

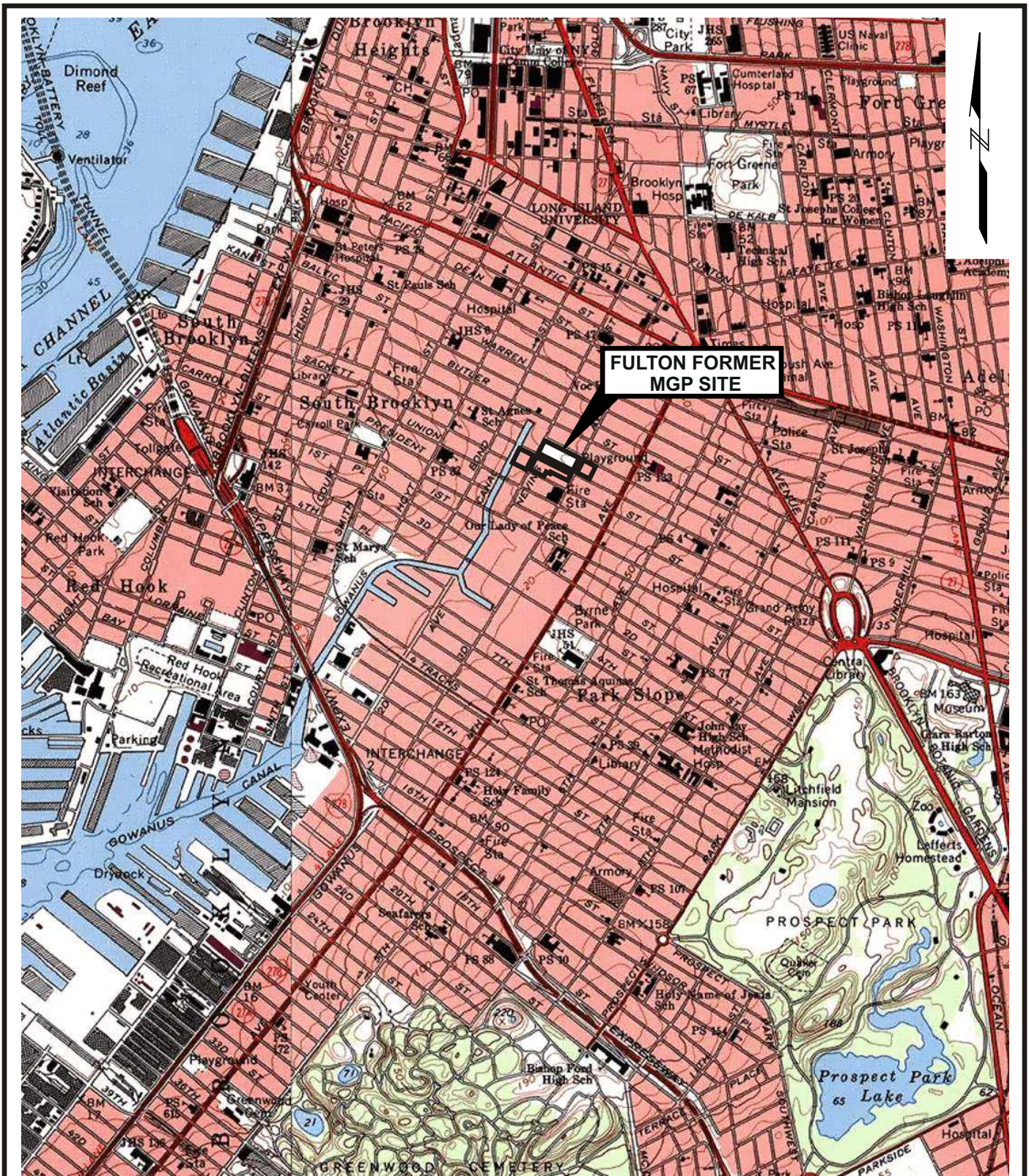
ØP CEŠÄÜ ÖT ÒÖ CEŠÄP X ÒÙ VÖ CEVQ P ÄÜ ÖÚ U ÜVÄ  
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## Figures

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**FULTON FORMER MGP SITE**

**SOURCE:**  
 Map created with TOPO! © 2001 National Geographic (www.nationalgeographic.com/topo)



**REMEDIAL INVESTIGATION REPORT  
 FULTON MUNICIPAL WORKS FORMER MGP  
 BOROUGH OF BROOKLYN, NEW YORK**

**nationalgrid**

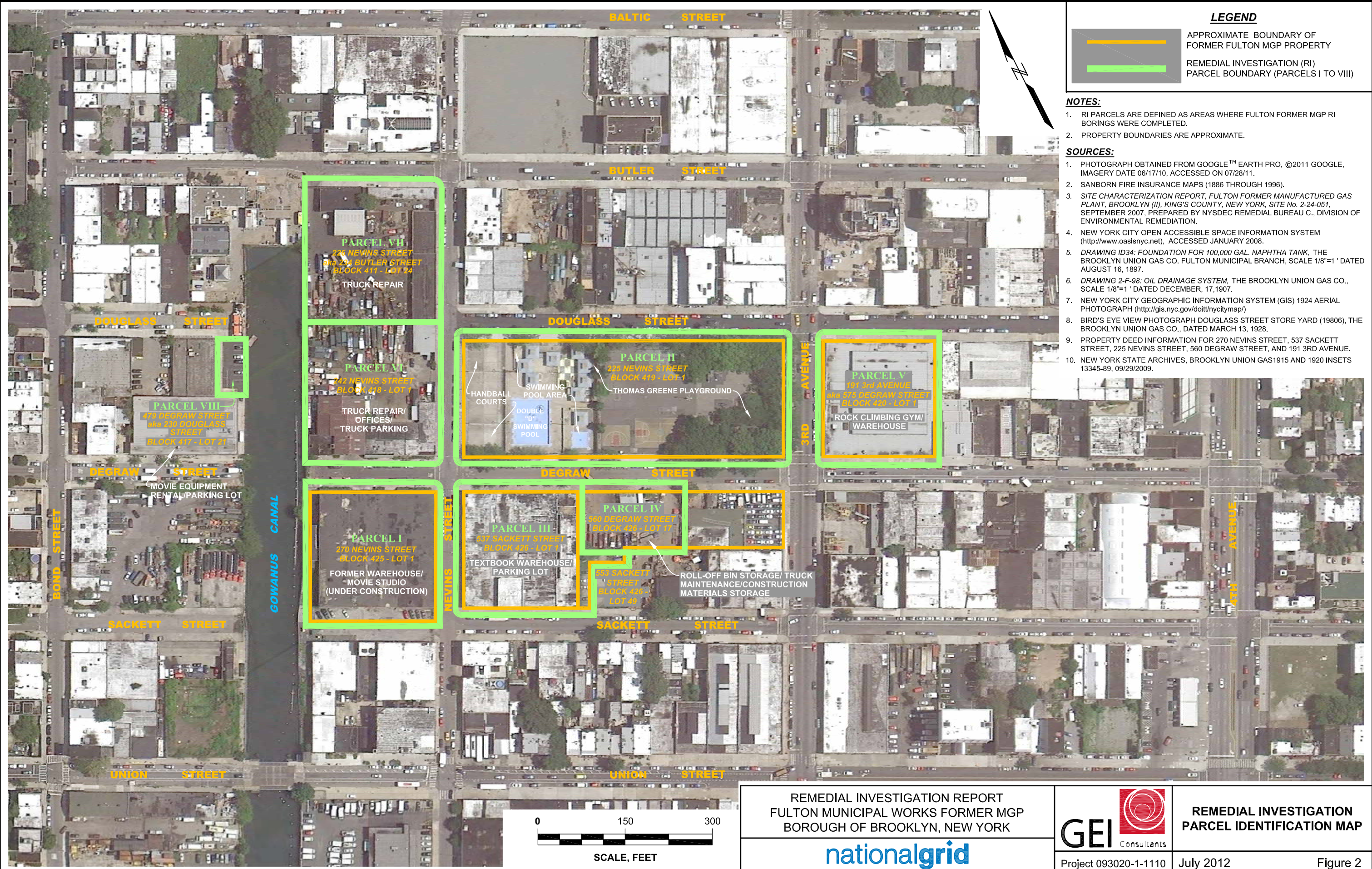


Project 093020-1-1110

**SITE LOCATION MAP**

July 2012

Figure 1



**LEGEND**

- APPROXIMATE BOUNDARY OF FORMER FULTON MGP PROPERTY
- REMEDIAL INVESTIGATION (RI) PARCEL BOUNDARY (PARCELS I TO VIII)

**NOTES:**

1. RI PARCELS ARE DEFINED AS AREAS WHERE FULTON FORMER MGP RI BORINGS WERE COMPLETED.
2. PROPERTY BOUNDARIES ARE APPROXIMATE.

**SOURCES:**

1. PHOTOGRAPH OBTAINED FROM GOOGLE™ EARTH PRO, ©2011 GOOGLE, IMAGERY DATE 06/17/10, ACCESSED ON 07/28/11.
2. SANBORN FIRE INSURANCE MAPS (1886 THROUGH 1996).
3. SITE CHARACTERIZATION REPORT, FULTON FORMER MANUFACTURED GAS PLANT, BROOKLYN (II), KING'S COUNTY, NEW YORK, SITE No. 2-24-051, SEPTEMBER 2007, PREPARED BY NYSDEC REMEDIAL BUREAU C., DIVISION OF ENVIRONMENTAL REMEDIATION.
4. NEW YORK CITY OPEN ACCESSIBLE SPACE INFORMATION SYSTEM (<http://www.oasisnyc.net>), ACCESSED JANUARY 2008.
5. DRAWING ID34: FOUNDATION FOR 100,000 GAL. NAPHTHA TANK, THE BROOKLYN UNION GAS CO. FULTON MUNICIPAL BRANCH, SCALE 1/8"=1' DATED AUGUST 16, 1897.
6. DRAWING 2-F-98: OIL DRAINAGE SYSTEM, THE BROOKLYN UNION GAS CO., SCALE 1/8"=1' DATED DECEMBER, 17,1907.
7. NEW YORK CITY GEOGRAPHIC INFORMATION SYSTEM (GIS) 1924 AERIAL PHOTOGRAPH (<http://gis.nyc.gov/dotl/nycitymap/>)
8. BIRD'S EYE VIEW PHOTOGRAPH DOUGLASS STREET STORE YARD (19806), THE BROOKLYN UNION GAS CO., DATED MARCH 13, 1928.
9. PROPERTY DEED INFORMATION FOR 270 NEVINS STREET, 537 SACKETT STREET, 225 NEVINS STREET, 560 DEGRAW STREET, AND 191 3RD AVENUE.
10. NEW YORK STATE ARCHIVES, BROOKLYN UNION GAS 1915 AND 1920 INSETS 13345-89, 09/29/2009.

**PARCEL VII**  
 226 NEVINS STREET  
 aka 231 BUTLER STREET  
 BLOCK 411 - LOT 24  
 TRUCK REPAIR

**PARCEL VI**  
 242 NEVINS STREET  
 BLOCK 418 - LOT 1  
 TRUCK REPAIR/  
 OFFICES/  
 TRUCK PARKING

**PARCEL II**  
 225 NEVINS STREET  
 BLOCK 419 - LOT 1  
 THOMAS GREENE PLAYGROUND  
 SWIMMING POOL AREA  
 DOUBLE "D" SWIMMING POOL  
 HANDBALL COURTS

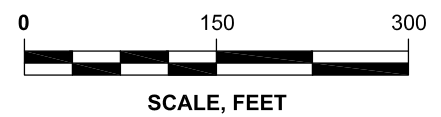
**PARCEL V**  
 191 3RD AVENUE  
 aka 575 DEGRAW STREET  
 BLOCK 426 - LOT 1  
 ROCK CLIMBING GYM/  
 WAREHOUSE

**PARCEL VIII**  
 479 DEGRAW STREET  
 aka 230 DOUGLASS STREET  
 BLOCK 417 - LOT 21  
 MOVIE EQUIPMENT  
 RENTAL/PARKING LOT

**PARCEL I**  
 270 NEVINS STREET  
 BLOCK 425 - LOT 1  
 FORMER WAREHOUSE/  
 MOVIE STUDIO  
 (UNDER CONSTRUCTION)

**PARCEL III**  
 537 SACKETT STREET  
 BLOCK 426 - LOT 1  
 TEXTBOOK WAREHOUSE/  
 PARKING LOT

**PARCEL IV**  
 560 DEGRAW STREET  
 BLOCK 426 - LOT 17  
 553 SACKETT STREET  
 BLOCK 426 - LOT 48  
 ROLL-OFF BIN STORAGE/ TRUCK  
 MAINTENANCE/CONSTRUCTION  
 MATERIALS STORAGE



REMEDIAL INVESTIGATION REPORT  
 FULTON MUNICIPAL WORKS FORMER MGP  
 BOROUGH OF BROOKLYN, NEW YORK

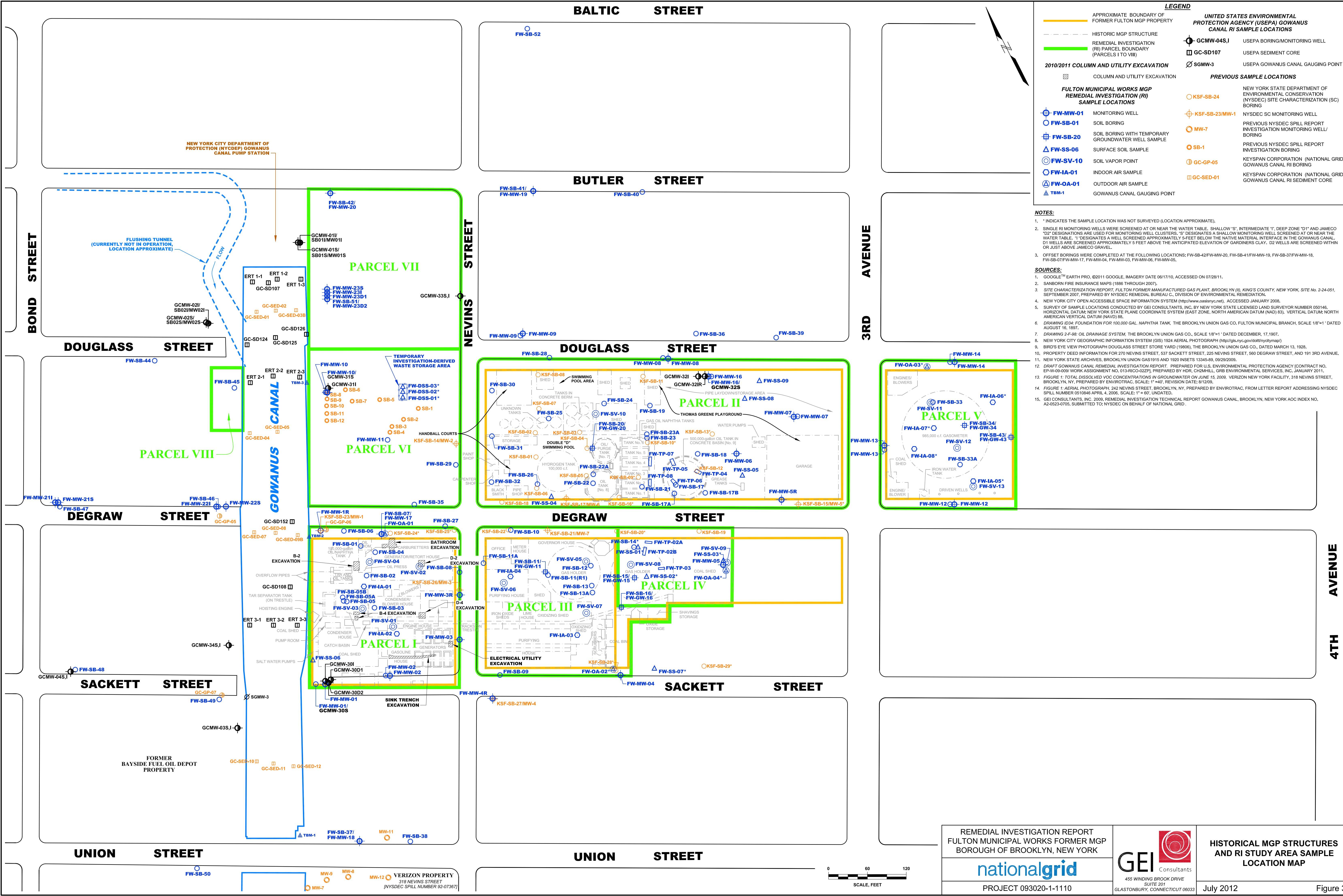


REMEDIAL INVESTIGATION  
 PARCEL IDENTIFICATION MAP

Project 093020-1-1110

July 2012

Figure 2



**LEGEND**

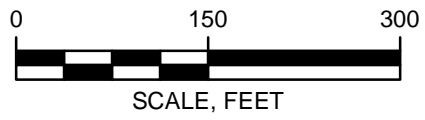
	APPROXIMATE BOUNDARY OF FORMER FULTON MGP PROPERTY		<b>UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) GOWANUS CANAL RI SAMPLE LOCATIONS</b>
	HISTORIC MGP STRUCTURE		<b>GCMW-04S,1</b> USEPA BORING/MONITORING WELL
	REMEDIAL INVESTIGATION (RI) PARCEL BOUNDARY (PARCELS I TO VIII)		<b>GC-SD107</b> USEPA SEDIMENT CORE
	<b>2010/2011 COLUMN AND UTILITY EXCAVATION</b>		<b>SGMW-3</b> USEPA GOWANUS CANAL GAUGING POINT
	COLUMN AND UTILITY EXCAVATION		<b>PREVIOUS SAMPLE LOCATIONS</b>
	<b>FULTON MUNICIPAL WORKS MGP REMEDIAL INVESTIGATION (RI) SAMPLE LOCATIONS</b>		<b>KSF-SB-24</b> NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) SITE CHARACTERIZATION (SC) BORING
	<b>FW-MW-01</b> MONITORING WELL		<b>KSF-SB-23/MW-1</b> NYSDEC SC MONITORING WELL
	<b>FW-SB-01</b> SOIL BORING		<b>MW-7</b> PREVIOUS NYSDEC SPILL REPORT INVESTIGATION MONITORING WELL/BORING
	<b>FW-SB-20</b> SOIL BORING WITH TEMPORARY GROUNDWATER WELL SAMPLE		<b>SB-1</b> PREVIOUS NYSDEC SPILL REPORT INVESTIGATION BORING
	<b>FW-SS-06</b> SURFACE SOIL SAMPLE		<b>GC-GP-05</b> KEYSAN CORPORATION (NATIONAL GRID) GOWANUS CANAL RI BORING
	<b>FW-SV-10</b> SOIL VAPOR POINT		<b>GC-SED-01</b> KEYSAN CORPORATION (NATIONAL GRID) GOWANUS CANAL RI SEDIMENT CORE
	<b>FW-IA-01</b> INDOOR AIR SAMPLE		
	<b>FW-OA-01</b> OUTDOOR AIR SAMPLE		
	<b>TBM-1</b> GOWANUS CANAL GAUGING POINT		

