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#### New York State Department of Environmental Conservation Division of Environmentai Remediation

Remedial Bureau C, 11th Floor 625 Broadway, Albany, New York 12233-7014 Phone: (518) 402-9662 • Fax: (518) 402-9679 Website: www.dec.ny.gov

#### July 5, 2012

Mr. Donald Campbell National Grid Site Investigation and Remediation 287 Maspeth Ave. Brooklyn, NY 11201

Re:

Equity Former MGP Site Interim Remedial Measure 254 Maspeth Ave. Property, Work Plan Site# 224050

Dear Mr. Campbell:

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have reviewed the Equity Former MGP Site 254 Maspeth Ave. Property Interim Remedial Measure Work Plan, dated December 16, 2011. The Work Plan is hereby approved with the following modifications:

• A demarcation layer shall be installed at the bottom of all excavation areas,

• A weekly Community Air Monitoring summary report shall be provided to the NYSDOH Project Manager. This report shall include: all air monitoring data from each station, meteorological data, a list of exceedances and a description of corrective actions taken following any exceedances and/or complaints

Please notify the Department 10 days prior to the commencement of field activities.

Sincerely,

Henry T. Willems Engineering Geologist 1

D. Campbell, National Grid
T. Bell, National Grid
G. Cross, NYSDEC
M. Ryan, NYSDEC
S. Arakhan, NYSDEC
A. DeMarco, NYSDOH
P. John, NYSDEC

ec:



## nationalgrid

Donald Campbell Project Manager

December 16, 2011

Mr. Henry Willems Project Manager New York State Department of Environmental Conservation Division of Environmental Remediation Remedial Bureau C, 11<sup>th</sup> Floor 625 Broadway, Albany, New York 12233-7014.

Subject: Pre-Design Investigation Report and Interim Remedial Measure Work Plan – 254 Maspeth Avenue Property Equity Former Works Manufactured Gas Plant (MGP) Site Brooklyn, New York NYSDEC Site No.: 224050, Order on Consent Index #: A2-0552-0606

#### Dear Mr. Willems:

National Grid is submitting the following Pre-Design Investigation (PDI) Report and the Interim Remedial Measure (IRM) Work Plan for the 254 Maspeth Avenue property located in Brooklyn, New York (Figure 1). The 254 Maspeth Avenue property is located within the footprint of the Equity former Works Manufactured Gas Plant (MPG) site (the Site) which consists of three adjoining properties – 222 Maspeth Avenue, 252 Maspeth Avenue, and 254 Maspeth Avenue (Figure 2). This document presents the following:

- A brief background of the 254 Maspeth Avenue property;
- The results of the PDI completed at the 252 and the 254 Maspeth Avenue properties;
- The preliminary draft results for the portion of the Remedial Investigation Work Plan Addendum No. 1 completed at the 254 Maspeth Avenue property;
- The objectives of the IRM Work Plan; and
- A description of the IRM activities.

The PDI was completed pursuant to the New York State Department of Environmental Conservation (NYSDEC)-approved PDI Work Plan dated August 2011. The PDI activities were conducted in August and September 2011.

This IRM Work Plan was developed pursuant to a Multi-site Order on Consent and Administrative Settlement, Index # A2-0552-0606, between The Brooklyn Union Gas Company (now d/b/a National Grid) and the NYSDEC and in accordance with applicable guidelines of the NYSDEC and the New York State Department of Health (NYSDOH). The IRM activities are tentatively scheduled for winter (February) 2012 and consist of removal of soils above the groundwater surface (approximately the top 5 to 7 feet) on the 254 Maspeth Avenue property. The IRM will result in the removal of visible MGP-related impacts within the footprint of the proposed redevelopment construction activities for the 254 Maspeth Avenue property.

#### Background

The historical and current structures located at the Site are shown on Figure 2. Information regarding past and current property use is summarized below:

#### Site History and Description

The Site was operated as a MGP from approximately 1893 to 1929, first by the Equity Gas Light Company and later by the Brooklyn Union Gas Company (BUG). Gas manufacturing used the carbureted water gas (aka Lowes) process. BUG sold the Site in September 1951. Subsequently, the Site was used for storage (pipe and valves) for the period of 1965 to 1981, and appears to have been vacant during the period of 1986 to 1988. The Site appears to have been used as a solid waste transfer facility from 1990 under the ownership of various parties.

A Remedial Investigation (RI) is currently being conducted at the Site by National Grid. Specifics of the RI scope of work are presented in the NYSDEC-approved RI Work Plan (AECOM, 2009). Based on historical information obtained during the RI, five former MGP era structures (former generator house, former boiler house, former tar tank, former tar separator, and former gas oil storage house) were present on the 254 Maspeth Avenue property. The locations of these former structures are shown on Figure 2. Foundations for each of the five former structures were encountered during the RI.

#### Current Property Layout

The Site currently houses a waste recycling facility and associated vehicle and equipment storage, with primary Site activities occurring at the 222 Maspeth Avenue parcel, currently operated by Cooper Tank Recycling (Cooper Tank). The entire Site is now owned by third parties as 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. Currently one enclosed building housing offices and one open building (no walls, with roof) housing waste recycling operations are present on the lot. The lot is operated by Cooper Tank.
- 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 present on the north side, along Maspeth Avenue.
- 254 Maspeth Avenue This property is currently owned by 254 Maspeth Avenue, LLC and leased to Cooper Tank for occasional storage of empty roll-offs, parking of tractor-trailers, and Cooper Tank employee vehicle parking. Two rectangular concrete scales for measuring truck tare weight were recently installed on the northern portion of the property. A storm water collection structure was also installed north of the truck scales.

The current operator of 254 Maspeth Avenue, Cooper Tank, is in the process of obtaining a NYSDEC Part 360 Permit for operating a recycling facility. This permit, which will include expansion of the current 222 Maspeth Avenue facility into the 252 and 254 Maspeth Avenue properties, requires construction of a minimum 8-inch thick concrete pad across the entire surface of the Site, a storm water collection system, and a 30-foot high wall along the perimeter of the 254 Maspeth Avenue property. These activities are expected to be invasive and could encounter residual MGP waste observed during the ongoing RI activities. As a result, National Grid and the NYSDEC have agreed that an IRM be conducted on the 254 Maspeth Avenue property. The IRM will remove visual MGP-residual impacts above the groundwater surface.

#### Site Geology/Hydrogeology

During the RI, soils within the upper 15 to 20 feet of the 254 Maspeth Avenue were observed to consist of imported fill material made up of silt, sand and gravel mixed with slag, coal, brick, concrete, metal, ash, and clinkers. A layer of meadow mat (peat and clay) is present below the fill layer and acts to separate the underlying native soils from the overlying fill. Shallow groundwater is located at depths of approximately 5 to 7 feet (ft) below ground surface (bgs).

#### 254 Maspeth Avenue Property Investigations

Several investigations have been conducted on the 254 Maspeth Avenue property to-date. These include:

- Previous investigation activities were conducted on portions of the 254 Maspeth Avenue property in 2004 and 2005 by the contemporary property owners, as listed below:
  - A Phase II Environmental Subsurface Investigation (ESI) was conducted in September 2004 by EEA Inc. (EEA) on behalf of Spencer Realty Corporation (the property owner) and Cooper Tank (the potential property buyer). EEA installed 6 soil borings on the property and collected soil samples which were analyzed for VOCs, SVOCs, and RCRA metals. SVOCs and various metals were detected in all six borings. VOCs were detected in two of the borings. The subsurface geology was characterized to the completion depth of the borings.
  - A Phase I Environmental Site Assessment (ESA) was conducted in October 2004 by Gannett Fleming Environmental (GFE) on behalf of Cooper Tank, who was the potential buyer of the property. GFE conducted a records search, interviews, and site visit.
     Surficial soil staining was observed on site.
  - For the 252 and 254 Maspeth Ave properties, GFE performed geotechnical investigation work on behalf of Cooper Tank in September 2006 (GFE, 2006). GFE installed five soil borings to investigate the geology below these properties.
- A RI was conducted by AECOM on behalf of National Grid from September 19, 2009 to February 12, 2010 on the 254 Maspeth Avenue property. Two test pits (TP-2 and TP-3) were excavated, 8 soil borings were completed, 8 monitoring wells installed, and surface soil, subsurface soil, and groundwater samples were collected and analyzed during the RI. The investigations confirmed that MGP-related compounds are present in the soil and groundwater beneath the 254 Maspeth Avenue parcel.
- The ongoing RI Addendum is being conducted by AECOM on behalf of National Grid that started on September 19, 2011 on the 254 Maspeth Avenue property. Two soil borings (SB-16C and SB-22) were completed. In addition, two test pits were completed (TP-4 and TP-4A) during PDI work performed in September 2011. A detailed description of the findings of the RI Addendum completed to date on the 254 Maspeth Avenue is provided in the next sections.

A summary of visual impacts and analytical soil data with PAH exceedances within the top 7 feet of the 254 Maspeth Avenue property is shown on Figure 3.

#### **RI Addendum**

RI Addendum activities completed to date at the 254 Maspeth Avenue property were conducted to delineate impacts and to collect soil for analysis that provide information to support the understanding of subsurface conditions beneath the 254 Maspeth Avenue property. The test pits under the RI Addendum scope of work (TP-4, and TP-4A) were completed during the PDI activities. Field activities began on September 13, 2011 and are ongoing. Figure 3 includes the locations of the RI Addendum test pit and soil boring locations.

The objectives of the RI Addendum are listed below:

- Advance soil boring SB-16C located adjacent to soil boring SB-16B to determine the presence and elevation of the lower clay confining unit (Gardiner's Clay), and evaluate the presence/absence of MGP residuals above the Gardiner's Clay observed at SB-1C, and downgradient from primary MGP structures at the 222 Maspeth Avenue parcel.
- Advance SB-22 located east of the former tar tank and boiler house, along the southern property boundary, to determine the presence and elevations of the meadow mat (peat), interbedded clay formations, and evaluate the presence/absence and distribution of MGP residuals observed at SB-11 and SB-17.
- Advance test pit TP-4 (and TP-4A) to evaluate the former tar separator and tar tank underlying the boiler house along the northern site boundary near the buried stream channel.

#### Soil Boring and Test Pit Completion

Soil borings were advanced at locations presented in Figure 3 using sonic drilling methods under the supervision of AECOM personnel.

Two test pits (TP-4 and TP-4A) were excavated to evaluate the presence of former MGP structures, including the former tar well and the former tar separator adjacent to SB-12. Concrete foundations were observed within the northwest portion and along the northeastern wall of TP-4 indicating potential presence of foundations/walls of either the former boiler house, former tar separator and/or former tar well. Concrete foundations were also observed along the northwestern portion of TP-4A indicating the potential presence of the southwestern wall/foundation of either the former tar separator or the former boiler house. Hardened tar was observed in TP-4 from 2 ft bgs to the bottom of the test pit along with LNAPL emulsion of oil-like material (OLM) on the groundwater surface and strong diesel-type odor.

A summary of visual and olfactory impacts above the groundwater surface (the target excavation depth for the IRM) is presented below and shown in Figure 5:

- No visual or olfactory impacts were observed in test pit TP-4A.
- Coal cinders, an ash layer, and a few hardened tar pieces were observed from 2 to 4 ft bgs in test pit TP-4;
- A slight tar-like odor was detected from the 0 to 1.5 ft bgs in soil boring SB-16C.
- A slight petroleum-like odor from 1 to 2 ft bgs and slight fuel oil-like odor from 3.5 to 4 ft bgs were detected in soil boring SB-22.

The soil borings and test pits were logged by an AECOM geologist recording such data as the presence of fill material or subsurface structures, the nature of each geologic unit encountered, observations

regarding moisture content, the results of PID readings, and visual and olfactory observations regarding the presence of hydrocarbon-like residuals. The test pit logs are included as Attachment A. Soil boring logs for recently installed soil boring SB-16C and SB-22 are in preparation.

#### **Pre-Design Investigation Report**

PDI activities were conducted to investigate and delineate visual impacts and to collect soil for precharacterization analysis. Additional test pits completed on the 252 Maspeth Avenue property including TP-18, TP-19, TP-20, and TP-21 to determine if there were visual MGP-impacted soils at this parcel that needed consideration during planning of IRM activities at the 254 Maspeth Avenue parcel. The test pits under the RI Addendum scope of work (TP-4, and TP-4A) were also completed during the PDI activities. Field activities were completed between September 1, 2011 and September 9, 2011. Figure 4 provides the location of the PDI and RI investigation locations.

The objectives of the PDI are listed below:

- delineate the horizontal extent of the visually contaminated soils located around SB-4, TP-2, and SB-12;
- confirm the vertical extent of the visually contaminated soils to be removed;
- investigate the unsaturated soils located within the footprint of the proposed perimeter wall; and
- pre-characterize soils for disposal options.

#### **Test Pit Completion**

A total of twenty-one (21) test pits were excavated at locations presented in Figure 4 to delineate visually impacted soils observed at RI locations SB-4, TP-2, and SB-12 (Figure 3) and to investigate and delineate the presence of visually impacted soils, if any, along the footprint of the proposed perimeter wall of the 254 Maspeth Avenue property and within the 252 Maspeth Avenue property. Excavation was accomplished using a backhoe under the supervision of an AECOM geologist.

Seventeen (17) of the test pits were excavated on the 254 Maspeth Avenue property. Of these, fifteen (15) perimeter test pits (TP-5 through TP-12, TP-12A, TP-13, TP-14 TP-15, TP-15A, TP-16, andTP-17) were advanced to the groundwater surface (with the exception of TP-12, which was terminated above the groundwater surface due to nuisance odor conditions generated during excavation of this test pit) at an approximate spacing of 50 feet. Each test pit was approximately 5 feet wide along the perimeter wall and extended approximately 15 feet into the property from the property perimeter to account for potential footings of the proposed perimeter wall (the preliminary wall design is understood to extend this distance into the property line). Two additional step-out locations (TP-12A and TP-15A) were excavated at 25 foot intervals along the perimeter due to the presence of visual MGP-residuals in TP-12 and TP-16. Two test pits (TP-2B and TP-2C) were excavated to evaluate the presence and extent of tar observed at RI location SB-4 and test pit TP-2. The test pits were advanced to the groundwater surface and were approximately 5 feet wide and 20 feet long.

Four (4) test pits (TP-18 through TP-21) were advanced to the groundwater surface within the 252 Maspeth Avenue property. Each test pit was approximately 5 feet wide along and extended approximately 15 feet in length. A summary of visual and olfactory impacts observed during this work is presented below and shown in Figure 5:

- No visual or olfactory impacts were observed in test pits TP-2C, TP-5, TP-6, TP-7, TP-8, TP-09, TP-11, TP-12A, TP-13, TP-18, TP-19, TP-20, and TP-21;
- Only naphthalene-like odors were detected in test pits TP-14, TP-15, and TP-15A. No visual
  impacts were observed in these test pits;
- A sheen was observed in the groundwater in test pit TP-10;
- Highly weathered hardened tar, tar saturated lenses, and tar coated material were observed from 0.5 to 5.75 ft bgs in test pits TP-16 and TP-17;
- A layer of coal with few hardened tar balls was observed at 2.8 ft bgs and spots of seeping tar were noted at 4 ft bgs (when exposed to air) in test pit TP-2B;
- A Light non aqueous phase liquid (LNAPL) emulsion of OLM and strong diesel-type odor was also observed on the groundwater table of TP-2B, and
- Heavily tar-coated to tar saturated lenses were observed down to 4.75 ft bgs in test pit TP-12. This test pit was terminated at 5 ft bgs due to strong odors.

The test pits were logged by an AECOM geologist recording such data as the presence of fill material or subsurface structures, the nature of each geologic unit encountered, observations regarding moisture content, the results of PID readings, and visual and olfactory observations regarding the presence of hydrocarbon-like residuals. The test pit logs are included as Attachment A.

Soil removed during the excavation of the test pit was temporarily stored on a sheet of plastic. To the extent possible, visually un-impacted soil was segregated from visually impacted soil. Upon completion of each test pit, impacted soil and debris were returned to the excavation first, followed by existing surface soils removed from that excavation to return the excavation to original grade.

All Investigation Derived Waste (IDW) generated during the PDI was collected in properly labeled 55gallon drums, characterized with laboratory analyses, and properly disposed in accordance with management of IDW procedures outlined in Field Sampling and Analytical Plan (FSAP) provided in the RI Work Plan (AECOM, 2009).

Ambient air quality and dust concentrations were monitored upwind and downwind of activities during all ground intrusive operations in accordance with the methods outlined in the PDI Work Plan. Data was collected using photoionization detectors (PIDs) and aerosol monitors. Real time volatile organic compound (VOC) and aerosol readings were recorded by AECOM personnel in 15 minute intervals and logged continuously by the apparatus. No exceedances of action levels were noted. Logged data has been reviewed and is provided as Attachment B.

#### IRM Soil Waste Characterization Sampling

Waste characterization sampling was performed as part of the September 2011 PDI activities. The number of samples and types of analyses performed was determined in consultation with the anticipated soil disposal facilities – Clean Earth of Southeast Pennsylvania, Inc. located in Morrisville, Pennsylvania and Bay Shore Recycling of New Jersey, Inc. located in Keasbey, New Jersey. The IRM excavated soils will be managed as industrial non-hazardous solid waste under NYSDEC Part 360 regulations.

#### **IRM Project Responsibilities**

The principal organizations involved in designing and implementation of the proposed IRM will be National Grid, the NYSDEC, the NYSDOH, AECOM, the Mitigation Contractor(s), and the Property Owner.

#### National Grid

National Grid is responsible to the NYSDEC for the remedial design, implementation, and evaluation of this IRM in accordance with the Order on Consent [NYSDEC, 1998]. National Grid, through their consultant, AECOM, has the authority to monitor and control the quality of construction and related activities to ensure conformance with the engineering design plans and specifications. National Grid has the authority to select and dismiss the Contractor(s) used to assist them with fulfilling these responsibilities. National Grid also has the authority to select and accept or reject design plans, specifications, materials, and workmanship of the contractors and subcontractors.

#### **NYSDEC and NYSDOH**

The NYSDEC Division of Environmental Remediation and the NYSDOH will review National Grid's IRM Work Plan for substantial compliance with the agency's regulations. Any substantial deviations from the requirements or approved work plans will be submitted to the NYSDEC and NYSDOH for approval. The NYSDEC and NYSDOH must approve the IRM as meeting the remedial goals.

#### <u>AECOM</u>

AECOM is the engineer responsible for the IRM design and implementation. AECOM will be the field engineer/supervisor during the work and will make recommendations to National Grid regarding field decisions during construction. AECOM will collect any additional soil characterization samples if needed, implement the Community Air Monitoring Plan (CAMP), and will prepare a Completion Report for the IRM.

#### **Remediation Contractors**

The Remediation Contractors ("Contractors") referred to in this Work Plan will be selected by National Grid from qualified soil removal and disposal contractors. The Contractors will be responsible for the performance of the work in accordance with this Work Plan and contract documents including specifications and design drawings. The Contractor shall be responsible for the Health and Safety of Contractor's employees, its Subcontractors, suppliers, agents, inspectors, visitors, the general public, and any others associated with or interacting with Contractor who provides labor, goods, or other services on the Project site. The Contractors will report directly to AECOM either as AECOM subcontractors or National Grid contractors. The Contractors will be given a copy of the Crder on Consent and will be required to comply with it as a condition of their contracts.

#### Property OwnerlFacility Operator

The IRM will be coordinated with the Property Owner and the Facility Operator so that the interference from installation of the IRM is to a minimum. The Property Owner and the Facility Operator will provide access to National Grid and others, in accordance with an access agreement, so that the IRM can be implemented as provided in this Work Plan. The Property Cwner and the Facility Operator have no responsibility for the remedial design, construction, and evaluation of the IRM. Once the IRM is completed, the Property Owner and the Facility Operator will be responsible for the proposed 254

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Maspeth Avenue property redevelopment activities in accordance with an NYSDEC-approved Interim Site Management Plan.

#### **IRM Objectives**

The objectives of this IRM are to:

- Remove, to the extent possible, visual MGP-residual impacts observed in soils above the water table (or to a minimum depth of 5 ft bgs if the water table is shallower) on the 254 Maspeth Avenue property; and
- Provide a safe working environment during the proposed redevelopment of the 254 Maspeth Avenue property.

Visual MGP-residual impacted soils are being targeted for the IRM, as they have been identified as sources that are readily recoverable. Cooper Tank, responsible for the proposed redevelopment of the 254 Maspeth Avenue property, has stated to National Grid that field activity during the proposed redevelopment will extend to a maximum depth of 5 ft bgs. As such, soils within the limits of the IRM will be removed to a minimum depth of 5 ft bgs irrespective of the depth of the water table. Any remaining MGP-residual impacts across the 254 Maspeth Avenue property will be accounted for in a Site Management Plan and/or final Remedial Design/ Cleanup Plan for the Site.

#### **IRM Scope of Work**

To achieve the IRM objectives, the proposed approach for the IRM includes removal of soils above the water table (or to a minimum of 5ft bgs) via excavation and transportation off-site for thermal treatment and disposal. The depths to groundwater encountered during RI and PDI investigation work on the 252 and 254 parcels are shown on Figure 6. The areas to be excavated are shown in Figure 7 and are as follows:

- Soils within Area A will be excavated to remove visual MGP-residual impacts observed during the RI Addendum including test pit TP-4;
- Soils within Area B will be excavated to remove visual MGP-residual impacts observed during the RI including test pit TP-3 and soil boring SB-12;
- Soils within Area C will be excavated to remove visual MGP-residual impacts observed during the RI including test pits TP-2, TP-2B and soil boring SB-4 and PDI test pit TP-12; and
- Soils within Area D will be excavated to remove visual MGP-residual impacts observed in soils within the PDI test pits TP-16 and TP-17.

The extent of each area of excavation was based on the nearest clean investigation location, if present, and may be expanded based on observations during the field work.

The proposed IRM will include the following components:

- mobilization and site preparation;
- air monitoring to evaluate potential fugitive emissions;
- excavation of identified shallow soils above the water table to limits shown in Figure 7;
- transportation and management of impacted material at an offsite permitted facility; and

287 Maspeth Avenue, Brooklyn, NY 11211

• surveying, backfilling, site restoration, and demobilization.

The work will be completed by a remedial contractor under the supervision of AECOM. AECOM will be on site during the fieldwork to document the removal activities and to perform the community air monitoring. Descriptions of each of the tasks that will be performed during implementation of the IRM are presented below.

#### Mobilization and Site Preparation

Mobilization will include all labor, materials, equipment, surveys, and other items required to obtain required permits; arrange for waste transportation; arrange for utility hook-ups (as needed); mobilize field office (if needed), stage necessary equipment and personnel; implement the Health and Safety Plan (HASP) and hold an onsite health and safety training session; setup an onsite decontamination facility; and maintain project records.

Site preparation activities will be conducted as part of the mobilization and include utility clearance, installation of a temporary construction fence as needed for the proper implementation of the IRM, installation of traffic controls, implementation of erosion and sedimentation controls, and installation of a decontamination/tracking pad.

Prior to the start of the excavation work, Dig Safely New York will be contacted and companies with subsurface utilities present will be requested to mark-out their utilities in the excavation area. Note that based on previous sampling performed in this area, subsurface utilities are not anticipated to be present in the excavation area.

The contractor performing the excavation activities will establish parking and equipment storage areas on the 254 Maspeth Avenue property. Use of this area for storage and parking will ensure that disruption to Cooper Tank will be minimized.

All necessary engineering odor controls will be installed prior to the start of excavation activities.

No New York State, or federal permits or approvals are known or believed to be required for the work. The work is being conducted under an Order on Consent with the NYSDEC.

#### **Excavation**

Excavation of shallow soil will be conducted in four discrete areas as shown in Figure 7. Excavations will extend to the groundwater surface, and, within the perimeter wall footprint, to a minimum depth of 5 ft bgs. The groundwater surface ranges between 5 and 7.5 ft bgs as observed during previous investigations on the 254 Maspeth Avenue property.

The extent of excavation as shown in Figure 7 is based on the results of the RI and PDI and may be modified in the field if additional visual impacts are observed on the sidewalls of the excavation.

- Areas A and B Soils will be removed via straight-cut excavation down to the groundwater surface, and to a minimum depth of 5 ft bgs, without sloping or shoring.
- Area C Soils within the perimeter wall footprint will removed via straight-cut excavation down to 5 ft bgs and shored via a 1H:1V (H=horizontal, V=vertical) from 5 feet bgs to the groundwater

surface. Soils within the remainder of Area C will be removed to the groundwater surface via a 1H:1.5V sloping to ensure excavation stability.

 Area D - Soils within the perimeter wall footprint will removed via straight-cut excavation down to 5 ft bgs and shored via a 1H:1V (H=horizontal, V=vertical) from 5 ft bgs to the groundwater surface. Soils within the remainder of Area C will be removed to the groundwater surface via a 1H:1.5V sloping to ensure excavation stability.

