Sarah Aldridge
Project Manager

nationalgrid

April 15, 2014

Mr. R. Scott Deyette
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau C, 11th Floor
625 Broadway
Albany, New York 12233-7014

**RE: Site Characterization Work Plan Modifications**
**Kings County Former MGP Site**
**Brooklyn, New York**
**Site No. 224056**
**Index No. A2-0552-0606**

Dear Mr. Deyette:

National Grid is submitting for your review and approval the following Site Characterization Work Plan modifications for the Kings County Former MGP site in Brooklyn, New York. Modifications were made based on information obtained from site walks and correspondence with the property owners and/or tenants. Revised versions of Figure 1 – Proposed Sample Locations and Table 2 - Sample Descriptions, Rationale and Analysis are attached.

National Grid is in contact with the property owners and site walks were conducted on February 15th and December 9th of 2013. Based on correspondence and field observations, some sample locations have been added, removed, or relocated as discussed below.

- KC-SB-03 is moved approximately 10 feet west of its originally proposed location to avoid being installed too close to MW-17.
- A monitoring well (KC-MW-07) is proposed at KC-SB-04, if MGP impacts are found, at the request of the property owner.
- KC-SB-05 is moved slightly southwest, out of the driveway and into the gated sidewalk area of the 5600 1st Avenue property at the request of the property owner.
- KC-SB-08/KC-GW-02 and KC-SB-09 are removed due to the presence of a basement in the building. The basement is inaccessible to the drilling equipment required.
- At the request of the property owner, KC-SB-17/KC-MW-05 is moved approximately 40 feet south of its originally proposed location to avoid being installed in a high vehicle traffic area.
- At the request of the property owner, three additional boring locations are proposed adjacent to previous investigation sample locations to confirm impacts observed during a previous investigation (KC-SB-20 adjacent to MW-15, KC-SB-21 adjacent to SB-05, and KC-SB-22 adjacent to SB-14).

175 E. Old Country Rd., Hicksville, NY11801
T: 516.545.2568 sarah.aldridge@nationalgrid.com www.nationalgrid.com

Seventeen of the original19 proposed borings will be installed due to the removal of KC-SB-08/KC-GW-02 and KC-SB-09. Additionally, three newly proposed borings will be installed (KC-SB-20, KC-SB-21, and KC-SB-22). The six originally proposed monitoring wells will be installed with a potential seventh proposed.

If you have any questions or require additional information, please feel free to contact me at (516) 545-2568 or by e-mail at Sarah.Aldridge@nationalgrid.com.

