

Appendix E

Project Reports

New York State Department of Environmental Conservation

Division of Environmental Remediation

Remedial Bureau B, 12th Floor

625 Broadway, Albany, New York 12233-7016

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Joe Martens
Commissioner

October 4, 2012

Kevin McGuinness, PG, LSRP
Associate
Fleming-Lee Shue, Inc.
158 West 29th Street, 9th Floor
New York, NY 10001

Re: West 34th Street Development Project
Brownfield Cleanup Project #C231049
New York City, New York County
**Approval of Supplemental Off-Site
Groundwater Investigation Report**

Dear Mr. McGuinness:

The New York State Department of Environmental Conservation and the New York State Department of Health have reviewed the *Supplemental Off-Site Groundwater Investigation Report* by Fleming Lee Shue, dated March 2011 for the West 34th Street Development BCP Project. Based on this review, there are no comments and the *Supplemental Off-Site Groundwater Investigation Report* is approved.

If you have any questions, please contact me at (518) 402-9768.

Sincerely,



John Dumin, P.E.
Environmental Engineer
Division of Environmental Remediation
Bureau B, Section B

ecc: J. Quinn, Section Chief,
C. Doroski, NYSDOH
O. Brecher, Meushar 34th Street LLC
H. Dreizen, Esq.

GENERAL NOTES:

- ALL ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS ARE REFERENCED TO THE BODRUGH PRESIDENT OF MANHATTAN DATUM, WHICH IS 2.75 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK, NEW JERSEY, 1928 (NGVD = 0.0).
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OUTLINED ON THE CONTRACT DRAWINGS AND AS INDICATED IN THE PROJECT SPECIFICATIONS.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2008 NEW YORK CITY BUILDING CODE AND THE REQUIREMENTS OF ALL OTHER AGENCIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK. VERIFY ALL EMBEDDING, ELEVATIONS, AND LOCATIONS OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES BETWEEN THE CONTRACT DRAWINGS AND THE FIELD CONDITIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO COMMENCING WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES PRIOR TO COMMENCING WORK, AS REQUIRED.
- MAINTAIN GROUNDWATER LEVEL AT LEAST 2'-FT BELOW SUBGRADE LEVEL DURING GENERAL EXCAVATION.
- BENCH CUT OR SLOPE ALL EXCAVATIONS TO COMPLY WITH OSHA STANDARDS UNLESS SUITABLE TEMPORARY SHORING OR BRACING IS PROVIDED.
- ALL SOIL WITHIN THE EXCAVATION LIMITS SHALL BE REMOVED TO BEDROCK, AND THE TOP OF ROCK SHALL BE BROOM CLEANED. UPON APPROVAL OF THE PROJECT ENVIRONMENTAL ENGINEER, THE EXCAVATED ZONE SHALL BE BACKFILLED WITH APPROVED CLEAN FILL COMPACTED AS INDICATED HEREIN.
- ALL EXCAVATED SOILS TO BE DISPOSED OF LEGALLY OFFSITE PER THE DIRECTION OF THE PROJECT ENVIRONMENTAL ENGINEER.
- UPON COMPLETION OF EXCAVATION AND BACKFILLING, ALL TEMPORARY FENCING AND BARRIERS SHALL BE REMOVED.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING CONSTRUCTION TO REMAIN AND SHALL NOT TRANSFER ANY LOADS TO EXISTING STRUCTURES INCLUDING BUT NOT LIMITED TO EXISTING COLUMNS, WALLS, PIERS, ETC.
- TEMPORARY SUPPORT OF EXCAVATION ELEMENTS INCLUDING CONCRETE PIERS, TIEBOARDS, AND TIMBER LAGGING MAY BE ABANDONED IN-PLACE BELOW GRADE, BUT SHALL BE AT LEAST 2 FT BELOW FINISHED GRADE.