Fill material is expected to be encountered throughout the depth of excavation. Additional soil precharacterization analytical samples may be collected, if necessary, by AECOM according to the QAPP included in the RI Work Plan submitted to the NYSDEC in 2009. No post-excavation confirmation samples will collected.

Excavation will begin following site clearing and grading, if necessary, site preparation activities including implementation of erosion and sedimentation controls and installation of a decontamination pad, and implementation of a Community Air Monitoring Program (CAMP). Soils will be excavated with standard track-mounted equipment.

#### Waste Management

#### **Onsite Waste Management**

The soils within the excavation areas have already been pre-characterized as per off-site thermal treatment facility requirements. To the extent possible, excavated soil will be loaded directly into trucks for off-site transportation. However, because of construction sequencing and off-site disposal facility scheduling issues, and in order to consolidate large amounts of waste material for bulk truck shipments, it will likely be necessary to temporarily store waste material onsite prior to loading and shipment. In these instances, excavated soil will be stockpiled within the 254 Maspeth Avenue property limits. The stockpiles will be bermed and liners will be used to protect underlying materials from becoming impacted. Based on the available data, the composition of the excavated soils will meet the requirements of NYSDEC guidance, *Management Of Coal Tar Waste and Coal Tar Contaminated Soils and Sediment* [(DER - 4), NYSDEC 2002], and can be managed as solid wastes at approved offsite disposal facilities as non-hazardous industrial waste.

Any construction water generated during the implementation of the IRM will be collected and stored on the 254 Maspeth Avenue property for off-site disposal. Construction water will be analyzed and characterized according to receiving disposal facility requirements prior to transportation.

Construction and demolition (C&D) materials (e.g., concrete) removed during the excavation will be segregated, visually inspected, and decontaminated using scrapers, shovels, and a steam cleaner, as necessary, and loaded into roll-offs for off-site transportation and disposal.

On-site storage will take place in accordance with all laws and regulations dealing with the type of waste being stored. Liquid wastes will be stored in appropriate tanks or drums. Other (non-soil) solid materials will be stored in roll-off containers or covered stockpiles.

#### Off-site Transportation

Excavated materials will be transported off-site in dump or tanker trucks to the receiving facilities (listed below). Transportation of impacted materials from the 254 Maspeth Avenue property will be performed in accordance with all regulatory requirements.

All haul trucks will be permitted waste transporters in the State of New York and have impermeable poly bed liners and impermeable poly covers that fully line the bed of the truck and can be overlapped to cover the top of the load to manage odors during transportation and, if there is the potential for liquids or tarry material leaking from the waste, they will have gasketed tailgates. The trucks may be sprayed, as necessary, with odor suppressive foam prior to covering to reduce vapor and odor emissions. The vehicles will be loaded in such a way as to avoid contamination of their exteriors, including tires. In the case when truck exteriors do become contaminated, they will be decontaminated prior to leaving the property. All trucks will be checked before leaving the 254 Maspeth Avenue property and all loose soil or other materials will be brushed off to prevent spreading to streets or other areas offsite.

Waste shipments will be documented using the required waste manifests. Other materials, including C&D debris and used personnel protective equipment that have no specific documentation requirements will be documented using waste tracking forms, bills of lading, and receipts. All shipments of waste from the 254 Maspeth Avenue property will be documented, describing the type and amount of material and the receiving facility.

#### Off-site Disposal or Treatment

The following facilities have been identified for the thermal desorption and disposal of soils impacted with MGP-residuals from the 254 Maspeth Avenue property:

- Bayshore Soil Management of New Jersey, LLC, located at 75 Crows Mill Road, Keasbey, NJ 08832.
- Clean Earth of Southeast Pennsylvania, Inc., located at 7 Steel Road East, Morrisville, Pennsylvania 19067.

These treatment facilities are suitable for the disposal of non-hazardous industrial waste and contaminated debris that has been crushed to appropriate size. Bayshore Soil Management has been identified as the primary off-site treatment facility for soil disposal. As previously mentioned, the soil has been characterized and accepted by Bayshore Soil Management for disposal. The pre-characterized soil analytical data will be provided to the selected Contractor for approval from the thermal treatment facility.

Debris which cannot be reduced to the appropriate size will be transported to an approved and licensed landfill disposal facility or recycling facility (Bayshore Recycling or similar). Plastic, PPE, and construction waste water will be transported and disposed offsite at an approved disposal facility (Clean Water of New York, Inc. or similar).

#### Site Restoration

Upon completion of excavation activities, the excavated areas will be backfilled to grade with either clean concrete, supplied by Cooper Tank, sized for use as backfill material or fill (from either off-site or on-site sources) that is clean as per NYSDEC 6 NYCRR Part 375 Subpart 6.7 (d), in 12-inch lifts and properly compacted. The top 5 ft of the excavated area within the perimeter wall footprint may be left open, if requested by Cooper Tank Inc. The concrete supplied by Cooper Tank will meet the requirements under

Cooper Tank's existing facility permit (DEC No. 2-6101-00061/000001), Subpart 360-16.4 (c) (4) and any other applicable local laws and regulations. Any fill material brought on the 254 Maspeth Avenue property for use as backfill will be sampled at least once for each borrow source and submitted to NYSDEC for approval. All remnants of the IRM activities will be removed from the 254 Maspeth Avenue property after completion of IRM activities. Disturbed areas shall be re-graded to match the surrounding areas.

#### Environmental Controls

Environmental controls will ensure that the work activities do not spread impacted soil and MGP wastes outside the impacted areas and maintain the protection of human health and the environment throughout the remedial activity. Site control and safety procedures will be consistent with the procedures presented in the NYSDEC-approved Equity Former MGP Site RI Work Plan (July 2009).

#### Odor, Vapor, and Dust Control

Odor, vapor, and dust control will be required for this project due to the immediate proximity of commercial buildings. An odor and vapor suppressing foam (Rusmar AC-654 foam or similar) and plastic sheeting (or other approved methods, including BioSolve<sup>™</sup> and similar products) will be available at all times during the remedial activity to contain air emission sources. The necessary application equipment and plastic sheeting will be brought on the 254 Maspeth Avenue property during mobilization, along with odor neutralization concentrate.

#### Air Monitoring

Site perimeter and work zone air monitoring will be performed per New York State Department of Health (NYSDOH) and Occupational Safety and Health Administration (OSHA) requirements, and according to the NYSDEC approved RI Work Plan site-specific HASP and CAMP.

#### Erosion and Sediment Control

The IRM activities will not disturb an area greater than one acre in size. Erosion will be prevented and sediment will be controlled during all onsite earthwork activities in accordance with the applicable New York State guidance. Stormwater run-off will be controlled to prevent contact with impacted soils. Stormwater that does contact impacted soils will be collected and disposed off-site. Hay bales, silt fence, and/or rip rap will be used as necessary to prevent erosion of exposed soils.

Decontamination pads will be used to remove mud from truck tires and prevent tracking of mud and impacted soil onto the streets.

#### **Decontamination**

During and upon completion of the excavation phases of the project, decontamination of equipment will be performed in order to prevent contaminated material from being spread offsite during waste hauling activities and to prevent the spreading of impacted material to un-impacted areas of the site. Trucks used for transport of excavated material will be decontaminated using dry decontamination methods (*i.e.*, removal of loose material with a broom or brush) to the extent practicable to limit the volume of decontamination water, which will require treatment and disposal. These methods, along with parking of trucks on plastic sheeting during loading, will effectively prevent the spread of contaminated materials onto roadways during transport to disposal facilities. Decontamination of the earth-moving equipment will

occur at the completion of the excavation phase and prior to the handling of clean backfill or mobilization offsite. The method of equipment decontamination will consist of pressure washing to remove any impacted soil. Decontamination water generated during cleaning of tools and equipment will be temporarily stored on-site for later off-site disposal at an approved facility. Water generated from decontaminating personnel will be minimal due to the availability of disposable personal protective equipment (PPE) such as tyvek coveralls, booties, and nitrile gloves.

Following c ompletion of t he ex cavation work all ex cavation l imits will be s urveyed f or el evation an d location using a licensed New York surveyor.

#### Schedule

The IRM is tentatively scheduled for February 2012 and shall be implemented at a time that is acceptable to the owner of 254 Maspeth Avenue. The anticipated duration of field activities are as follows

- 3 days for mobilization and site preparation
- 12 days for excavation, offsite soil disposal, and backfilling
- 3 days for final grading, landscaping, and demobilization

Please note that backfilling within the perimeter wall footprint may be terminated at the design depth for the wall foundation (4.5 to 5 feet bgs) rather than backfilling to grade to facilitate Cooper Tank's subsequent construction of the perimeter wall foundation. National Grid intends to coordinate with Cooper Tank on their schedule for wall installation. Please also note that National Grid will keep the NYSDEC apprised of the final schedule and backfilling plans for completing the IRM prior to or during the work to ensure all parties are in agreement with the backfilling approach.

#### **IRM Completion Report**

Following the completion of the IRM, a report will be prepared and submitted to the NYSDEC as outlined in the Roles and Responsibilities section above. The report will include a discussion of the following:

- A discussion of the field activities performed at the property.
- A photographic record for the field activities.
- A description of changes made to the scope of work for the IRM.
- A summary of the quantity of soil removed from the property.
- A map showing the "as-built" limits of the excavation.
- A description of the site restoration activities.
- Documentation presenting information regarding the off-site transportation of soil, and the disposal facility receipts.

The IRM Completion Report will be certified by a professional engineer licensed in the State of New York.

Should you have any questions, comments, or require any additional information, please do not hesitate to contact me at (718) 963-5453, or via electronic mail at donald.campbell@us.ngrid.com.

Yours sincerely,

Donald Campbell Project Manager

Cc: A. Demarco, NYSDOH (Electronic Copy Only)

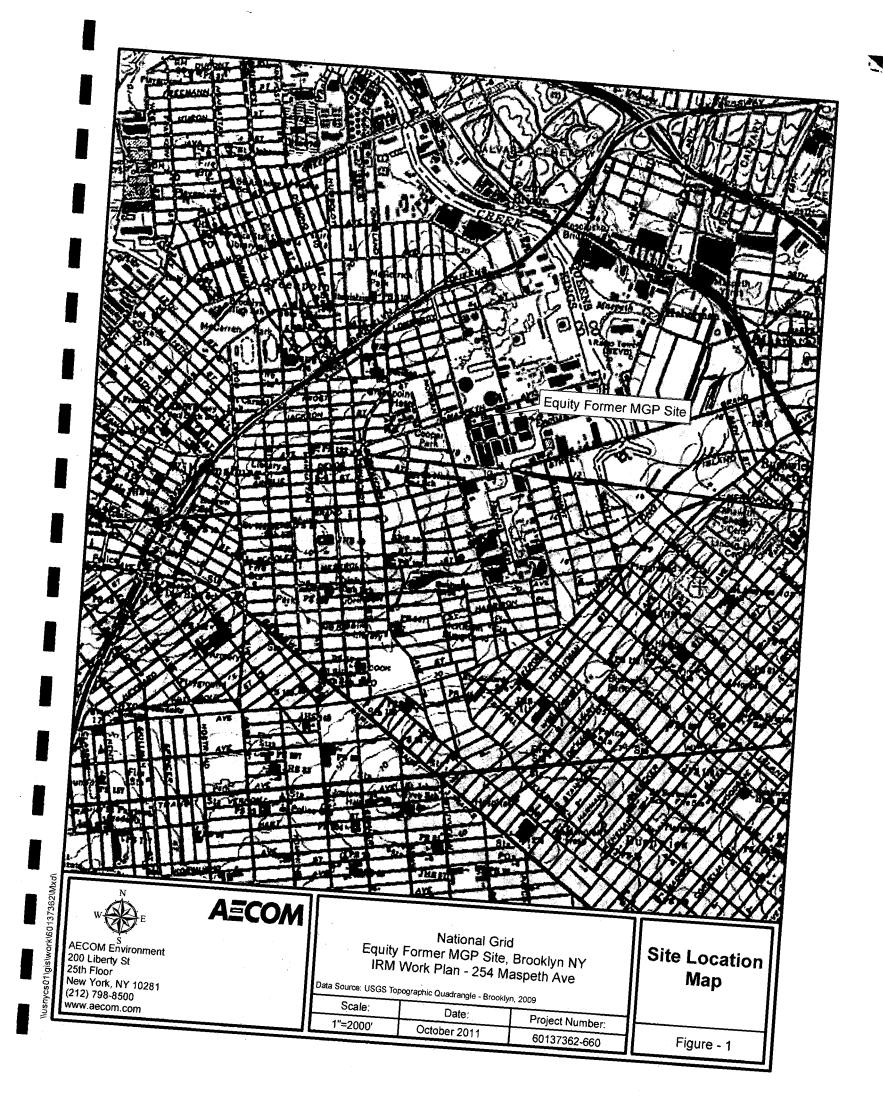
T. Bell, National Grid (Electronic Copy Only)

F. Murphy, National Grid (Electronic Copy Only)

J. Giordano, National Grid (Electronic Copy Only)

P. Cox, AECOM (Electronic Copy Only)

S. Pandya, AECOM (Electronic Copy Only)



Figures

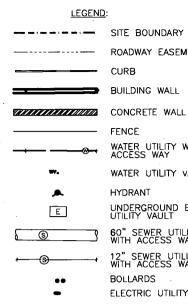
50 25 0 GRAPHIC SCALE IN FEET MASPETH AVENUE E 60" Sanitary Sewe ഭ Ð CONCRETE SIDEWALK CONCRETE SIDEWALK - B-1 SEWER DISCHARGE MANHOLE UNPAVED GATE GAIL GATE SCALE LOCKER ROOM URIFYING HOUSE OFFICES ●-PW-1 1111/10/10/10/10/10 ONC. BE 0 No.1 RELIEF HOLDER BRICK TANK (430,000 FT<sup>3</sup> CAPACITY)  $\left( \circ \right)$ FEDEX-EMPLOYEE PARKING LOT Y MARINA 3UL DRAINAGE /-Plat. Plat. BLOCK COLLECTION TAR TANK GENERATOR HOUSE CONC. ST NO./ 222 ST NO. 252 ST NO. 254 ઝ SIDE BRICK STABLE SETTLING ATERNAL BA STORY TAR SEPARATOR [[]] NG BOILER HOUSE GAS OIL STORAGE HOUSE EPARATOR AVE. PICKING LINE 2nd FLOOR No.1 No.2 254 MASPETH AVENUE --== VANDERVOORT No.3 APPROXIMAT LOCATION C MECHANICS LAYDOWN AREA FOR SCRAP STEEL, ROLL-OFFS, TRUCKS, AND TRAILERS MACHINERY AND CONVEYOR BELT OPEN LAYDOWN AREA UNDER ROOF PAVED LOT ONE STORY BRICK BUILDING ONE STORY BRICK BUILDING

NOTES: 1.) SITE FEATURES (BUILDINGS, WALLS, UTILITIES, ETC.) TAKEN FROM MONTROSE SURVEYING CO., LLC. OF RICHMOND HILL, NY. THOSE SURVEYS (MASPETH AVE 222 ON 9/21/04 AND MASPETH AVE 252 & 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING.

2.) LOCATIONS OF HISTORIC MGP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS.

3.) OFFICE BUILDING AND SCALE ON 222 MASPETH AVE. ADJUSTED FROM MONTROSE SURVEY BASED ON FIELD OBSERVATIONS. \* LOCATIONS BASED ON FIELD TIE-INS BY AECOM.

AECOM



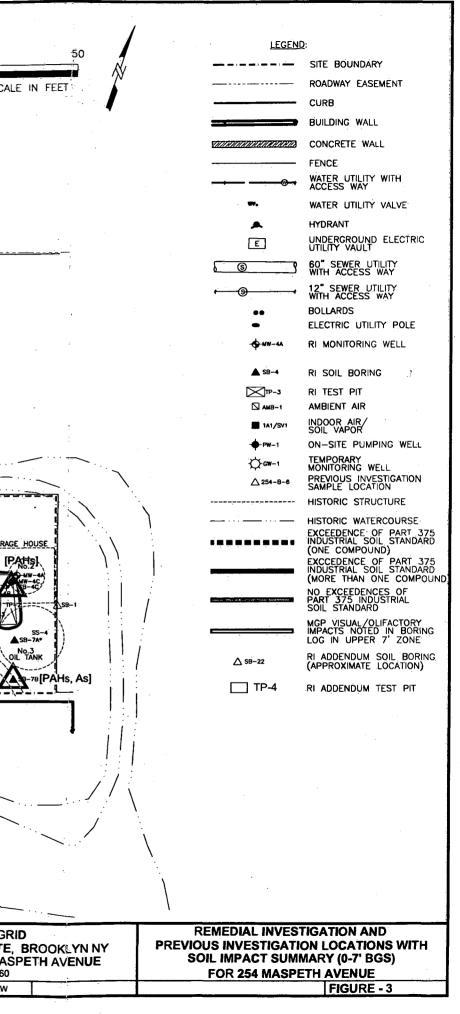
---- SITE BOUNDARY ROADWAY EASEMENT CURB BUILDING WALL FENCE WATER UTILITY WITH ACCESS WAY WATER UTILITY VALVE HYDRANT UNDERGROUND ELECTRIC 60" SEWER UTILITY WITH ACCESS WAY 12" SEWER UTILITY WITH ACCESS WAY BOLLARDS ELECTRIC UTILITY POLE -- HISTORIC STRUCTURE

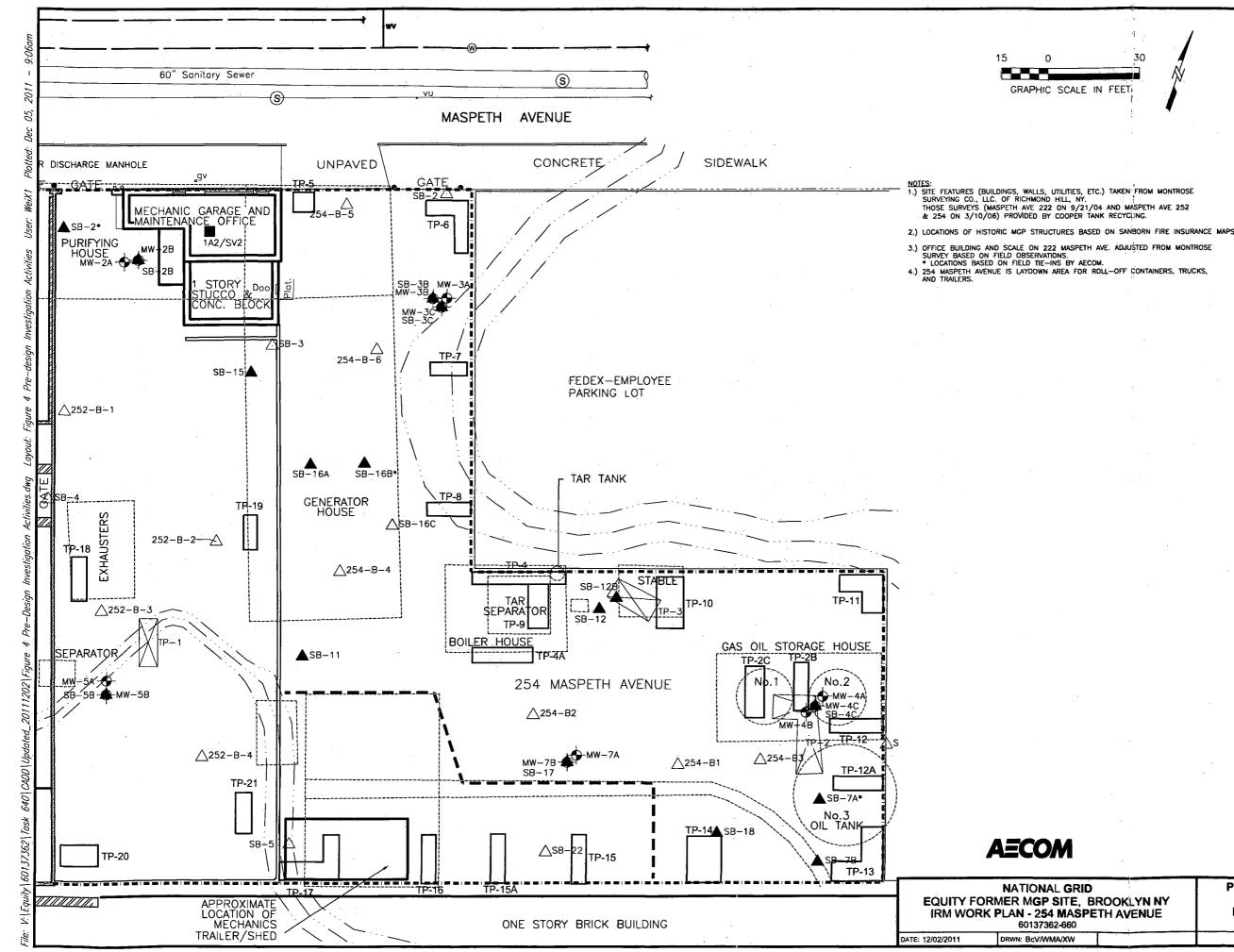
### SITE LAYOUT

FIGURE - 2

25 0 GRAPHIC SCALE IN FEET MASPETH AVENUE E :(S) Ė CONCRETE SIDEWALK SIDEWALK CONCRETE UNPAVED 8-1 SEWER DISCHARGE MANHOL GATE 1A1/SV1 LOCKER ROOM - м₩-бА - м₩-6В - SB-6В UNDERGROUND-OFFICES 2nd FLOOR -PW-1 0 No.1 RELIEF HOLDER BRICK TANK (430,000 FT<sup>3</sup> CAPACITY) FEDEX-EMPLOYEE PARKING LOT  $\bigcirc$ 252-R-111111 DRAINAGE/ **▲**\$8–8 Plat. Plot. SB-168\* [B(a)P] COLLECTION VIIII I VIIII VIIII ▲SB-13 TAR TANK ಹ GENERATOR ő Ase ₩**▲** - () SB-- 14B ∆252-B-2 (∆254 STABLE . Ж SETTLING [PAHs PD] ATERIAL BAY SEPARATOR ▲SB-9+ **Fm**-1 BOILER HOUSE ONE ▲se-11 [B(a)P] GAS OIL STORAGE HOUSE AVF. PARATOR TP.4A ICKING LINE [PAHs] SS-5 No.1 254 MASPETH AVENUE (A25) [PAHs As] <u>∆</u>252-B-4 **∆**25 VANDERVOORT A 58-74 AYDOWN AREA FOR SCRAP STEEL, ROLL-OFFS, TRUCKS, AND TRAILERS No.3 OIL TANK ♦ MW-1 58-10 APPROXIMAT <u>∆</u>se 22 MACHINERY AND CONVEYOR BELT OPEN LAYDOWN AREA \_\_\_\_ ~~~~~ PAVED LOT PROPOSED SS+1 WAS NOT COLLECTED DUE TO CONCRETE ONE STORY BRICK BUILDING ONE STORY BRICK BUILDING NOTES: 1.) SITE FEATURES (BUILDINGS, WALLS, UTILITIES, ETC.) TAKEN MONTROSE FROM SURVEYING CO., LLC. OF RICHMOND HILL, NY. THOSE SURVEYS (MASPETH AVE 222 ON 9/21/04 AND MASPETH AVE 252 & 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING. 2.) LOCATIONS OF HISTORIC MGP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS. 3.) OFFICE BUILDING AND SCALE ON 222 MASPETH AVE. ADJUSTED FROM MONTROSE SURVEY BASED ON FIELD OBSERVATIONS \* LOCATIONS BASED ON FIELD TIE-INS BY AECOM. NATIONAL GRID EQUITY FORMER MGP SITE, BROOKLYN NY IRM WORK PLAN - 254 MASPETH AVENUE 60137362-660 DRWN: BcV/WMA/XW DATE: 12/02/2011