- NOTES:**
- \* INDICATES THE SAMPLE LOCATION WAS NOT SURVEYED (LOCATION APPROXIMATE).
  - SINGLE RI MONITORING WELLS WERE SCREENED AT OR NEAR THE WATER TABLE. SHALLOW "S", INTERMEDIATE "I", DEEP ZONE "D1" AND JAMECO "D2" DESIGNATIONS ARE USED FOR MONITORING WELL CLUSTERS. "S" DESIGNATES A SHALLOW MONITORING WELL SCREENED AT OR NEAR THE WATER TABLE. "I" DESIGNATES A WELL SCREENED APPROXIMATELY 5 FEET BELOW THE NATIVE MATERIAL INTERFACE IN THE GOWANUS CANAL. "D1" WELLS ARE SCREENED APPROXIMATELY 5 FEET ABOVE THE ANTICIPATED ELEVATION OF GARDINER'S CLAY. "D2" WELLS ARE SCREENED WITHIN OR JUST ABOVE JAMECO GRAVEL.
  - OFFSET BORINGS WERE COMPLETED AT THE FOLLOWING LOCATIONS: FW-SB-42/FW-MW-20, FW-SB-41/FW-MW-19, FW-SB-37/FW-MW-18, FW-SB-07/FW-MW-17, FW-MW-04, FW-MW-03, FW-MW-06, FW-MW-05.
- SOURCES:**
- GOOGLE™ EARTH PRO, ©2011 GOOGLE, IMAGERY DATE 06/17/10, ACCESSED ON 07/28/11.
  - SANBORN FIRE INSURANCE MAPS (1886 THROUGH 2007).
  - SITE CHARACTERIZATION REPORT, FULTON FORMER MANUFACTURED GAS PLANT, BROOKLYN (II), KING'S COUNTY, NEW YORK, SITE NO. 2-24-051, SEPTEMBER 2007, PREPARED BY NYSDEC REMEDIAL BUREAU C, DIVISION OF ENVIRONMENTAL REMEDIATION.
  - NEW YORK CITY OPEN ACCESSIBLE SPACE INFORMATION SYSTEM (<http://www.casir.nyc.gov>), ACCESSED JANUARY 2008.
  - SURVEY OF SAMPLE LOCATIONS CONDUCTED BY GEI CONSULTANTS, INC. BY NEW YORK STATE LICENSED LAND SURVEYOR NUMBER 050146, HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE, NORTH AMERICAN DATUM (NAD) 83), VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVOD) 88.
  - DRAWING ID34: FOUNDATION FOR 100,000 GAL. NAPHTHA TANK, THE BROOKLYN UNION GAS CO., FULTON MUNICIPAL BRANCH, SCALE 1/8"=1' DATED AUGUST 16, 1997.
  - DRAWING 2-F-98: OIL DRAINAGE SYSTEM, THE BROOKLYN UNION GAS CO., SCALE 1/8"=1' DATED DECEMBER, 17, 1907.
  - NEW YORK CITY GEOGRAPHIC INFORMATION SYSTEM (GIS) 1924 AERIAL PHOTOGRAPH (<http://gis.nyc.gov/dot/nycitymap/>)
  - BIRD'S EYE VIEW PHOTOGRAPH DOUGLASS STREET STORE YARD (1965), THE BROOKLYN UNION GAS CO., DATED MARCH 13, 1928.
  - PROPERTY DEED INFORMATION FOR 270 NEVINS STREET, 537 SACKETT STREET, 225 NEVINS STREET, 560 DEGRAW STREET, AND 191 3RD AVENUE, BROOKLYN, NY, PREPARED BY ENVIROTRAC, SCALE: 1"=40', REVISION DATE: 9/12/09.
  - NEW YORK STATE ARCHIVES, BROOKLYN UNION GAS 1915 AND 1920 INSETS 13345-89, 09/29/2009.
  - DRAFT GOWANUS CANAL REMEDIAL INVESTIGATION REPORT, PREPARED FOR U.S. ENVIRONMENTAL PROTECTION AGENCY (CONTRACT NO. EP-W-09-009) WORK ASSIGNMENT NO. 013-RIC0-022P), PREPARED BY HDR, CH2MHILL, GRB ENVIRONMENTAL SERVICES, INC. JANUARY 2011.
  - FIGURE 1: TOTAL DISSOLVED VOC CONCENTRATIONS IN GROUNDWATER ON JUNE 15, 2009. VERIZON NEW YORK FACILITY, 318 NEVINS STREET, BROOKLYN, NY, PREPARED BY ENVIROTRAC, SCALE: 1"=40', REVISION DATE: 9/12/09.
  - FIGURE 1: AERIAL PHOTOGRAPH, 242 NEVINS STREET, BROOKLYN, NY, PREPARED BY ENVIROTRAC, FROM LETTER REPORT ADDRESSING NYSDEC SPILL NUMBER 0510846 APRIL 4, 2006, SCALE: 1"=60', UNDATED.
  - GEI CONSULTANTS, INC. 2009, REMEDIAL INVESTIGATION TECHNICAL REPORT GOWANUS CANAL, BROOKLYN, NEW YORK AOC INDEX NO. A2-0523-0705, SUBMITTED TO: NYSDEC ON BEHALF OF NATIONAL GRID.

REMEDIAL INVESTIGATION REPORT FULTON MUNICIPAL WORKS FORMER MGP BOROUGH OF BROOKLYN, NEW YORK				<b>HISTORICAL MGP STRUCTURES AND RI STUDY AREA SAMPLE LOCATION MAP</b>
PROJECT 093020-1-1110		July 2012	Suite 201 GLASTONBURY, CONNECTICUT 06033	Figure 3



**SOURCES:**  
 1. BING MAPS © 2008 MICROSOFT CORP.  
 2. NEW YORK CITY DEPARTMENT OF CITY PLANNING MapPLUTO, UPDATED NOVEMBER 2009.



REMEDIAL INVESTIGATION REPORT  
 FULTON MUNICIPAL WORKS FORMER MGP  
 BOROUGH OF BROOKLYN, NEW YORK

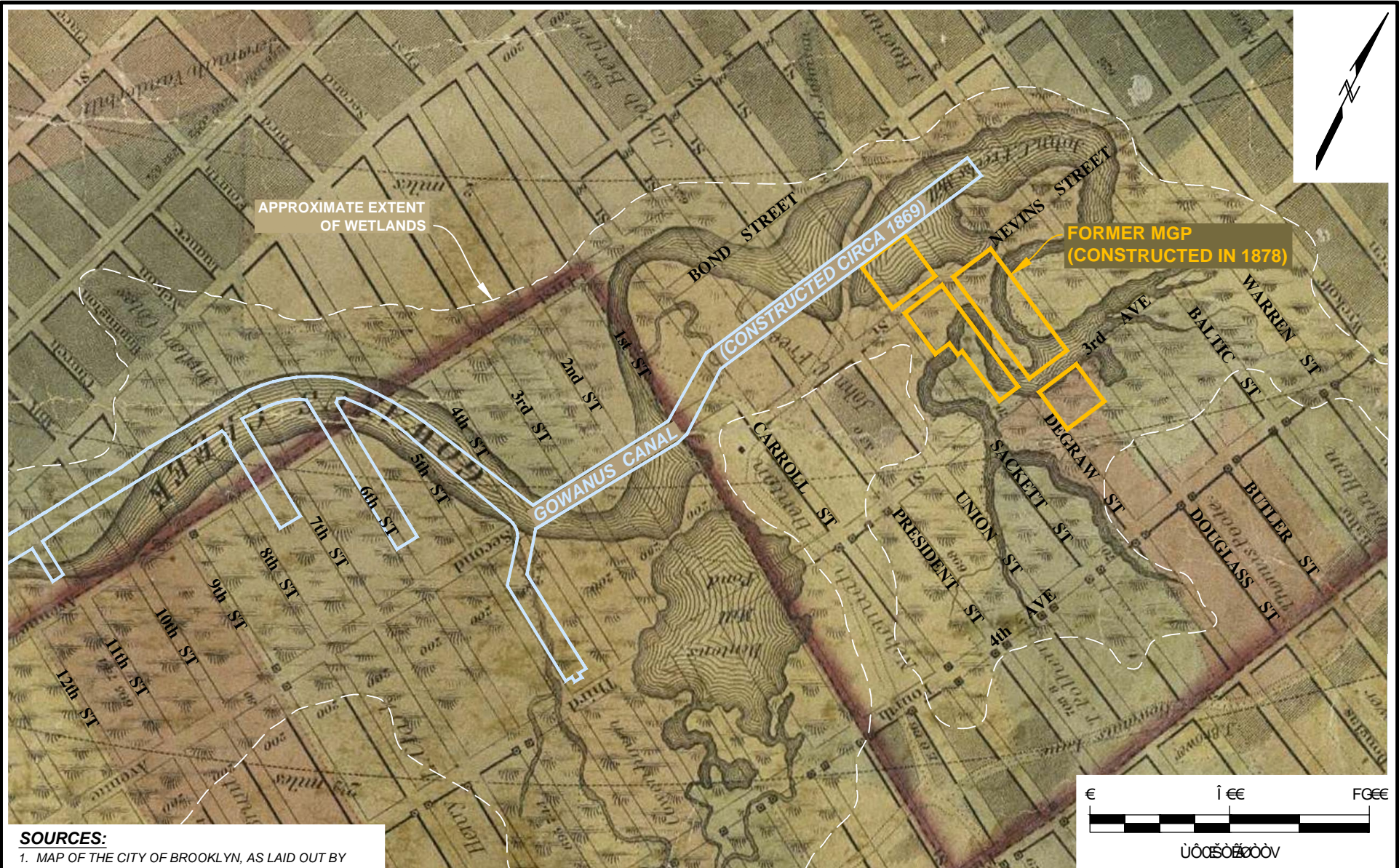


LAND USE SUMMARY

Project 093020-1-1110

July 2012

Figure 4



**SOURCES:**

1. MAP OF THE CITY OF BROOKLYN, AS LAID OUT BY COMMISSIONERS AND CONFIRMED BY ACTS OF THE LEGISLATURE OF THE STATE OF NEW YORK, 1849.

ΕΠΙΧΕΙΡΗΣΙΑΚΟ ΠΡΟΓΡΑΜΜΑ  
 ΟΜΟΣΠΟΝΔΙΑΚΟ ΠΡΟΓΡΑΜΜΑ  
 ΟΜΟΣΠΟΝΔΙΑΚΟ ΠΡΟΓΡΑΜΜΑ

**nationalgrid**



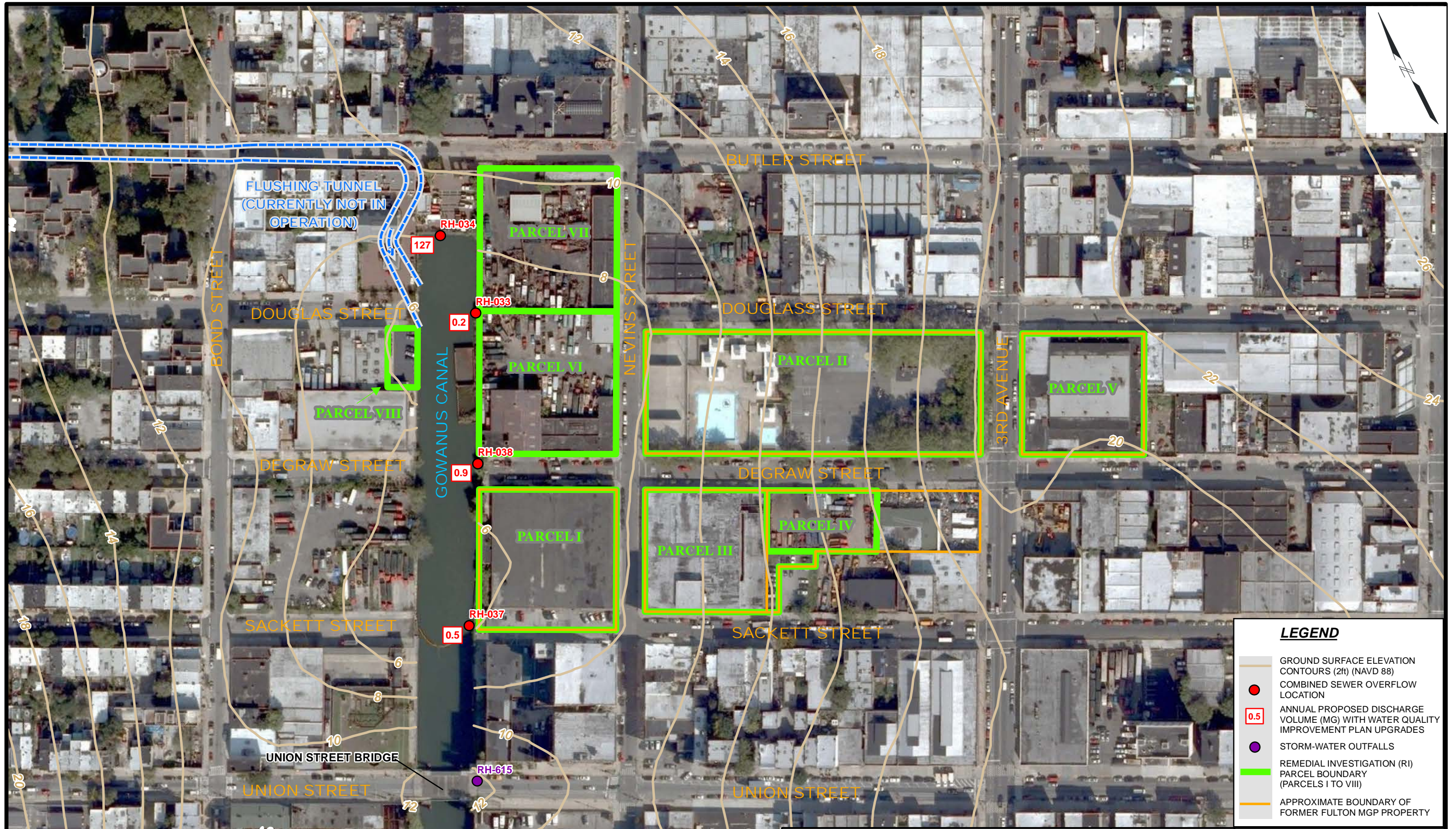
1849 MAP OF SITE VICINITY

ΕΠΙΧΕΙΡΗΣΙΑΚΟ ΠΡΟΓΡΑΜΜΑ

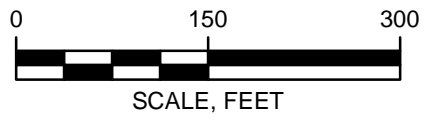
ΕΠΙΧΕΙΡΗΣΙΑΚΟ ΠΡΟΓΡΑΜΜΑ

ΕΠΙΧΕΙΡΗΣΙΑΚΟ ΠΡΟΓΡΑΜΜΑ





**SOURCES:**  
 1. BING MAPS © 2008 MICROSOFT CORP.  
 2. BROOKLYN SEWER MAP; PREPARED FOR: NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION (NYC DEP) BUREAU OF WATER AND SEWER OPERATIONS ENGINEERING  
 3. FIGURE 3-6: GOWANUS CANAL SEWERSHED-SEWER SYSTEM COMPONENTS FROM GOWANUS CANAL WATERBODY/WATERSHED FACILITY PLAN REPORT; CITY-WIDE LONG TERM CSO CONTROL PLANNING PROJECT; PREPARED BY: THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTECTION (NYC DEP) BUREAU OF ENGINEERING DESIGN AND CONSTRUCTION; DATE: AUGUST 29, 2008.