Sincerely,

Melissa J Felter *for*

Sarah Aldridge
Project Manager

Attachments

c: C. Doroski, NYSDOH
M. Felter, GEI

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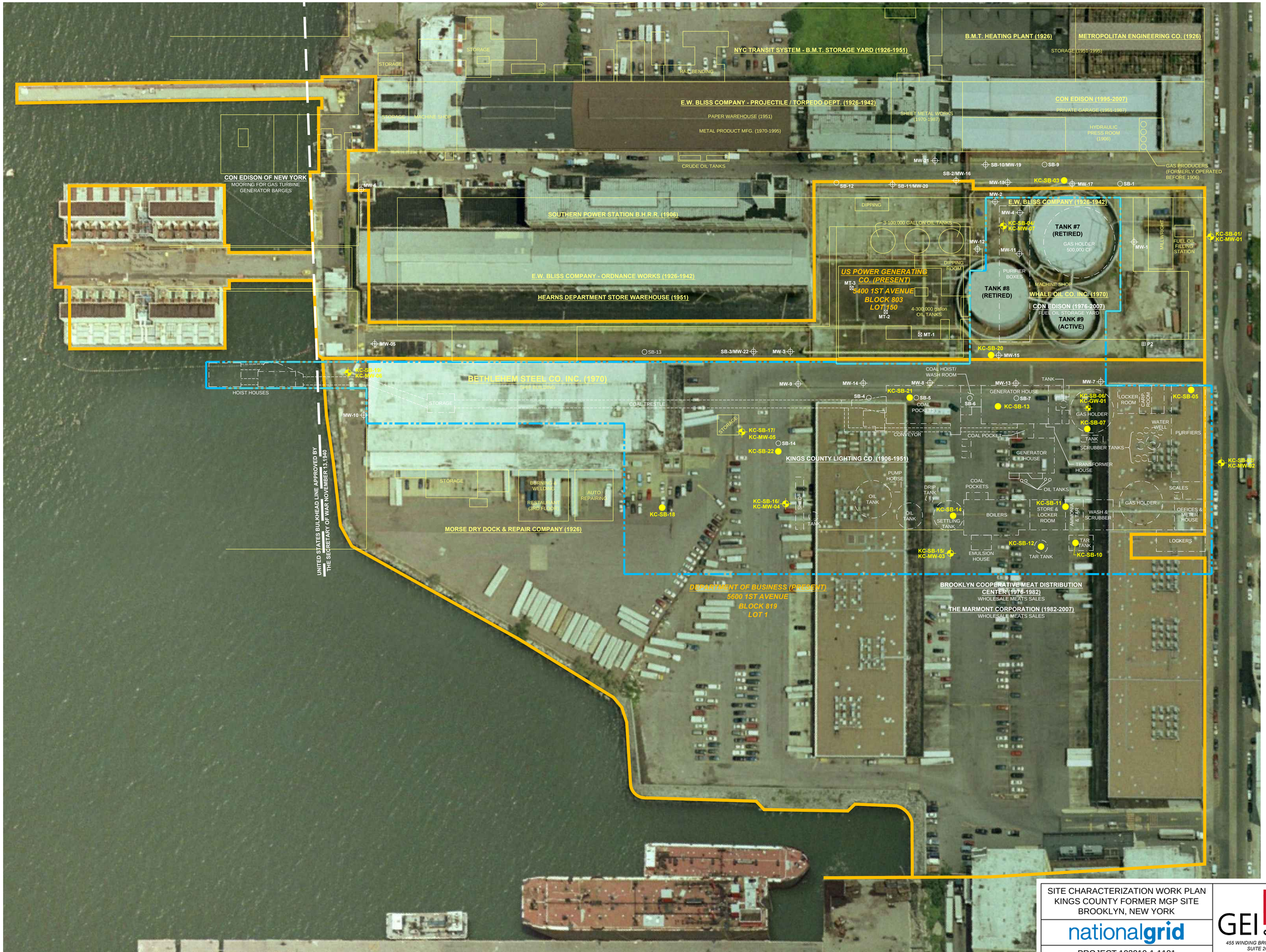


## LEGEND

- APPROXIMATE CURRENT PROPERTY BOUNDARY
- APPROXIMATE BOUNDARY OF FORMER MANUFACTURED GAS PLANT (MGP) SITE
- HISTORIC MGP STRUCTURE
- HISTORIC STRUCTURE

### PROPOSED REMEDIAL INVESTIGATION (RI) SAMPLES

- KC-SB-01/ KC-MW-01 — PROPOSED RI SOIL BORING WITH MONITORING WELL
- KC-SB-03 — PROPOSED RI SOIL BORING
- KC-SB-06/ KC-GW-01 — PROPOSED RI SOIL BORING WITH TEMPORARY GROUNDWATER SAMPLE

### PREVIOUS INVESTIGATION SAMPLES

- MW-1 — MONITORING WELL LOCATION
- SB-2/MW-16 — SOIL BORING / MONITORING WELL
- SB-1 — SOIL BORING
- P2 — PIEZOMETER
- MT-1 — MOUNTED TANK MANWAY