AECOM





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NOTES: 2.) LOCATIONS OF HISTORIC MCP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS, AND HISTORIC DOCUMENTS AND FIELD OBSERVATION. 3.) LOCATION OF HISTORIC INVESTIGATION LOCATIONS BASED ON EEA INC., 2004 REPORT (254 MASPETH AVE) AND GANNETT FLEMING 2005 REPORT (252 MASPETH AVE). 4.) SITE CHARACTERIZATION INVESTIGATION LOCATIONS SURVEYED BY GEOD CONSULTING ON DECEMBER 11 AND 12, 2009. DECEMBER 11 AND 12, 2009. 5.) OFTICE BUILDING AND SCALE ON 222 MASPETH AVE. ADJUSTED FROM MONTROSE SURVEY BASED ON FIELD OBSERVATIONS. • LOCATIONS BASED ON FIELD TIE→INS BY AECOM. LEGEND: SITE BOUNDARY ROADWAY EASEMENT CURB BUILDING WALL CONCRETE WALL RHAMRANNA MANAR FENCE WATER UTILITY WITH ACCESS WAY WATER UTILITY VALVE HYDRANT à. UNDERGROUND ELECTRIC E 60" SEWER UTILITY WITH ACCESS WAY ŝ 12" SEWER UTILITY WITH ACCESS WAY BOLLARDS ELECTRIC UTILITY POLE RI MONITORING WELL - - MW-4 A \$8-4 RI SOIL BORING **RI TEST PIT** RI AMBIENT AIR RI INDOOR AIR/ 1A1/SV ON-SITE PUMPING WELL 🔶 PW-RI TEMPORARY MONITORING WELL -Ö-cw-1 THIRD PARTY INVESTIGATION SAMPLE LOCATION △ 254-8-6 HISTORIC STRUCTURE HISTORIC WATERCOURSE \_\_\_\_\_

CURRENT FEATURE

TP-5 PDI TEST PIT

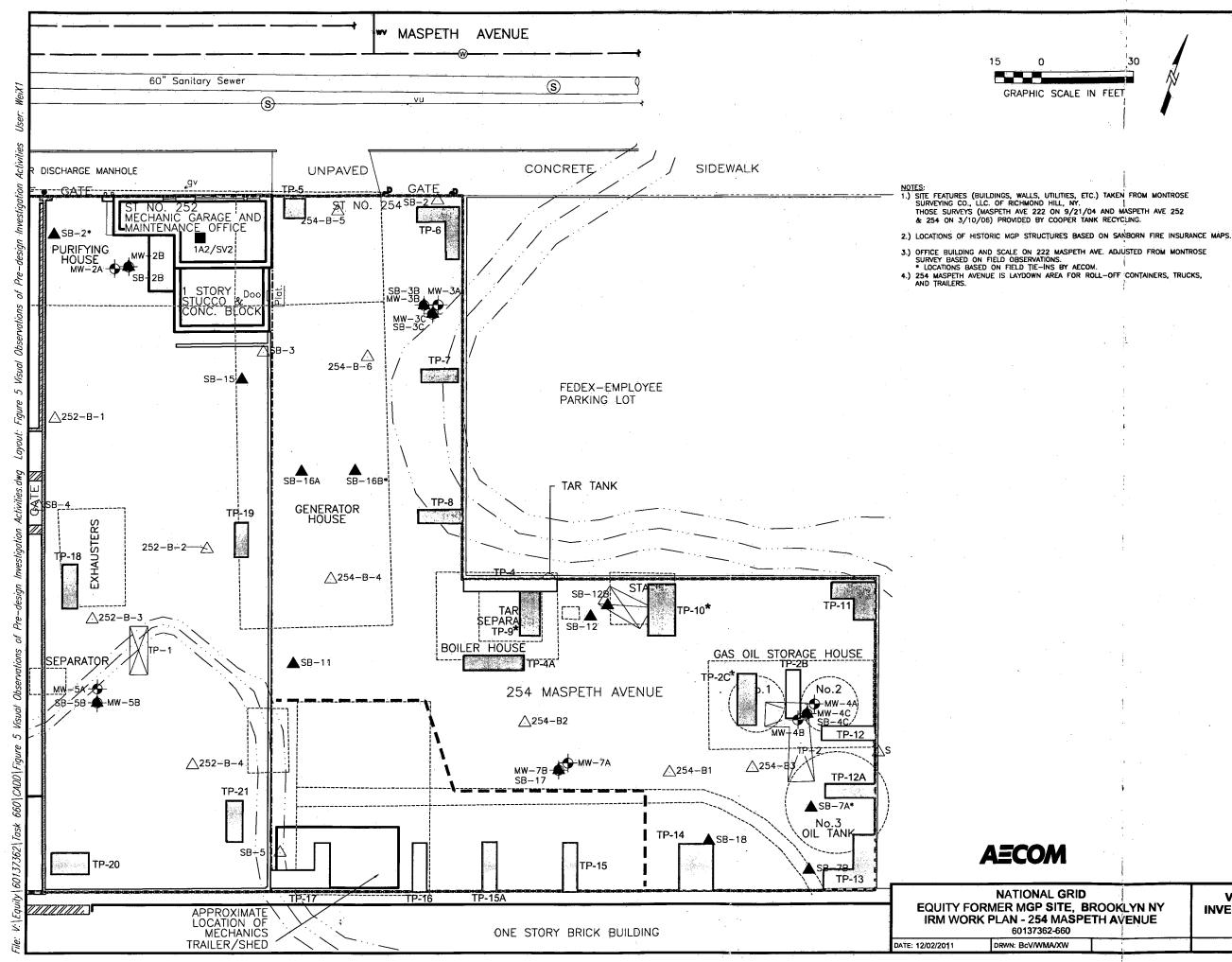
TP-4

∆ \$8-22

RI ADDENDUM TEST PIT

RI ADDENDUM SOIL BORING (APPROXIMATE LOCATION)

**PRE-DESIGN INVESTIGATION ACTIVITIES** (252 & 254 MASPETH AVENUE) AND **REMEDIAL INVESTIGATION ACTIVITIES** (254 MASPETH AVENUE) FIGURE - 4



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#### **VISUAL OBSERVATIONS - PRE-DESIGN** INVESTIGATION AND RI ADDENDUM TEST PITS 252 & 254 MASPETH AVENUE

FIGURE - 5

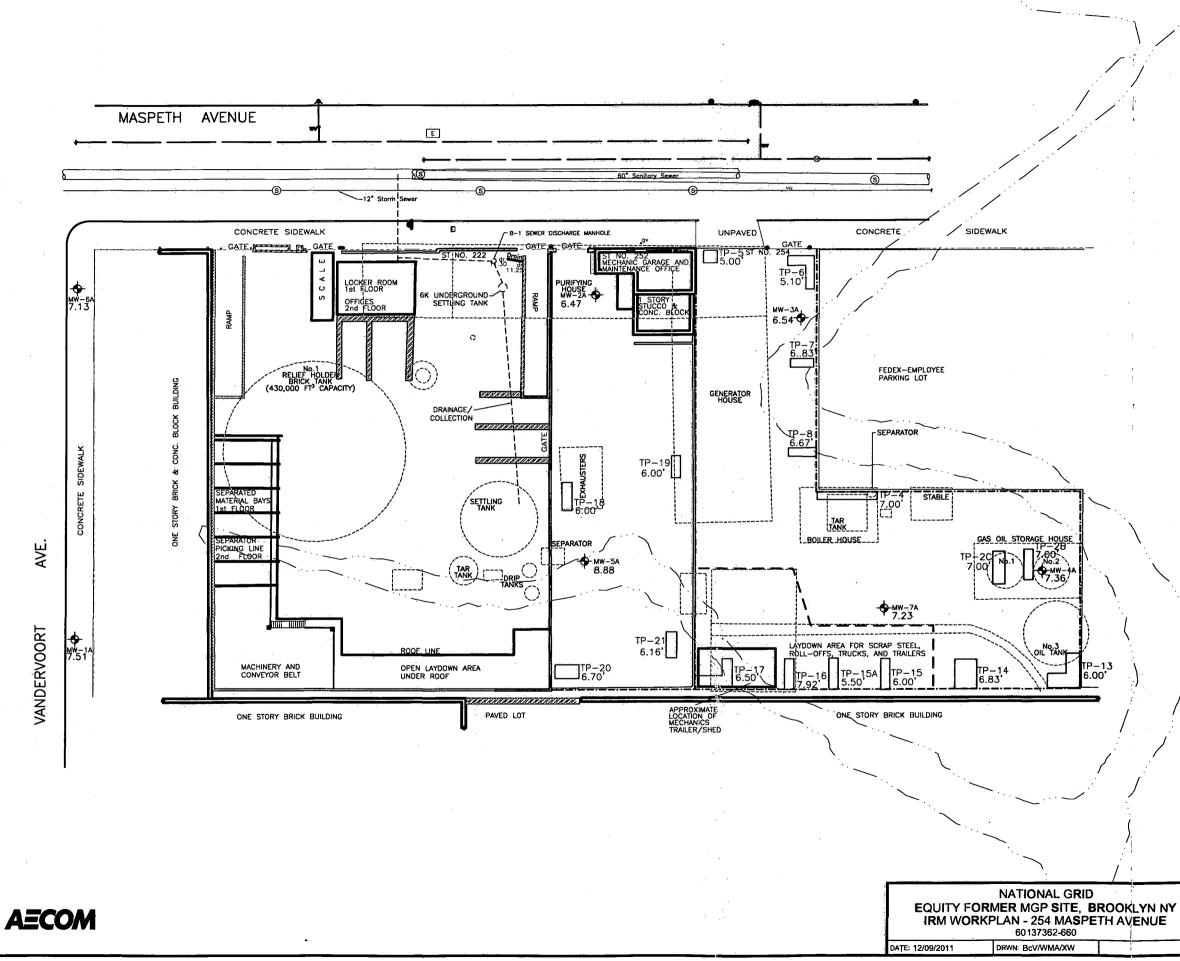
2.) LOCATIONS OF HISTORIC MGP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS, AND HISTORIC DOCUMENTS AND FIELD OBSERVATION. 3.) LOCATION OF HISTORIC INVESTIGATION LOCATIONS BASED ON EEA INC., 2004 REPORT (254 MASPETH AVE) AND GANNETT FLEMING 2005 REPORT (252 MASPETH AVE). 2005 REPORT (252 MASPETH AVE). 4.) SITE CHARACTERIZATION INVESTIGATION LOCATIONS SURVEYED BY GEOD CONSULTING ON DECEMBER 11 AND 12, 2009. 5.) OFFICE BUILDING AND SCALE ON 222 MASPETH AVE. ADJUSTED FROM MONTROSE SURVEY BASED ON FIELD OBSERVATIONS \* LOCATIONS BASED ON FIELD TIE-INS BY AECOM LEGEND: SITE BOUNDARY ..... ROADWAY EASEMENT \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ CURB BUILDING WALL TITI TA TARA A TARA A TATA CONCRETE WALL FENCE WATER UTILITY WITH ACCESS WAY WATER UTILITY VALVE HYDRANT ۶ UNDERGROUND ELECTRIC E 60" SEWER UTILITY WITH ACCESS WAY \$ 12" SEWER UTILITY WITH ACCESS WAY BOLLARDS ELECTRIC UTILITY POLE RI MONITORING WELL RI SOIL BORING RI TEST PIT **11-3** RI AMBIENT AIR RI INDOOR AIR/ 1A1/SV ON-SITE PUMPING WELL RI TEMPORARY MONITORING WELL -Ö-Ġw-1 THIRD PARTY INVESTIGATION SAMPLE LOCATION △ 254-8-6 HISTORIC STRUCTURE HISTORIC WATERCOURSE CURRENT FEATURE **TP-5** PDI TEST PIT TP-4 RI ADDENDUM TEST PIT SHEEN OBSERVED AT THE WATER TABLE TP-10\* NO VISIBLE IMPACTS EXCEPT AS NOTED VISIBLE MGP RELATED IMPACTS .

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NOTES:

NOIES: 1.) SITE FEATURES (BUILDINGS, WALLS, UTILITIES, ETC.) TAKEN MONTROSE FROM SURVEYING CO., LLC. OF RICHMOND HILL, NY. THOSE SURVEYS (MASPETH AVE 222 ON 9/21/04 AND MASPETH AVE 252 & 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING.

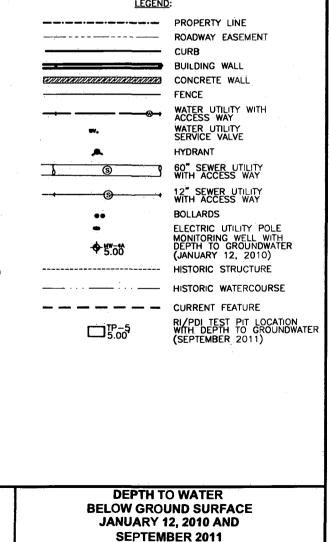
60137362



50 25 0 GRAPHIC SCALE IN FEET

NOTES: 1.) SITE FEATURES (BUILDINGS, WALLS, UTLITIES, ETC.) TAKEN MONTROSE FROM SURVEYING CO., LLC. OF RICHMOND HILL, NY. THOSE SURVEYS (MASPETH AVE 222 ON 9/21/04 AND MASPETH AVE 252 & 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING. 2.) LOCATIONS OF HISTORIC MGP STRUCTURES BASED ON SANBORN FIRE INSURANCE MAPS. 3.) LOCATION OF HISTORIC INVESTIGATION LOCATIONS BASED ON EEA INC., 2004 REPORT (254 MASPETH AVE). AND GANNETT FLEMING 2005 REPORT (252 MASPETH AVE). 4.) SITE CHARACTERIZATION INVESTIGATION LOCATIONS SURVEYED BY GEOD CONSULTING ON DECEMBER 11 AND 12, 2009. 5.) OFFICE BUILDING AND SCALE ON 222 MASPETH AVE. ADJUSTED FROM MONTROSE SURVEY BASED ON FIELD OBSERVATIONS. • LOCATIONS BASED ON FIELD TIE-INS BY AECOM.

LEGEND:



#### FIGURE - 6

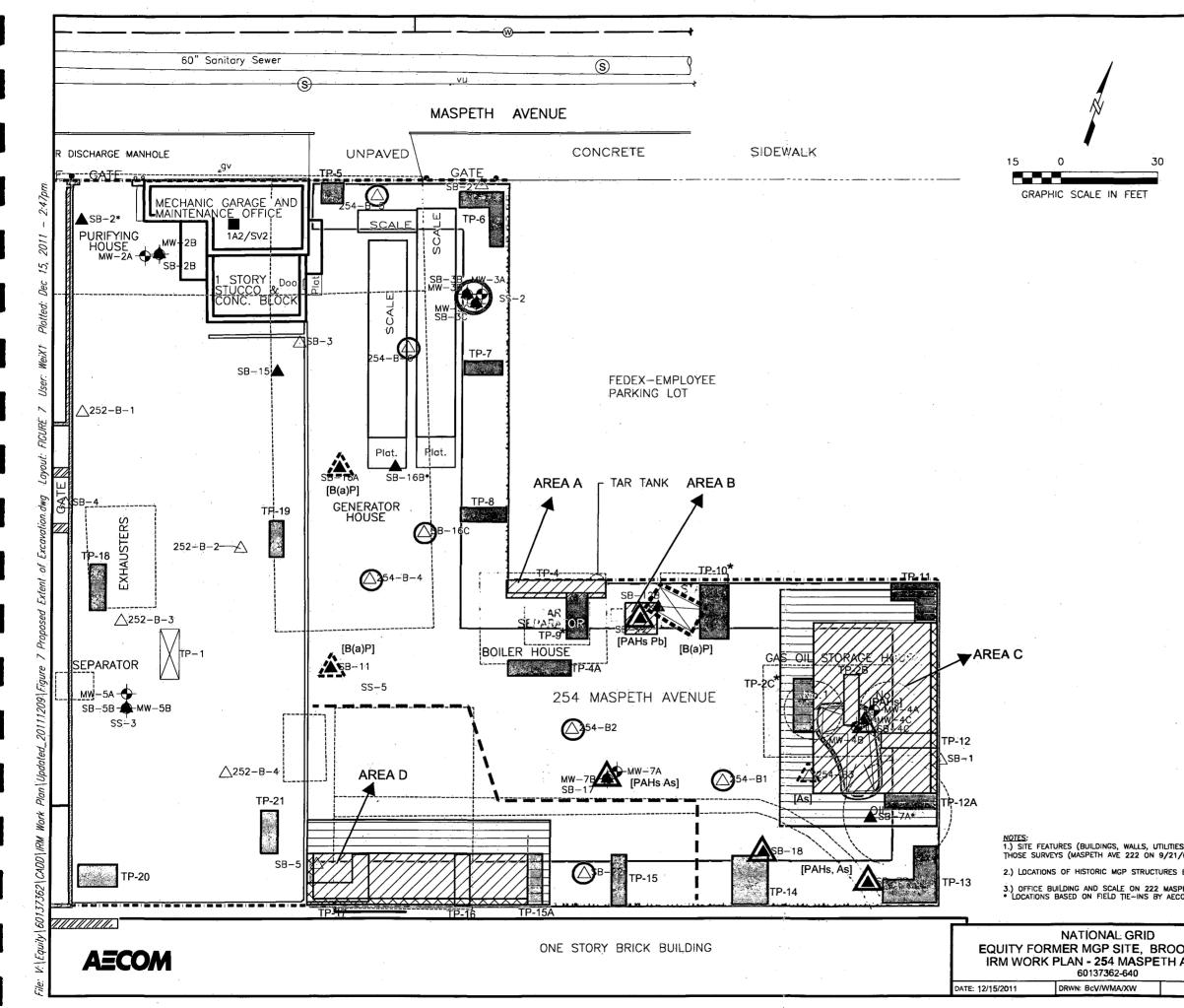


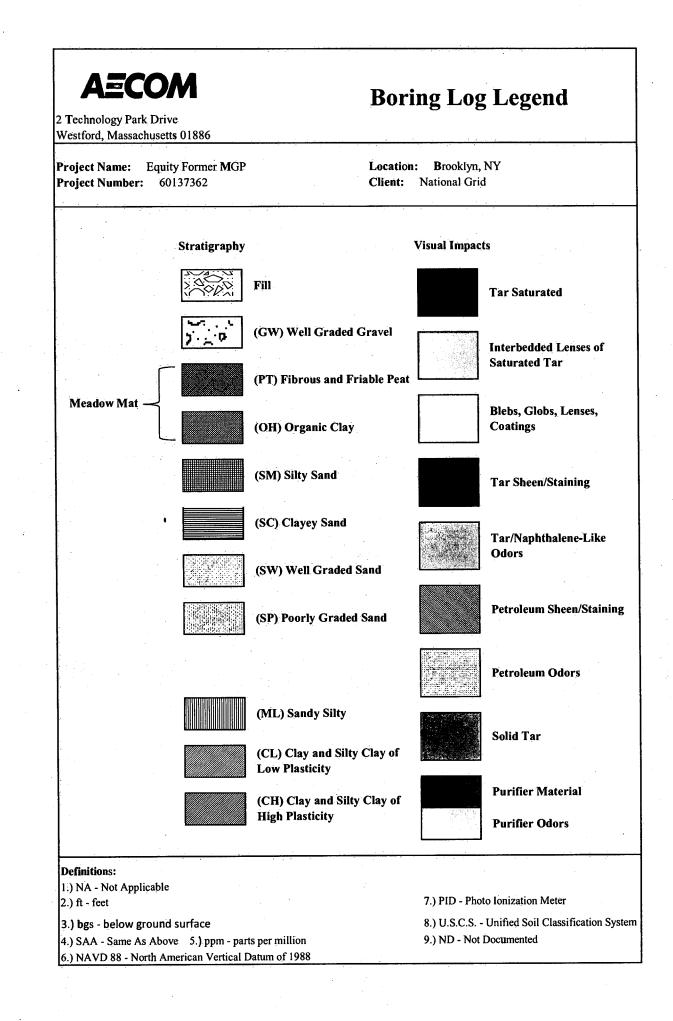
		FIGURE - 7
OKLYN NY AVENUE		PROPOSED EXTENT OF EXCAVATION 254 MASPETH AVENUE
PETH AVE. ADJUSTED F	ROM MON	NTROSE SURVEY BASED ON FIELD OBSERVATIONS.
BASED ON SANBORN I		
ES, ETC.) TAKEN MONTR	OSE FRO	M SURVEYING CO., LLC. OF RICHMOND HILL, NY. 254 ON 3/10/06) PROVIDED BY COOPER TANK RECYCLING.
<b>K</b> XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	👌 BEI	EA TO BE STRAIGHT-CUT EXCAVATED TO 5 FEET LOW GROUND SURFACE THEN TO THE GROUNDWATER BLE WITH A SLOPE OF 1H:1V
	- SH	PROXIMATE LIMITS OF AREA TO BE EXCAVATED, AS ORING SUPPORT, WITH A SLOPE OF 1H:1.5V AS APPROPRIATE
		CAVATION TO EXTEND TO THE GROUNDWATER SURFACE D WITHIN THE PERIMETER WALL FOOTPRINT TO A IMUM DEPTH OF 5 FEET BELOW GROUND SURFACE
	EXC	JUSTRIAL SOIL STANDARD VE COMPOUND) CCEDENCE OF PART 375 JUSTRIAL SOIL STANDARD DRE THAN ONE COMPOUND)
<b></b>		IBLE MGP RELATED IMPACTS
us∮ona una no nestanta den restante de la sua	EX	CEPT AS NOTED
L		LL FOOTPRINT VISIBLE IMPACTS
<b>F</b>	PR	OPOSED PERIMETER
<u>∧</u> se–22		AT THE WATER TABLE ADDENDUM SOIL BORING PPROXIMATE LOCATION)
TP-10*	r	SHEEN OBSERVED
□ ''~ □ TP-4		RI ADDENDUM TEST PIT
TP-5		HISTORIC STRUCTURE PDI TEST PIT
∆ 25	4B6	PREVIOUS INVESTIGATION SAMPLE LOCATION
φ 	V-1 N-1	TEMPORARY MONITORING WELL
-	1/5V1	INDOOR AIR/ SOIL VAPOR ON-SITE PUMPING WELL
N A4	(B1	AMBIENT AIR
		BOLLARDS ELECTRIC UTILITY POLE
<u>⊢—⊚</u> —	•	12" SEWER UTILITY WITH ACCESS WAY
	9	60" SEWER UTILITY WITH ACCESS WAY
Ē		UNDERGROUND ELECTRIC UTILITY VAULT
		HYDRANT
1. 		WATER UTILITY VALVE
		WATER UTILITY WITH ACCESS WAY
		CONCRETE WALL FENCE
·		BUILDING WALL
, 	<del></del> .	CURB
		ROADWAY EASEMENT
	I FORME	

### Attachments

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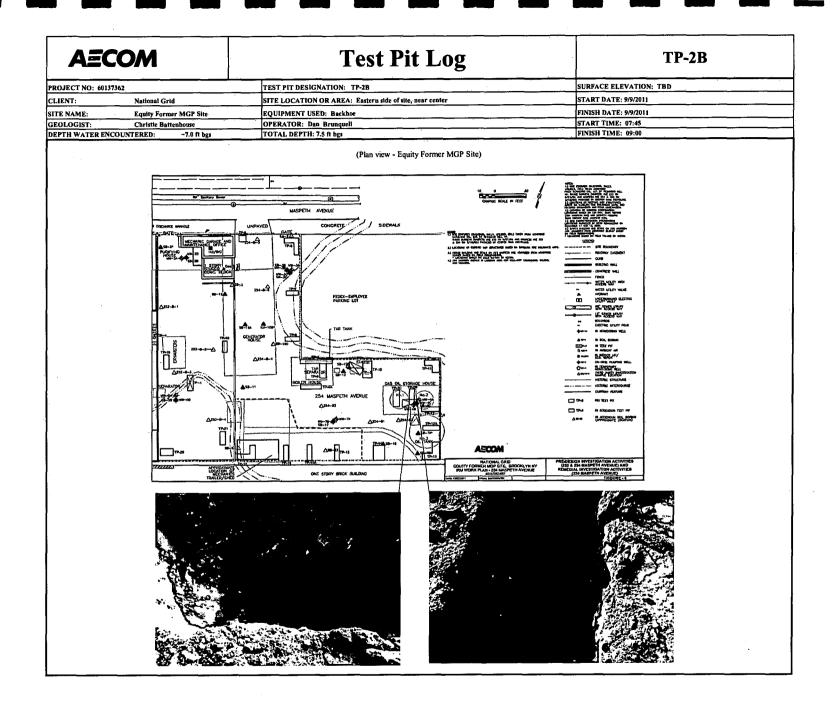
## Attachment A PDI Test Pit Logs