DEPARTMENT OF BUILDING NOTES:

- ALL WORK SHALL BE SUBJECT TO SPECIAL INSPECTION AS REQUIRED BY THE NEW YORK CITY BUILDING CODE 2008.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF BUILDINGS AND ADJACENT PROPERTY OWNERS PRIOR TO COMMENCING EXCAVATION AS PER SECTION 3304.3.1 AND 3304.3.2 OF THE NEW YORK CITY BUILDING CODE.
- ALL WORK CONTAINED HEREIN SHALL BE SUBJECT TO SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE NEW YORK CITY BUILDING CODE. SPECIAL INSPECTORS SHALL MEET THE QUALIFICATIONS OUTLINED IN THE RULES OF THE CITY OF NEW YORK, SECTION 101-06, DATED 6-30-08. REQUIRED SPECIAL INSPECTIONS INCLUDE:
 - EXCAVATION - SHEETING, SHORING AND BRACING AS PER 1704.19 AND 3304.4.1
 - UNDERPINNING AS PER SECTIONS 1704.9.1, 1704.19, AND 1814
 - SOILS AS PER SECTION 1704.7
 - CONCRETE AS PER SECTION 1704.3.1
 - WELDING AS PER SECTION 1704.4
- IN CONFORMANCE WITH THE NEW YORK CITY BUILDING CODE, THE OWNER'S ENGINEER, OR AN INDEPENDENT AGENCY SHALL BE RETAINED TO CONDUCT THE NECESSARY SPECIAL INSPECTIONS FOR THE PROPOSED WORK AS APPROPRIATE.
- REFER TO THE PROJECT SPECIFICATIONS AND DRAWINGS FOR INSPECTION AND TESTING REQUIREMENTS PERTAINING TO WORK OF OTHER TRADES.

CONCRETE NOTES:

- ALL CONCRETE SHALL BE NORMAL WEIGHT CONTROLLED CONCRETE (U.O.) AND SHALL COMPLY WITH THE A.C.I. BUILDING CODE AND THE CURRENT NYC BUILDING CODE.
- CAST-IN-PLACE CONCRETE SHALL BE CONTROLLED CONCRETE AND SHALL HAVE A MINIMUM UNCOMPACTED COMPRESSIVE STRENGTH AT 28 DAYS (7d) 4,000 PSI U.O.U.
- CONCRETE REINFORCEMENT BARS SHALL CONSIST OF DEFORMED BULLET STEEL MEETING ASTM A615, GRADE 60.
- MECHANICAL SPACES SHALL DEVELOP THE FULL TENSILE CAPACITY OF THE PARENT REINFORCING BAR.
- MINIMUM CONCRETE COVER IN ACCORDANCE WITH ACI 318-02.
- CAST A MINIMUM OF ONE SET OF FIVE 6" X 12" CYLINDERS FOR EACH CONCRETE POUR. ONE SAMPLE EACH SHALL BE COMPRESSION TESTED AT 3 DAYS, 7 DAYS, 14 DAYS, AND 28 DAYS. SAMPLES ATTAINING THE REQUIRED COMPRESSIVE STRENGTH PRIOR TO THE NEXT TESTING INTERVAL SHALL NOT REQUIRE FURTHER TESTING.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992 GRADE 50.
- MISCELLANEOUS STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36 U.O.U.
- ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.
- FIELD WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1-06.
- WELDING ELECTRODES SHALL BE E70-XK, UNLESS NOTED OTHERWISE.
- SINGLE PASS FILLET WELDS SHALL BE AS NOTED ON THE CONTRACT DRAWINGS, BUT SHOULD NOT BE LESS THAN 1/4 INCH.

TIMBER LAGGING NOTES:

- WHERE REQUIRED, TIMBER LAGGING SHALL BE ROUGH SAWN, FULL SIZE, CONSTRUCTION GRADE LUMBER WITH AN ALLOWABLE BENDING STRESS OF 1,200 PSI.
- LAGGING SHALL HAVE A MINIMUM THICKNESS OF AT LEAST 3-INCHES FOR SPANS OF UP TO 7 FT. LAGGING SHALL HAVE A MINIMUM THICKNESS OF AT LEAST 4-INCHES FOR SPANS BETWEEN 7 AND 10 FT.
- LAGGING SHALL NOT SPAN GREATER THAN 10 FT HORIZONTALLY.