**SOURCES:**


1. PHOTOGRAPH OBTAINED FROM BLUE SKY INTERNATIONAL LTD. ALL RIGHTS RESERVED. COPYRIGHT 2007.
2. SANBORN FIRE INSURANCE MAPS (1887 THROUGH 2007).
3. NEW YORK CITY OPEN ACCESSIBLE SPACE INFORMATION SYSTEM http://www.oasisnyc.net. ACCESSED OCTOBER 7, 2010.
4. PREVIOUS INVESTIGATION SAMPLE LOCATIONS FROM: *DRAFT SUPPLEMENTAL INVESTIGATION DATA SUMMARY, NARROWS GENERATING STATION, ASTORIA GENERATING COMPANY, L.P.*, PREPARED BY ARCADIS OF NEW YORK, INC., DECEMBER 2013.


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SCALE, FEET

SITE CHARACTERIZATION WORK PLAN
KINGS COUNTY FORMER MGP SITE
BROOKLYN, NEW YORK

nationalgrid

PROJECT 103910-1-1101


GEI Consultants
455 WINDING BROOK DRIVE
SUITE 201
GLASTONBURY, CONNECTICUT 06033


**PROPOSED SAMPLE LOCATIONS**

April 2014 Plate 1

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**Table 2**
**Sample Descriptions, Rationale and Analysis**
**National Grid**
**Kings County Former MGP Site**

| Sample I.D. | Sample Location | Sample Rationale | Number of Samples | | | VOCs (EPA 8260) | SVOCs (EPA 8270) | TAL Metals (6000/7000) | Cyanide[1] | Herbicides (EPA 8151A) | PCBs (EPA 8082) | Pesticides (EPA 8081A) | High Resolution Hydrocarbon Fingerprint Forensics |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | Groundwater | DNAPL | | | | | | | | |
| **KC-SB-01/ KC-MW-01** | 1st Avenue right-of-way (ROW) within the sidewalk southeast and upgradient of the Kings County Former MGP Site. | Soil boring and monitoring well to evaluate the soil and groundwater conditions up gradient of the former MGP Site. | Up to 3 | 1 | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-02/ KC-MW-02** | 1st Avenue ROW within the sidewalk southeast of the Kings County Former MGP Site. | Soil boring and monitoring well to evaluate potential MGP tar impacts to soil and groundwater southeast of the former MGP Site boundary. | Up to 3 | 1 | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-03** | 53rd Street ROW within the sidewalk east of the Kings County Former MGP Site. | Soil boring to evaluate potential MGP tar impacts to soils east of the former MGP Site boundary. | Up to 3 | | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-04/KC-MW-07** | 5400 1st Avenue, downgradient of a former gas holder footprint. | Soil boring and monitoring well to evaluate potential MGP tar impacts to soil and groundwater downgradient of a former gas holder footprint. | Up to 3 | 1 | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-05** | 5600 1st Avenue, within the sidewalk in the southeast portion of the Kings County Former MGP Site. | Soil boring to evaluate potential MGP tar impacts to soils southeast of the former MGP Site boundary. | Up to 3 | | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-06/ KC-GW-01** | 5600 1st Avenue, within the footprint of a former gas holder. | Soil boring and temporary groundwater sample location to evaluate the presence or absence of the gas holder foundation, and to evaluate potential MGP tar impacts to soils and groundwater within the footprint of a former gas holder. | Up to 3 | 1 | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-07** | 5600 1st Avenue, within the footprint of a former gas holder. | Soil boring to evaluate the presence or absence of the gas holder foundation, and to evaluate potential MGP tar impacts to soils within the footprint of a former gas holder. | Up to 3 | | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-10** | 5600 1st Avenue, within the footprint of a former tar tank. | Soil boring to evaluate the presence or absence of the tar tank foundation, and to evaluate potential MGP tar impacts to soils within the footprint of the former tar tank. | Up to 3 | | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-11** | 5600 1st Avenue, downgradient of a former gas holder footprint. | Soil boring to evaluate potential MGP tar impacts to soils downgradient of a former gas holder footprint. | Up to 3 | | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-12** | 5600 1st Avenue, within the footprint of a former tar tank. | Soil boring to evaluate the presence or absence of the tar tank foundation, and to evaluate potential MGP tar impacts to soils within the footprint of the former tar tank. | Up to 3 | | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-13** | 5600 1st Avenue, downgradient of a former gas holder footprint. | Soil boring to evaluate potential MGP tar impacts to soil downgradient of a former gas holder footprint. | Up to 3 | | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-14** | 5600 1st Avenue, within the footprint of a former settling tank. | Soil boring to evaluate the presence or absence of the settling tank foundation, and to evaluate potential MGP tar impacts to soils within the footprint of the former settling tank. | Up to 3 | | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-15/ KCMW-03** | 5600 1st Avenue, downgradient of the former tar tank footprints. | Soil boring and monitoring well to evaluate potential MGP tar impacts to soils and groundwater downgradient of the former tar tank footprints. | Up to 3 | 1 | | X | X | X | X | X[2] | X[2] | X[2] | |