2

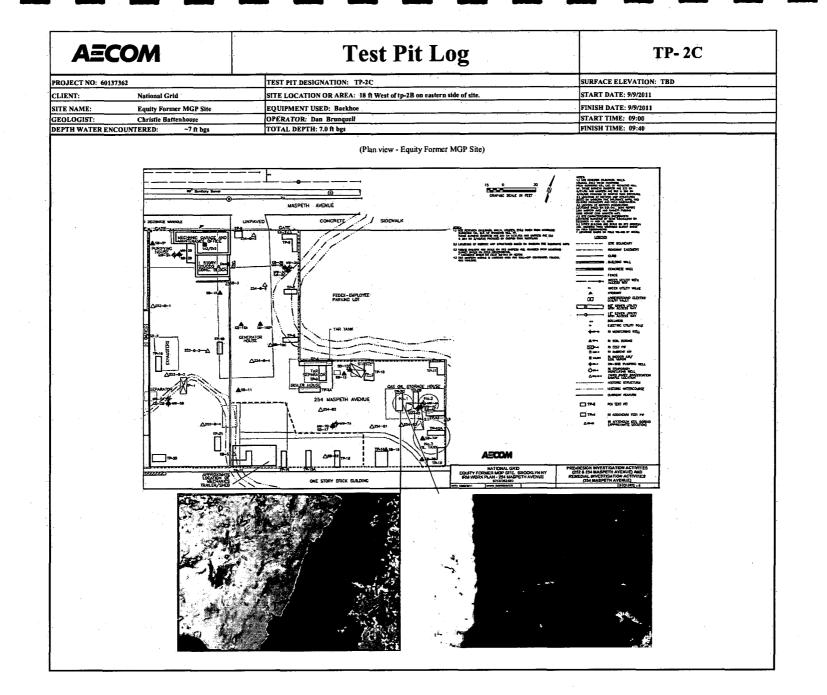


AECOM PROJECT NO: 60137362 CLIENT: National Grid SITE NAME: Equity Former MGP Site					<b>Test Pit Log</b>	TP-2B		
					TEST PIT DESIGNATION: TP-2B	SURFACE ELEVATION: TBD		
					SITE LOCATION OR AREA: Eastern side of site, near center	START DATE: 9/9/2011		
					EQUIPMENT USED: Backhoe	FINISH DATE: 9/9/2011		
GEOLOGIST:		Christie Batter			OPERATOR: Dan Brunquell	START TIME: 07:45		
DEPTH WATER			~7.0 ft bgs		TOTAL DEPTH: 7.5 R bgs	FINISH TIME: 09:00		
	VISUAL MPACTS	PID HEADSPACE	SOIL STRATIG-	SOIL CLASS	SOIL DESCRIPTION	OTRUCTURED ENGLATER PER		
(FEET)	(FEET)	(PPM)	RAPHY USCS	USCS	LOG	STRUCTURES ENCOUNTERED OR COMMENTS		
(FEET)	(PEET)	(1140)	1/4/11	FILL	0-7' SAND with bricks (fill): sand with bricks, brick layer top 2"-2' (all sides of test pit),	UK COMMENTS		
					discontinuous layers of cinder and ash on eastern and northern walls; pebbles, cobbles, boulders			
		0.0	N ACL		of rocks, bricks and concrete, glass, wood.			
			SOCO.		· · · · · · · · · · · · · · · · · · ·			
1	·		JOY K			· .		
	[		1,00		— — — — — — — — — — — — — — — — — — —			
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2								
$\vdash$	l		200					
<u> </u>		0.1						
<u> </u>		0.1	1>CON					
┝╴╻┝╸			No Cl		2'10": Layer of coal with few hardened tar balls on southern wall (~3"x20" section).			
┝── <sup>ゝ</sup> ┝─			2220		a zo i zavjer ol oour with tow nardonou tar bans on southern wan (-3 AZO SOUTOID.			
⊢			Nove al					
		0.1	2000					
—			JOY KI					
4			<u>````</u>					
			$\left  \left( O^{2} \right) \right $		4': Spots of tar seeping out (when exposed to air).			
		0.2	$\langle \overline{\langle } \rangle \rangle$					
5			200					
			LA C					
— I			> JOND					
<u> </u>		0.1						
⊢ /			2000					
6								
<u> </u>	~		N CL					
- 1		0.4						
— ·	l		NOV VOL			[		
- ,			5000					
'			102Pm		at 71 Groundwater absorbed. Strang to your strang direct like a day at water tables and bit	Collected two samples TP-2B (7-7.5)		
		12.1	<u>, 0, , , , , , , , , , , , , , , , , , </u>		at 7: Groundwater observed. Strong to very strong diesel-like odor at water table; emulsion of LNAPL (oil-like material) on groundwater (stained gloves), soil did not stain gloves; oil-like			
			KOOPXI		material primarily on water table.			
<u>83</u>	ananiinii				Test pit terminated at 7.5 ft bgs.	L		
Definitions:					rest pu teromidicu at 7.5 it bgs.			
1.) NA - Not Ap	plicable	4.) bgs - below	ground surface		7.) NAVD 88 - North American Vertical Datum of 1988			
	F		C		8.) U.S.C.S Unified Soil Classification System			

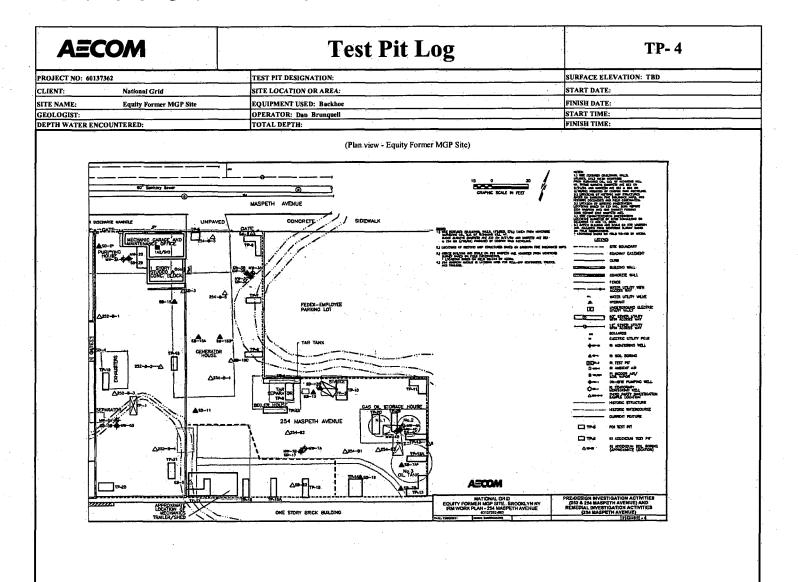
•



AECOM					<b>Test Pit Log</b>	TP-2C		
	PROJECT NO: 6	0137362		· · ·	TEST PIT DESIGNATION: TP-2C	SURFACE ELEVATION: TBD		
	CLIENT:	National G	rid		SITE LOCATION OR AREA: 18 ft West of tp-2B on eastern side of site.	START DATE: 9/9/2011		
	SITE NAME:	Equity For	mer MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/9/2011		
	GEOLOGIST:	Christie B			OPERATOR: Dan Brunquell	START TIME: 09:00		
	DEPTH WATER	ENCOUNTERED:	~7 ft bgs		TOTAL DEPTH: 7.0 ft bgs	FINISH TIME: 09:40		
4	DEPTH	VISUAL PID	SOIL	SOIL	SOIL			
•	1	MPACTS HEADSP	CE STRATIG-	CLASS	DESCRIPTION	STRUCTURES ENCOUNTERED		
		(FEET) (PPM			LOG	OR COMMENTS		
			54	FILL	0-3' SAND (fill): fine sand with pebbles/cobbles of bricks/rocks.			
					0-0.3' Northern wall, bricks/debris, concrete, cinders/ash, less debris on other walls.			
		0.0	No C	1	at 0.4': bricks on northern wall.			
		0.0	2000					
		ŀ	NO C					
	!			CONC.				
		i î		FILL	I': on southern wall, concrete structure, to bottom of wall.			
	i				1'-7': CINDERS and ASH (fill): coal cinders and ash on eastern wall.			
		0.0	KOYPA					
			$[\tilde{\chi}]$	]				
	2		_K~^>/>`					
			PAGA	1 .				
		0.1	$\beta \mathcal{O} \mathcal{O} \mathcal{O} \mathcal{O} \mathcal{O}$	4				
				j				
	3	· .		3				
				4	3-7':below brick layer, piece of historic pipe in eastern wall (not fully intact.)			
				] .				
		0.1						
	I							
		1						
	- 4		$-\langle \bigcirc \rangle$					
		•	A A O	1.				
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			[``X```C_``		6. A second sec second second sec			
	5	⊢	$-\langle \widetilde{} \rangle$					
		· •	NAN S					
		0.0		1.				
	6		$\square O $					
						No samples collected		
			$\rangle \sim 0 \rangle \rangle$					
		ND	No C					
			2000					
			102Kg		7: Groundwater observed. No staining or odors in soil; slight to very slight sheen on ground	l ·		
	· · · · · · · · · · · · · · · · · · ·			1		παιοι.		
	Definitions:				Test pit terminated at 7 ft bgs.			
	1							
	1.) NA - Not App		elow ground surface		7.) NAVD 88 - North American Vertical Datum of 1988			
	2.) ft - feet		earts per million		8.) U.S.C.S Unified Soil Classification System			
	3) SAA - Same A	As Above 6.) PID - I	hoto Ionization Met	ar -	9.) ND - Not Documented			

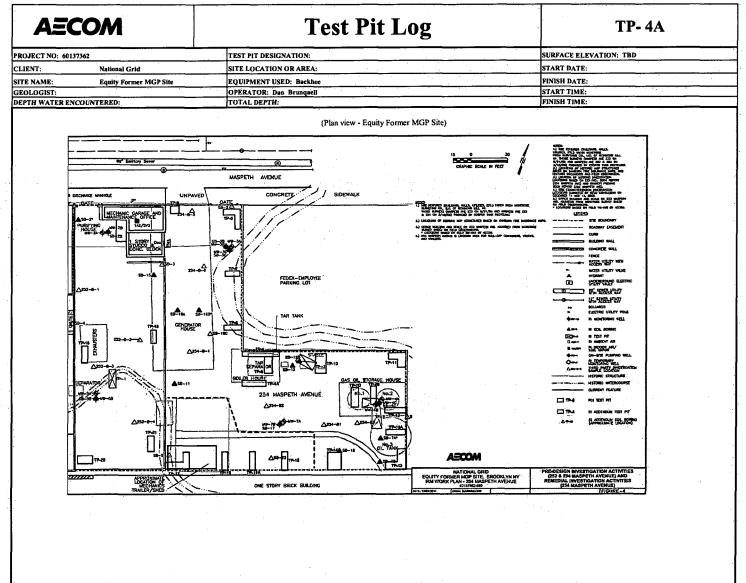


ROJECT NO: 60137362 LIENT: ITE NAME: EOLOGIST: EPTH WATER ENCOU DEPTH VISUAL IMPACTS (FEET) (FEET) - - - 1 - - 2 2	PID	7 ft bgs SOIL	SOIL CLASS USCS FILL	TEST PIT DESIGNATION: TP-4 SITE LOCATION OR AREA: 27' east of fence corner (at SW corner of FedEx parking lot) EQUIPMENT USED: Backhoe OPERATOR: Dan. Brunquell TOTAL DEPTH: 7 ft bgs SOIL DESCRIPTION LOG 0'-1.0' SAND (fill): with little silt, rocks, bricks, concrete, and glass; coal cinders and ash	SURFACE ELEVATION: TBD START DATE: 99/11 FINISH DATE: 99/11 START TIME: 1135 FINISH TIME: 1500 STRUCTURES ENCOUNTERED OR COMMENTS
LIENT; ITE NAME: EOLOGIST: EPTH WATER ENCOU DEPTH VISUAL IMPACTS	Equity Former C. Battenhouse NTERED: PID HEADSPACE (PPM) 0.0	7 ft bgs SOIL STRATIG-	CLASS USCS	SITE LOCATION OR AREA: 27 east of fence corner (at SW corner of FedEx parking lot) EQUIPMENT USED: Backhoe OPERATOR: Dan Brunquell TOTAL DEPTH: 7 ft bgs SOIL DESCRIPTION LOG	START DATE: 9/9/11 FINISH DATE: 9/9/11 START TIME: 1135 FINISH TIME: 1500 STRUCTURES ENCOUNTERED
EOLOGIST: EPTH WATER ENCOU DEPTH VISUAL IMPACTS	C. Battenhouse NTERED: PID HEADSPACE (PPM) 0.0	7 ft bgs SOIL STRATIG-	CLASS USCS	OPERATOR: Dan Brunquell TOTAL DEPTH: 7 ft bgs SOIL DESCRIPTION LOG	START TIME: 1135 FINISH TIME: 1500 STRUCTURES ENCOUNTERED
EPTH WATER ENCOU DEPTH VISUAL IMPACTS	NTERED: PID HEADSPACE (PPM) 0.0	7 ft bgs SOIL STRATIG-	CLASS USCS	TOTAL DEPTH: 7 ft bgs SOIL DESCRIPTION LOG	FINISH TIME: 1500 STRUCTURES ENCOUNTERED
DEPTH VISUAL IMPACTS	PID HEADSPACE (PPM) 0.0	SOIL STRATIG-	CLASS USCS	SOIL DESCRIPTION LOG	STRUCTURES ENCOUNTERED
IMPACTS	HEADSPACE (PPM) 0.0	STRATIG-	CLASS USCS	DESCRIPTION LOG	
	(PPM) 0.0	4 4	USCS	ĹOG	
(FEET) (FEET) 	0.0				OR COMMENTS
- 1 - 1 			FILL	0'-1.0' SAND (fill): with little silt, rocks, bricks, concrete, and glass; coal cinders and ash	
- - - - - - - - 2					
1 1 1 2		10°00 2000 2000			
1 1 2	0.0	2000 2000 2000			
1 2	0.0	JOA CO			
	0.0			1': ~ 6" to 1' concrete layer from ~ 5' to 25' east of fence corner (possible bldg foundation or	
- - - 2	0.0	1		northern portion of wall of tar separator)	1': structure evident: concrete with wood supports at ~25
- - 2	0.0	122000			to 27' east of fence corner (possible remnants of tar tank)
2		D Jo Cal	-		
2		50,00			
2		10 Vài	-		
200 A 10 10 10 10 10 10 10 10 10 10 10 10 10					
- 6		12 CODY		2-4': coal cinders and ash layer; few hardened tar pieces	4': structure ends,
-					
- 1993	1.0	12 0 X X X			
-		NOY A			
<sup>3</sup>	<u>.</u>				
_		1 AVX			
- Ballata					
_ &	2.0	12000			
_ 5/ 6/		N CI			
4		12 0 C D			
		NO PÀ	· · ·		
T					
	2.0	12 - COV			
-		Nº N			·
- 5		2000			· · · · · · · · · · · · · · · · · · ·
		1 Ox Val			
-	5	,00,			
-	4.0	$\langle  \rangle \rangle \rangle \rangle$			
-	1				
		2000			
<u> </u>					
- 1	1	2220		~ 6.9.7". LNAPL seeping out on groundwater at bottom of test pit: strong to very strong	
-  .	161.6	JOY N			
	101.5	<u>, ~</u> , _			Collected sample: TP-4 (6.5-7)
- ' '		$\langle  \rangle \rangle$	÷ .		
7 <i>\                                </i>	Ø				
				Test pit terminated at 7.25 ft bgs.	
efinitions:					
	× ·				
) ft - feet				8.) U.S.C.S Unified Soil Classification System	
)	NA - Not Applicable ft - feet	5 4.0 4.0 161.5 7 7 8 161.5 7 8 161.5 7 8 161.5 1 161.5 1 161.5 1 161.5	f     f       f     f	filitons: NA - Not Applicable 4.) bgs - below ground surface	<ul> <li>6</li> <li>6</li> <li>6</li> <li>161.5</li> <li>7</li> <li>7</li> <li>6.9-7: LNAPL sceping out on groundwater at bottom of test pit; strong to very strong HCLO (diesel-like) odor; OLM evident in soil (stained gloves when collecting sample).</li> <li>7.0: groundwater observed. Test pit terminated at 7.25 ft bgs.</li> <li>7.1) NAVD 88 - North American Vertical Datum of 1988.</li> <li>8.1) U.S.C.S Unified Soil Classification System</li> </ul>



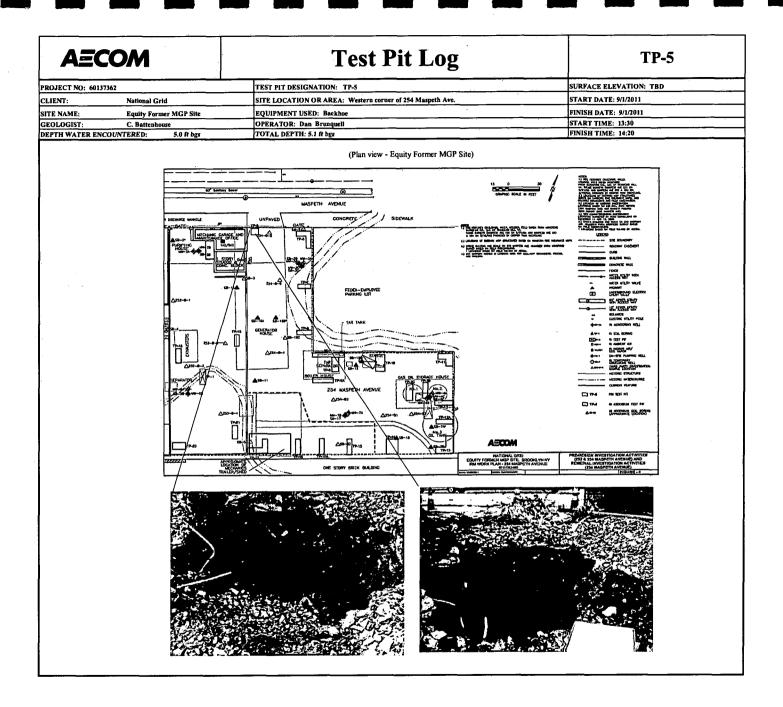
.

A	ECO	M		•	Test Pit Log	TP-4A
ROJECT NO	0: 60137362				TEST PIT DESIGNATION: TP-4A	SURFACE ELEVATION: TBD
LIENT:		ational Grid			SITE LOCATION OR AREA: 254 Maspeth Ave. 20' south of fence, 5' east of corner	START DATE: 9/9/11
TE NAME:	E	quity Former N	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/9/11
EOLOGIST	: <b>C</b>	. Battenhouse			OPERATOR: Dan Brunquell	START TIME: 1345
EPTH WAT	ER ENCOUNTE		4.5 ft bgs		TOTAL DEPTH: 4.5 ft bgs	FINISH TIME: 1640
DEPTH	VISUAL	PID	SOIL	SOIL	SOIL	
	IMPACTS H	IEADSPACE	STRATIG-	CLASS	DESCRIPTION	STRUCTURES ENCOUNTERED
(FEET)	(FEET)	(PPM)	RAPHY USCS	USCS	LOG	OR COMMENTS
1 1 2 2 3 3 3		ND ND ND		· · · · · · · · · · · · · · · · · · ·	No geological information available.	I': concrete footing/structure at corner of test pit.
- - 5						
- - 6						
- - 7		-			· ·	
efinitions: ) NA - Not ) ft - feet ) SAA - Sar		) ppm - parts p			7.) NAVD 88 - North American Vertical Datum of 1988 8.) U.S.C.S Unified Soil Classification System 9.) ND - Not Documented	

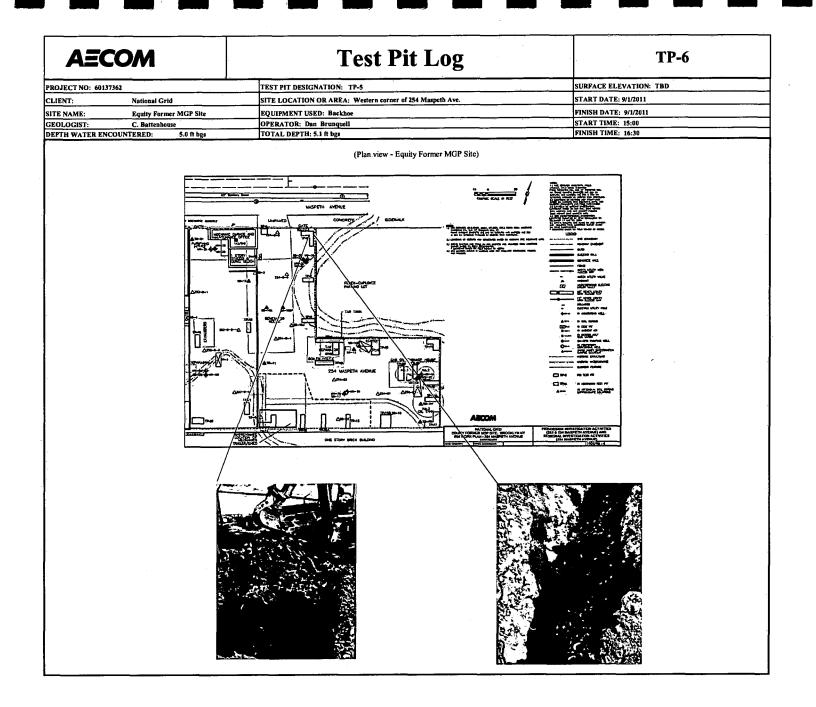


A	ECC		•		<b>Test Pit Log</b>	TP-5	
PROJECT N	D: 60137362				TEST PIT DESIGNATION: TP-5	SURFACE ELEVATION: TBD	
CLIENT:		National Grid			SITE LOCATION OR AREA: Western corner of 254 Maspeth Ave.	START DATE: 9/1/2011	
SITE NAME		Equity Former	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/1/2011	
GEOLOGIS	ſ:	C. Battenhouse			OPERATOR: Dan Brunquell	START TIME: 13:30	
DEPTH WAT	ER ENCOUN	TERED:	5.0 ft bgs		TOTAL DEPTH: 5.1 ft bgs	FINISH TIME: 14:20	
DEPTH	VISUAL	PID	SOIL	SOIL	SOIL	· · · · · · · · · · · · · · · · · · ·	
•	IMPACTS	HEADSPACE		CLASS	DESCRIPTION	STRUCTURES ENCOUNTERED	
(FEET)	(FEET)	(PPM)	RAPHY USCS	USCS	LOG	OR COMMENTS	
(FEET)	(FEET)			FILL	0-5.4' FILL: brick, concrete, gravel, glass, slag, wood pieces (pebble to cobble sized), dry, no od		
<u> </u>			2000		10-5.4 TILLS. UNICK, CONSIGN, BLAVER, BLASS, SIAB, WOOD PICCES (PEDDIE 10 CODDIE SIZCH), CHY, NO OD	I.	
· ·	NA	0.0	SOSPX				
·	117	0.0					
			2000				
<sup>1</sup>	<u>.</u>		N CL				
<u> </u>						1.0-5.0' (on Northern wall): brick foundation	
			$\langle \bigcirc ? \rangle \rangle$		· · · · · · · · · · · · · · · · · · ·		
-	NA	·0.0					
		1	22220	. •			
2		· ·	YOM A				
			N CL				
. <u>-</u>			$\sim \sim \sim \sim$				
·	NA	0.0	$(\bigcirc P_{\lambda})$			-	
						н	
<u>}.</u> _	· ·		$\mathcal{D} = \mathcal{D}$				
→ <sup>3</sup>		· · · ·	5000				
<u> </u>			KO PX				
L	NA	0.0	$\sum_{n=1}^{\infty} \sum_{n=1}^{\infty} \sum_{i=1}^{\infty} \sum_{n=1}^{\infty} \sum_{i=1}^{\infty} \sum_{i$			1.	
L							
4			PAON				
			$\mathbb{O}_{\mathbb{A}}^{\mathbb{A}}$		Larger, boulder-sized pieces of concrete/rock.		
						l ·	
<u> </u>	NA	0.0	(  )			1. · ·	
<u> </u>							
			$\land \land $		5.0': Groundwater observed, moist to wet at bottom.		
- <sup>™</sup>		<u> </u>	$(\bigcirc \mathcal{V})$		D. Crownewater ubserved, moist to wer at uotion.		
		·					
						l'	
⊢ .							
6		ļ	4			-	
L.							
Ľ.						1	
L						1	
·	· · .		· · · ·			1	
7							
	•				Test pit terminated at 5.4 ft bgs.	••••••••••••••••••••••••••••••••••••••	
Definitions:						······································	
1.) NA - Not	Annlicable	4.) bgs - below	ground surface	-	7.) NAVD 88 - North American Vertical Datum of 1988		
1	reprications .		-		•		
2.) ft - feet		5.) ppm - parts			8.) U.S.C.S Unified Soil Classification System		
(3.) SAA - Sa	me As Above	<ol> <li>PID - Photo</li> </ol>	Ionization Meter				