REMEDIAL INVESTIGATION REPORT  
 FULTON MUNICIPAL WORKS FORMER MGP  
 BOROUGH OF BROOKLYN, NEW YORK



**LEGEND**

- GROUND SURFACE ELEVATION CONTOURS (2ft) (NAVD 88)
- COMBINED SEWER OVERFLOW LOCATION
- ANNUAL PROPOSED DISCHARGE VOLUME (MG) WITH WATER QUALITY IMPROVEMENT PLAN UPGRADES
- STORM-WATER OUTFALLS
- REMEDIAL INVESTIGATION (RI) PARCEL BOUNDARY (PARCELS I TO VIII)
- APPROXIMATE BOUNDARY OF FORMER FULTON MGP PROPERTY

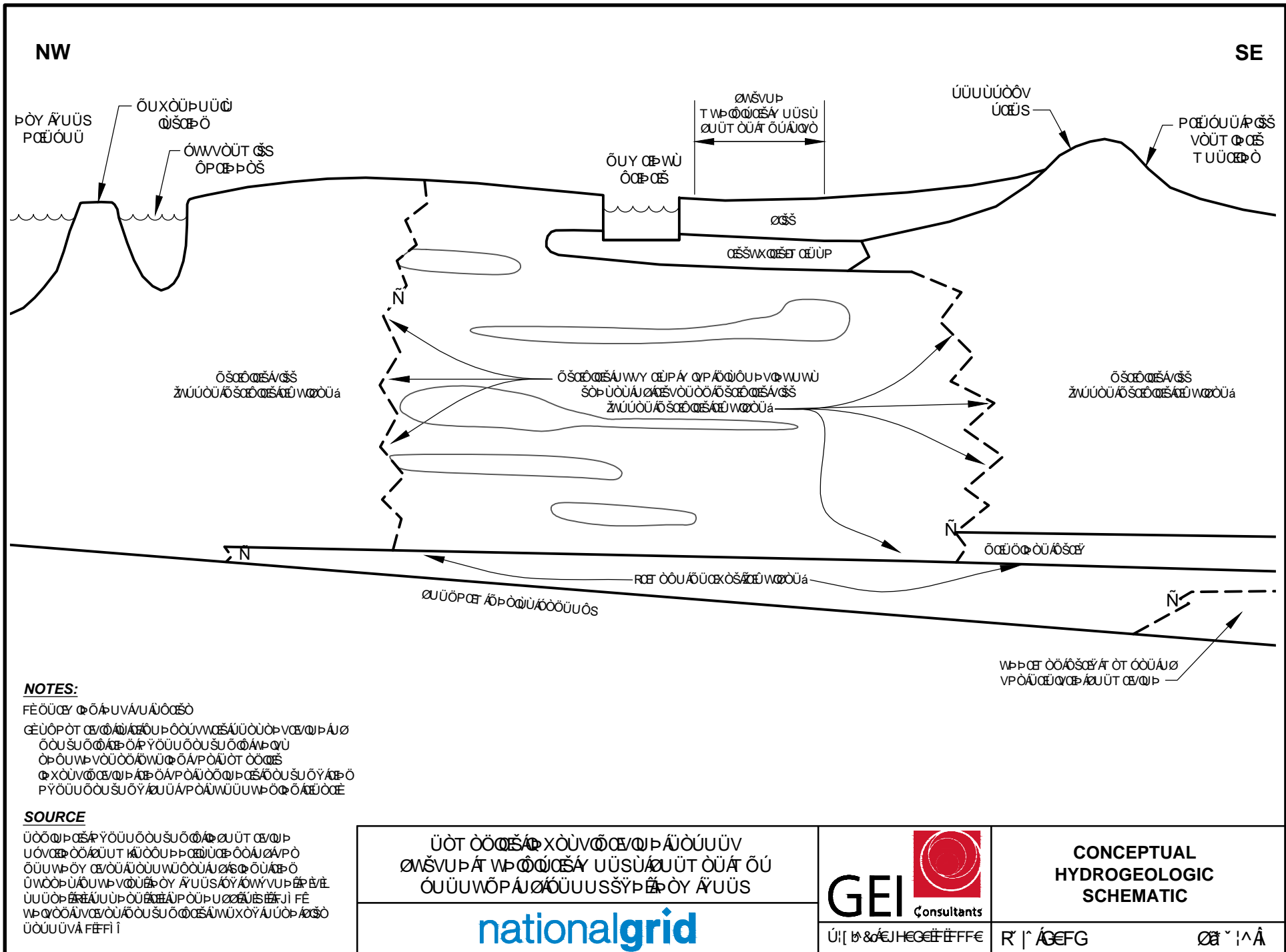
**TOPOGRAPHY AND SURFACE WATER FEATURES**

Proj 093020-1-1110

July 2012

Figure 7





ΥΠΟ ΤΗΝ ΕΠΙΧΕΙΡΗΣΗ ΤΗΣ ΕΡΕΥΝΑΣ ΕΠΙΧΕΙΡΗΣΕΙΣ  
 ΟΡΥΣΤΕΙΝΟΝ ΤΟΝ ΚΑΤΑΣΤΑΣΗ ΤΗΣ ΓΕΩΛΟΓΙΑΣ  
 ΟΡΥΣΤΕΙΝΟΝ ΤΟΝ ΚΑΤΑΣΤΑΣΗ ΤΗΣ ΓΕΩΛΟΓΙΑΣ  
 ΟΡΥΣΤΕΙΝΟΝ ΤΟΝ ΚΑΤΑΣΤΑΣΗ ΤΗΣ ΓΕΩΛΟΓΙΑΣ



**CONCEPTUAL  
 HYDROGEOLOGIC  
 SCHEMATIC**



ΥΠΟ ΤΗΝ ΕΠΙΧΕΙΡΗΣΗ ΤΗΣ ΕΡΕΥΝΑΣ ΕΠΙΧΕΙΡΗΣΕΙΣ  
 ΟΡΥΣΤΕΙΝΟΝ ΤΟΝ ΚΑΤΑΣΤΑΣΗ ΤΗΣ ΓΕΩΛΟΓΙΑΣ  
 ΟΡΥΣΤΕΙΝΟΝ ΤΟΝ ΚΑΤΑΣΤΑΣΗ ΤΗΣ ΓΕΩΛΟΓΙΑΣ

**LEGEND**

ΣΥΝΟΛΟ ΚΑΤΑΣΤΡΟΦΩΝ  
ΣΥΝΟΛΟ

**REGULATORY RECORDS**

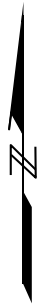
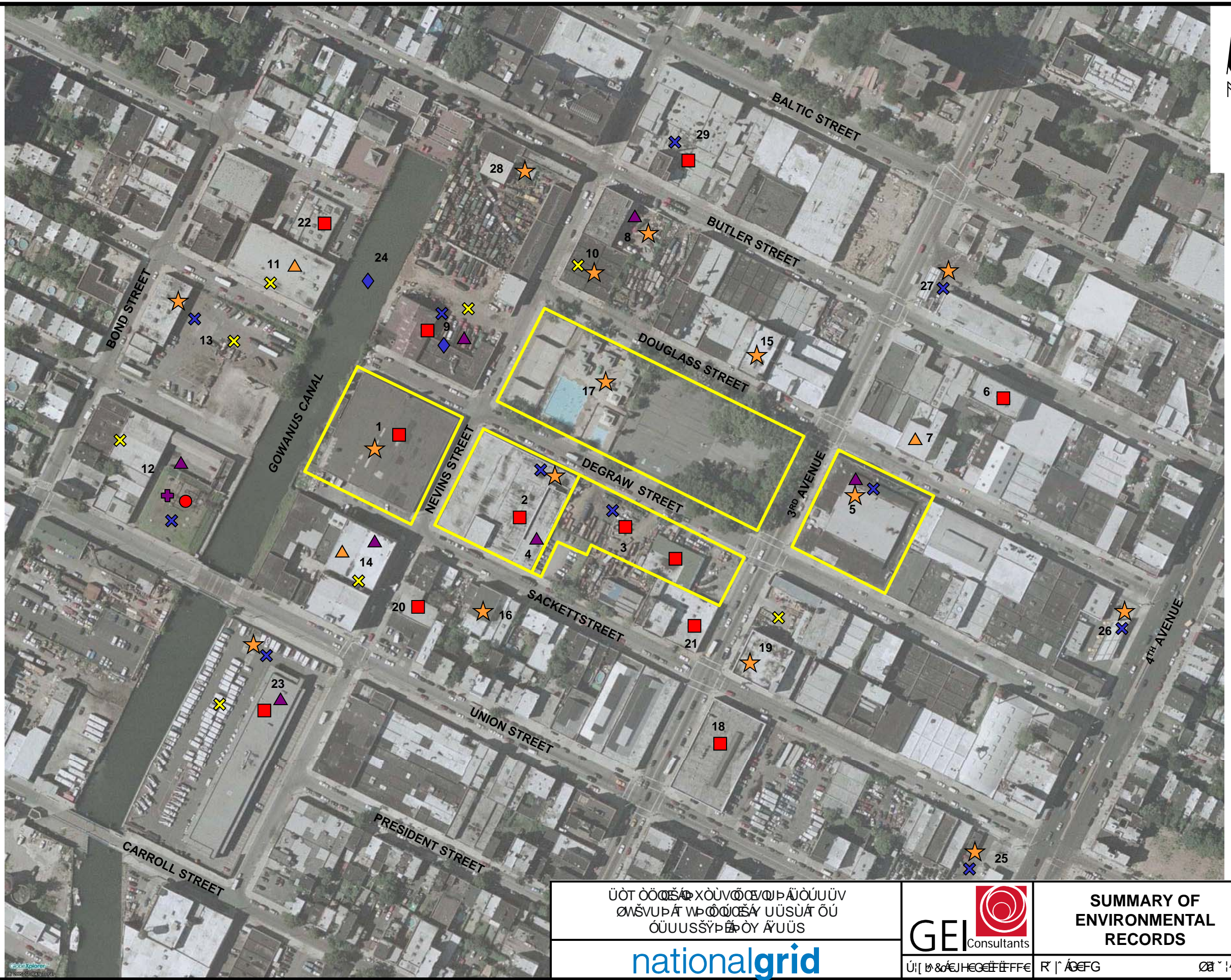
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- ▲ ΠΕΡΙΒΑΛΛΟΝΤΙΚΟΙ ΚΑΤΑΣΤΡΟΦΩΝ
- ΤΑΧΥΡΥΘΜΗ ΑΝΑΠΟΤΕΛΕΣΜΑΤΑ
- ★ ΤΑΧΥΡΥΘΜΗ ΑΝΑΠΟΤΕΛΕΣΜΑΤΑ
- ✕ ΠΕΡΙΒΑΛΛΟΝΤΙΚΟΙ ΚΑΤΑΣΤΡΟΦΩΝ

**HISTORIC LAND USE**

- ✕ ΟΥΣΙΑΣΜΕΝΟΙ ΟΥΔΕΝΟΙ
- ★ ΑΓΡΟΤΙΚΗ ΧΡΗΣΗ
- ΤΑΧΥΡΥΘΜΗ ΑΝΑΠΟΤΕΛΕΣΜΑΤΑ
- ✚ ΠΕΡΙΒΑΛΛΟΝΤΙΚΟΙ ΚΑΤΑΣΤΡΟΦΩΝ
- ▲ ΟΠΟΙΟΤΙΣΜΕΝΟΙ ΟΥΔΕΝΟΙ

**NOTES:**

ΕΙΣ ΤΟΝ ΠΛΑΝΟΝ ΕΙΣΛΕΦΘΗΚΑΝ ΟΙ ΚΑΤΑΣΤΡΟΦΩΝ ΚΑΙ ΧΡΗΣΕΩΣ ΓΕΩΡΓΙΑΣ ΚΑΙ ΚΑΡΤΕΡΑΣ ΚΑΙ ΟΙ ΚΑΤΑΣΤΡΟΦΩΝ ΚΑΙ ΧΡΗΣΕΩΣ ΓΕΩΡΓΙΑΣ ΚΑΙ ΚΑΡΤΕΡΑΣ ΚΑΙ ΟΙ ΚΑΤΑΣΤΡΟΦΩΝ ΚΑΙ ΧΡΗΣΕΩΣ ΓΕΩΡΓΙΑΣ ΚΑΙ ΚΑΡΤΕΡΑΣ



**SOURCE:**  
ΕΡΓΟ ΔΙΑΧΕΙΡΙΣΗΣ ΚΑΤΑΣΤΡΟΦΩΝ ΚΑΙ ΧΡΗΣΕΩΣ ΓΕΩΡΓΙΑΣ ΚΑΙ ΚΑΡΤΕΡΑΣ

ΣΥΝΟΛΟ ΚΑΤΑΣΤΡΟΦΩΝ ΚΑΙ ΧΡΗΣΕΩΣ ΓΕΩΡΓΙΑΣ ΚΑΙ ΚΑΡΤΕΡΑΣ  
ΣΥΝΟΛΟ



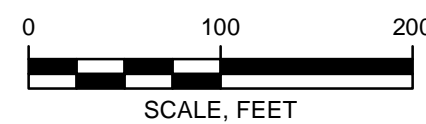
**SUMMARY OF ENVIRONMENTAL RECORDS**

ΕΡΓΟ ΔΙΑΧΕΙΡΙΣΗΣ ΚΑΤΑΣΤΡΟΦΩΝ ΚΑΙ ΧΡΗΣΕΩΣ ΓΕΩΡΓΙΑΣ ΚΑΙ ΚΑΡΤΕΡΑΣ



**SOURCES:**

1. BING MAPS © 2008 MICROSOFT CORP.
2. WETLAND EXTENT DERIVED FROM MAP OF THE CITY OF BROOKLYN, AS LAID OUT BY COMMISSIONERS AND CONFIRMED BY ACTS OF THE LEGISLATURE OF THE STATE OF NEW YORK, PUBLISHED BY J.H. COLTON, NEW YORK, 1849.



