn, NY 11201 963-5453	A 'National Grid Former Equity MGP S 254 Maspeth Ave Brooklyn, NY 11211
Transporter 1 (Company Name)	6. US EPA ID Number	B. State Transporter's ID 2A-531
William J. Lauer Corp. Transporter 2 (Company Name)	N Y R 0 0 0 1 5 7 8 US EPA ID Number	6 4 4 C. Transporter 1 Telephone ( 718 ) 981-8500 D. State Transporter's ID
Designated Facility Name and Site Address Clean Water Of New York, Inc. 3249 Richmond Terrace	10. US EPA ID Number	E Transporter 2 Telephone () F State Facility ID G. Facility Telephone ( <b>718</b> ) <b>981–4600</b>
Staten Island, NY 10303	N Y 0 0 0 0 9 6 8	5 4 5
US DOT Description (Including Proper Shippin	g Name, Hazard Class and ID Number	12. Containers 13. Total 14. Unit
NON DODA NON DOT TOOL		Number Type Quantity Wt / Vol H Waste No
NON RCRA NON DOT REGUL	ATED LIQUIDS	EPA STATE N01
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dditional Description for Materials listed Above		J. Handling Codes for Wastes Listed Above
1022-001 - Development Water	C.	a
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Special Handling Instructions and Additional Info 24 Hour Emergency Telephone		
GENERATOR'S CERTIFICATION: 1 hereby co		P.O. # 7278

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R	Finted/Typed Name	Signature		Mo.	Day	Year
I NN	18. Transporter 2 Acknowledgement of Receipt of Materials					
	Printed/Typed Name	Signature	i jenin j	Mo.	Day	Year
	19 Discrepancy Indication Space					
5	20. Facility Owner or Operator. Certification of receipt of hazar	rdous materials covered by	this manifact and a line in the second			
C.	Printed/Typed Name	Signature	y unis manifest except as noted in Item 19.	Mo	Day	Year

**ORIGINAL - RETURN TO GENERATOR** 

1 1

MALAOTE MANUETOT		2013		c. No.			2 Page 1 of
WASTE MANIFEST N	YROOO		1 2	3 0	58		1
Generator's Telephone Number ( 718	National Grid N One Metrotech Brooklyn, NY 1 963-5453	Center 1201			254 Ma Brookly	speth Av n, NY 11	1211
Transporter 1 (Company Name)	6. US	EPA ID Number		B. State Trai	sporter's ID	2A-	531
William J. Lauer Corp. Transporter 2 (Company Name)		<b>R 0 0 0 1 5 7</b> EPA ID Number		C. Transport D. State Trai	er 1 Telephone sporter's ID	( 718	) 981-8500
				a desired at	er 2 Telephone	(	)
Designated Facility Name and Site Address Clean Water Of New York, In 3249 Richmond Terrace	nc.	S EPA ID Number		F. State Faci G. Facility Te		718 ) 98	31-4600
Staten Island, NY 10303				ontainers	13. Total	14. Unit	
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si ana ana ana ana ana ana ana ana ana an							STATE
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Additional Description for Materials listed Abo	ove			J. Handli	ng Codes for V	Vastes Liste	d Above
1022-001 - Development Water	C.			a.		C.	
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**TRANSPORTER #1** 

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WASTE MANIFEST	NYROO	0184184	1 2	3 0	58		2 Page 1
3 Generator's Name and Mailing Add	National Gri						1
	One Metrote		1	Natio	nal Grid Fo	ormer E	quity MGP S
	Brooklyn, N	Y 11201			254 M	aspeth	Ave
4 Generator's Telephone Number (	718 963-5453				Brook	yn, NY	11211
5. Transporter 1 (Company Name)	6	US EPA ID Number		B. State T	ransporter's ID	~	
William J. Lauer Corp.	N	Y R 0 0 0 1 5 7	I				A-531
7. Transporter 2 (Company Name)	8.	US EPA ID Number		D. State T	orter 1 Telephor ransporter's ID	e ( <b>71</b>	8 ) 981-850
9 Designated Facility Name and Site A Clean Water Of New Yo	Address 10	US EPA ID Number		E. Transpo F. State Fa	orter 2 Telephon acility ID	e (	)
3249 Richmond Terrace Staten Island, NY 1030	Ð			G. Facility	Telephone (	718 0	981-4600
11. US DOT Description (Including Des	3 N	Y00009685	545				
11. US DOT Description (Including Pro	per Shipping Name, Haza	rd Class and ID Number	12. Co	ontainers	13 Total	14. Uni	1
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<sup>a</sup> NON RCRA NON DOT	REGULATED LIC	QUIDS			1910a - 191		EPA
<b>х</b> b.							STATE NO
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d.							STATE
			10000	S			EPA
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1. Additional Description for Materials liste	ed Above						STATE
1022-001 - Development Wa	ter			J. Handi	ng Codes for W	astes Liste	d Above
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and the second sec				a.		C.	
				7		U.	
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15. Special Handling Instructions and Add	ditional Information	2.0800		b			
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	8. US EPA ID Number	044	C. Transpor D. State Tra	ter 1 Telephone	· 718	981-8500
<ol> <li>Designated Facility Name and Site Address</li> <li>Clean Water Of New York, Inc.</li> <li>3249 Richmond Terrace</li> </ol>	10. US EPA ID Number		F. State Fac			)
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**GENERATOR'S COPY** 

Appendix D

Permitting Requirements Correspondence with FDNY

From:	<u>James, Calvin (FDNY)</u>
To:	McCabe, Mark
Subject:	RE: Permitting Requirments - Combustible Liquid Tank
Date:	Tuesday, September 17, 2013 2:50:40 PM

#### Mr. McCabe .

Because of the mixture of coal tar and water a, fire department permit is not needed for the tank .

From: McCabe, Mark [mailto:Mark.McCabe@aecom.com]
Sent: Tuesday, September 17, 2013 1:36 PM
To: James, Calvin (FDNY)
Subject: Permitting Requirments - Combustible Liquid Tank

Inspector James,

AECOM, an environmental consulting company, is conducting a multi-year soil remediation program at a site on Maspeth Ave. in Brooklyn under the oversight of NYSDEC. We are planning to pump a mixture of coal tar and water from below the ground to remove contamination from the site. Data indicates that the recovered material will be a Class III A combustible liquid. The collected material will be temporarily accumulated in a 500 gallon tank pending disposal at a permitted off-site location and will be emptied monthly. The tank will be housed "outside' within a shipping container and will be equipped with secondary containment.

We'd like to begin to understand the FDNY permitting requirements for the tank. Any help/direction that you could provide would be greatly appreciated.

Regards, Mark

#### Mark McCabe

Environment D: 978.905.2311 C:508.423.9018 mark.mccabe@aecom.com

#### AECOM

250 Apollo Drive Chelmsford, MA 01824 Phone: 978.905.2100 Fax: 978.905.2101 www.aecom.com