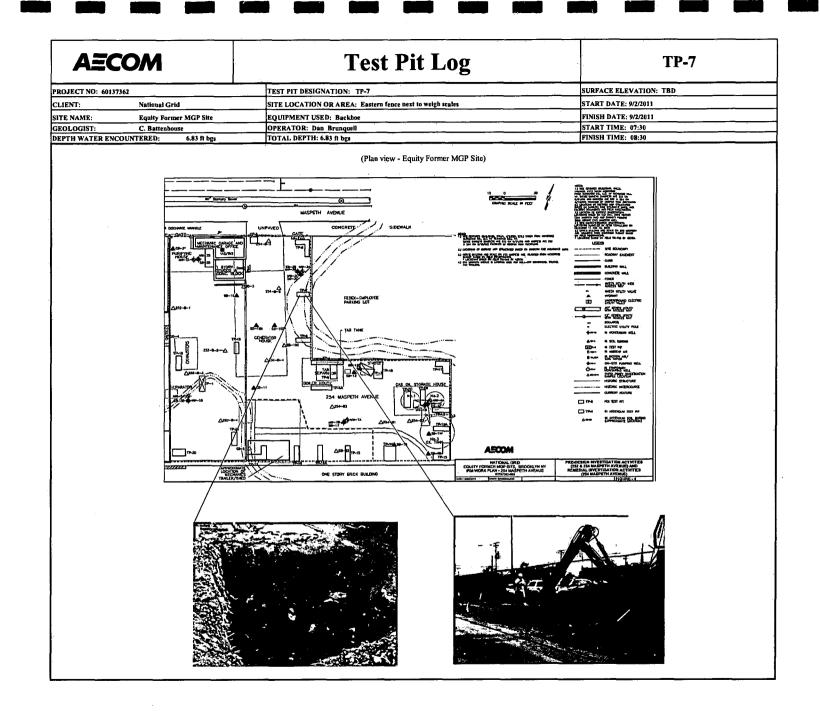
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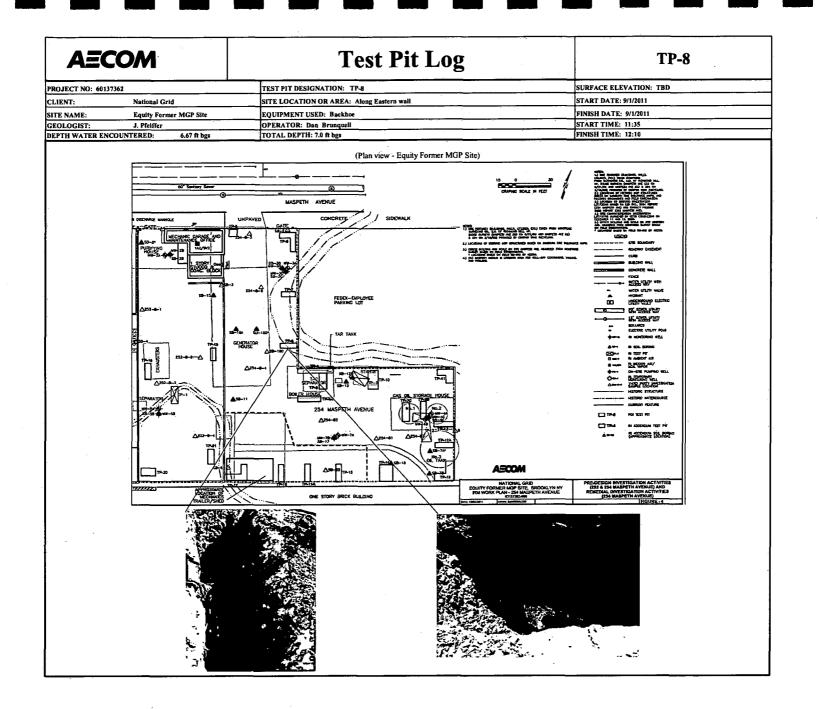
AEC	DM	•		Test Pit Log	TP-6
ROJECT NO: 6013736	2			TEST PIT DESIGNATION: TP-6	SURFACE ELEVATION: TBD
LIENT:	National Grid			SITE LOCATION OR AREA: Entrance gate to 254 Maspeth Ave	START DATE: 9/1/2011
TE NAME:	Equity Former	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/1/2011
EOLOGIST:	C. Battenhouse			OPERATOR: Dan Brunquell	START TIME: 15:00
EPTH WATER ENCO		5.0 ft bgs		TOTAL DEPTH: 5.33 ft bgs	FINISH TIME: 16:30
DEPTH VISUAL IMPACT		SOIL	SOIL	SOIL	
(FEET) (FEET)	S HEADSPACE (PPM)	STRATIG- RAPHY USCS	CLASS USCS	DESCRIPTION	STRUCTURES ENCOUNTERED OR COMMENTS
1 1 2 2 2 3	0.0 0.0 0.0 0.0 0.0 0.0 ND		FILL	<ul> <li>0-5.5' FILL: cobbles, bricks, glass, concrete, wood, cinders, (coal) ash, roofing material (possibly ACM) or old flooring, pebble to boulder sized pieces of concrete/rock, no odor or staining, dry, moist to wet at bottom.</li> <li>Larger (boulder-sized pieces of rock/concrete at 4.5 ft bgs).</li> <li>Larger (boulder-sized pieces of rock/concrete at 4.5 ft bgs).</li> <li>Assumed roofing material/old flooring observed at 5.0 ft bgs (along northern side) -possible ACM, not observed on eastern Side. Apparent/suspected brick layer at bottom, bucket not able to get through.</li> <li>5.1': Groundwater observed (eastern side) and 5.33' (northern side).</li> </ul>	2.0-5.0': bricks on northern side no apparent structure. Collected sample TP-6 (3.5-4.5') from area of coal ash/cinders (on eastern side of test pit) Brick layer suspected at 5.0 ft bgs
- 7 fluitions: ) NA - Not Applicable ) ft - feet	4.) bgs - below 5.) ppm - parts			Test pit terminated at 5.5 ft bgs. 7.) NAVD 88 - North American Vertical Datum of 1988 8.) U.S.C.S Unified Soil Classification System	<u> </u>



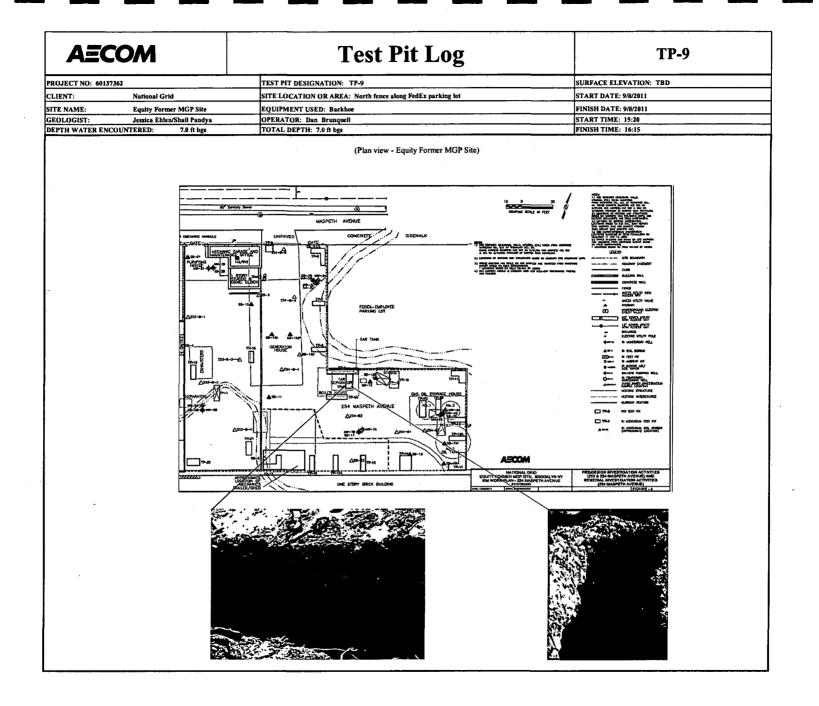
	A	ECO	M			<b>Test Pit Log</b>	<b>TP-7</b>	
PROJ	ECT NO	: 60137362	·			TEST PIT DESIGNATION: TP-7	SURFACE ELEVATION: TBD	
CLIE	NT:		National Grid			SITE LOCATION OR AREA: Eastern fence next to weigh scales	START DATE: 9/2/2011	
SITE	NAME:		Equity Former	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/2/2011	
	OGIST:		Christie Batten		<u> </u>	OPERATOR: Dan Brunqueli	START TIME: 07:30	
		ER ENCOUNT	1	6.83 ft bgs	-	TOTAL DEPTH: 6.83 ft bgs	FINISH TIME: 08:30	
DE	ртн	VISUAL	PID	SOIL	SOIL	SOIL		
		IMPACTS	HEADSPACE		CLASS'	DESCRIPTION	STRUCTURES ENCOUNTERED	
. (F)	EET)	(FEET)	(PPM)		USCS	LOG	OR COMMENTS	
				$\overline{\langle}$	FILL	0-4' SAND (fill); sand and pieces of concrete, boulder sized rocks, brick pieces (pebble to		
<u> </u>	ŀ			$\langle \overline{\frown} \rangle \rangle \rangle$		cobble sized), <20%slag/ash, black/brown color, dry, no odors or staining.		
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				$\langle \bigcirc P \rangle$	.*			
Г	3							
	- 1			> COND		3': fewer of the larger, boulder-sized pieces, moist.		
•				N CL			1	
			ND	$> 0 \sim 0$				
				$\nabla V_{n}$				
	4	· .	1	<u>_</u>			· · · · · · · · · · · · · · · · · · ·	
	-			$( \frown \ \ )$		4-6.83' SAND (fill): sand, moist, gravels, pieces of bricks, slag, ash, few boulders, reddish-black-	brown color.	
			ND					
	5			$\rangle \land \checkmark \land \lor$			°	
<u> </u>	- "[			NO VI				
				$\sqrt{2}$				
$\vdash$			ND	<u></u>				
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⊢				$V_{A}^{\star}$				
		· .	ND	$\sqrt{2}$				
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				<u>کر *م~ح</u>		6.83': wet, groundwater observed seeping into test pit.		
	7						l <u></u>	
		,,				Test pit terminated at 6.83 ft bgs.		
	tions:							
			4.) bgs - below			7.) NAVD 88 - North American Vertical Datum of 1988		
2.) ft	<ul> <li>feet</li> </ul>		5.) ppm - parts	per million		8.) U.S.C.S Unified Soil Classification System		



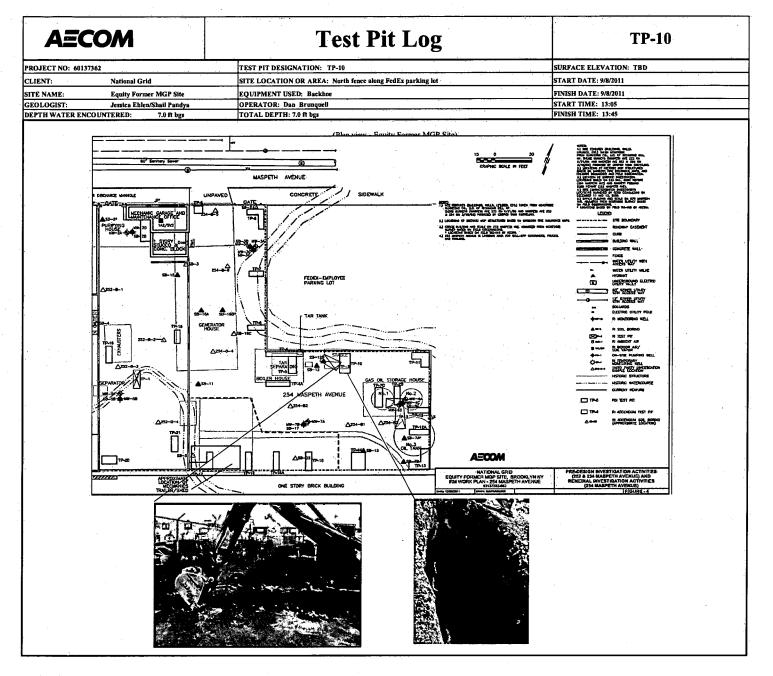
	ECO	M			<b>Test Pit Log</b>	TP-8
PROJECT N	D: 60137362				TEST PIT DESIGNATION: TP-8	SURFACE ELEVATION: TBD
CLIENT:		National Grid			SITE LOCATION OR AREA: Along Eastern wall	START DATE: 9/1/2011
SITE NAME:		Equity Former	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/1/2011
GEOLOGIST	': 'ER ENCOUN	J. Pfeiffer			OPERATOR: Dan Brunquell	START TIME: 11:35
DEPTH WAL	VISUAL	PID	6.67 ft bgs SOIL	SOIL	TOTAL DEPTH: 7.0 ft bgs SOIL	FINISH TIME: 12:10
DEFT	IMPACTS	HEADSPACE		CLASS	DESCRIPTION	STRUCTURES ENCOUNTER
(FEET)	(FEET)	(PPM)	RAPHY USCS	USCS	LOG	OR COMMENTS
	· · · · · /			FILL	0.0-7.0' SAND and GRAVEL (fill): sand and gravel, fill with large and small boulders, cobbles	
			> <u>~~~</u> ~		throughtout, slag pieces - largest is 1' in diameter, dry, brick bits and whole throughout 4"	
		0.0	N POR		diameter pipe (fill) 3' length present, brown and black color.	
			2000			
1			N CC			
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			NOY N			
		0:0	زيم کر			
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²						4
· • • •			$\langle \langle \langle \rangle \rangle$			
<u> </u>		0.0				
		0.0			2.7': Black coal, looks and feels like purnice rock. No odors, no visible impacts 1 ft thick lense	
- ·		'	N & C		across test pit.	
⊢ '			> A A A			
	e 1		SON O			· .
		0.0	2000			
			JO2P N			
4			5 0.O.T.			
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			<u>,                                    </u>			1
		0.0	$\langle  \rangle \rangle \rangle$			
<u> </u>						
5			$\langle \dot{\neg} \rangle \rangle$		4.9': Slag, black, no odor, no visible impacts, 1 ft thick across test pit.	
$\vdash$						
$\vdash$		0.0	> COND			
		0.0	N CL		· ·	-
· [ ]			2 A A A A A A A			
°			N CL			
		0.0				Collected Sample TP-8 (6.4-6.7)
					6.67': Groundwater observed.	No sheen on water.
						· · · · · · · · · · · · · · · · · · ·
7					· · · · · · · · · · · · · · · · · · ·	
					Test pit terminated at 7.0 ft bgs.	· · · · · · · · · · · · · · · · · · ·
Definitions:						
1.) NA - Not	Applicable	4.) bgs - below	-		7.) NAVD 88 - North American Vertical Datum of 1988	
2.) ft - feet		5.) ppm - parts			8.) U.S.C.S Unified Soil Classification System	
(3.) SAA - Sa	me As Above	6.) PID - Photo	Ionization Meter	r		



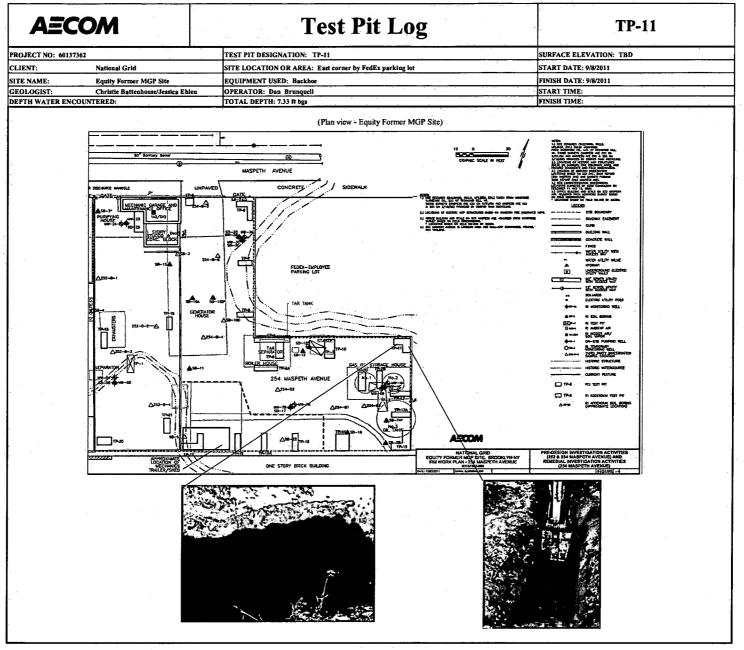
AECO	M			<b>Test Pit Log</b>	TP-9
ROJECT NO: 60137362				TEST PIT DESIGNATION: TP-9	SURFACE ELEVATION: TBD
LIENT:	National Grid			SITE LOCATION OR AREA: North fence along FedEx parking tot	START DATE: 9/8/2011
	Equity Former			EQUIPMENT USED: Backhoe	FINISH DATE: 9/8/2011
	S. Pandya, J. El			OPERATOR: Dan Brunquell	START TIME: 15:20
EPTH WATER ENCOUNT		7.0 ft bgs		TOTAL DEPTH: 7.0 ft bgs	FINISH TIME: 16:15
DEPTH VISUAL	PID	SOIL	SOIL	SOIL	
IMPACTS	HEADSPACE	STRATIG-	CLASS	DESCRIPTION	STRUCTURES ENCOUNTERED
(FEET) (FEET)	(PPM)	RAPHY USCS	USCS Fill	LOG 0-2' SAND (fill): sand, brick, pebbles, cobbles, concrete, light brown color.	OR COMMENTS
1 1 2 2 2 3 3 3 3	ND 0.3 0.3			2'-4': Black stained, weathered coal fragments throughout on north, south, east, west walls, no odors, no visible or olfactory impacts observed/detected, bricks observed in layers.	
	0.3			4-7: cinder blocks, 1.8' lense of bricks, and .35' lense of cobbles, fine sand, little silt, brown.	
6   7	1.8				
				Test pit terminated at 7.0 ft bgs.	



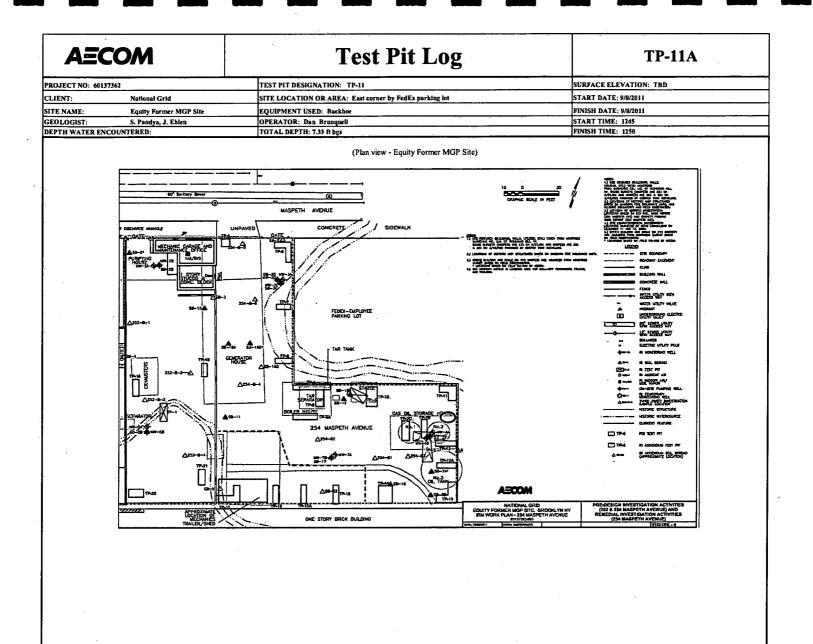
CEED       OPECT       OPPMIN       RAPPY USC       USCS       LOC       OR COMMENTS         I       ND       Image: Solution of the state of the sta		ECC	M			<b>Test Pit Log</b>	TP-10		
NUE     Notional Crist     STE LOCATION OR AREA: North Series along FeEE parking int     STE ANALE     Rest Data       GENODOSTIS     Prophys. Lower     Parking Lower     STR ANALE     Rest DUITATION INC.       DEFTS WATER KONDUTEERS:     POPSA LOWER     POPSA LOWER     PROVIDE TO PARK     PROVIDE TO PARK       DEFTS WATER KONDUTEERS:     POPSA LOWER     STRUCTURES Deake     PROVIDE TO PARK     PROVIDE TO PARK       DEFTS WATER KONDUTEERS:     TOTAL DEFTIS: 70.8 kgs     POPSA LOWER     PROVIDE TO PARK     PROVIDE TO PARK       DEFTS WATER KONDUTEERS:     TOTAL DEFTIS: 70.8 kgs     TOTAL DEFTIS: 70.8 kgs     PROVIDE TO PARK     PROVIDE TO PARK       OPEN     OPEN     OPEN     TOTAL DEFTIS: 70.8 kgs     PROVIDE TO PARK     PROVIDE TO PARK     PROVIDE TO PARK       OPEN     OPEN     OPEN     TOTAL DEFTIS: 70.8 kgs     PROVIDE TO PARK     PROVIDE TO PARK     PROVIDE TO PARK	PROJECT N	0: 60137362			i	TEST PIT DESIGNATION: TP-10			
CECLOLOGY:     Networks / Lobe     OPEA/TOR: Dos Brouged     START TWE: 1981       DEFTM     VTSNAL     FID     5 Abg:     TOTAL DEFTM: 78 Big     PRIMIT TORE: 10.465       DEFTM     VTSNAL     FID     SOIL     SOIL     SOIL     SOIL       DEFT     VTSNAL     FID     SOIL     CLAS     DESCRIPTION     STRUCTURES DECIDIN       OPED     OPED     OPED     AMAPY USG     LOS     DESCRIPTION     STRUCTURES DECIDIN       DESCRIPTION     OPED     AMAPY USG     LOS     DESCRIPTION     STRUCTURES DECIDIN       DESCRIPTION     ND     DESCRIPTION     LOS     DESCRIPTION     OR COMMENTS       ND     ND     FILL     PLISAND (fB): and with -10% silt, obbles, bricks, no odors, no visual impacts.     PLISAND (fB): and with -10% silt, -40% cobbles stones up to 1° in diameter, bricks, no odor, no visual impacts.       ND     ND     PLISAND     PLISAND     PLISAND       ND     ND			National Grid						
DEFERSION     70 Rag     FOTAL DEFERSION     SOL       0027111     VIANA     HEADSPACE     STRUTC:     CLASS       01270     01270     01270     01270     SOL     DESCRUPTION       01270     01270     01270     01270     SOL     DESCRUPTION       01270     01270     01270     01270     SOL     DESCRUPTION       01270     01270     01270     01270     DESCRUPTION     STRUCTURES ENCONNOC       01270     01270     01270     01270     DESCRUPTION     STRUCTURES ENCONNOC       01270     01270     01270     01270     DESCRUPTION     DESCRUPTION       01270     01270     01270     01270     DESCRUPTION     DESCRUPTION <td>SITE NAME:</td> <td>:</td> <td>Equity Former</td> <td>MGP Site</td> <td></td> <td>EQUIPMENT USED: Backhoe</td> <td>FINISH DATE: 9/8/2011</td>	SITE NAME:	:	Equity Former	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/8/2011		
DETTH     VISUAL     FID     SOL     SOL     SOL       ORED     OPEN     OPEN     RAMU USC     USC     LOC       ORED     OPEN     OPEN     RAMU USC     USC     LOC       Image: Control of the state of t	GEOLOGIST	r:	S. Pandya, J. E	hlen		OPERATOR: Dan Brunquell	START TIME: 13:05		
DFACTS         ELABSFACT         STRUTUS         CLASS         DESCRIPTION         THUCTURES EXCOUNTION           UPEN         OPEN	DEPTH WAT	FER ENCOUN	TERED:	7.0 ft bgs		TOTAL DEPTH: 7.0 R bgs	FINISH TIME: 13:45		
CEED       OP EFT       OP 9990       RAHY USC       USC       LOC       OR COMMENTS         I       I       I       I       I       III.       IIII.       III.       III.	DEPTH	-							
PILL       0-1' SAND (fill): and with -10% silt, cobbles, bricks, no odors, no visual impacts.         ND       ND         ND							STRUCTURES ENCOUNTER		
ND       ND	(FEET)	(FEET)	(PPM)				OR COMMENTS		
Image: Second	Ŀ				FILL	0-1' SAND (fill): sand with ~10% silt, cobbles, bricks, no odors, no visual impacts.			
Image: Second		·		12×00					
ND       ND       odor, no visual impacts.         ND       odor, no visual impacts.       odor, no visual impacts.         ND       odor, no visual impacts.       odor, no visual impacts.         ND       odor, no visual impacts.       odor, no visual impacts.         ND       odor, no visual impacts.       odor, no visual impacts.         Odor, no visual impacts.       odor, no visual impacts.       odor, no visual impacts.         S       ND       odor, no visual impacts.       odor, no visual impacts.         Odor, no visual impacts.       odor, no visual impacts.       odor, no visual impacts.         Particular stription       no visual impacts.       odor, no visual impacts.         Particular stription       no visual impacts. </td <td></td> <td></td> <td>ND</td> <td></td> <td>l</td> <td></td> <td></td>			ND		l				
ND       Odor, no visual impacts.         S       ND         J       Odor, no visual impacts.         6       Odor, no visual impacts.         7       Tet pit terminated at 7.0.8 bgs.         Defaultions:       1) No. Not Applicable       4) bgs. below ground surface         1) NA. Not Applicable       4) bgs. below ground surface       7) NAVD 88 - North American Vertical Datum of 1988	L			NAC S	ľ				
ND       Odor, no visual impacts.         S       ND         J       Odor, no visual impacts.         6       Odor, no visual impacts.         7       Tet pit terminated at 7.0.8 bgs.         Defaultions:       1) No. Not Applicable       4) bgs. below ground surface         1) NA. Not Applicable       4) bgs. below ground surface       7) NAVD 88 - North American Vertical Datum of 1988	1			JOY K	1				
ND       Odor, no visual impacts.         ND       Odor, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed.         Test pit terminated at 7.0 ft bgs.         Definitions:       1) NA- Not Applicable       4, bgs - below ground surface         1) NA- Not Applicable       4, bgs - below ground surface       7) NAVD 88 - North American Verical Datum of 1988				<u></u>		11-7': SAND (fill): sand with ~10% silt. ~40% cobbles stones up to 1" in diameter bricks no			
ND       ND         S       ND         S       ND         ND       ND         S       ND         ND       ND         S       ND         S       ND         S       ND         S       ND         S       ND				$\langle \overline{\langle } \rangle \rangle$					
ND         ND         ND         ND         ND         S         ND         S         ND         S         ND         S         ND         S         S         ND         S         S         ND         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S <td></td> <td>ŀ .</td> <td>ND</td> <td></td> <td> </td> <td></td> <td></td>		ŀ .	ND						
ND         ND         ND         ND         ND         S         ND         S         ND         S         ND         S         ND         S         S         ND         S         S         ND         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S <td></td> <td>1.</td> <td></td> <td>12,20,00</td> <td> </td> <td></td> <td></td>		1.		12,20,00					
3       ND         4       ND         5       ND         6       0.1000         6       0.1000         7       Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed.         Test pit terminated at 7.0 ft bgs.         Pefinitions:         1) MA - Not Applicable       4.) bgs - below ground surface       7.) NAVD 88 - North American Vertical Datum of 1988	· · · 2			N. KOL					
For the staining of the staining of the staining to sheen on groundwater, no mgp related/tar-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed.	ī	1		5.000	ľ.				
Formation in the second surface in the second surface in the second s				KOSP &					
Formations: 1) NA - Not Applicable 4) bgs - below ground surface 7) NAVD 88 - North American Vertical Datum of 1988	-		ND				· •		
Performance of the second s	-								
Definitions: 1) NA - Not Applicable 4) bgs - below ground surface 7) NAVD 88 - North American Vertical Datum of 1988	⊢,								
6-7: Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed.									
6-7: Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed.				10XX					
6-7: Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed.			ND	<u>َرْحَہ ً ا</u>					
6-7: Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed.			ND	12 COV			•		
6-7: Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed.	<b>—</b>		1						
6-7: Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed.	4			2000					
6-7: Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed.				NOV CL					
s       ND         6       3.2         7       Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed.         1.) NA - Not Applicable       4.) bgs - below ground surface         7.) NAVD 88 - North American Vertical Datum of 1988				2000	-				
6-7: Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed. Test pit terminated at 7.0 ft bgs. Definitions: 1.) NA - Not Applicable 4.) bgs - below ground surface 7.) NAVD 88 - North American Vertical Datum of 1988			ND	$\left \left( \bigcirc \mathcal{P}_{\mathcal{A}} \right) \right $					
6-7: Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed. Test pit terminated at 7.0 ft bgs. Definitions: 1.) NA - Not Applicable 4.) bgs - below ground surface 7.) NAVD 88 - North American Vertical Datum of 1988			1						
6-7: Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed. Test pit terminated at 7.0 ft bgs. Definitions: 1.) NA - Not Applicable 4.) bgs - below ground surface 7.) NAVD 88 - North American Vertical Datum of 1988	5	·		12 AON		<u>}</u>			
6-7: Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-llike material impacts observed. Test pit terminated at 7.0 ft bgs. Definitions: 1.) NA - Not Applicable 4.) bgs - below ground surface 7.) NAVD 88 - North American Vertical Datum of 1988									
6-7: Black staining, no to very slight petroleum-like odors. Unknown staining to sheen on groundwater, no mgp related/tar-like material impacts observed. Test pit terminated at 7.0 ft bgs. Definitions: 1.) NA - Not Applicable 4.) bgs - below ground surface 7.) NAVD 88 - North American Vertical Datum of 1988	$\vdash$			1×2000			1		
3.2       3.2         7       7         Test pit terminated at 7.0 ft bgs.         Definitions:         1.) NA - Not Applicable       4.) bgs - below ground surface         7.) NAVD 88 - North American Vertical Datum of 1988	<b></b>		ND	De CL		1			
3.2       3.2         7       7         Test pit terminated at 7.0 ft bgs.         Definitions:         1.) NA - Not Applicable       4.) bgs - below ground surface         7.) NAVD 88 - North American Vertical Datum of 1988	<u> </u>			2000					
3.2       3.2         7       7         groundwater, no mgp related/tar-like material impacts observed.         Test pit terminated at 7.0 ft bgs.         Definitions:         1.) NA - Not Applicable       4.) bgs - below ground surface         7.) NAVD 88 - North American Vertical Datum of 1988	6			JOY N			1.		
3.2       3.2         7       7         Test pit terminated at 7.0 ft bgs.         Definitions:         1.) NA - Not Applicable       4.) bgs - below ground surface         7.) NAVD 88 - North American Vertical Datum of 1988	·			<u>, 00, </u>					
7       Test pit terminated at 7.0 ft bgs.         Definitions:       1.) NA - Not Applicable         1.) NA - Not Applicable       4.) bgs - below ground surface         7.) NAVD 88 - North American Vertical Datum of 1988				KOPPA		groundwater, no mgp related/tar-llike material impacts observed.			
Definitions: 1.) NA - Not Applicable 4.) bgs - below ground surface 7.) NAVD 88 - North American Vertical Datum of 1988			3.2						
Definitions: 1.) NA - Not Applicable 4.) bgs - below ground surface 7.) NAVD 88 - North American Vertical Datum of 1988				2000		•	·		
Definitions: 1.) NA - Not Applicable 4.) bgs - below ground surface 7.) NAVD 88 - North American Vertical Datum of 1988	. 7								
1.) NA - Not Applicable 4.) bgs - below ground surface 7.) NAVD 88 - North American Vertical Datum of 1988						Test pit terminated at 7.0 ft bgs.			
	i i								
2.) ft - feet 5.) ppm - parts per million 8.) U.S.C.S Unified Soil Classification System		Applicable	4.) bgs - below	ground surface					
	2.) ft - feet		5.) ppm - parts	per million		8.) U.S.C.S Unified Soil Classification System			
3.) SAA - Same As Above 6.) PID - Photo Ionization Meter 9.) ND - Not Docmented	3.) SAA - Sa	me As Above	6.) PID - Phote	o Ionization Mete	<b>x</b>	9.) ND - Not Docmented			