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**Table 2**
**Sample Descriptions, Rationale and Analysis**
**National Grid**
**Kings County Former MGP Site**

| Sample I.D. | Sample Location | Sample Rationale | Number of Samples | | | VOCs (EPA 8260) | SVOCs (EPA 8270) | TAL Metals (6000/7000) | Cyanide[1] | Herbicides (EPA 8151A) | PCBs (EPA 8082) | Pesticides (EPA 8081A) | High Resolution Hydrocarbon Fingerprint Forensics |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Soil | Groundwater | DNAPL | | | | | | | | |
| **KC-SB-16/ KC-MW-04** | 5600 1st Avenue, downgradient of the former oil tank footprints. | Soil boring and monitoring well to evaluate potential MGP tar impacts to soils and groundwater downgradient of the former oil tank footprints. | Up to 3 | 1 | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-17/ KC-MW-05** | 5600 1st Avenue. | Soil boring and monitoring well to evaluate potential MGP tar related impacts in soil and groundwater on the northern portion of the site. | Up to 3 | 1 | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-18** | 5600 1st Avenue, west and downgradient of the former MGP Site boundary. | Soil boring to evaluate potential MGP tar related impacts in soil west of the site. | Up to 3 | | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-19/ KC-MW-06** | 5600 1st Avenue. | Soil boring to evaluate potential MGP tar related impacts in soil on the western portion of the site. | Up to 3 | 1 | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-20** | 5400 1st Avenue. | Soil boring to evaluate potential MGP tar related impacts in soil adjacent to MW-15, where impacts were observed. | Up to 3 | | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-21** | 5600 1st Avenue. | Soil boring to evaluate potential MGP tar related impacts in soil adjacent to SB-5, where impacts were observed. | Up to 3 | | | X | X | X | X | X[2] | X[2] | X[2] | |
| **KC-SB-22** | 5600 1st Avenue. | Soil boring to evaluate potential MGP tar related impacts in soil adjacent to SB-14, where impacts were observed. | Up to 3 | | | X | X | X | X | X[2] | X[2] | X[2] | |
| **MW-10** | 5600 1st Avenue. | Existing monitoring well with the presence of DNAPL reported. | | | 1 | | | | | | | | X |

**Notes:**
Chemical analysis test methods specified are from U.S. EPA SW-846 test methods
DNAPL - Dense Non-Aqueous Phase Liquid
EPA - Environmental Protection Agency
VOCs - Volatile Organic Compounds
SVOCs - Semivolatile Organic Compounds
TAL - Target Analyte List
PCB - Polychlorinated Biphenyls
[1]-Soils will be analyzed by Free Cyanide (EPA Method 9016) and water will be analyzed for Total Cyanide (EPA Method 9012)
[2]-One sample from within the fill in each soil boring and all groundwater samples