REMEDIAL INVESTIGATION REPORT  
 FULTON MUNICIPAL WORKS FORMER MGP  
 BOROUGH OF BROOKLYN, NEW YORK



PROJECT 093020-1-1110



455 WINDING BROOK DRIVE  
 SUITE 201  
 GLASTONBURY, CONNECTICUT 06033

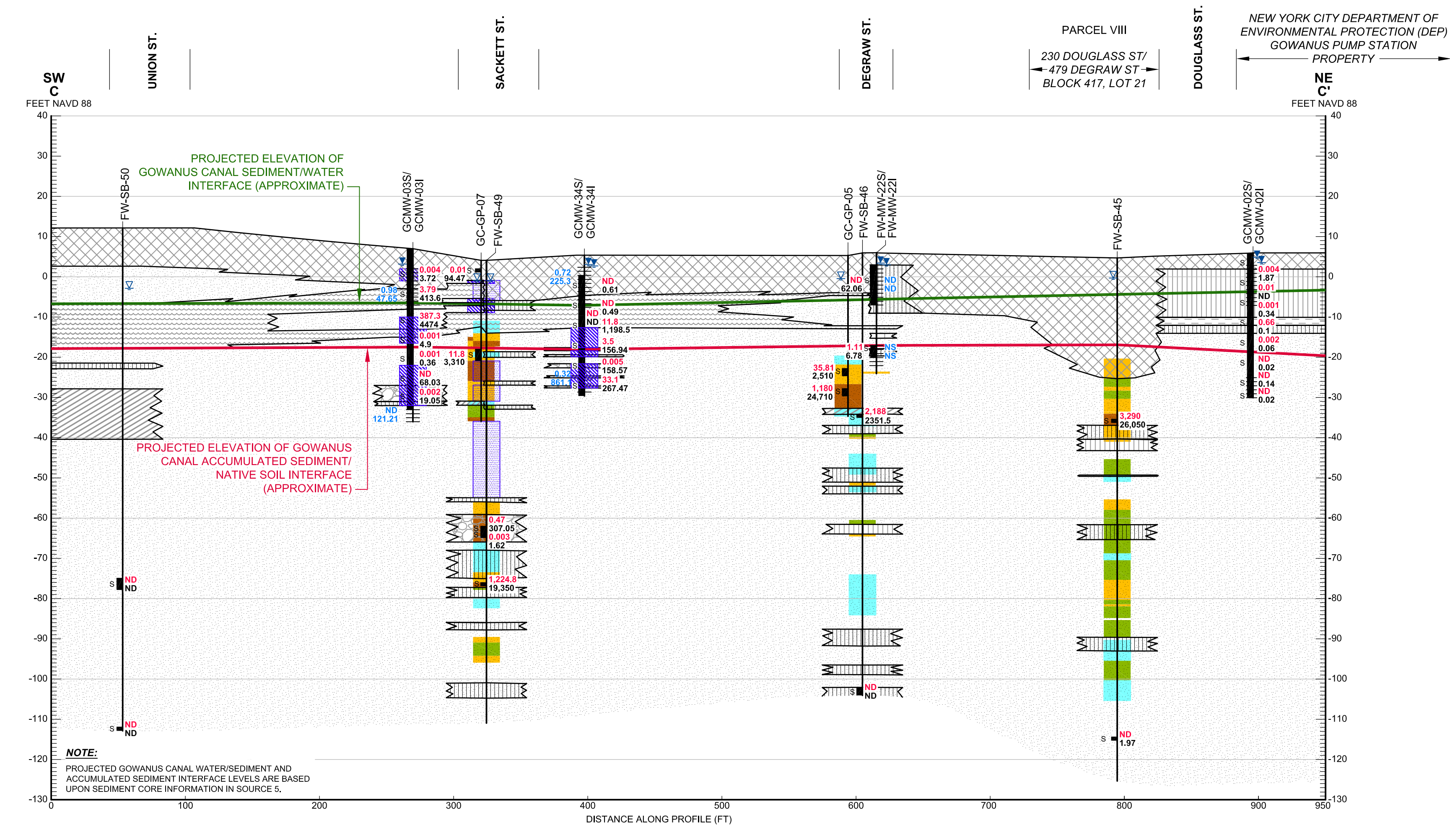
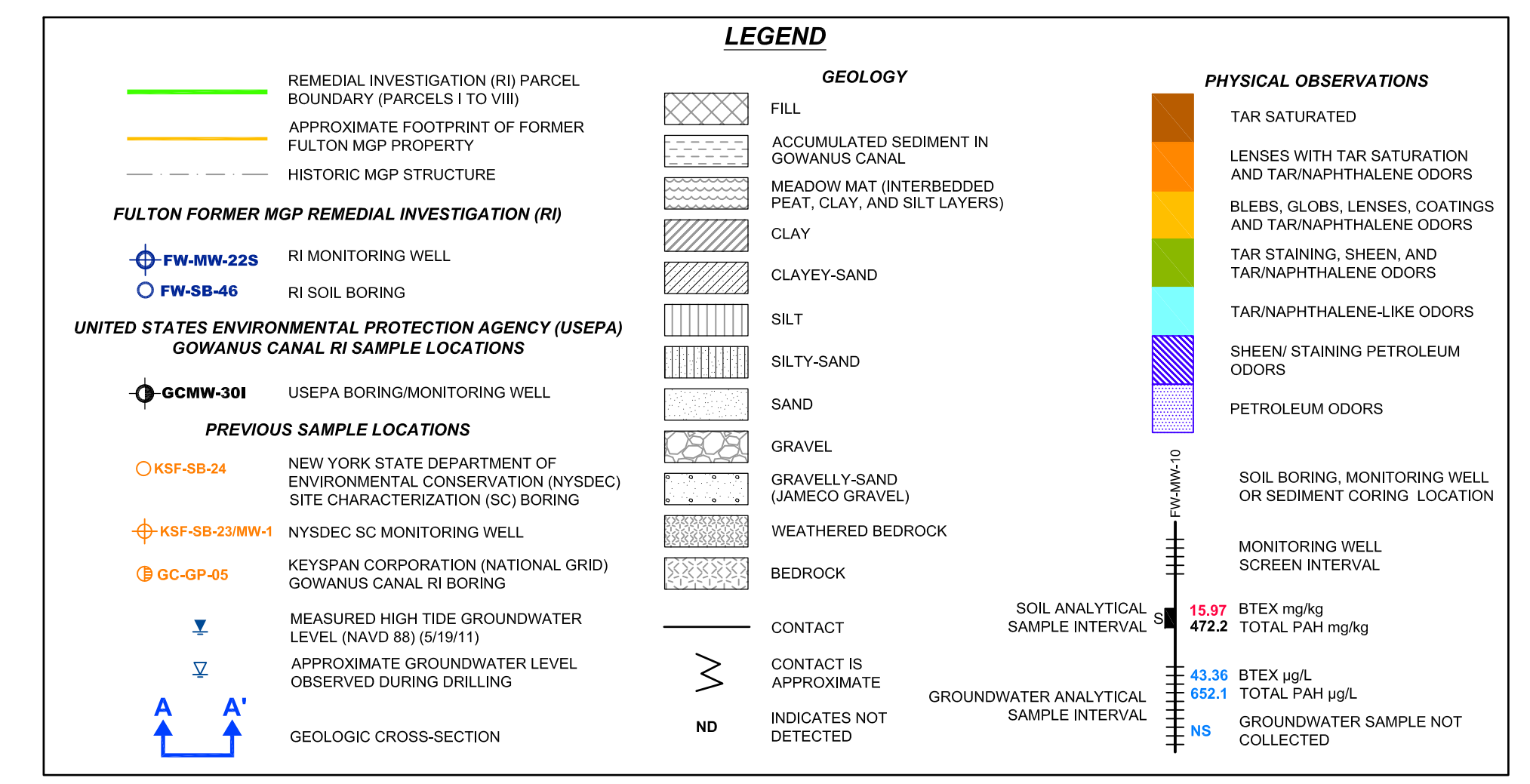
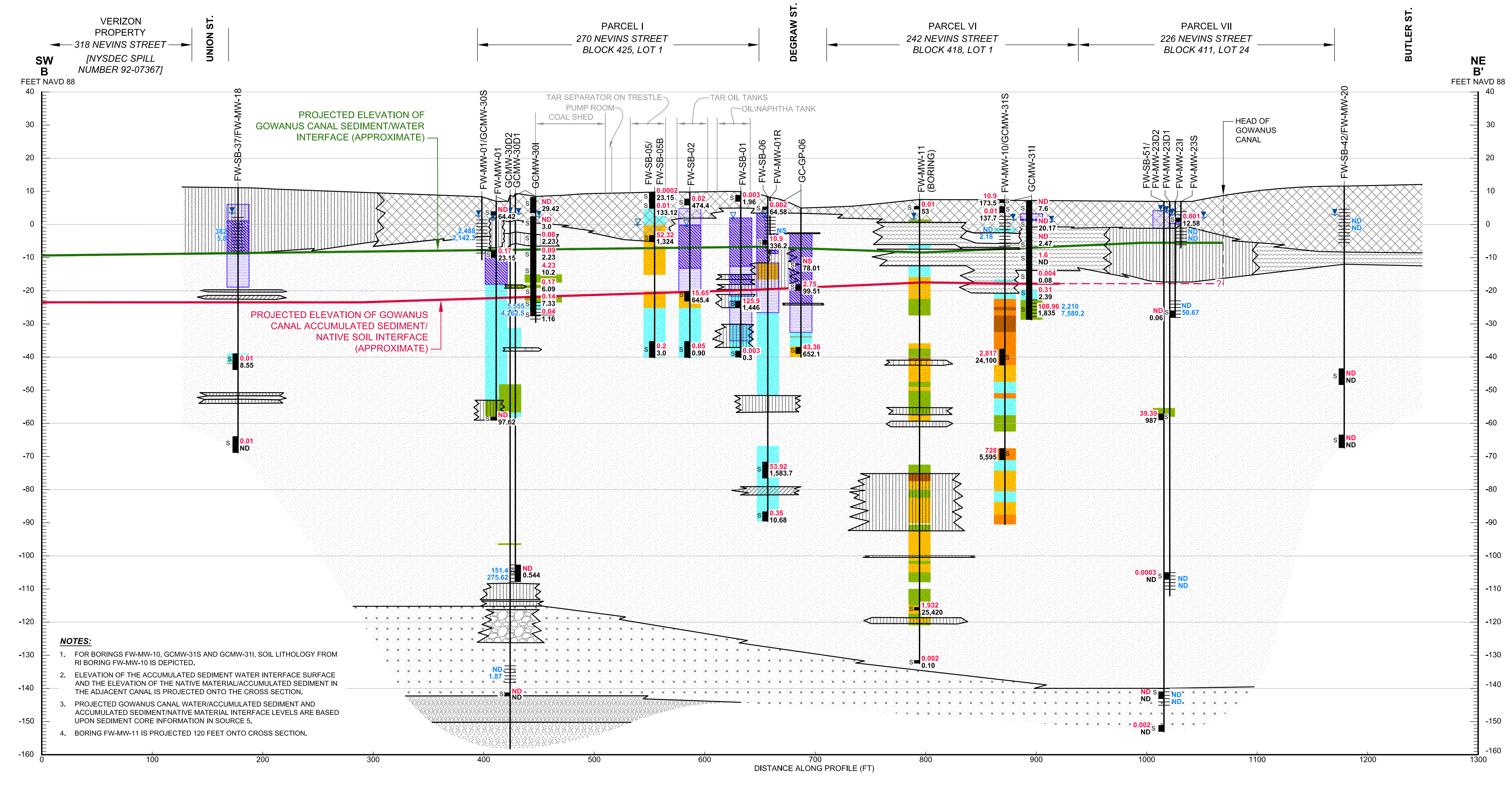
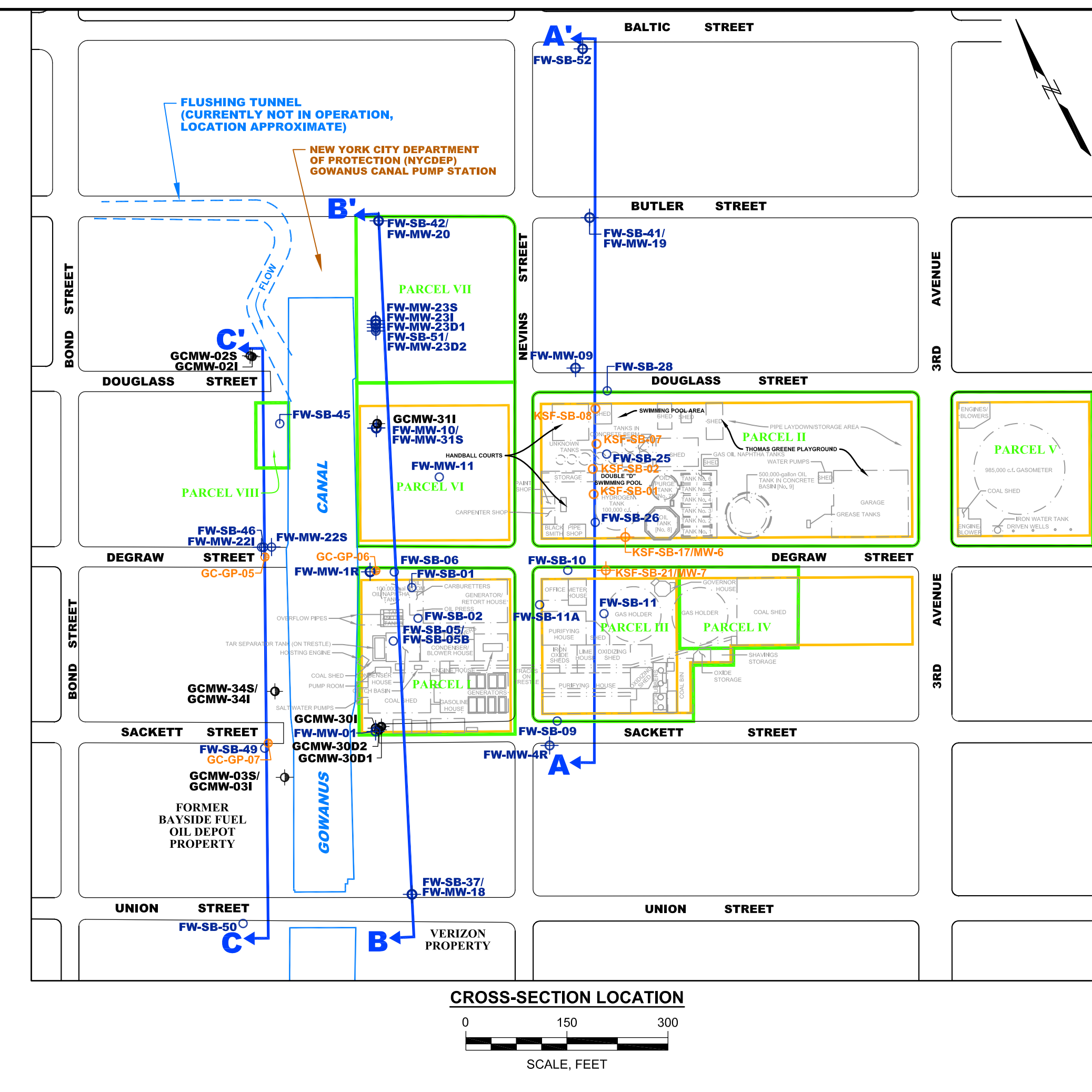
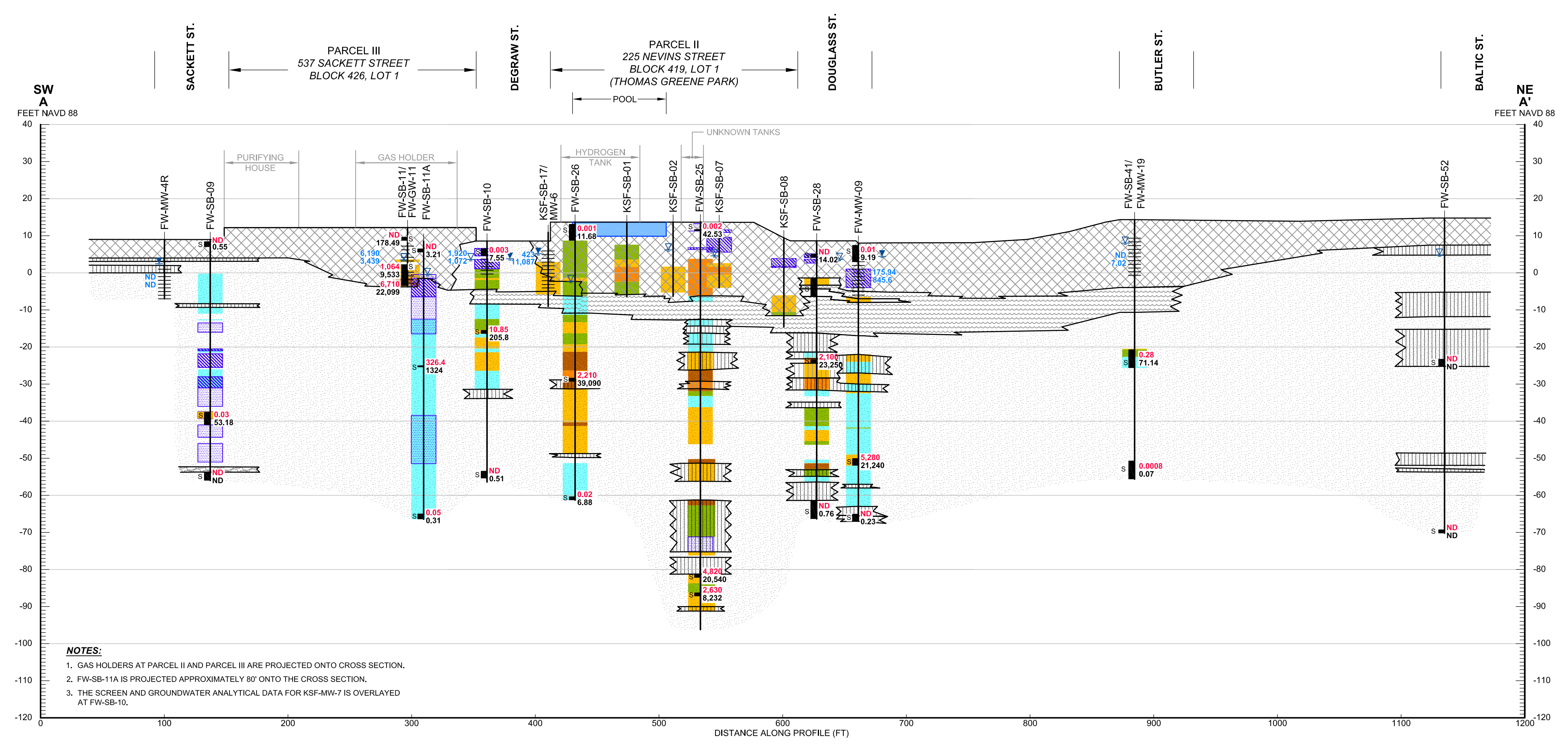
**LEGEND**