A	<u>=</u> CO	M			<b>Test Pit Log</b>	TP-11
ROJECT N	O: 60137362		I		TEST PIT DESIGNATION: TP-11	SURFACE ELEVATION: TBD
LIENT:		National Grid			SITE LOCATION OR AREA: East corner by FedEx parking lot	START DATE: 9/8/2011
ITE NAME:		Equity Former	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/8/2011
EOLOGIST			house/Jessica Ehl	en	OPERATOR: Dan Brunquell	START TIME:
	FER ENCOUNT				TOTAL DEPTH: 7.33 ft bgs	FINISH TIME:
DEPTH	VISUAL	PID	SOIL	SOIL	SOIL	
<b>DL</b> 1111	IMPACTS	HEADSPACE	STRATIG-	CLASS	DESCRIPTION	STRUCTURES ENCOUNTERED
(DE D.T.)	1				· · · · · · · · · · · · · · · · · · ·	
(FEET)	(FEET)	(PPM)	RAPHY USCS	USCS	LOG 0-7.33': SAND (fill): sand with pebbles, cobbles, bricks, concrete, brown, no odors or visual imp	OR COMMENTS
		0.0				3.5-5 <sup>°</sup> ; brick layer observed in east to west direction test 3.5-4 <sup>°</sup> ; brick layer observed in north to south direction to
		0.0				
0  7	· .	0.0			6-6.68': north to south direction test pit: layer of slag, cinders and ash observed on north wall	Collected sample TP-11 (6-6.63')
· · · ·					Test pit terminated at 7.33 ft bgs.	······································
efinitions:			,		rost pre tornimation at 7.55 ft 0gs.	·····
	Applicable	<ol> <li>bgs - below</li> <li>ppm - parts</li> </ol>			<ol> <li>NAVD 88 - North American Vertical Datum of 1988</li> <li>U.S.C.S Unified Soil Classification System</li> </ol>	



	ΞCO	M		1	<b>Test Pit Log</b>	TP-11A	
PROJECT N	O: 60137362				TEST PIT DESIGNATION: TP-11	SURFACE ELEVATION: TBD	
CLIENT:		National Grid	· · · · ·		SITE LOCATION OR AREA: East corner by FedEx parking lot	START DATE: 9/8/2011	
SITE NAME		Equity Former			EQUIPMENT USED: Backhoe	FINISH DATE: 9/8/2011	
GEOLOGIS	T: FER ENCOUN	S. Pandya/J. El	hlen		OPERATOR: Dan Brunquell TOTAL DEPTH: 1.0 ft bgs	START TIME: 1245 FINISH TIME: 1250	
DEPTH	VISUAL	PID	SOIL	SOIL	SOIL	PRANK TIME, 150	
	IMPACTS	HEADSPACE		CLASS	DESCRIPTION	STRUCTURES ENCOUNTERED	
(FEET)	(FEET)	(PPM)	RAPHY USCS	USCS	LOG	OR COMMENTS	
						(TP-11A is 13.0' between southern edge of TP-1	
		-	1000			direction and TP-12).	
<u> </u>	- 	0.0	30000		0.5-1.0': observe solid tar pieces.		
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	,						
					Test pit terminated at 1.0 ft bgs.		



A	ECO	M			<b>Test Pit Log</b>	TP-12
PROJECT NO	): 60137362				TEST PIT DESIGNATION: TP-12	SURFACE ELEVATION: TBD
CLIENT:		National Grid			SITE LOCATION OR AREA: eastern edge of site; center of eastern fenceline	START DATE: 9/6/11
SITE NAME:		Equity Former	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/6/11
GEOLOGIST		C. Battenhouse			OPERATOR: Dan Brunquell	START TIME: 1445
	ER ENCOUN		not encountered		TOTAL DEPTH: 5.0 ft bgs	FINISH TIME: 1545
DEPTH	VISUAL	PID	SOIL	SOIL	SOIL	
DEFIN	IMPACTS	HEADSPACE		CLASS	DESCRIPTION	STRUCTURES ENCOUNTE
(FEET)	(FEET)	(PPM)	RAPHY USCS	USCS		OR COMMENTS
_				FILL	0-5' SAND (fill): sand with <20% silt, bricks, and rocks.	
_			$\langle \dot{\sim} \rangle \rangle$			
		ND	D. all		0.5': heavily tar-coated to tar-saturated lense on western wall to (minimum of) 4.75' on eastern	•
			5000		wall; soil appeared to be unimpacted under shallow lense on western wall (~0.5 to 2' bgs);	
- 1			KOŶŔĂ		impacts appear to continue down to bottom on the eastern wall.	
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			2000			
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-		ND	$\overline{\mathbf{a}}$			
- :			$2 \sim 0 \sim$			
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4	İ					
			KOPA			Collected sample TP-12 (4-5)
<del></del>			[ <u>3</u> 0,			
-		ND	KOPPX			
-						
-		· ·	KAODY	· · ·		
5				<b> </b> ;	Test pit terminated due to very strong odor.	
_						1
						1
-				1		}
- ,		-				
°			1			
<u> </u>						
- ,						
/		<u> </u>	L		Let nit terminated at S.O. ft bas	
Definitions:					Test pit terminated at 5.0 ft bgs.	
	Ampliachte	4 ) han	mound and a		7 MAVD 99 - North American Victical Datum of 1099	
I.) NA - Not	Applicable		ground surface		7.) NAVD 88 - North American Vertical Datum of 1988	
2.) ft - feet		5.) ppm - parts			8.) U.S.C.S Unified Soil Classification System	
3.) SAA - Sa					9.) ND - Not Documented	

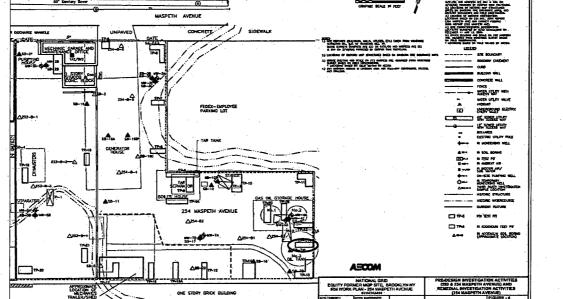
AECOM	<b>Test Pit Log</b>	TP- 12
PROJECT NO: 60137362	TEST PIT DESIGNATION: TP-12	SURFACE ELEVATION: TBD
CLIENT: National Grid	SITE LOCATION OR AREA: eastern edge of site; center of eastern fencetine	START DATE: 9/6/11
SITE NAME: Equity Former MGP Site	EQUIPMENT USED: Backhoe	FINISH DATE: 9/6/11
GEOLOGIST: C. Battenhouse DEPTH WATER ENCOUNTERED: not encountered	OPERATOR: Dan Brunquell TOTAL DEPTH: 5.0 ft bgs	START TIME: 1445 FINISH TIME: 1545
10 <sup>-1</sup> Lutary Tao	(Plan view - Equity Former MGP Site)	
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	254 MASPETH ANDRUE Alter 254 MASPETH ANDRUE Alter 254 MASPETH ANDRUE Alter 254 MASPETH ANDRUE Alter 254 MASPETH ANDRUE 254 MASPETH ANDRUE	

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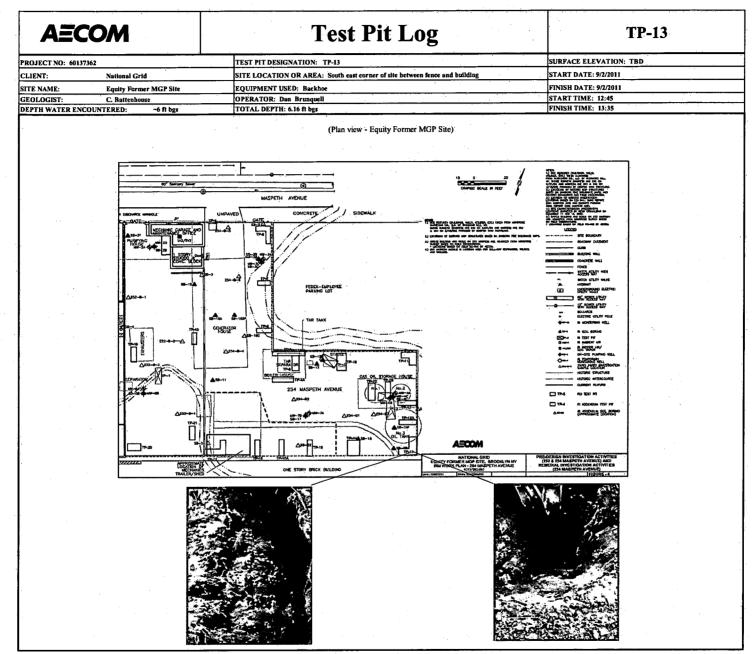
A	ECO	M	· · · ·		<b>Test Pit Log</b>	<b>TP-12A</b>
ROJECT NO	D: 60137362				TEST PIT DESIGNATION: TP-12A	SURFACE ELEVATION: TBD
LIENT:		National Grid			SITE LOCATION OR AREA: south-eastward out from NW corner of N-S portion of TP-13	START DATE: 9/8/11
TE NAME:	· · · .	Equity Former	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/8/11
EOLOGIST		C. Battenhouse		÷	OPERATOR: Dan Brunquell	START TIME: 0850
	ER ENCOUNT		not encountered		TOTAL DEPTH: 5 ft bgs	FINISH TIME: 0930
DEPTH	VISUAL	PID	SOIL	SOIL	SOIL	
	IMPACTS	HEADSPACE	STRATIG-	CLASS	DESCRIPTION	STRUCTURES ENCOUNTERED
(FEET)						
(FEEI)	(FEET)	(PPM)	RAPHY USCS	USCS	LOG	OR COMMENTS
- - - 1		ND			0-5' SAND (fill): sand with mostly bricks, < 20% silt; dry to moist. Observed on all four walls of test pit; brick layer at 0.4' to approximately 3' bgs; bricks on bottom of test pit at 5' bgs. Excavator bucket unable to advance through this layer. No visual impacts or odor observed. TP-12A: ~19 fi south of TP-12. Impacts observed at approximately 0.5 ft bgs. Moved location approximately 7 ft further south and same impacts observed (sand saturated with tar at	
- - - 2		ND	2000 2000 2000 2000 2000 2000 2000 200		approximately 0.5 ft bgs. Moved another approximately 7 ft further south intersecting with the western end of TP-13.	
.3		ND				•
4		ND				
5		ND	0000 0000 0000 0000			Collected sample TP-12A
6						
7						
		····· ,			Test pit terminated at 5.0 ft bgs.	
ft - feet	Applicable me As Above	<ol> <li>4.) bgs - below</li> <li>5.) ppm - parts</li> <li>6.) PID - Photo</li> </ol>			<ul> <li>7.) NAVD 88 - North American Vertical Datum of 1988</li> <li>8.) U.S.C.S Unified Soil Classification System</li> <li>9.) ND - Not Documented</li> </ul>	

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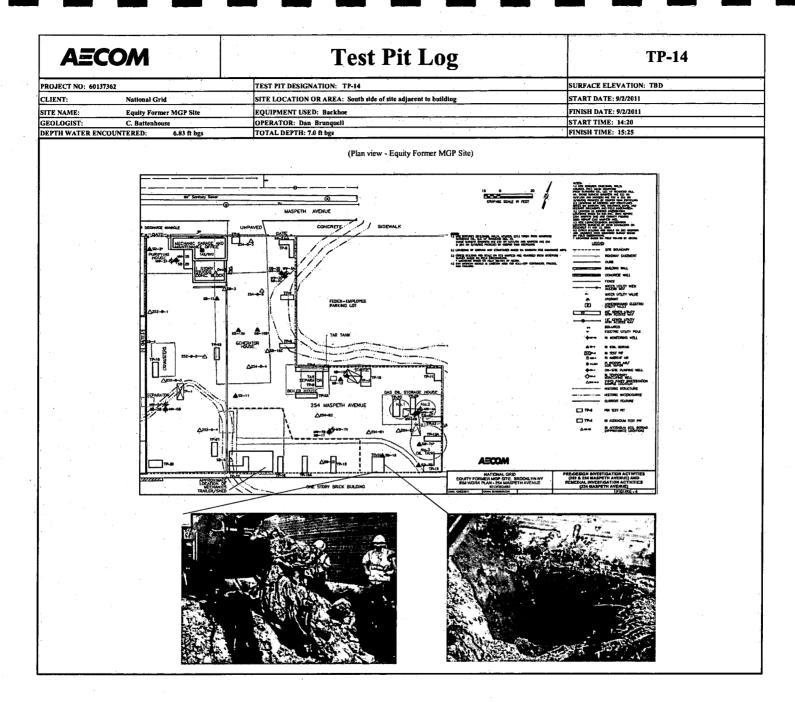
AEC	MO	<b>Test Pit Log</b>	TP-12A
PROJECT NO: 60137	7362	TEST PIT DESIGNATION: TP-12A	SURFACE ELEVATION: TBD
CLIENT:	National Grid	SITE LOCATION OR AREA: south-eastward out from NW corner of N-S portion of TP-13	START DATE: 9/8/11
SITE NAME:	Equity Former MGP Site	EQUIPMENT USED: Backhoe	FINISH DATE: 9/8/11
GEOLOGIST:	C. Battenhouse	OPERATOR: Dan Brunquell	START TIME: 0850
DEPTH WATER ENC	COUNTERED: not encountered	TOTAL DEPTH: 5 ft bgs	FINISH TIME: 0930
DEPTH WATER ENC	OUNTERED: not encountered	(Plan view - Equity Former MGP Site)	FINISH LIME: 0930
			-
			U har (Talegone (Bachana, Mula U har (Talegone) (Bachana, Mula Maria Rastrong Cal, Lill or Streament Mal. We back sameta har (Lill or Streament Mal.
	60° Sectory Broom	(D D(	



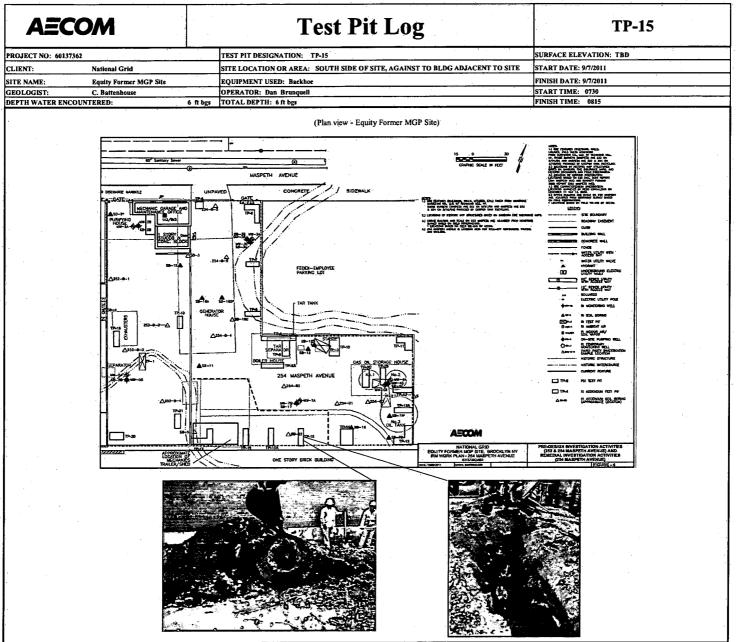
	A	ECO	M	•		<b>Test Pit Log</b>	TP-13
	PROJECT NO	: 60137362				TEST PIT DESIGNATION: TP-13	SURFACE ELEVATION: TBD
	CLIENT:		National Grid			SITE LOCATION OR AREA: South east corner of site between fence and building	START DATE: 9/2/2011
	SITE NAME:		Equity Former	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/2/2011
	GEOLOGIST		C. Battenhouse			OPERATOR: Dan Brunqueli	START TIME: 12:45
	DEPTH WAT	ER ENCOUN	TERED:	~6 ft bgs		TOTAL DEPTH: 6.16 ft bgs	FINISH TIME: 13:35
	DEPTH	VISUAL	PID	SOIL	SOIL	SOIL	
		IMPACTS	HEADSPACE	STRATIG-	CLASS	DESCRIPTION	STRUCTURES ENCOUNTERED
	(FEET)	(FEET)	(PPM)	RAPHY USCS	USCS	LOG	OR COMMENTS
	<u>, , , , , , , , , , , , , , , , , , , </u>		(11.1.)		FILL	0-6' SAND (fill): sand with pebbles and cobbles, concrete, bricks (various size pieces), slag (ash-	
				5000	1 16.6.	sand sized pieces), bricks (small to large throughout), dry to moist, no visible impacts observed	
			0.0	$(\bigcirc P_{A})$		or odors detected.	
	⊢ I		0.0				
1 - A - A - A - A - A - A - A - A - A -	i l			2000			
	I			SON A			
				$\langle \langle \langle \langle \rangle \rangle \rangle$			
			· ·	$\langle \frown \diamond \rangle \rangle$			
			0.0	R Carlo			1.5' bgs: possible footing, brick and mortar structure. Pos
				20200			The best possible rooting, once and mortal structure. Tos
	⊢ _			$(\bigcirc V_{\land})$			
	2 Z						н.
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			.*	$\nabla V_{\alpha}$			
	H 1						
	L_		0.0	$\sim \sim $			1.5-4' by 2.5' wide: Bottom edge of bricks, possible struct
				N N			eastern and southern test pit wall.
	4			$\sqrt{2}$			
				$(\bigcirc P_{\lambda})$			
	-						
			ND	2222			
				2000			
	└── <sup>5</sup>			502,00			
	$\vdash$ 1			200			
				KOPPX			
			· ND				Collected sample TP-13 (5.5-6.0)
				DAAAV			
	6			NOX CL		6.0': Groundwater observed at bottom, wet, past bricks, no staining of odor.	
							· · · · · · · · · · · · · · · · · · ·
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	7		ļ				
				- <del>-</del>		Test pit terminated at 6 ft bgs.	
	Definitions:						
	1.) NA - Not A	Applicable	4) hes - below	ground surface.		7.) NAVD 88 - North American Vertical Datum of 1988	
			11) 0 80 001011	8		······································	