BACKFILL NOTES:

- BACKFILL SHALL CONSIST OF CERTIFIED, CLEAN GRANULAR SOIL, FREE OF ORGANIC AND OTHER DELETERIOUS MATERIALS, AND MEETING THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	PERCENT PASSING BY WEIGHT
3-INCH	100
1/4-INCH	50 TO 75
NO. 40	5 TO 10
NO. 200	0 TO 10
- MOLE ROCK AND RECYCLED CONCRETE AGGREGATE WILL NOT BE PERMITTED.
- THE CONTRACTOR SHALL SUBMIT GRADATION TEST RESULTS AND MOISTURE DENSITY RELATIONSHIPS ALL PROPOSED FILL MATERIALS.
- ALL BACKFILL MATERIALS SHALL BE APPROVED BY THE PROJECT ENVIRONMENTAL AND GEOTECHNICAL CONSULTANTS PRIOR TO DELIVERY OR PLACEMENT.
- BACKFILL SHALL BE PLACED IN HORIZONTAL LIFTS. THE THICKNESS OF LIFTS PRIOR TO COMPACTION SHALL NOT EXCEED 12-INCHES.
- BACKFILL SHALL BE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR).
- COMPACTION SHALL BE VERIFIED BY THE SPECIAL INSPECTION IN ACCORDANCE WITH ASTM D2922, AS APPLICABLE. TESTING SHALL BE PERFORMED AT INTERVALS OF ONE TEST PER 500 SQUARE FEET FOR EACH LIFT PLACED.

CONCRETE PIER AND LAGGING INSTALLATION NOTES:

- CONCRETE PIERS SHALL BE COMPOSED OF PLAIN CONCRETE HAVING A MINIMUM UNCOMPACTED COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- CONCRETE PIERS SHALL BE HAND EXCAVATED THROUGH SHEETED PITS. ALL CONCRETE PIERS SHALL BE CARRIED DOWN TO SOUND BEDROCK.
- CONCRETE PIERS SHALL BE INSTALLED IN A SINGLE LIFT. CONCRETE PIERS INSTALLED BELOW EXISTING WALLS SHALL EXTEND TO THE BACK FACE OF WALL AS SHOWN.
- DIMENSIONS OF CONCRETE PIERS SHALL BE AS SHOWN. SHOULD FIELD CONDITIONS NECESSITATE CHANGES IN ANY DIMENSION, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENVIRONMENTAL ENGINEER TO EVALUATE IF TIEDOWN DESIGN AND LOCK OFF LOADS REQUIRE MODIFICATION. WHERE REQUIRED, THE DESIGN OF ANY ATTENDANT TIEDOWS SHALL BE MODIFIED TO ACCOMMODATE THE FIELD CONDITIONS ENCOUNTERED.
- SHEETED PITS FOR CONCRETE PIERS SPACED CLOSER THAN 12 FT O.C. SHALL NOT TO BE EXCAVATED SIMULTANEOUSLY.
- CONCRETE PIERS SHALL BE SHEETED ON FOUR SIDES WITH HORIZONTAL TIMBERS. THESE HORIZONTAL TIMBER BOARDS SHALL BE "LOUVERED" THAT IS, THEY SHALL BE SPACED 1-1/2' APART TO PERMIT FILLING AND BACKPACKING OF ANY VOIDS THAT OCCUR BEHIND THE LAGGING. LAGGING SHALL BE BACKPACKED WITH DRY SAND OR CEMENT. LOUVERING MAY BE CEASED AT THE DISCRETION OF THE INSPECTING GEOTECHNICAL ENGINEER BASED ON CONDITIONS ENCOUNTERED.
- IF THE EXISTING FOUNDATION OBSERVED TO BE IN POOR CONDITION, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER AND REMOVE OR REPAIR LOOSE/DAMAGED MATERIALS PER DIRECTION OF THE ENGINEER.
- CONCRETE SHALL BE PLACED THE SAME DAY AS THE PIT IS EXCAVATED UNLESS OTHERWISE APPROVED BY THE INSPECTING ENGINEER.
- GENERAL EXCAVATION SHALL NOT EXTEND BELOW THE BOTTOM OF THE EXISTING WALL UNTIL CONCRETE PIERS WITHIN THE PHASED EXCAVATION ZONE HAVE BEEN COMPLETED (INCLUDING INSTALLATION, TESTING AND LOCKOFF OF TIEDOWS).
- GENERAL EXCAVATION SHALL BE CARRIED TO BEDROCK UPON COMPLETION OF CONCRETE PIERS.
- LAGGING BOARDS SHALL BE INSTALLED BETWEEN CONCRETE PIERS AS THE EXCAVATION PROGRESSES. IN NO CASE SHALL EXCAVATION AT THE REAR FACE OF CONCRETE PIERS EXTEND MORE THAN 2 FT BELOW LAGGED SECTIONS.
- ADJACENT LAGGING BOARDS SHALL BE LOUVERED A DISTANCE 1/4 INCHES TO ALLOW FOR BACKPACKING OF DISTURBED AREAS OR VOIDS. LOUVERING MAY BE CEASED AT THE DISCRETION OF THE INSPECTING GEOTECHNICAL ENGINEER BASED ON CONDITIONS ENCOUNTERED.
- DISTURBED AREAS, VOIDS AND MATERIAL LOST BEHIND LAGGING SHALL BE BACKPACKED WITH A DRY SOIL/CEMENT MIXTURE. HAY OR FILTER FABRIC SHALL BE USED TO PREVENT MIGRATION OF FINES THROUGH LOUVER OPENINGS.
- UPON REACHING BEDROCK, THE SURFACE SHALL BE CLEANED TO THE SATISFACTION OF THE PROJECT ENVIRONMENTAL ENGINEER.
- BACKFILL SHALL BE PLACED AND COMPACTED AS INDICATED HEREIN, OR AS DIRECTED BY THE INSPECTING GEOTECHNICAL ENGINEER.
- BACKFILLING OF THE SUBJECT EXCAVATION ZONE SHALL BE COMPLETED PRIOR TO GENERAL EXCAVATION OF THE ADJACENT EXCAVATION ZONE.
- ALTERNATES WHERE PROPOSED SHALL BE ACCOMPANIED BY ALL ATTENDANT SUPPORTING CALCULATIONS.

CONSTRUCTION PHASING NOTES:

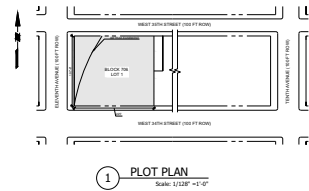
- EXCAVATION AND BACKFILLING SHALL BE PHASED AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- A COMPLETED PHASE SHALL CONSTITUTE INSTALLATION OF TEMPORARY SUPPORT OF EXCAVATION, REINFORCEMENT OF EXISTING STRUCTURES (AS REQUIRED), GENERAL EXCAVATION TO BEDROCK, INSPECTION AND APPROVAL, BY THE PROJECT ENVIRONMENTAL ENGINEER, AND BACKFILLING TO RE-ESTABLISH FINISHED GRADE.
- PHASE 1 SHALL BE COMPLETED FIRST, FOLLOWED BY PHASE 2, FOLLOWED BY PHASE 3.
- PHASE 4 MAY BE EXECUTED CONCURRENT WITH ANY OTHER PHASE.