- MEADOW MAT NOT ENCOUNTERED IN SOIL BORING
- MEADOW MAT ENCOUNTERED IN SOIL BORING
- FW-SB-01 BORING/WELL ID
- 6.30  
5 ELEVATION OF MEADOW MAT (FT) (NAV88)  
THICKNESS OF MEADOW MAT (FT)
- MAPPED FORMER EXTENT OF WETLAND
- REMEDIAL INVESTIGATION (RI)  
PARCEL BOUNDARY  
(PARCELS I TO VIII)
- APPROXIMATE BOUNDARY OF FORMER  
FULTON MGP PROPERTY

**EXTENT OF OBSERVED MARSH DEPOSITS**

July 2012

Figure 10



- NOTES:**
1. NYSDC SC BORINGS HAVE NOT BEEN SURVEYED AND SHOULD BE CONSIDERED APPROXIMATE.
  2. BTEX IS THE SUM OF DETECTED CONCENTRATIONS OF BENZENE, TOLUENE, ETHYL BENZENE, AND XYLENES. TOTAL PAH IS THE SUM OF POLYCYCLIC AROMATIC HYDROCARBONS. NO INDICATED BTEX/PAH WERE NOT DETECTED.
  3. mg/L - MILLIGRAM KILOGRAM PARTS PER MILLION (PPM); µg/L - MICROGRAM LITER PARTS PER MILLION (PPB).
  4. THIS FIGURE SUMMARIZES VALIDATED LABORATORY ANALYTICAL DATA COLLECTED DURING THE FULTON MGP IS ACTIVITIES AND GOWANUS CANAL RI INVESTIGATION (SOURCES 4 & 5) AND PHYSICAL IMPACT INFORMATION COLLECTED BY NYSDC SC ACTIVITIES (SOURCE 3). UNVALIDATED SC DATA IS NOT PRESENTED.
- SOURCES:**
1. GOOGLE™ EARTH PRO, 62511 GOOGLE, IMAGERY DATE 06/17/10, ACCESSED ON 07/28/11.
  2. SANBORN FIRE INSURANCE MAPS (1886 THROUGH 2007).
  3. SITE CHARACTERIZATION REPORT, FULTON FORMER MANUFACTURED GAS PLANT, BROOKLYN (IN KING'S COUNTY, NEW YORK, SITE NO. 2-24-05), SEPTEMBER 2007, PREPARED BY NYSDC REMEDIAL BUREAU, DIVISION OF ENVIRONMENTAL RESTORATION.
  4. DRIFT GOWANUS CANAL REMEDIATION INVESTIGATION REPORT, PREPARED FOR U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) CONTRACT NO. DW-69-6039 WORK ASSIGNMENT NO. 013-6030-0227, PREPARED BY HEIR, CHOMMILL, GIB ENVIRONMENTAL SERVICES, INC., JANUARY 2011.
  5. REMEDIATION INVESTIGATION TECHNICAL REPORT, GOWANUS CANAL, BROOKLYN, NEW YORK NYSDC AOC INDEX NO. A2-023-0106, PREPARED BY GEI CONSULTANTS, INC., DECEMBER 2008.
  6. SURVEY OF SAMPLE LOCATIONS CONDUCTED BY GEI CONSULTANTS, INC., BY NEW YORK STATE LICENSED LAND SURVEYOR NUMBER 050164, HORIZONTAL DATUM: NORTH AMERICAN DATUM, 1983; VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD) 88.
  7. PROPERTY DEED INFORMATION FOR 270 NEVINS STREET, 537 SACKETT STREET, 225 NEVINS STREET, 300 DEGRAW STREET, AND 191 3RD AVENUE.

REMEDIAL INVESTIGATION REPORT  
FULTON MUNICIPAL WORKS FORMER MGP  
BOROUGH OF BROOKLYN, NEW YORK

**nationalgrid**

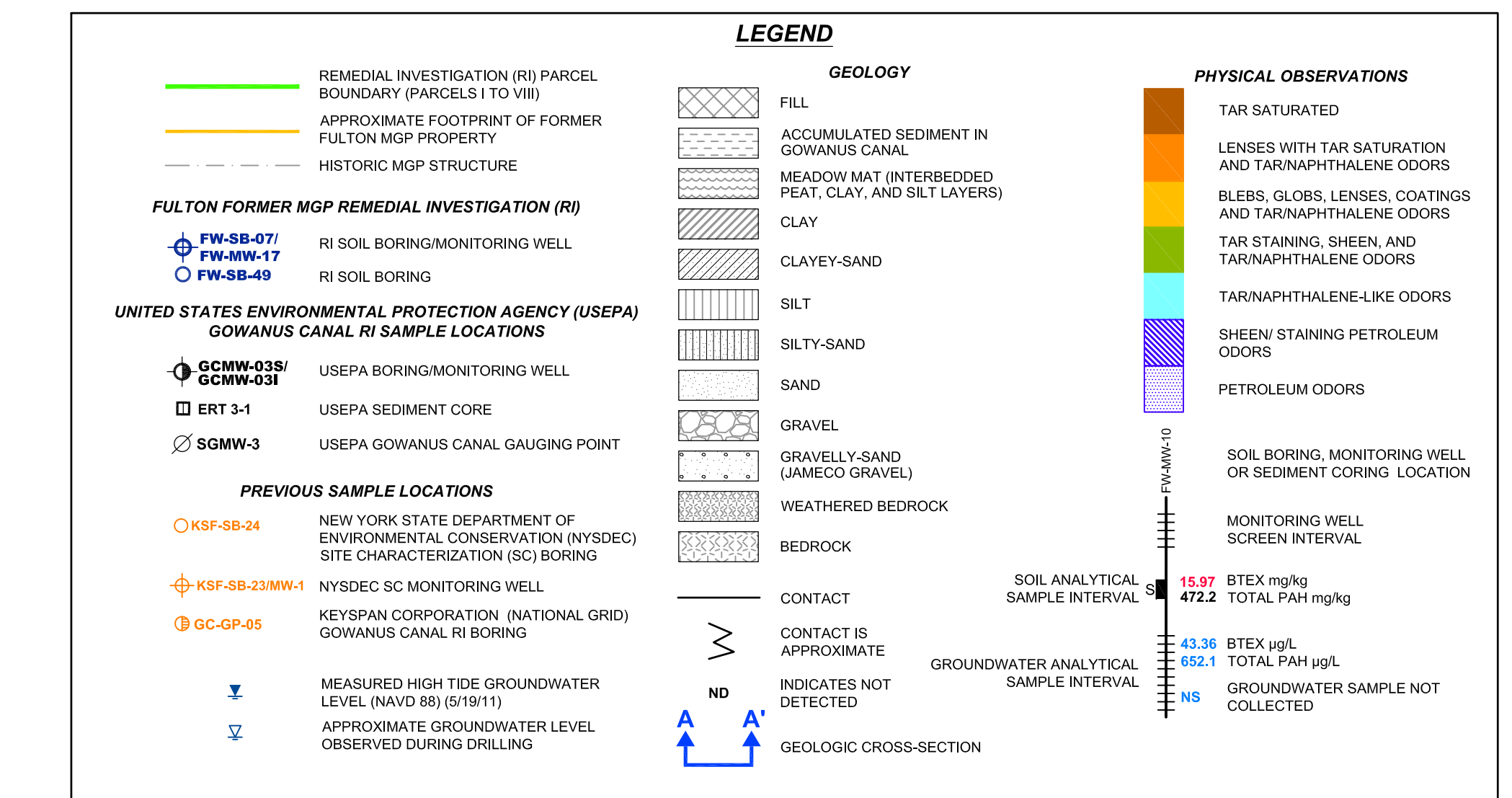
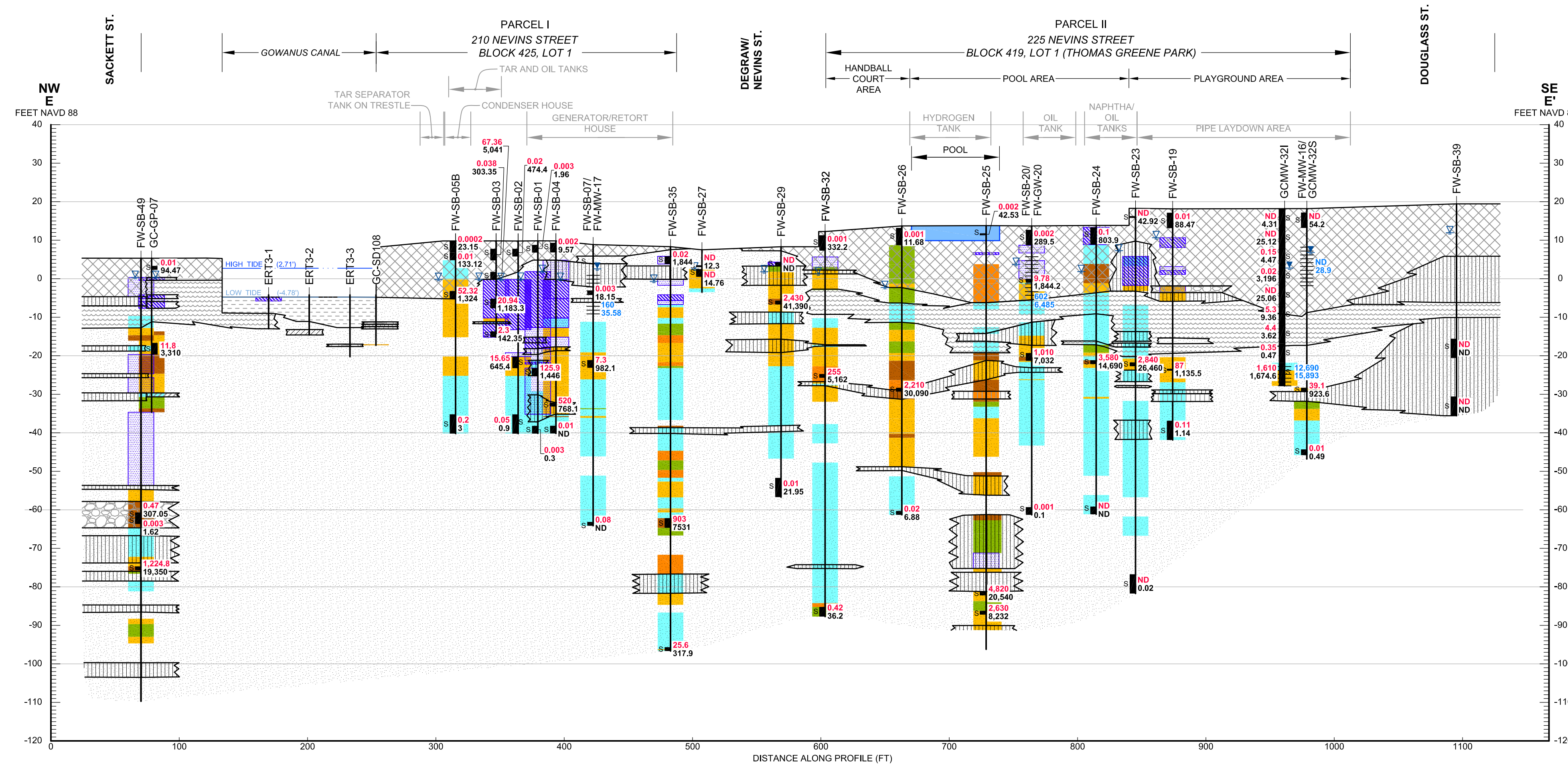
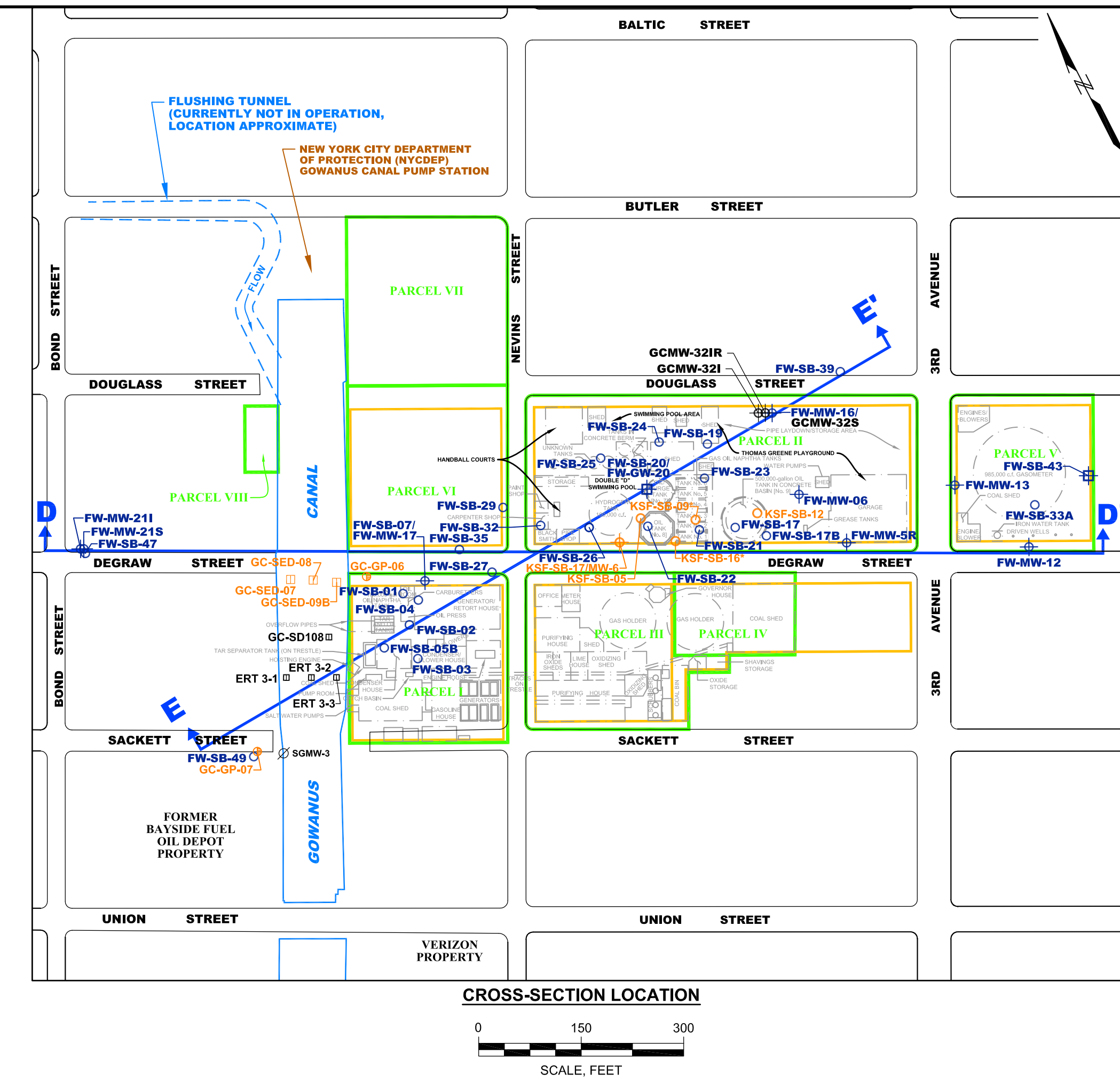
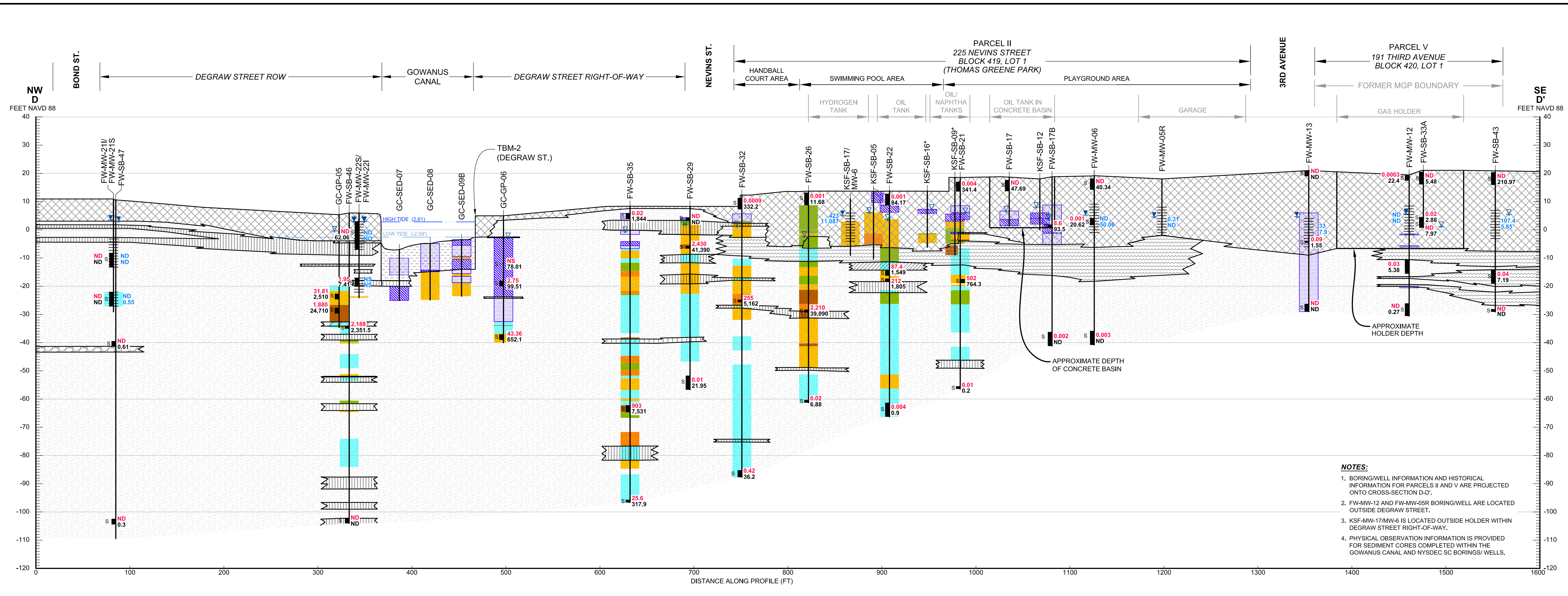
Project 093020-1-1110