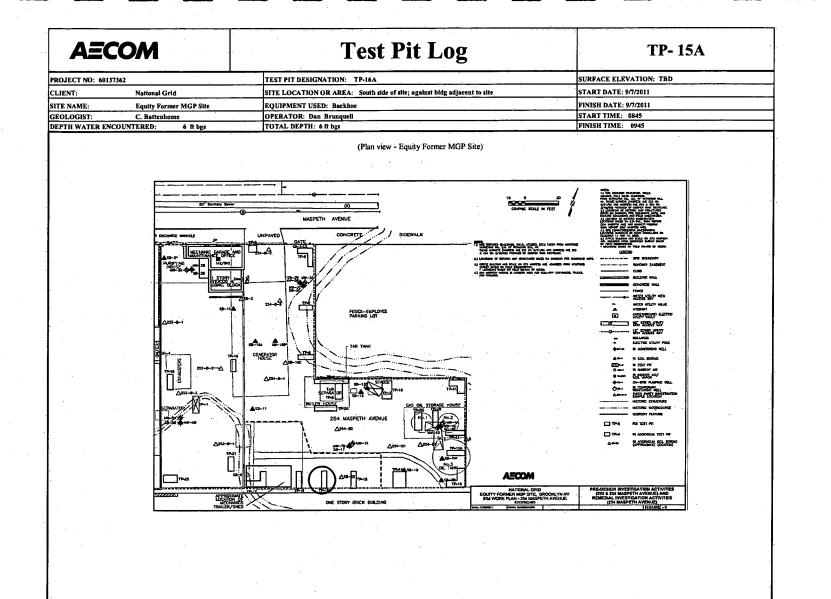
A	COM			<b>Test Pit Log</b>	<b>TP-14</b>
PROJECT NO: 6	137362		1	TEST PIT DESIGNATION: TP-14	SURFACE ELEVATION: TBD
CLIENT:	National Grid			SITE LOCATION OR AREA: South side of site adjacent to building	START DATE: 9/2/2011
SITE NAME:	Equity Forme			EQUIPMENT USED: Backhoe	FINISH DATE: 9/2/2011
GEOLOGIST:	C. Battenhow			OPERATOR: Dan Brunquell	START TIME: 14:20
DEPTH WATER		6.83 ft bgs		TOTAL DEPTH: 7.0 ft bgs	FINISH TIME: 15:25
	ISUAL PID IPACTS HEADSPAC	SOIL E STRATIG-	SOIL CLASS	SOIL DESCRIPTION	
	IPACTS HEADSPAC FEET) (PPM)	RAPHY USCS	USCS	LOG	STRUCTURES ENCOUNTERED OR COMMENTS
(FEEI) (	FEET) (FFM)		FILL	0-7' SAND (fill): sand, mixed urban debris including rugs, tires, plastic bags, wood pieces,	OR COMMENTS
		S QC S		bricks, cobbles, concrete (pebble to boulder sized), dry to moist, very slight naphthalene-like	
	0.0	102Và	Į.	odor (possibly from wood debris).	
		<u></u>	-		4
	ľ	$K \cap \mathcal{P}$			1
		1200V			
	0:0	1 A C	-		
		XAAN			
<b></b> 2					
		2000		2': large boulder, pieces of brickwith morter on southern side of test pit.	
		NOV N			
	0.0	1200			
		KO PA	i		
3		L X O L			·.
		1 CODX		··· · ·	
					••
	0.0				·
		No A			
┝── ⁴┝─		1>2000			1
⊢ <sup>•</sup>		DY OL	!	4': observe less amounts of urban debris, no visible impacts observed or odors detected.	
<b>⊢</b>	0.0	SOUTO NO			1
<u> </u>	0.0				Ì
וי −− ו		$(\bigcirc P)$			
<u>⊢</u>	1				1
	0.0	$\langle \overline{\langle} \rangle \rangle$			
	0.0				4
					1
		12 COND			1
	ND	Dero			
		> dest		6.83': Groundwater observed.	
		DY CL	1		
			•	Test pit terminated at 7.0 ft bgs.	· · · · · · · · · · · · · · · · · · ·



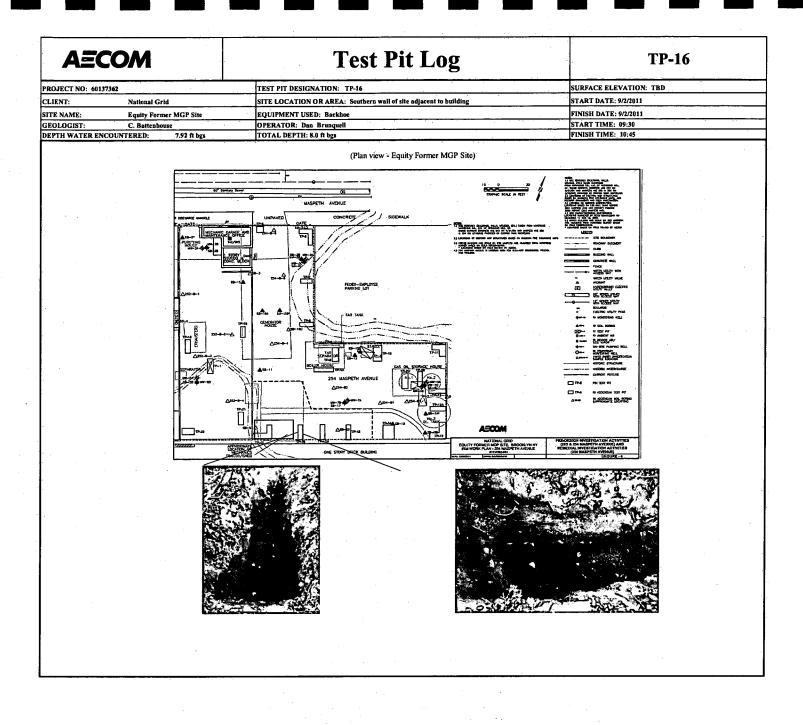
A	ECO	M	•••		<b>Test Pit Log</b>	TP-15		
ROJECT NO	60137362				TEST PIT DESIGNATION: TP-15	SURFACE ELEVATION: TBD		
LIENT:		National Grid			SITE LOCATION OR AREA: SOUTH SIDE OF SITE, AGAINST TO BLDG ADJACENT TO SITE	START DATE: 9/7/2011		
ITE NAME:		Equity Former			EQUIPMENT USED: Backhoe	FINISH DATE: 9/7/2011		
SEOLOGIST	ER ENCOUN	C. Battenhouse			OPERATOR: Dan Brunquell TOTAL DEPTH: 6 ft bgs	START TIME: 0730		
DEPTH	VISUAL	PID	6 ft bgs SOIL	SOIL	SOIL	FINISH TIME: 0915		
DEFIN	IMPACTS	HEADSPACE	STRATIG-	CLASS	DESCRIPTION	STRUCTURES ENCOUNTERED		
(FEET)	(FEET)	(PPM)	RAPHY USCS	USCS	LOG	OR COMMENTS		
(FEEI)	(FEEI)	((1174)		Uses	0-6.0' SAND (fill): sand and rocks (pebble to boulder-size), mixed urban debris including; rugs,	OR COMMENTS		
-					tires, plastic bags, wood pieces, bricks, cobbles, concrete (pebble to boulder sized), dry to moist,			
-		ND	$\langle \bigcirc \mathcal{V}_{\Lambda} \rangle$		sulfur-like odor throughout. Increased amount of urban fill along northern and eastern walls of	<ul> <li>A second sec second second sec</li></ul>		
- 1					the test pit. No visible impacts observed or odors detected. The mixed urban debris appears to			
- ]			$\rangle \sim 0 \rangle$		have been previously burned.			
1			D AV					
-			2220					
-			DY N					
- !		ND	$\overline{\mathbf{a}}$		e e construction de la construction			
- I		· .	$\langle \neg \diamond \rangle \rangle$					
2					2.0': Blackish-colored layer observed (urban debris appears to have been burned or discolored from natural staining (possibly from sulfate reducing bacteria). Very slight Naphthalene-like			
_			> Crow		odor (possibly from groundwater).			
_			N CC					
		ND	$\sim \sim$					
-			$( \bigcirc P_{\lambda})$					
3								
			$\rangle$	· ·				
			N CL					
-		ND	SOUD					
- 1			NO PA					
- 			$\sqrt{2}$					
— 1			$\sim \sim \sim \sim \sim$			· · · · ·		
-			D C		· · · · · · · · · · · · · · · · · · ·			
		ND	X A A A					
		ND ND						
			NO AND					
5			N CL					
			> QC >D					
-			NO Pri	-	· · · · · · · · · · · · · · · · · · ·			
-		ND	$\langle \bigcirc \rangle$					
-		·	$\langle \widetilde{\ } \rangle \rangle$					
6				-	6.0': Groundwater observed.			
-								
-						1		
_								
_								
7		ŀ						
					Test pit terminated at 6.0 ft bgs.			
efinitions:						and the second		
) NA - Not /	Applicable	4.) bgs - below	ground surface		7.) NAVD 88 - North American Vertical Datum of 1988			
) ft - feet		5.) ppm - parts			8.) U.S.C.S Unified Soil Classification System			
) SAA - San	e As Ahove							



IENT: National Grid SITE LOCATION OR AREA: South ride of site; against bldg adjacent to site START DATE: 97/2011	AECO	///			Test Pit Log	TP-15A		
EXAME:         Tegin Pares MCP Sim         SQUPMENT USE:         SQUPMENT USE:         POSEI A.V.E.YOSU1           DEFT:         Value:	OJECT NO: 60137362			L	TEST PIT DESIGNATION: TP-15A	SURFACE ELEVATION: TBD		
OLGGEST         C. Bertisov         OPERATOR: Eas Berugent         PART TIME: Bed           00005T         MATE TIME: Bed         PROFILE         6 PAID: Eas Berugent         PROFILE         PROFILE         PROFILE         PROFILE         BATE TIME: Bed         PROFILE         PR	IENT:	National Grid			SITE LOCATION OR AREA: South side of site; against bldg adjacent to site			
DTU W-TEAL NOTCOME         # Bug         OTAL DEFTER 4 B bg         FINISH TIME 094           DEFT         WIGACTS         FINISH TIME 004         SOL         SOL         SOL         SOL         SOL         SOL         SOL         DEST         GENES         CASE         DESCRIPTION         STRUCTURES ENCOUNTEEED         OB COMMENTS         DESCRIPTION         STRUCTURES ENCOUNTEED         OB COMMENTS         OB COMMENTS         OB COMMENTS         DESCRIPTION         STRUCTURES ENCOUNTEED         OB COMMENTS         OB COMMENTS         OB COMMENTS         DESCRIPTION         STRUCTURES ENCOUNTEED         OB COMMENTS         OB COMMENTS         OB COMMENTS         DESCRIPTION         STRUCTURES ENCOUNTEED         OB COMMENTS         OB COMMENTS         DESCRIPTION         STRUCTURES ENCOUNTEED	· · ·		MGP Site	· •				
DEFTI WIGHLA FILE STACE CLASS STRUCTURES DECOUNTINED DEFTI WIGHLA FILE STACE CLASS STRUCTURES DECOUNTINED DECOUNTI			6 0 has					
MPACTS         BLANCS         TAVITCE         CLAS         DESCRIPTION         STRUCTURE SPONTMENT           07ED         07PD         NUPUS         US3         C45 ND (CII): and with poble, noble, bricks, minatume, ducks, link, bricks, minatume, lin				SOU		FINISH TIME: 0945		
OPEED     OPEED     OPEED     OPEED     USES     Loc     Loc     OR       Image: I						STRUCTURES ENCOUNTERED		
ND       ND       Period       Period <td< td=""><td></td><td></td><td></td><td>· ·</td><td></td><td></td></td<>				· ·				
ND       ND       (Page and pices), wood (small and large pices), concrete (small and larger holder size pices), dry to mail, word at holinon, wry slight naphbalene-like odor (most likely from groundwater); no visual impacts observed.         ND       ND       ND         ND       ND       String roundwater observed. Napitustene-like odor detected (most likely from the groundwater).         ND       ND       ND         ND       ND       ND         ND       ND       ND         ND       ND       String roundwater observed. Napitustene-like odor detected (most likely from the groundwater).         rest       ND       String roundwater observed. Napitustene-like odor detected (most likely from the groundwater).         rest       ND       String roundwater observe								
ND       ND       wisk, with a bottom, very slight nupthalene-like oder (most likely from groundwater); no visual impacts observed.         ND       ND       ND         ND <td></td> <td></td> <td><math>&gt; \bigcirc /math></td> <td>-</td> <td></td> <td></td>			$> \bigcirc	-				
-       -		ND	D D			•		
a 2 ND								
A 2 ND	1		N CL					
a       ND         b       ND         b       ND         b       ND         c			2000					
a       ND         b       ND         b       ND         c			$\left( \bigcirc \mathcal{V}_{\mathcal{N}} \right)$					
-       3       ND         -       4       ND         -       5       groundwater observed. Napthatiene-like odor detected (most likely from the groundwater).         -       5         -       ND         -       Test pit terminated at 7.0 ft bgs.         htHore:       -         A - Not Applicable       4.) bgs - below ground surface         A - Synt Applicable       4.) bgs C.s Unified Sul Classification System		ND	ز کر کر ز					
-       3       ND         -       4       ND         -       5       groundwater observed. Napthatiene-like odor detected (most likely from the groundwater).         -       5         -       ND         -       Test pit terminated at 7.0 ft bgs.         htHore:       -         A - Not Applicable       4.) bgs - below ground surface         A - Synt Applicable       4.) bgs C.s Unified Sul Classification System			$\langle \frown \rangle \rangle \rangle$					
-       3       ND         -       4       ND         -       5       F         -       5       F         -       ND       5.5°: groundwater observed. Napthatiene-like odor detected (most likely from the groundwater).         -       ND       5.5°: groundwater observed. Napthatiene-like odor detected (most likely from the groundwater).         -       ND       5.5°: groundwater observed. Napthatiene-like odor detected (most likely from the groundwater).         -       ND       5.5°: groundwater observed. Napthatiene-like odor detected (most likely from the groundwater).         -       ND       7.0 Rb pgi-loke         ND       ND       7.0 Rb pgi-loke         A) Not Applicable       4.) bgs - below ground surface       7.) NAVD 88 - North American Vertical Datum of 1988         A- feet       5.) ppm - parts per million       8.) U.S.C.S Unified Sui Classification System	_ <sup>2</sup>							
-       3       ND         -       4       ND         -       5       groundwater observed. Naphatiene-like odor detected (most likely from the groundwater).         -       6       ND         -       7       Test pit terminated at 7.0 fl bgs.         Inflore:       7.) NAVD 88 - North American Vertical Datum of 1988         A - Not Applicable       4.) bgs - below ground surface         5.) ppm - parts per million       8.) U.S.C.S Unified Soil Classification System			$\langle \langle \rangle \rangle$	'				
-       3       ND         -       4       ND         -       5       F         -       6       ND         -       ND       5.5°: groundwater observed. Napthatiene-like odor detected (most likely from the groundwater).         -       6       ND         -       ND       5.5°: groundwater observed. Napthatiene-like odor detected (most likely from the groundwater).         -       ND       5.5°: groundwater observed. Napthatiene-like odor detected (most likely from the groundwater).         -       ND       1000000000000000000000000000000000000				h				
a       ND         b       ND         c       S.5: groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         c       Test pit terminated at 7.0 ft bgs.         attom:       S.) pm - parts per million         S.) pm - parts per million       S.) U.S.C.S Unified Suit Classification System		ND	>000					
-       -								
-       -	- 3							
-       -			10,000					
a       ND         b       ND         c       Statistic         c       ND         c       Test pit terminated at 7.0 ft bgs.         attoms:       To provide the statistic statis statist		ND	120D					
s       ND       S,S': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         s       ND       S,S': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         s       ND       S,S': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,S': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,S': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,S': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,S': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,S': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,S': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,S': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,S': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,S': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         NA - Not Applicable       A) bgs - bel			NO Pri					
s       ND       S.5": groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         s       ND       S.5": groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         s       ND       S.5": groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S.5": groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S.5": groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S.5": groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S.5": groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S.5": groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S.5": groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S.5": groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S.5": groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S.5": groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         NA - Not Applicable       4.) bgs - be	4							
s       ND       S.5: groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         s       S.5: groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         s       ND         s       ND         s       Test pit terminated at 7.0 ft bgs.         Initions:       Test pit terminated at 7.0 ft bgs.         A - Not Applicable       4.) bgs - below ground surface         A - feet       S.) pm - parts per million         8.) U.S.C.S Unified Soil Classification System			$( \cap \mathcal{P}_{\lambda})$					
s       ND       S,5': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         s       ND       S,5': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         s       ND       S,5': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,5': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,5': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,5': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,5': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,5': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,5': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,5': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,5': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         r       ND       S,5': groundwater observed. Napthatlene-like odor detected (most likely from the groundwater).         NA - Not Applicable       A) bgs - bel								
-       6       ND       2       ND         -       7       Test pit terminated at 7.0 ft bgs.         Ialtions:       NA - Not Applicable       4.) bgs - below ground surface       7.) NAVD 88 - North American Vertical Datum of 1988         A - feet       5.) ppm - parts per million       8.) U.S.C.S Unified Soil Classification System		ND	200V					
-       6       ND       2       ND         -       7       Test pit terminated at 7.0 ft bgs.         Ialtions:       NA - Not Applicable       4.) bgs - below ground surface       7.) NAVD 88 - North American Vertical Datum of 1988         A - feet       5.) ppm - parts per million       8.) U.S.C.S Unified Soil Classification System								
-       6       ND       ND       ND         -       7       Test pit terminated at 7.0 ft bgs.         Initions:       NA - Not Applicable       4.) bgs - below ground surface       7.) NAVD 88 - North American Vertical Datum of 1988         A - feet       5.) ppm - parts per million       8.) U.S.C.S Unified Soil Classification System	5		$\rangle \sim 0 \rangle \rangle$					
-       6       ND       ND       ND         -       7       Test pit terminated at 7.0 ft bgs.         Initions:       NA - Not Applicable       4.) bgs - below ground surface       7.) NAVD 88 - North American Vertical Datum of 1988         A - feet       5.) ppm - parts per million       8.) U.S.C.S Unified Soil Classification System								
-       6       ND       ND       ND         -       7       Test pit terminated at 7.0 ft bgs.         Initions:       NA - Not Applicable       4.) bgs - below ground surface       7.) NAVD 88 - North American Vertical Datum of 1988         A - feet       5.) ppm - parts per million       8.) U.S.C.S Unified Soil Classification System			VOD <	· ·	e et			
r     Test pit terminated at 7.0 ft bgs.       Initions:     Initions:       NA - Not Applicable     4.) bgs - below ground surface       7.) NAVD 88 - North American Vertical Datum of 1988       A - feet     5.) ppm - parts per million       8.) U.S.C.S Unified Soil Classification System		ND N			5.5; groundwater observed. Napthatiene-like odor detected (most likely from the groundwater):			
refere     5.) ppm - parts per million         refere     5.) ppm - parts per million         refere         re								
refer     5.) ppm - parts per million         refer     5.) ppm - parts per million         refer         ref         ref        ref        ref        ref        ref        ref           ref          ref	- 6		N N N					
r     Test pit terminated at 7.0 ft bgs.       Initions:     Initions:       NA - Not Applicable     4.) bgs - below ground surface       7.) NAVD 88 - North American Vertical Datum of 1988       A - feet     5.) ppm - parts per million       8.) U.S.C.S Unified Soil Classification System			VADX V					
rest     Test pit terminated at 7.0 ft bgs.       Initions:     Test pit terminated at 7.0 ft bgs.       NA - Not Applicable     4.) bgs - below ground surface     7.) NAVD 88 - North American Vertical Datum of 1988       ft - feet     5.) ppm - parts per million     8.) U.S.C. S Unified Soil Classification System		- תא	N V CL					
7       Test pit terminated at 7.0 ft bgs.         Initions:       Test pit terminated at 7.0 ft bgs.         NA - Not Applicable       4.) bgs - below ground surface       7.) NAVD 88 - North American Vertical Datum of 1988         ft - feet       5.) ppm - parts per million       8.) U.S.C.S Unified Soil Classification System			NOVD					
Test pit terminated at 7.0 ft bgs.         Initions:       NA - Not Applicable       4.) bgs - below ground surface       7.) NAVD 88 - North American Vertical Datum of 1988         ft - feet       5.) ppm - parts per million       8.) U.S.C.S Unified Soil Classification System	7		NY CL					
nltions:         JA - Not Applicable       4.) bgs - below ground surface       7.) NAVD 88 - North American Vertical Datum of 1988         t - feet       5.) ppm - parts per million       8.) U.S.C.S Unified Soil Classification System		I	L	L	Test pit terminated at 7.0 ft bys	······································		
NA - Not Applicable       4.) bgs - below ground surface       7.) NAVD 88 - North American Vertical Datum of 1988         t - feet       5.) ppm - parts per million       8.) U.S.C.S Unified Soil Classification System	nitions;							
t - feet       5.) ppm - parts per million       8.) U.S.C.S Unified Soil Classification System		4.) bgs - below	ground surface		7.) NAVD 88 - North American Vertical Datum of 1988			
SAA - Same As Above 6.) PID - Photo Ionization Meter 9.) ND - Not Documented								
	SAA - Same As Above	6.) PID - Photo	Ionization Mete	r	9.) ND - Not Documented			

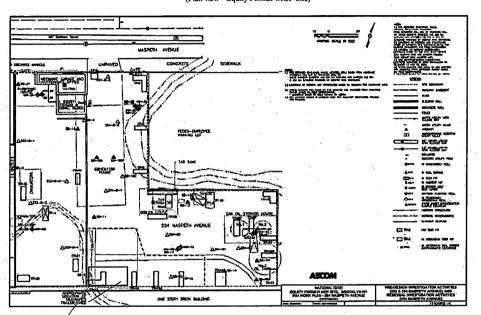


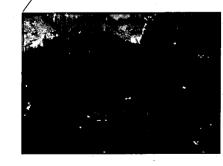
AECOM					<b>Test Pit Log</b>	TP-16		
PROJECT NO	: 60137362		· · · · ·	·	TEST PIT DESIGNATION: TP-16	SURFACE ELEVATION: TBD		
CLIENT:		National Grid			SITE LOCATION OR AREA: Southern wall of site adjacent to building	START DATE: 9/2/2011		
SITE NAMÉ:		Equity Former	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/2/2011		
GEOLOGIST		C.Battenhouse			OPERATOR: Dan Brunquell	START TIME: 09:30		
DEPTH WAT	ER ENCOUNT	ERED:	7.92 ft bgs		TOTAL DEPTH: 8.0 ft bgs	FINISH TIME: 10:45		
DEPTH	VISUAL IMPACTS	PID HEADSPACE	SOIL STRATIG-	SOIL CLASS	SOIL DESCRIPTION	STRUCTURES ENCOUNTE		
(FEET)	(FEET)	(PPM)	RAPHY USCS	USCS	LOG	OR COMMENTS		
		' .		FILL	0-5' SAND (fill): sand with pebbles and cobbles, concrete, brick, glass, < 5% boulder sized	a second s		
L			2000		pieces, <20% silt, coal, ash, and slag (silt to sand-sized particles throughout).			
		0.2						
			> dxxD					
1			NOY KA					
			ار مک <b>ر</b>					
			$\langle  \diamond \rangle \rangle$					
		0.4						
h		1 1	12 CA CA CA		1.5-3' on western wall: small pocket (2' by 1.5') of weathered, solid tar; slight to moderate odor.			
2			N V CL					
			5000					
			$\langle \bigcirc P \rangle$	.'				
		0.3		l .				
<u> </u>			$\rangle \sim 0 \rangle \rangle$					
I			D and	:		· .		
<u> </u>			20,20					
· · ·		·	102Pãi					
└──		0.3	<u>````````````````````````````````````</u>					
<u> </u>		0.5	$\langle \widetilde{\ } \rangle \rangle$					
<u>⊢</u>								
· ·4			2000					
			NOX KOL			1		
⊢ I								
L		3.5	$\langle \bigcirc P_{\Lambda} \rangle$	· ·				
L			<u>`````````````````````````````````````</u>			1		
5			12×2010					
					5-5.75': (western and southern wall) sand with silt, coated to pockets of saturation with tar	Collected sample TP-16 (5-6)		
	9 14 1		VAC'S <	le -	(weathered to residual, more weathered on western side), strong to moderate odor (odor	i i		
	2.	12.8	SOX OF		stronger where soil or slag was coated).			
LI	;		5000					
6			KOYP XI	· ·		ŀ		
Ĺĺ			<u>````````````````````````````````````</u>		6.0-7.0': Moderate to slight odor detected.			
			$\langle \langle \rangle \rangle$					
		0.5		1				
			<u>, 70, 7</u>					
- 7		· .	$(  \circ ) $					
				1	7.0-8.0': Slight odor detected.			
- I			12 CAN			·		
		0.3	NY CL					
			$\langle Q \rangle^{-1}$					
⊢ _			KOPPA		7.92': Groundwater observed sceping in.			
. 61		I	ک چ⊿ےد	L.,		L		
Definitions:					Test pit terminated at 8.0 ft bgs.			
1.) NA - Not A	pplicable	3.) SAA - Same	As Above		5.) ppm - parts per million	7.) NAVD 88 - North American Vertical Dat		
		,						