GENERAL EXCAVATION NOTES:

- EXCAVATION WITHIN 20 FT OF EXISTING COLUMNS SHALL CARRIED DOWN IN HORIZONTAL LIFTS NOT TO EXCEED 2 FT IN DEPTH. TEMPORARY SUBSIDIARIES SHALL BE LEVEL SUCH THAT COLUMN PIERS ARE NOT SUBJECTED TO UNBALANCED EARTH LOADS.
- CARE SHALL BE TAKEN WHEN EXCAVATING ADJACENT TO EXISTING COLUMNS WHERE NECESSARY, LOCATE AREAS IMMEDIATELY ADJACENT TO EXISTING COLUMNS BY HAND DIGGING.
- EXISTING COLUMNS SHALL NOT BE USED AS BRACING OR SUPPORT FOR ANY TEMPORARY WORKS EITHER Laterally OR VERTICALLY.
- CONCRETE PIERS SUPPORTING COLUMNS SHALL NOT BE EXPOSED TO A HEIGHT OF GREATER THAN 9 TIMES NEAR LEAST CROSS-SECTIONAL DIMENSION UNLESS REINFORCED IN ACCORDANCE WITH DETAIL 2/SOE-103.

AMTRAK NOTES:

- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH AMTRAK STANDARDS.
- ALL WORK SHALL BE SUBJECT TO INSPECTION BY AMTRAK PERSONNEL.
- CONTRACTOR TO REFER TO AMTRAK RECORD DRAWINGS FOR PERMANENT AND TEMPORARY UTILITIES PRIOR TO ANY WORK ON-SITE.
- BLASTING SHALL NOT BE PERMITTED.
- CONTRACTOR SHALL SUBMIT FINALIZED MONITORING PLAN TO AMTRAK FOR REVIEW AND APPROVAL. AT A MINIMUM, PORTABLE SEISMOGRAPHS SHALL BE PROVIDED TO MEASURE CONSTRUCTION INDUCED VIBRATION AND OPTICAL SURVEILLING SHALL BE PERFORMED TO MEASURE MOVEMENT OF EXISTING STRUCTURE. THE CONTRACTOR SHALL CONFIRM MONITORING PLAN IS APPROVED BY AMTRAK AND EQUIPMENT IS IN PLACE PRIOR TO COMMENCEMENT OF ANY WORK ON SITE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO AMTRAK FOR TUNNEL SHIELD TO PROTECT OVERHEAD CATERGARY DURING EXECUTION OF THE WORK. NO WORK WITHIN THE AMTRAK RIGHT OF WAY SHALL BE PERFORMED PRIOR TO RECEIPT OF AMTRAK APPROVAL.
- ENTRY ONTO AMTRAK PROPERTY SHALL NOT BE PERFORMED UNLESS PRIOR APPROVAL IS OBTAINED AND ACCOMPANIED BY AMTRAK PERSONNEL.
- ALL WORKERS SHALL BE AMTRAK SAFETY TRAINED AND SHALL DISPLAY CURRENT AMTRAK ACCESS BADGES AT ALL TIMES.
- ALL WORK ON AMTRAK PROPERTY TO BE SCHEDULED A MINIMUM OF 2 WEEKS IN ADVANCE AND ACCOMPANIED BY AN AMTRAK APPROVED SITE SPECIFIC WORK PLAN (SSWP).
- ALTERNATES WHERE REQUESTED, SHALL BE SUBJECT TO AMTRAK REVIEW AND APPROVAL.