**GEI** Consultants  
455 WINDING BROOK DRIVE  
GLASTONBURY, CONNECTICUT 06033

July 2012

**GEOLOGIC CROSS SECTIONS  
A-A', B-B' AND C-C'  
WITH PHYSICAL IMPACTS AND  
ANALYTICAL SUMMARY**

Figure 11



- NOTES:**
- HIGH AND LOW TIDE MEASUREMENTS IN GOWANUS CANAL WERE TAKEN FROM THE DEGRAW STREET TIDAL GAUGING MEASURING POINT (TBM-2) ON 5/19/11.
  - INDICATES THE LOCATION OF THE BORINGS AND MONITORING WELLS HAVE NOT BEEN SURVEYED AND SHOULD BE CONSIDERED APPROXIMATE.
  - BTEX IS THE SUM OF DETECTED CONCENTRATIONS OF BENZENE, TOLUENE, ETHYL BENZENE, AND XYLENES. TOTAL PAH IS THE SUM OF POLYCYCLIC AROMATIC HYDROCARBONS. ND INDICATES BTEX/PAH WERE NOT DETECTED.
  - mg/kg - MILLIGRAM KILOGRAM [PARTS PER MILLION (PPM)]; µg/L - MICROGRAM LITER [PARTS PER BILLION (PPB)].
  - THIS FIGURE SUMMARIZES VALIDATED LABORATORY ANALYTICAL DATA COLLECTED DURING THE FULTON MGP RI ACTIVITIES AND GOWANUS CANAL RI INVESTIGATION (SOURCES 4 & 5) AND PHYSICAL IMPACT INFORMATION COLLECTED BY NYSDEC SC ACTIVITIES (SOURCE 3). UNVALIDATED SC DATA IS NOT PRESENTED.

- SOURCES:**
- GOOGLE™ EARTH PRO. ©2011 GOOGLE. IMAGERY DATE 06/17/10. ACCESSED ON 07/28/11.
  - SANBORN FIRE INSURANCE MAPS (1886 THROUGH 2007).
  - SITE CHARACTERIZATION REPORT, FULTON FORMER MANUFACTURED GAS PLANT, BROOKLYN (IN KING'S COUNTY), NEW YORK, SITE NO. 2-24-051, SEPTEMBER 2007, PREPARED BY NYSDEC REMEDIAL BUREAU, DIVISION OF ENVIRONMENTAL REMEDIATION.
  - DRAFT GOWANUS CANAL REMEDIAL INVESTIGATION REPORT, PREPARED FOR U.S. ENVIRONMENTAL PROTECTION AGENCY [CONTRACT NO. EP-W-09-09] WORK ASSIGNMENT NO. 013-RICO-0223, PREPARED BY HDR, CH2MHILL, ORB ENVIRONMENTAL SERVICES, INC., JANUARY 2011.
  - REMEDIAL INVESTIGATION TECHNICAL REPORT, GOWANUS CANAL, NEW YORK, NYSDEC AOC INDEX NO. A2-053-0705, PREPARED BY GEI CONSULTANTS, INC. DECEMBER 2009.
  - SURVEY OF SAMPLE LOCATIONS CONDUCTED BY GEI CONSULTANTS, INC. BY NEW YORK STATE LICENSED LAND SURVEYOR NUMBER 050146. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE, NORTH AMERICAN DATUM (NAD) 83). VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD) 88.
  - PROPERTY DEED INFORMATION FOR 270 NEVINS STREET, 537 SACKETT STREET, 225 NEVINS STREET, 560 DEGRAW STREET, AND 191 3RD AVENUE.

REMEDIAL INVESTIGATION REPORT  
FULTON MUNICIPAL WORKS FORMER MGP  
BOROUGH OF BROOKLYN, NEW YORK

**nationalgrid**

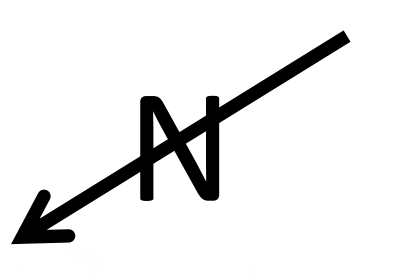
Project 093020-1-1110

**GEI** Consultants  
455 WINDING BROOK DRIVE  
SUITE 207  
GLASTONBURY, CONNECTICUT 06033

**GEOLOGIC CROSS SECTIONS  
D-D' AND E-E'  
WITH PHYSICAL IMPACTS AND  
ANALYTICAL SUMMARY**

July 2012

Figure 12



Elevation 0 to -5 Feet

Elevation -5 to -10 Feet

Elevation -10 to -15 Feet

Elevation -15 to -20 Feet

Elevation -20 to -25 Feet

**LEGEND**

**PHYSICAL OBSERVATIONS**

- ατμοσφαιρική ρύπανση
- υδατικό περιβάλλον
- υδατικό περιβάλλον (επιφανειακό)
- υδατικό περιβάλλον (υποβρύχιο)
- υδατικό περιβάλλον (επιφανειακό) - οργανική ύλη
- υδατικό περιβάλλον (επιφανειακό) - ανόργανα άλατα
- υδατικό περιβάλλον (υποβρύχιο) - οργανική ύλη
- υδατικό περιβάλλον (υποβρύχιο) - ανόργανα άλατα
- υδατικό περιβάλλον (επιφανειακό) - ανόργανα άλατα
- υδατικό περιβάλλον (υποβρύχιο) - ανόργανα άλατα
- υδατικό περιβάλλον (επιφανειακό) - ανόργανα άλατα
- υδατικό περιβάλλον (υποβρύχιο) - ανόργανα άλατα

**NOTES:**  
 Η παρούσα μελέτη πραγματοποιήθηκε με σκοπό την αξιολόγηση της ποιότητας του περιβάλλοντος στην περιοχή του Καναλιού Γουανους. Τα αποτελέσματα της μελέτης είναι ενδεικτικά και δεν αποτελούν εγγύηση για την ακρίβεια των δεδομένων. Η μελέτη πραγματοποιήθηκε με τη βοήθεια των δεδομένων που παρέχονται από τον πελάτη.

ΕΡΕΥΝΑ ΚΑΙ ΕΚΤΙΜΗΣΗ ΚΙΝΔΥΝΟΥ  
 ΕΠΙΧΕΙΡΗΣΙΑΚΗ ΑΣΦΑΛΕΙΑ ΚΑΙ ΚΑΤΑΣΤΑΣΗ  
 ΚΑΤΑΣΤΑΣΗΣ ΚΑΙ ΑΝΑΠΟΤΕΛΕΣΜΑΤΑ

**nationalgrid**

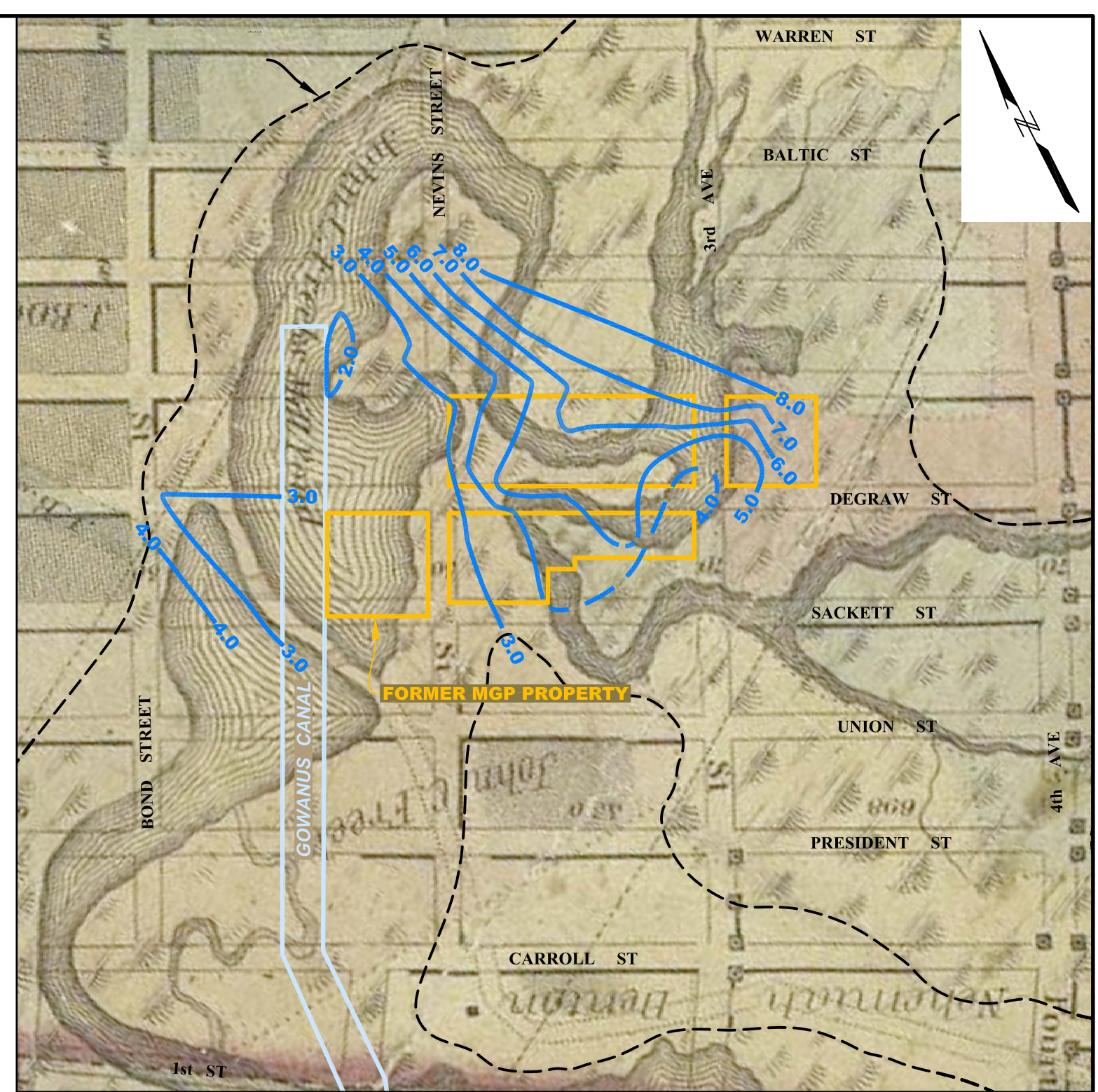
ΥΠΟΥΡΓΕΙΟ ΕΝΕΡΓΕΙΑΣ ΚΑΙ ΚΛΙΜΑΤΟΣ

**GEI** Consultants

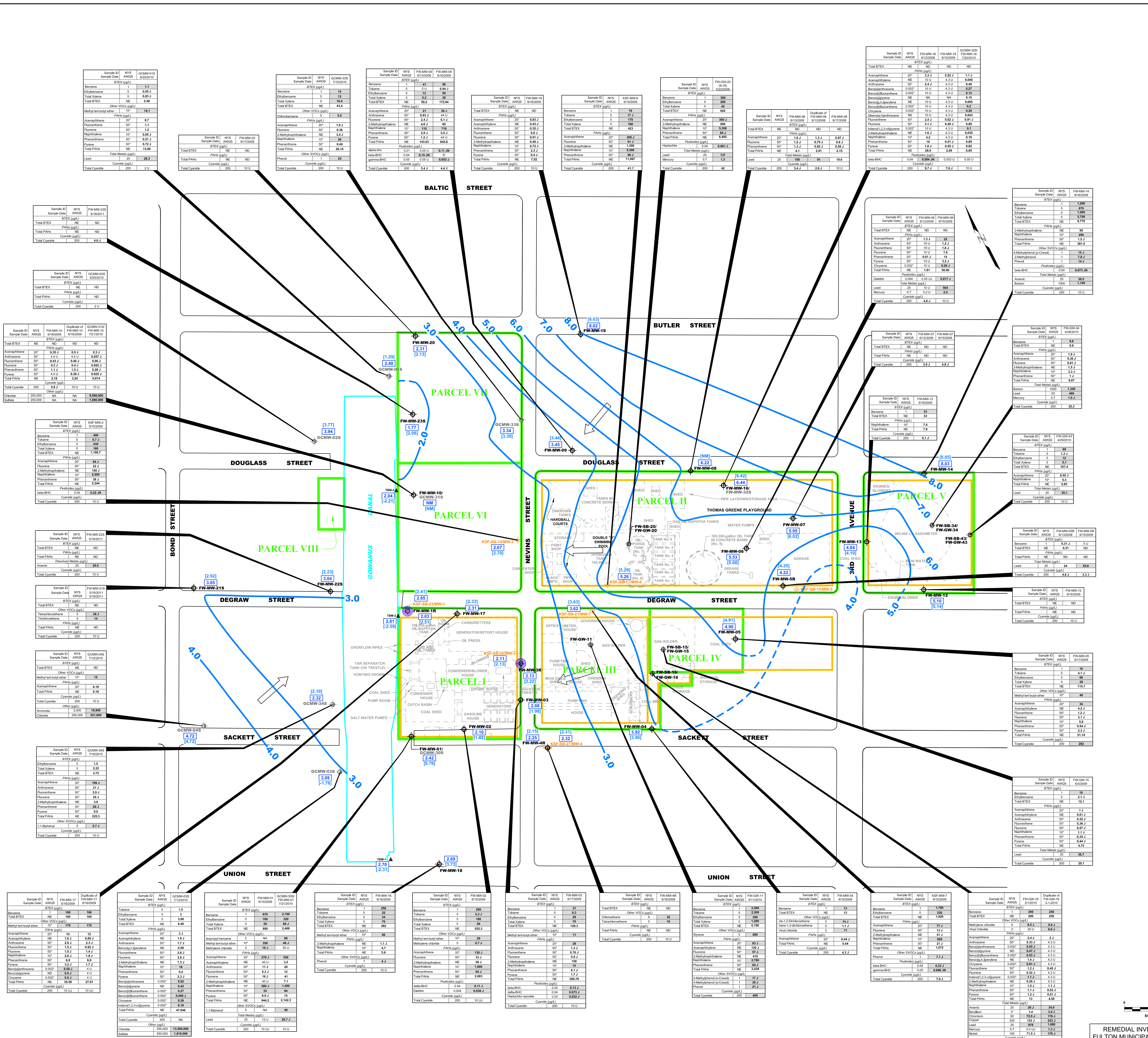
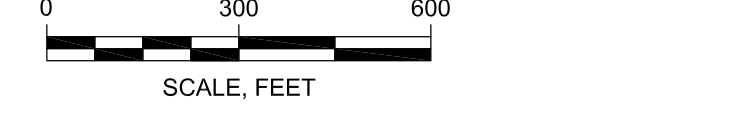
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 SUITE 201  
 GLASTONBURY, CONNECTICUT 06033