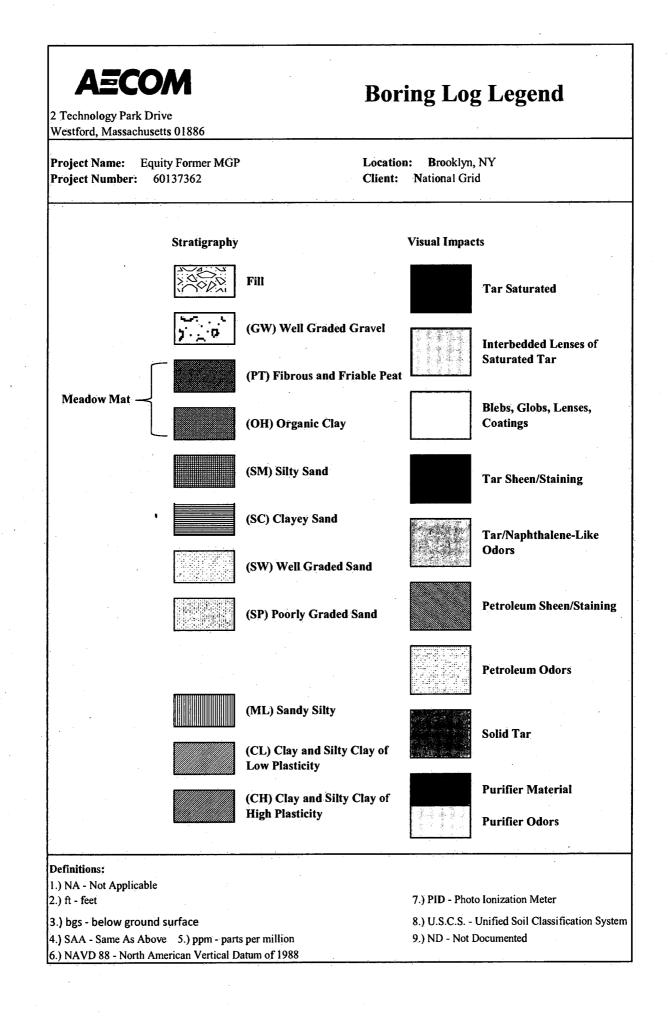
•.	A	ECO	M			<b>Test Pit Log</b>	TP-17
PI	ROJECT NO	60137362				TEST PIT DESIGNATION: TP-17	SURFACE ELEVATION: TBD
C	LIENT:		National Grid			SITE LOCATION OR AREA: SW corner of site	START DATE: 9/7/2011
si	TE NAME;		<b>Equity Former</b>	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/7/2011
G	EOLOGIST	:	Christie Batten	house		OPERATOR: Dan Brunqueil	START TIME: 1015
D	DEPTH WATER ENCOU		TERED:	6.66 ft bgs		TOTAL DEPTH: 6.66 ft bgs	FINISH TIME: 1145
	DEPTH	VISUAL	PID	SOIL	SOIL	SOIL	
		IMPACTS	HEADSPACE	STRATIG-	CLASS	DESCRIPTION	STRUCTURES ENCOUNTERE
	(FEET)	(FEET)	(PPM)	RAPHY USCS	USCS	LOG	OR COMMENTS
	(FEEI)	(FEEI)	(1131)		0363		OR COMMENTS
	~			$\langle \langle \langle O_n \rangle \rangle$		0-6.66' SAND (fill): sand with pebbles, cobbles, boulders (small and large), bricks, pieces of metal (smal and large), wood chips and pieces, moderate to strong naphthalene-like/tar-like odor	
	-			$( \frown O D )$		detected.	
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1	_		l.	20220			1
Г	- 1		ľ	102PX		· ·	ľ
H	— 'I		<u> </u>				
H	-		1	122000		<u> </u> ,	
L.	-			JOX V. NI			
<u> </u>	_		ļ .	<u>َ</u> حکم ا			ł
				2200V			
	2			10 × 01			
				$\sim$			
			ł	$( \frown \diamond b )$			
	- (			D AV			
	_ 1			20-0			2.7 bgs: possible concrete footing or struct
				KAPPA			2.6' bgs to at least 6.66' at bottom of test pit
	- 3						wall)
				> 0 ~ 0			· ·
⊢	-		· ·	$(\bigcirc V_{\lambda})$			
	_						
L	_			2222		the second se	
Γ	·		I .				
F	أنه		l <sup>· ·</sup>	$\langle a O_{n} \rangle$			L
- F				$2 \sim 0^{\circ}$			Ĩ
·	-				,		
F	-	· · · ·		500		4.5-5' east-west test pit: layer of hardened tar, visible on western, northern, and eastern walls	NW-SE test pit dimensions: 14.5' long, 5.0'
Ŀ			ľ	$( \frown \black )$		and does not appear to extend to southern wall of this section of test pit	2.5' from bldg on southern side of site
Γ							
<u>ا.</u>				2220		4.75-5.25' bgs layer of hardened tar-like material on eastern and western walls of test pit.	E-W test pit dimensions: 14.5' long, 3.66' w
Ļ.	°			NOYVA			4' east of wall on SW corner of site and 3' fr
-	-		1			· · · ·	southern side of site
	-			$ \rangle \geq \overline{\langle \langle \rangle \rangle}$			
L	_			Lo XX			
l l			1	2000			
	- 6		1	D B C			1
F	"I			2000			Collected cample TP-17
	-			No Co			Collected sample TP-17
· L	_		l	2000			1
	_		1	NON COL		6.5-6.66': groundwater observed.	
Г	· · ·						
F				· ·			1.
·	/		L	1	L. <u>.</u>	1	1
H			· .			Test pit terminated at 6.66 ft bgs.	
D	efinitions:						
1.	) NA - Not	Applicable	4.) bgs - below	ground surface		7.) NAVD 88 - North American Vertical Datum of 1988	
2.	) ft - feet		5.) ppm - parts	per million		8.) U.S.C.S Unified Soil Classification System	
	) SAA - Sar			•		•	

AEC	COM	<b>Test Pit Log</b>	<b>TP- 17</b>
PROJECT NO: 6013	7362	TEST PIT DESIGNATION: TP-17	SURFACE ELEVATION: TBD
CLIENT:	National Grid	SITE LOCATION OR AREA: SW corner of site	START DATE: 9/7/2011
SITE NAME:	Equity Former MGP Site	EQUIPMENT USED: Backhoe	FINISH DATE: 9/7/2011
GEOLOGIST:	C. Battenhouse	OPERATOR: Dan Brunquell	START TIME: 1015
DEPTH WATER EN	COUNTERED: 6.66 ft bgs	TOTAL DEPTH: 6.66 ft bgs	FINISH TIME: 1145

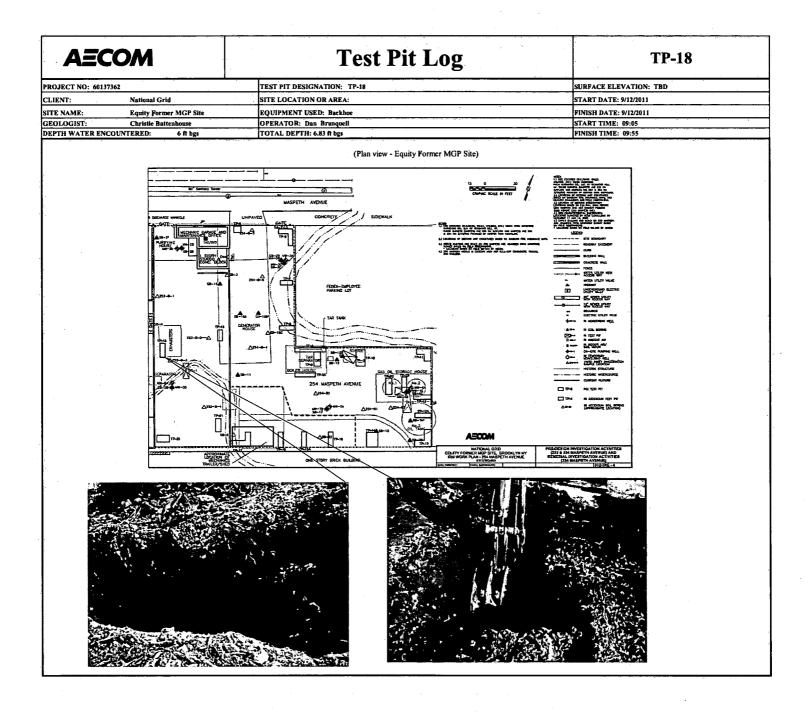




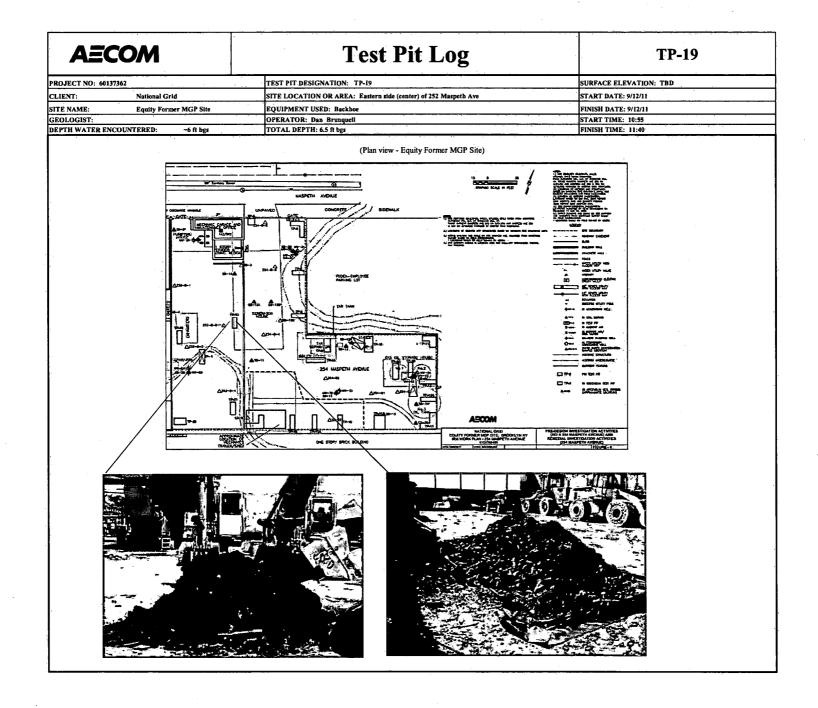
(Plan view - Equity Former MGP Site)



	PROJECT NO	. 60127124				TEST PIT DESIGNATION: TP-18	SURFACE ELEVATION: TBD
	CLIENT:	J. 00137362	National Grid			SITE LOCATION OR AREA:	START DATE: 9/12/2011
	SITE NAME:		Equity Former	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/12/2011
	GEOLOGIST		Christie Batten			OPERATOR: Dan Brunquell	START TIME: 09:05
	DEPTH WAT	ER ENCOUN	TERED:	6.0 ft bgs		TOTAL DEPTH: 6.83 ft bgs	FINISH TIME: 09:55
	DEPTH	VISUAL	PID	SOIL	SOIL	SOIL	
		IMPACTS	HEADSPACE	STRATIG-	CLASS	DESCRIPTION	STRUCTURES ENCOUNTERED
	(FEET)	(FEET)	(PPM)	RAPHY USCS	USCS	LOG	OR COMMENTS
	<u> </u>				FILL	0-0.1' (Fili).	Note: oil spills (fuel/oil) at surface in area. PID readings
			0.0	$\langle O^{\circ} \rangle_{\lambda}$		0.1-6.83' (Fill): burned debris (wood pieces, ships, plastic, rugs, concrete, metal pieces, glass,	appear to be background due to fuel oil at surface and
	<u> -</u>		0.0			bricks).	operational gases/odors and hydrogen sulfide odor.
				$\langle \frown \rangle \rangle \rangle$			
				$\sim \sim $	· · ·		
·		j	0:2	$\sim$			
	2						
			· ·	> CON		2': Slight sewage and hydrocarbon-like odor (hydraulic oil, not a tar-like odor); perched water a 2.0 ft bgs on western wall.	
	· _ ·	· · ·	<u>.</u> .			2.0 ft bgs on western wan.	
	<u> </u>		0.1	> CON			
				SO, v Cl	)		
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	-	· .					
	- I		0.2	$\sqrt{2}$			
	<u> </u>			$\langle O_{\mu} \rangle$			
•	4	•	· · ·	<u>,</u>			
		·	1.1.1	$\langle \overline{\bigcirc} P \rangle$	•	4': Perched water on eastern wall.	
					-		
	_		0.3	$\langle \cap^{\diamond} \rangle \rangle$			
	_	1 A A	· · ·				
	. 5			$\langle \neg \diamond \rangle \rangle$			
		·					
	-		0.2	$\rangle \sim 0 \rangle$	· .		
		ter en	0.2			5.75'-6.0': sand with silt layer; yellowish brown.	
		· · ·	· · ·	$\langle \langle \rangle \rangle$		Service and the all after your and ocontri-	ļ. l
	<b>–</b> 1					6': groundwater on bottom, slight sheen noted on water, but appears to be biological. Could be	
				>~~~		due to fuel oil sceping in with perched groundwater.	
		•					
				>~~~~			
	7			Nº VI			
						Test pit terminated at 6.83 ft bgs.	
	Definitions:						
	1.) NA Not A		4.) bgs - below			7.) NAVD 88 - North American Vertical Datum of 1988	
	2.) ft - feet 3.) SAA - San		5.) ppm - parts	per million Ionization Meter		8.) U.S.C.S Unified Soil Classification System	·
	5.) SAA - San	E AS ADOVE	0.) FID - Photo	ionization Meter			



ļ		ECO			I		
F	PROJECT NO:	: 60137362				TEST PIT DESIGNATION: TP-19	SURFACE ELEVATION: TBD
r i i i i i i i i i i i i i i i i i i i	CLIENT:		National Grid			SITE LOCATION OR AREA: Eastern side (center) of 252 Maspeth Ave	START DATE: 9/12/11
· •	SITE NAME:		Equity Former			EQUIPMENT USED: Backhoe	FINISH DATE: 9/12/11
	GEOLOGIST: DEPTH WATE		Christie Batten		· · · · · · · · · · · · · · · · · · ·	OPERATOR: Dan Brunquell TOTAL DEPTH: 6.5 ft bgs	START TIME: 10:55 FINISH TIME: 11:40
				~6 ft bgs		SOIL	FRANK FRANE. FRAN
	DEPTH	VISUAL	PID	SOIL STRATIG-	SOIL		STRUCTURES ENCOUNTERED
	-	IMPACTS	HEADSPACE		CLASS USCS	LOG	OR COMMENTS
	(FEET)	(FEET)	(PPM)	RAPHY USCS			Rotten egg smell began as soon as ground broke
				$\sqrt{O}$	FILL	0-6.5' SAND (fill): sand with pebbles and cobbles of rocks, bricks, concrete, mixed in with burned debris (wood pieces/chips, metal pipes, flashing, rubber, rugs, plastic, black color due to	Rotten egg shien began as soon as ground broke
-	— ļ.		NA	$\langle \bigcirc P_{\lambda} \rangle$	•	burned debris and organics).	·. ·
	—  .		. 114				
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· ·				22000			
	2			No C			
. [				> < > > > > > > > > > > > > > > > > > >		2'-3': Perched water all the way down to ~6' (perched zones have a lot of water)	
	-			$\nabla \nu_{\alpha}$			·
	-	· .	1.0	$\sim$			
. F	—· [:			$\rangle \sim \rangle \rangle \rangle$			
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+				$SQ_{2}^{A}D$			
				NOY LA			
·	<u> </u>						
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	_ l.			N A C			
	. 4			$> \bigcirc \frown \frown \bigcirc$	•		
		· · · ·	ана. Алагана	$\nabla V$		4': Debris larger at depth, lots of metal pipes, strapping, flashings, large chunks of concrete.	
	_			$\overline{\langle}$			
			0.1	$\langle \neg \diamond \rangle \rangle$			
[							
	5			2000			
				$\langle \rangle \rangle \langle		5': Wood log (large piece).	
					÷ .		
· · · · · ·	-	· ·	0.0	$\sim \sim \sim \sim$			
	<del>, .</del> .						
٩.				VAN C			
	· •			O V		~6': ground water encountered (perched zones above it make it hard to tell exactally where	
F	-		ND	$\langle \langle \langle O_{\Gamma} \rangle$		ro : ground water encountered (perched zones above it make it hard to tell exactany where groundwater is).	
F	— I I I						
ŀ	-						· · · · · · · · · · · · · · · · · · ·
ŀ	<b>_</b> ' _						
Ļ	7						
F						Test pit terminated at 6.5 ft bgs.	· · · · · · · · · · · · · · · · · · ·
	Definitions:						
	I.) NA - Not Aj			ground surface.		7.) NAVD 88 - North American Vertical Datum of 1988	
	2.) ft - feet		5.) ppm - parts			8.) U.S.C.S Unified Soil Classification System	
3	3.) SAA - Same	e As Above	6.) PID - Photo	Ionization Meter		9.) Not documented	

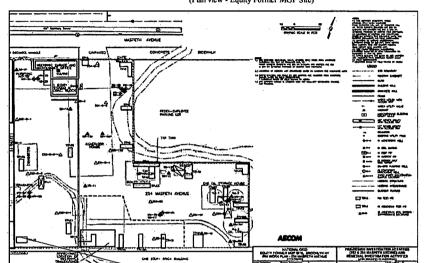


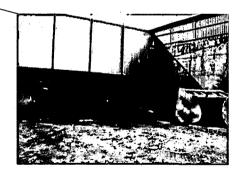
	ECO				Test Pit Log	
PROJECT N	D: 60137362				TEST PIT DESIGNATION: TP-20	SURFACE ELEVATION: TBD
CLIENT:		National Grid			SITE LOCATION OR AREA: Southwest corner of 252 Maspeth Ave	START DATE: 9/12/2011
SITE NAME:		Equity Former	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/12/2011
GEOLOGIST	:	C. Battenhouse			OPERATOR: Dan Brunguell	START TIME: 07:50
DEPTH WAT	ER ENCOUNT	ERED:	6.7 ft bgs		TOTAL DEPTH: 6.58 ft bgs	FINISH TIME: 09:05
DEPTH	VISUAL	PID	SOIL	SOIL	SOIL	
	IMPACTS	HEADSPACE	STRATIG-	CLASS	DESCRIPTION	STRUCTURES ENCOUNTERED
(FEET)	(FEET)	(PPM)	RAPHY USCS	USCS	LOG	OR COMMENTS
Ŀ				FILL	0-2' bgs: Fill; sand with pebbles, cobbles of rocks, bricks, concrete.	
			12000			
		0.0	N V V		[1] A. S.	
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Γ.		÷ .	KAPPA			
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·		· ·	KAODY			
2				. •		· · · · · · · · · · · · · · · · · · ·
			2000		2'-3': Large peices of concrete on northern wall.	and the second
· · ·			10XV		Sewage-like odor throughout	
		0.0	[.~~~			
<u> </u>			$\langle \frown \diamond \rangle \rangle$	1997 - 19		
			D V C			and the second
°	• •		1> QXXQ		~3': layer of burned wood chips/pieces on all walls and urban trash mixed in.	
<u> </u>			NOYKA			
				- 14 A		
		0.0	12 COV			
			N N N			
4			D C C			
	· .		10XKAV		4': a few pieces of steel cable and rubber.	
			$\left[ \left[ \left$			
· · · ·		0.0	1000			· .
1			D D D			
5			2222			
	• 		N VCL		5': perched groundwater on western side, burned debris/wood chips to bottom (black color due	
<u> </u>			$\langle \langle \langle O \rangle \rangle$		to debris that is in contact with burned wood).	
<u>⊢</u>		0.0				
<u> </u>			2000			
<u> </u>		· · · ·	D AL			· · · ·
°			>0,0,0			
— .			NOY NA			
<u> </u>		0.0	يْحَيْ			
			$\langle  \diamond \rangle \rangle$			
	•			ļ	6.7': groundwater observed.	· · · · · · · · · · · · · · · · · · ·
7				L		
Ľ					Test pit terminated at 6.7 ft bgs.	
Definitions:						·
1.) NA - Not	Applicable	4.) bgs - below	ground surface		7.) NAVD 88 - North American Vertical Datum of 1988	
2.) ft - feet		5.) ppm - parts			8.) U.S.C.S Unified Soil Classification System	
			Ionization Mete			
		,				

AECOM
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## **Test Pit Log**

PROJECT NO: 60137362	• •	TEST PIT DESIGNATION: TP-20	SURFACE ELEVATION: TBD
CLIENT:	National Grid	SITE LOCATION OR AREA: Sonthwest corner of 252 Maspeth Ave	START DATE: 9/12/2011
SITE NAME:	Equity Former MGP Site	EQUIPMENT USED: Backhoe	FINISH DATE: 9/12/2011
GEOLOGIST:	Christie Battenbouse	OPERATOR: Dan Brunquell	START TIME: 07:50
DEPTH WATER ENCOUN	ITERED: 6.58 ft bgs	TOTAL DEPTH: 6.58 ft bgs	FINISH TIME: 09:05





(Plan view - Equity Former MGP Site)

	ECO		÷		<b>Test Pit Log</b>	TP-21
PROJECT NO	D: 60137362				TEST PIT DESIGNATION: TP-21	SURFACE ELEVATION: TBD
CLIENT:		National Grid			SITE LOCATION OR AREA: South east corner of 252 Maspeth Ave	START DATE: 9/12/2011
SITE NAME:		Equity Former	MGP Site		EQUIPMENT USED: Backhoe	FINISH DATE: 9/12/2011
GEOLOGIST		Christie Batten			OPERATOR: Dan Brunqueli	START TIME: 11:55
DEPTH WAT			6.16 ft bgs		TOTAL DEPTH: 6.16 ft bgs	FINISH TIME: 12:25
DEPTH	VISUAL	PID	SOIL	SOIL	SOIL	
	IMPACTS	HEADSPACE		CLASS	DESCRIPTION	STRUCTURES ENCOUNTERED
(PEP PER				USCS	LOG	OR COMMENTS
(FEET)	(FEET)	(PPM)	RAPHY USCS		0-1' SAND (fill); with pebbles, cobbles, concrete pieces (1.5'x2.5') at ~0.5 ft bgs.	
<b>⊢</b> - I				FILL	ייין איזאי איזא איזא איזא איזא איזא איזא	PID readings from hydrogen sulfide odor, not impa-
⊢ I			$\langle \frown \diamond \rangle \rangle$			
	ľ	0.0				• · · · · · · · · · · · · · · · · · · ·
·			$\rangle  \rangle			
1			$\nabla V $			
			$\langle \overline{\mathcal{A}}_{\mathcal{N}} \rangle$	. •	2'-4' Fill, debris (trash, wood pieces, chunks, plastic tubs/sheets, newpaper, bricks, concrete,	
· ·		·	$\langle  \diamond \rangle \rangle$		pebbles and cobbles of rock, hydrogen sulfide odor throughout.	
		0.2	D Xave			
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<u> </u>			$\left  \left( \begin{array}{c} \\ \\ \\ \\ \end{array} \right) \right $			
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<u> </u>			$( \frown O D )$			
— I						
			1272 V			
<u> </u>	h.		NY CL		4': debris black from burning or environment	· · · · ·
·		·	<u>~~~</u>			
<u> </u>		· 0.1 ·	$\langle \bigcirc \rangle \rangle \rangle$			
· ·		1 · ·	1. J. J. J.			
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			2.92 <u>2</u> .			
°		······	(OPPXI		6 16h Aunter	
-					6.16': groundwater encountered	
<u> </u>						1
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_						
. 7		· .				,
					Test pit terminated at 6.16 ft bgs.	· · · · · ·
Definitions:						
1.) NA - Not /	Applicable	4.) bgs - below	ground surface		7.) NAVD 88 - North American Vertical Datum of 1988	
2.) ft - feet		5.) ppm - parts	•		8.) U.S.C.S Unified Soil Classification System	
			Ionization Meter			
						• · · · ·
					•	
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