1 PLOT PLAN
Scale: 1/128" = 1'-0"

5-11-12	DOT Comments	
2-10-12	Amtrak Comments	
Date	Description	No.
Revisions		

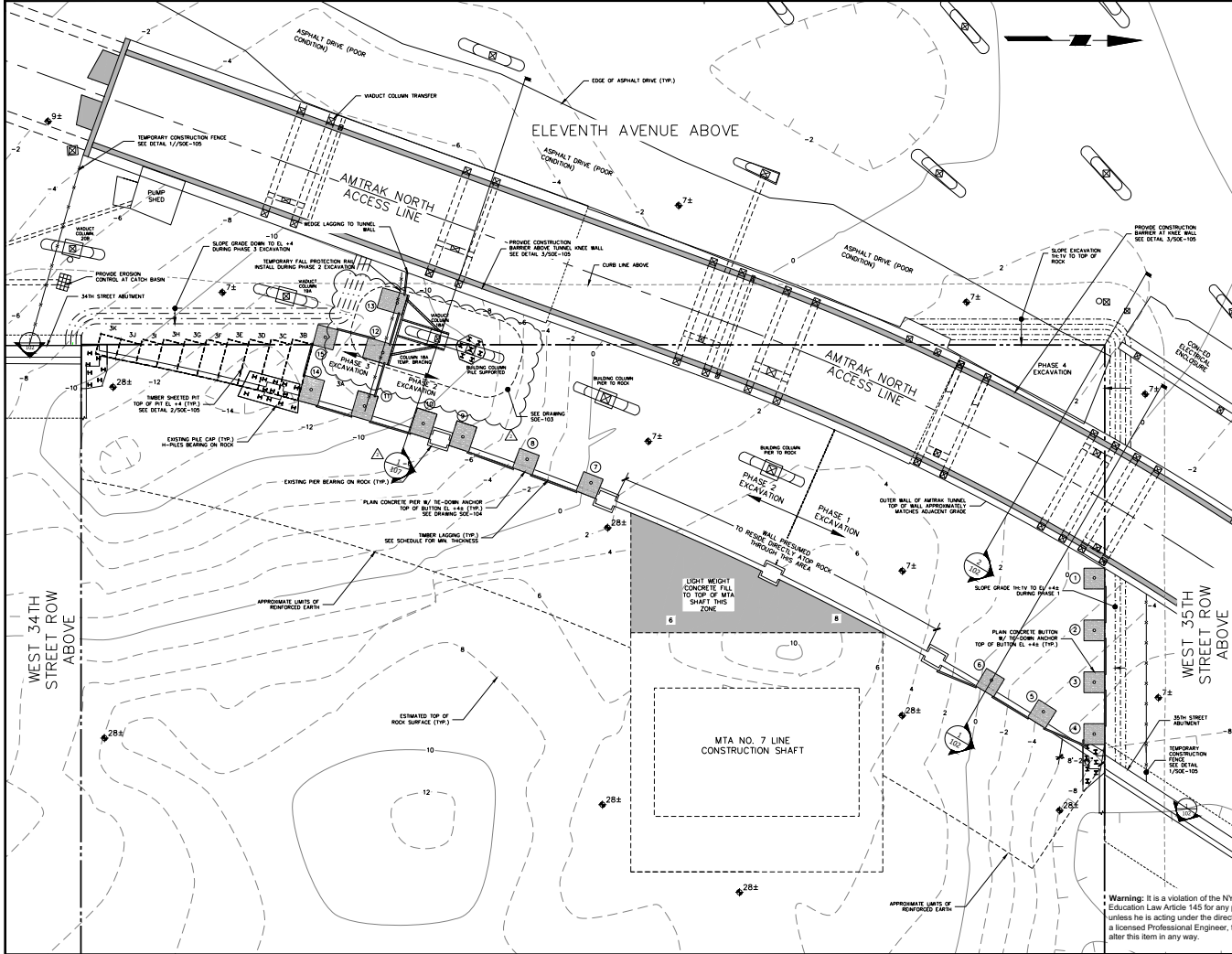
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Project
MOINIAN SITE P
536 WEST 34TH STREET
NEW YORK NEW YORK

NOTES

Project No. 170001001 Drawing No.
Date 10-08-11
Scale AS SHOWN
Dn. By SE
Last Revised 06-10-12
SOE-001.00

Warning: It is a violation of the NYS Education Law Article 145 for any person, unless he is acting under the direction of a licensed Professional Engineer, to alter this item in any way.