**SUMMARY OF PHYSICAL OBSERVATIONS ELEVATION 0 TO -25 FEET**

R | AFG 08/14/24



1849 MAP OF FORMER GOWANUS CREEK AND WETLANDS



**LEGEND**

- APPROXIMATE BOUNDARY OF FORMER FULTON MGP PROPERTY
- HISTORIC MSP STRUCTURE
- REMEDIAL INVESTIGATION (RI) PARCEL BOUNDARY (FULTON FORMER MGP REMEDIAL INVESTIGATION (RI))
- MONITORING WELL
- GWANUS CANAL GAUGING POINT
- SOIL BORING WITH TEMPORARY GROUNDWATER SAMPLE
- USEPA MONITORING WELL
- PREVIOUS SAMPLE LOCATIONS
- NYSDC SC MONITORING WELL
- GROUNDWATER CONTOUR (CONTOUR INTERVAL 1 FT NAVD)
- INFERRED FLOW DIRECTION
- HIGH TIDE GROUNDWATER ELEVATION (FT NAVD) ON MAY 19, 2011
- LOW TIDE GROUNDWATER ELEVATION (FT NAVD) ON MAY 19, 2011
- NON-AQUEOUS PHASE LIQUID (NAPL) BLENDS AND/OR SHEEN WITH PETROLEUM-LIKE OIL OR WITH A SAMPLE COLLECTED FROM THE MONITORING WELL
- New York State Ambient Water Quality Standards, Criteria, and Guidance Values for GA groundwater (drinking water) value is a guidance value and not a standard
- value is a guidance value and not a standard
- not established
- not measured
- not detected
- monograms per liter
- BTEX benzene, toluene, ethylbenzene, and xylene
- VOCs volatile organic compounds
- PAHs polycyclic aromatic hydrocarbons
- SVCs semi-volatile organic compounds
- estimated value
- reflected value based upon validation
- not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
- bold font indicates a detected concentration
- bold font and shading indicates a detected concentration is above the NYS AWQS objective
- 10 North American Vertical Datum of 1988
- FT NAVD

**NOTES:**

- GROUNDWATER CONTOURS ARE DASHED WHERE INFERRED.
- TOTAL BTEX AND TOTAL PAH CONCENTRATIONS ARE CALCULATED USING DETECTED VALUES ONLY.
- "S" - SHALLOW WELL SCREENED AT OR NEAR THE WATER TABLE.

**SOURCES:**

- GOOGLE EARTH PRO, 8/2011, GOOGLE, IMAGERY DATE 8/11/2011, ACCESSED ON 07/28/11.
- SITE CHARACTERIZATION REPORT, FULTON FORMER MANUFACTURED GAS PLANT, BROOKLYN NY, NEW YORK COUNTY, NEW YORK, SITE NO. 2-24-01, SEPTEMBER 2007, PREPARED BY NYSDC REMEDIAL BUREAU, U.S. DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- NEW YORK CITY OPEN ACCESSIBLE SPACE INFORMATION SYSTEM (http://www.dash.ny.gov), ACCESSED JANUARY 2008.
- SURVEY OF SAMPLE LOCATIONS CONDUCTED BY GE CONSULTANTS, INC. BY NEW YORK STATE LICENSED LAND SURVEYOR NUMBER 50048, HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE, NORTH AMERICAN DATUM 1983), VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAV83) IS.
- DRAWING 824 - FOUNDATION FOR 100-000 GAL. NORTH TANK, THE BROOKLYN UNION GAS CO. FULTON MUNICIPAL BRANCH, SCALE 18'-0" - 1", DATED AUGUST 16, 1957.
- DRAWING 2-88 - OIL DRAINAGE SYSTEM, THE BROOKLYN UNION GAS CO., SCALE 18'-0" - 1", DATED DECEMBER 17, 1950.
- NEW YORK CITY GEOGRAPHIC INFORMATION SYSTEM (GIS) 1924 AERIAL PHOTOGRAPH (http://www.dash.ny.gov).
- BIRDS EYE VIEW PHOTOGRAPH DOUGLASS STREET STORE YARD (1880s), THE BROOKLYN UNION GAS CO. DATED MARCH 13, 1905.
- PROPERTY DEED INFORMATION FOR 270 NEVINS STREET, 537 SACKETT STREET, 225 NEVINS STREET, 90 DEGRAW STREET, AND 191 SACKETT.
- NEW YORK STATE ARCHIVES, BROOKLYN UNION GAS 1915 AND 1920 INSETS 13345-8, 8925/2009.
- MAP OF THE CITY OF BROOKLYN AS Laid Out by Commissioners and Confirmed by Acts of the Legislature of the State of New York, PUBLISHED BY J.H. COLTON, NEW YORK, 1843.

REMEDIAL INVESTIGATION REPORT  
 FULTON MUNICIPAL WORKS FORMER MGP  
 BOROUGH OF BROOKLYN, NEW YORK

**nationalgrid**

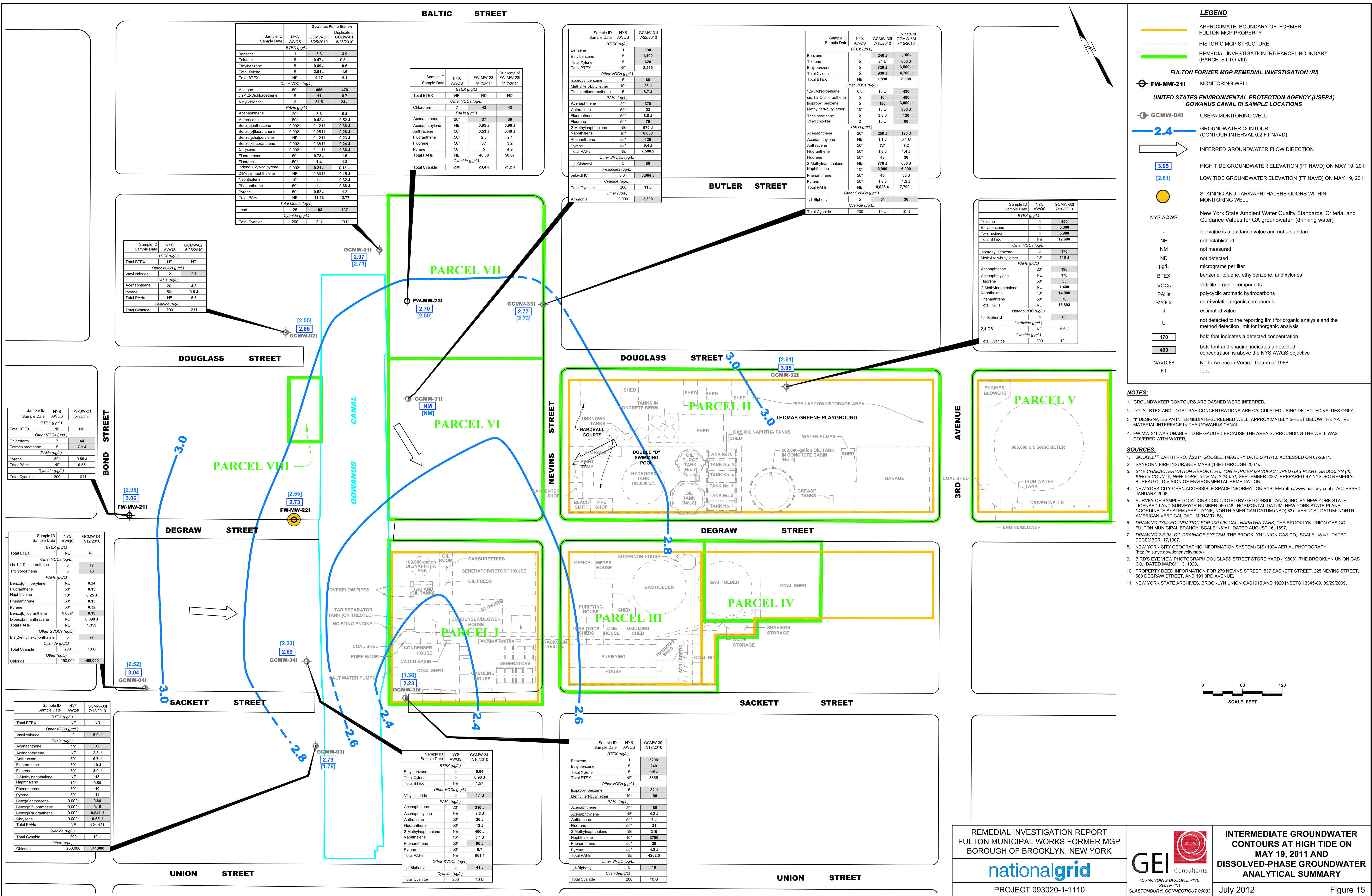
PROJECT 093020-1-1110

SHALLS AT GROUNDWATER  
 CONTOURS AT HIGH TIDE AND  
 DISSOLVED-PHASE GROUNDWATER  
 ANALYTICAL SUMMARY  
 MAY 19, 2011

**GEI** CONSULTANTS  
 455 WINDYBROOK DRIVE  
 SUITE 200  
 GLASTONBURY, CONNECTICUT 06033

July 2012

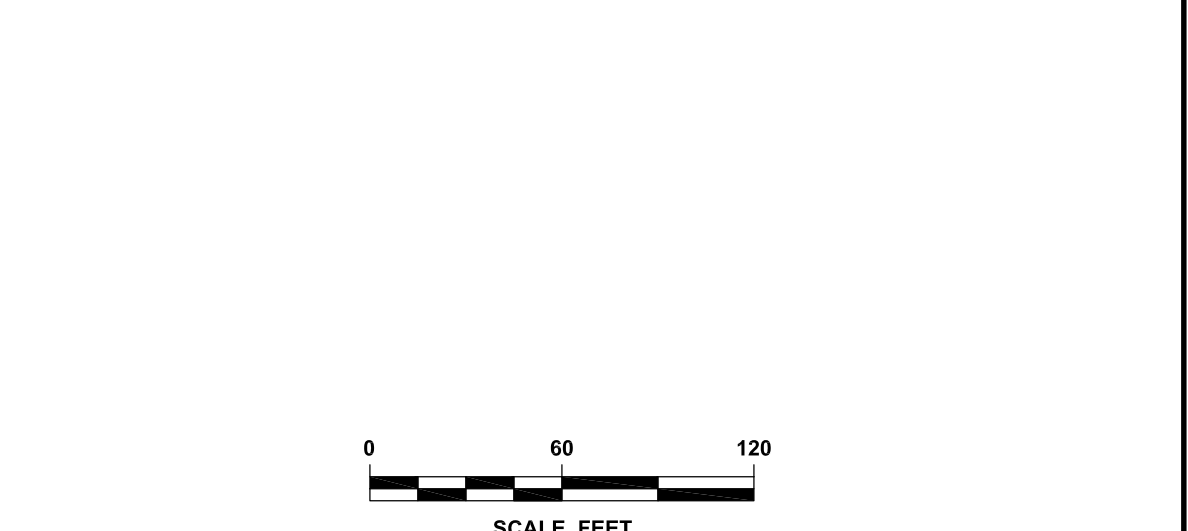
Figure 14



**LEGEND**

- APPROXIMATE BOUNDARY OF FORMER FULTON MGP PROPERTY
- HISTORIC MGP STRUCTURE
- REMEDIAL INVESTIGATION (RI) PARCEL BOUNDARY (PARCELS I TO VIII)
- FULTON FORMER MGP REMEDIAL INVESTIGATION (RI)**
- FW-MW-211 MONITORING WELL
- UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) GOWANUS CANAL RI SAMPLE LOCATIONS
- GCMW-041 USEPA MONITORING WELL
- 2.4 GROUNDWATER CONTOUR (CONTOUR INTERVAL 0.2 FT NAVD)
- INFERRED GROUNDWATER FLOW DIRECTION
- 3.05 HIGH TIDE GROUNDWATER ELEVATION (FT NAVD) ON MAY 19, 2011
- 2.61 LOW TIDE GROUNDWATER ELEVATION (FT NAVD) ON MAY 19, 2011
- STAINING AND TAR/NAPHTHALENE ODORS WITHIN MONITORING WELL
- NYS AQWS New York State Ambient Water Quality Standards, Criteria, and Guidance Values for GA groundwater (drinking water)
- the value is a guidance value and not a standard
- not established
- NE not measured
- NM not detected
- ND not detected
- micrograms per liter
- BTEX benzene, toluene, ethylbenzene, and xylenes
- VOCs volatile organic compounds
- PAHs polycyclic aromatic hydrocarbons
- SVOCs semi-volatile organic compounds
- J estimated value
- not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
- 170 bold font indicates a detected concentration
- 490 bold font and shading indicates a detected concentration is above the NYS AQWS objective
- NAVD 88 North American Vertical Datum of 1988
- FT feet

- NOTES:**
- GROUNDWATER CONTOURS ARE DASHED WHERE INFERRED.
  - TOTAL BTEX AND TOTAL PAH CONCENTRATIONS ARE CALCULATED USING DETECTED VALUES ONLY.
  - "T" DESIGNATES AN INTERMEDIATE-SCREENED WELL, APPROXIMATELY 5-FEET BELOW THE NATIVE MATERIAL INTERFACE IN THE GOWANUS CANAL.
  - FW-MW-311 WAS UNABLE TO BE LOCATED BECAUSE THE AREA SURROUNDING THE WELL WAS COVERED WITH WATER.
- SOURCES:**
- GOOGLE EARTH PRO, ©2011 GOOGLE, IMAGERY DATE 06/17/10, ACCESSED ON 07/28/11.
  - SANBORN FIRE INSURANCE MAPS (1886 THROUGH 2007).
  - SITE CHARACTERIZATION REPORT, FULTON FORMER MANUFACTURED GAS PLANT, BROOKLYN (III), KING'S COUNTY, NEW YORK, SITE No. 2-24-051, SEPTEMBER 2007, PREPARED BY NYSDEC REMEDIAL BUREAU C, DIVISION OF ENVIRONMENTAL REMEDIATION.
  - NEW YORK CITY OPEN ACCESSIBLE SPACE INFORMATION SYSTEM (<http://www.oasisnyc.net>), ACCESSED JANUARY 2008.
  - SURVEY OF SAMPLE LOCATIONS CONDUCTED BY GSI CONSULTANTS, INC. BY NEW YORK STATE LICENSED LAND SURVEYOR NUMBER 050146, HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE, NORTH AMERICAN DATUM (NAD) 83), VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD) 88.
  - DRAWING ID34: FOUNDATION FOR 100,000 GAL. NAPHTHA TANK, THE BROOKLYN UNION GAS CO. FULTON MUNICIPAL BRANCH, SCALE 1/8"=1' DATED AUGUST 16, 1897.
  - DRAWING 2-F-38: OIL DRAINAGE SYSTEM, THE BROOKLYN UNION GAS CO., SCALE 1/8"=1' DATED DECEMBER, 17, 1907.
  - NEW YORK CITY GEOGRAPHIC INFORMATION SYSTEM (GIS) 1924 AERIAL PHOTOGRAPH (<http://gis.nyc.gov/dl/ri/nyctmip>)
  - BIRD'S EYE VIEW PHOTOGRAPH DOUGLASS STREET STORE YARD (19806), THE BROOKLYN UNION GAS CO., DATED MARCH 13, 1928.
  - PROPERTY DEED INFORMATION FOR 270 NEVINS STREET, 537 SACKETT STREET, 225 NEVINS STREET, 550 DEGRAW STREET, AND 191 3RD AVENUE.
  - NEW YORK STATE ARCHIVES, BROOKLYN UNION GAS 1915 AND 1920 INSETS 13345-89, 09/29/2009.