LEGEND

① CONCRETE PIER DESIGNATION
ELEV APPROXIMATE GROUND SURFACE ELEVATION

NOTES

1. REFER TO SOE-001 FOR GENERAL NOTES.
2. REFER TO SOE-106 FOR MONITORING PLAN AND NOTES.
3. BEDROCK SURFACE ELEVATIONS SHOWN ARE BASED ON AVAILABLE BORING DATA AND SHOULD BE CONSIDERED APPROXIMATE.

TIMBER LAGGING SCHEDULE			
PIER #	APPROX. SPAN (FT)	MIN. THICKNESS (IN)	
1-2	6	3	
2-3	6	3	
3-4	6	3	
4-5	8	4	
5-6	8	4	
6-COL	8	4	
7-8	9	4	
8-9	9	4	
10-11	8	4	
11-12	7	3	
12-13	6	3	
13-TUNNEL	4	3	
14-15	6	3	
11-14	7	3	
12-15	7	3	



5-11-12	DOT Comments	
2-10-12	Amtrak Comments	
Date	Description	No.
Revisions		

02-10-12
PROFESSIONAL ENGINEER NY LIC. NO. 08564

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Project
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NEW YORK NEW YORK
Drawing Title
SUPPORT OF EXCAVATION PLAN

Project No. 170001001	Drawing No.
Date 10-08-11	
Scale AS SHOWN	
Des. By 38	SOE-100.00
Cost Revised 06-08-12	01

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* ESTIMATED HEIGHT OF PIER BASED ON AVAILABLE BEDROCK ELEVATION DATA

1. REFER TO SOE-001 FOR ADDITIONAL NOTES.
2. REFER TO SOE-100 FOR SUPPORT OF EXCAVATION PLAN.
3. REFER TO SOE-106 FOR MONITORING PLAN AND NOTES.

2. ANCHOR TENDONS SHALL CONSIST OF SINGLE-CORROSION PROTECTED BLENDED BARS.
3. ALL ANCHORS TENDONS SHALL BE SUBMITTED TO ASTM A722 AND HAVE A MINIMUM ULTIMATE STRESS OF 150 KSI.
4. LATES OR OTHER UNDESIRABLE SUELS SHALL CONFORM TO ASTM A36.
5. GROUT SHALL CONSIST OF A MIXTURE OF PORTLAND CEMENT (TYPE I & II) AND WATER - SUFFICIENT MAY DESIGN SATISFAE FOR ACHIEVING AN UNCOMPROSSIVE PUMPED GRADE.
6. PROVIDE FRESH MATERIALS QUANTITIES AS INDICATED ON THE DRAWINGS USING SMOOTHY POWD SHALTS.
7. EACH ANCHOR BOND ZONE SHALL HAVE A MINIMUM NOMINAL DIAMETER OF AT LEAST IN-FOURCES.
8. ANCHOR NUTS & COUPLERS SHALL BE CAPABLE OF DEVELOPING 10% OF THE ULTIMATE TENSILE STRENGTH OF THE ANCHOR TENDON.
9. CARE SHALL BE TAKEN NOT TO DAMAGE THE ANCHOR TENDONS . KEEP THE ANCHORS TENDONS FREE OF DIRT OR OTHER DELETERIOUS SUBSTANCES.
10. ANCHORS SHALL BE INSTALLED WITHIN THE LIMITS OF THE QUANTITY OF ANCHORS AND ANCHOR TENDONS "SHALL NOT BE USED AS A WELDING JOINT AND SHALL NOT BE EXPOSED TO CORROSION BY CONTACT WITH ANY OTHER METALS SUCH AS STEEL TORCHES AND PLASMA CUTTERS SHALL NOT BE USED.
11. ALL ANCHORS SHALL BE PROOF TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS, PP-0235-1-04.

PROOF TEST : 0.25, 0.50P, 0.50P+10%TENSION, 1.20P, 1.33P, HOLD 1.33P FOR 1 HOUR, THEN RELEASE TO 1.20P, RELAXED TO 1.00P, HOLD 1.00P FOR 1 HOUR.