REMEDIAL INVESTIGATION REPORT  
 FULTON MUNICIPAL WORKS FORMER MGP  
 BOROUGH OF BROOKLYN, NEW YORK

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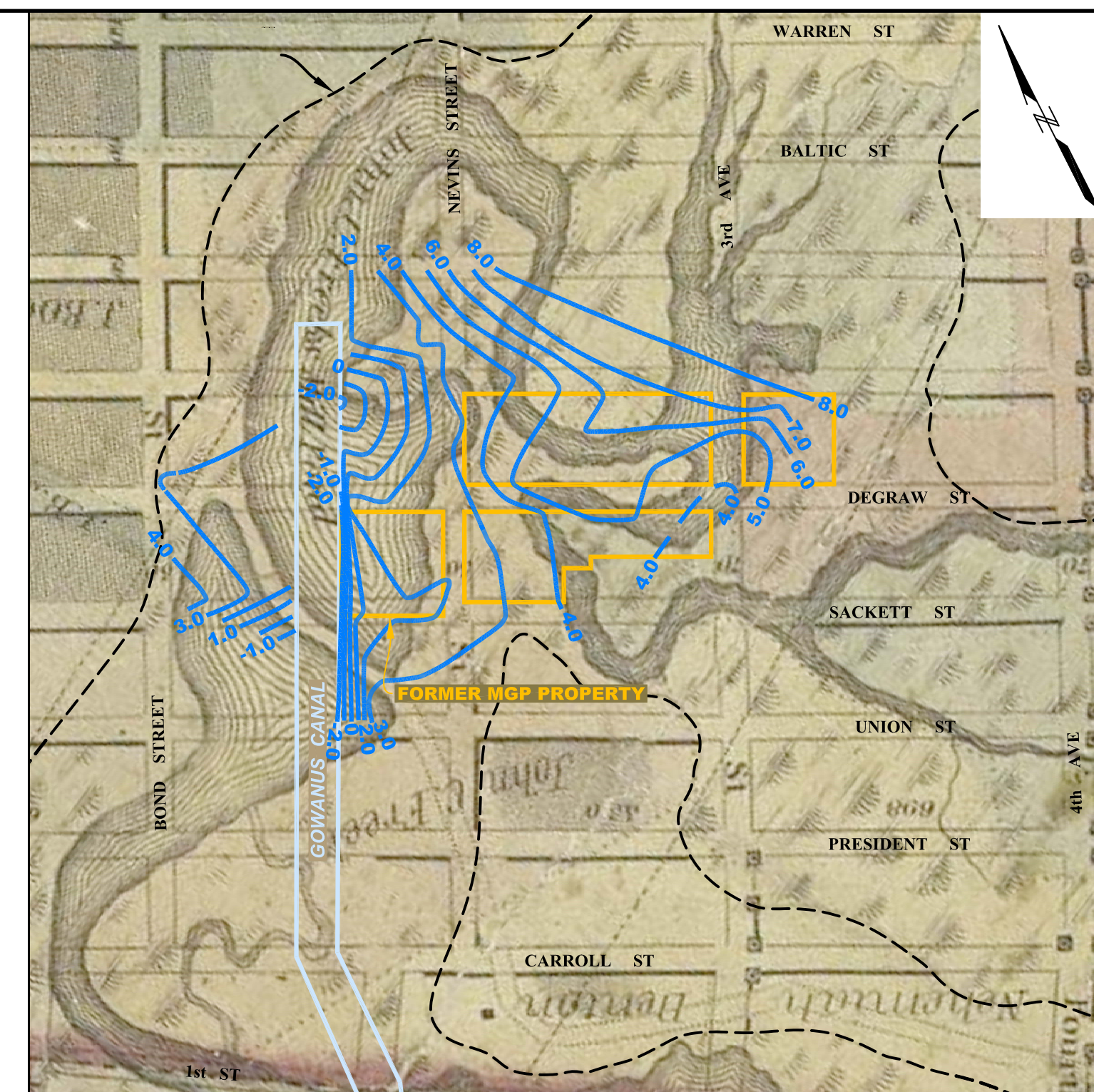
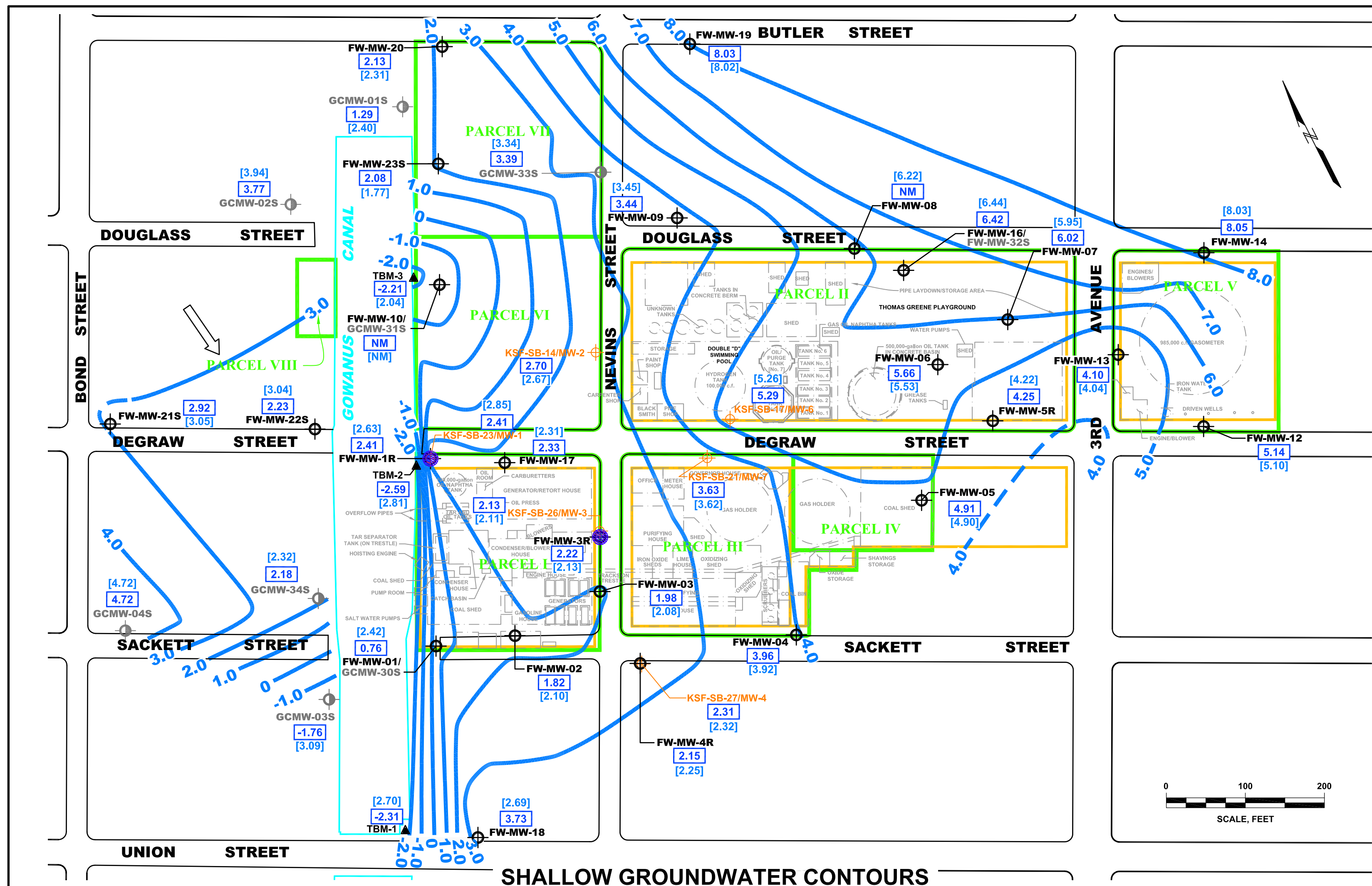
**INTERMEDIATE GROUNDWATER  
 CONTOURS AT HIGH TIDE ON  
 MAY 19, 2011 AND  
 DISSOLVED-PHASE GROUNDWATER  
 ANALYTICAL SUMMARY**

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

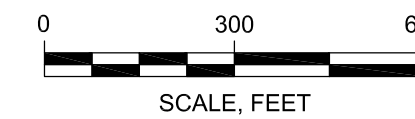
July 2012

Figure 15





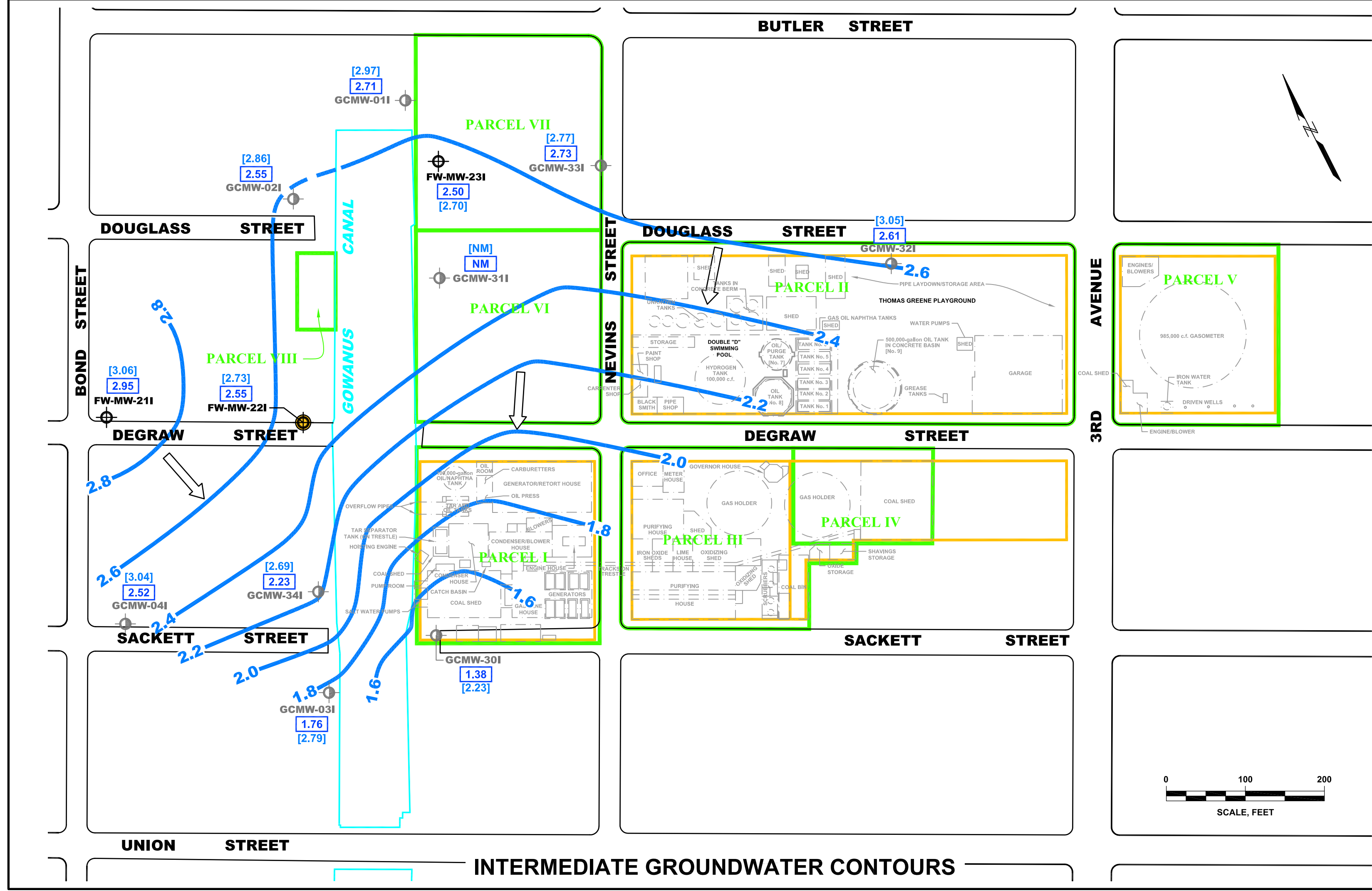
1849 MAP OF FORMER GOWANUS CREEK AND WETLANDS



- LEGEND**
- APPROXIMATE BOUNDARY OF FORMER FULTON MGP PROPERTY
  - HISTORIC MGP STRUCTURE
  - REMEDIAL INVESTIGATION (RI) PARCEL BOUNDARY (PARCELS I TO VIII)
- FULTON FORMER MGP REMEDIAL INVESTIGATION (RI)**
- FW-MW-215  
FW-MW-211 MONITORING WELL
  - TBM GOWANUS CANAL GAUGING POINT
- UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA) GOWANUS CANAL RI SAMPLE LOCATIONS**
- GCMW-04S  
GCMW-04I USEPA MONITORING WELL
- PREVIOUS SAMPLE LOCATIONS**
- KSF-SB-26/MW-3 NYSDEC SC MONITORING WELL
- GROUNDWATER CONTOUR**  
(SHALLOW CONTOUR INTERVAL 1.0 FT NAVD)  
(INTERMEDIATE CONTOUR INTERVAL 0.2 FT NAVD)
- 2.4
  - INFERRERED GROUNDWATER FLOW DIRECTION
  - 8.05
  - 8.03
  - STAINING AND TAR/NAPHTHALENE ODORS WITHIN MONITORING WELL
  - NON-AQUEOUS PHASE LIQUID (NAPL) BLEBS AND/OR SHEEN WITH PETROLEUM-LIKE ODOR WITHIN A SAMPLE COLLECTED FROM THE MONITORING WELL

- NOTES:**
1. GROUNDWATER CONTOURS ARE DASHED WHERE INFERRERED.
  2. TOTAL BTEX AND TOTAL PAH CONCENTRATIONS ARE CALCULATED USING DETECTED VALUES ONLY.
  3. "S" DESIGNATES A SHALLOW-SCREENED WELL AT OR NEAR THE WATER TABLE. "I" DESIGNATES AN INTERMEDIATE-SCREENED WELL, APPROXIMATELY 5-FEET BELOW THE NATIVE MATERIAL INTERFACE IN THE GOWANUS CANAL.
  4. FW-MW-311 WAS UNABLE TO BE GAUGED BECAUSE THE AREA SURROUNDING THE WELL WAS COVERED WITH WATER.

- SOURCES:**
1. GOOGLE™ EARTH PRO, ©2011 GOOGLE, IMAGERY DATE 06/17/10, ACCESSED ON 07/28/11.
  2. SANBORN FIRE INSURANCE MAPS 1886 THROUGH 2007.
  3. SITE CHARACTERIZATION REPORT, FULTON FORMER MANUFACTURED GAS PLANT, BROOKLYN (II), KING'S COUNTY, NEW YORK, SITE No. 2-24-051, SEPTEMBER 2007, PREPARED BY NYSDEC REMEDIAL BUREAU C., DIVISION OF ENVIRONMENTAL REMEDIATION.
  4. NEW YORK CITY OPEN ACCESSIBLE SPACE INFORMATION SYSTEM (<http://www.oasisnyc.net>), ACCESSED JANUARY 2008.
  5. SURVEY OF SAMPLE LOCATIONS CONDUCTED BY GEI CONSULTANTS, INC. BY NEW YORK STATE LICENSED LAND SURVEYOR NUMBER 050146. HORIZONTAL DATUM: NEW YORK STATE PLANE COORDINATE SYSTEM (EAST ZONE, NORTH AMERICAN DATUM (NAD) 83). VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD) 88.
  6. DRAWING ID34: FOUNDATION FOR 100,000 GAL. NAPHTHA TANK, THE BROOKLYN UNION GAS CO. FULTON MUNICIPAL BRANCH, SCALE 1/8"=1' DATED AUGUST 16, 1897.
  7. DRAWING 2-F-98: OIL DRAINAGE SYSTEM, THE BROOKLYN UNION GAS CO., SCALE 1/8"=1' DATED DECEMBER 17, 1907.
  8. NEW YORK CITY GEOGRAPHIC INFORMATION SYSTEM (GIS) 1924 AERIAL PHOTOGRAPH (<http://gis.nyc.gov/dolt/nycmap/>)
  9. BIRD'S EYE VIEW PHOTOGRAPH DOUGLASS STREET STORE YARD (1896), THE BROOKLYN UNION GAS CO., DATED MARCH 13, 1928.
  10. PROPERTY DEED INFORMATION FOR 270 NEVINS STREET, 537 SACKETT STREET, 225 NEVINS STREET, 560 DEGRAW STREET, AND 191 3RD AVENUE.
  11. NEW YORK STATE ARCHIVES, BROOKLYN UNION GAS 1915 AND 1920 INSETS 13345-89, 09/29/2009.
  12. MAP OF THE CITY OF BROOKLYN, AS LAID OUT BY COMMISSIONERS AND CONFIRMED BY ACTS OF THE LEGISLATURE OF THE STATE OF NEW YORK, PUBLISHED BY J.H. COLTON, NEW YORK, 1849.



REMEDIAL INVESTIGATION REPORT FULTON MUNICIPAL WORKS FORMER MGP BOROUGH OF BROOKLYN, NEW YORK			<b>SHALLOW AND INTERMEDIATE GROUNDWATER CONTOURS AT LOW TIDE (MAY 19, 2011)</b>
PROJECT 093020-1-1110	455 WINDING BROOK DRIVE SUITE 201 GLASTONBURY, CONNECTICUT 06033	July 2012	Figure 16