12. JACKING SHALL BE PERFORMED UTILIZING A CALIBRATED CENTRIC JACK.
13. ANCHOR MOVEMENTS SHALL BE RECORDED WITH A DIAL INDICATOR CAPABLE OF READING TO INCREMENTS OF 0.001-INCH.
14. ANCHORS SHALL HAVE AN ALLOWABLE CAPACITY SATISFAE FOR APPLICABLE LOADS PROVIDED THAT THE ANCHORS SHALL BE LOADED UP TO 75% OF THEIR DESIGN LOAD.
15. CONTRACTOR SHALL SUBMIT ANCHOR INSTALLATION DRAWINGS FOR APPROVAL PRIOR TO COMMENCING ANCHOR INSTALLATION. SHOP DRAWINGS SHALL CONTAIN ANCHOR DETAILS, ANCHOR TENDON DETAIL, ANCHOR NUT AND COUPLER DETAIL, ANCHOR BOND ZONE DETAIL, ANCHOR

MARC J. GALLAGHER 02-10-12**LANGAN**

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MASSACHUSETTS CALIFORNIA TEXAS ILLINOIS OHIO MICHIGAN

Project

MOINIAN SITE D

MEMORANDUM

536 WEST 34TH STREET

Drawing Title	
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CONCRETE PIER

DETAILS

Project No. 178084004 Drawing No.

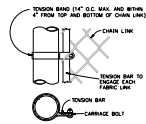
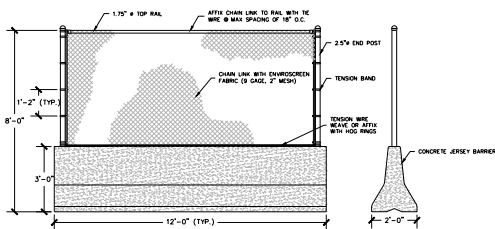
Date	10-28-11
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AS SHOWN		SOE-104.00
Drn.	By	

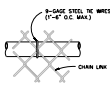
Lost	Revised
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Date: 9/11/2012 Time: 15:33 user: smpire Saye Ratri Langan,STP Layout:

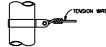
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END POST DETAIL

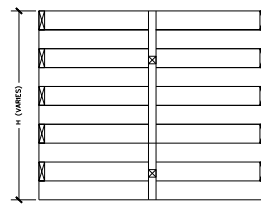
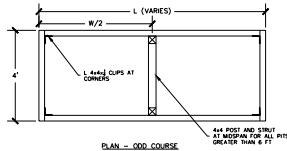


TOP RAIL ATTACHMENT

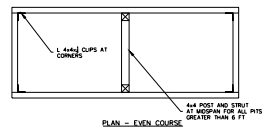


TENSION BAND DETAIL

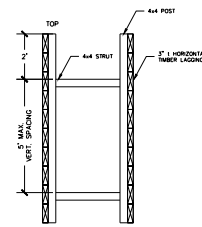
1 TYPICAL FENCE DETAIL
Scale: NTS



ELEVATION VIEW



PLAN - EVEN COURSE

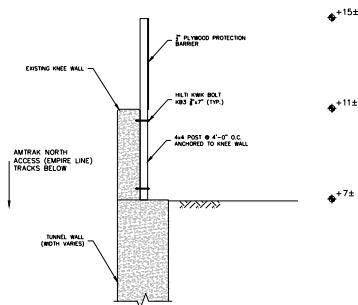


SECTION VIEW

2 TIMBER SHEETED PIT DETAILS
Scale: NTS

NOTES

1. REFER TO SOE-001 FOR GENERAL NOTES.
2. REFER TO SOE-100 FOR SUPPORT OF EXCAVATION PLAN.
3. REFER TO SOE-106 FOR MONITORING PLAN AND NOTES.



3 PLYWOOD PROTECTION BARRIER AT AMTRAK TUNNEL
Scale: 1/2\"/>

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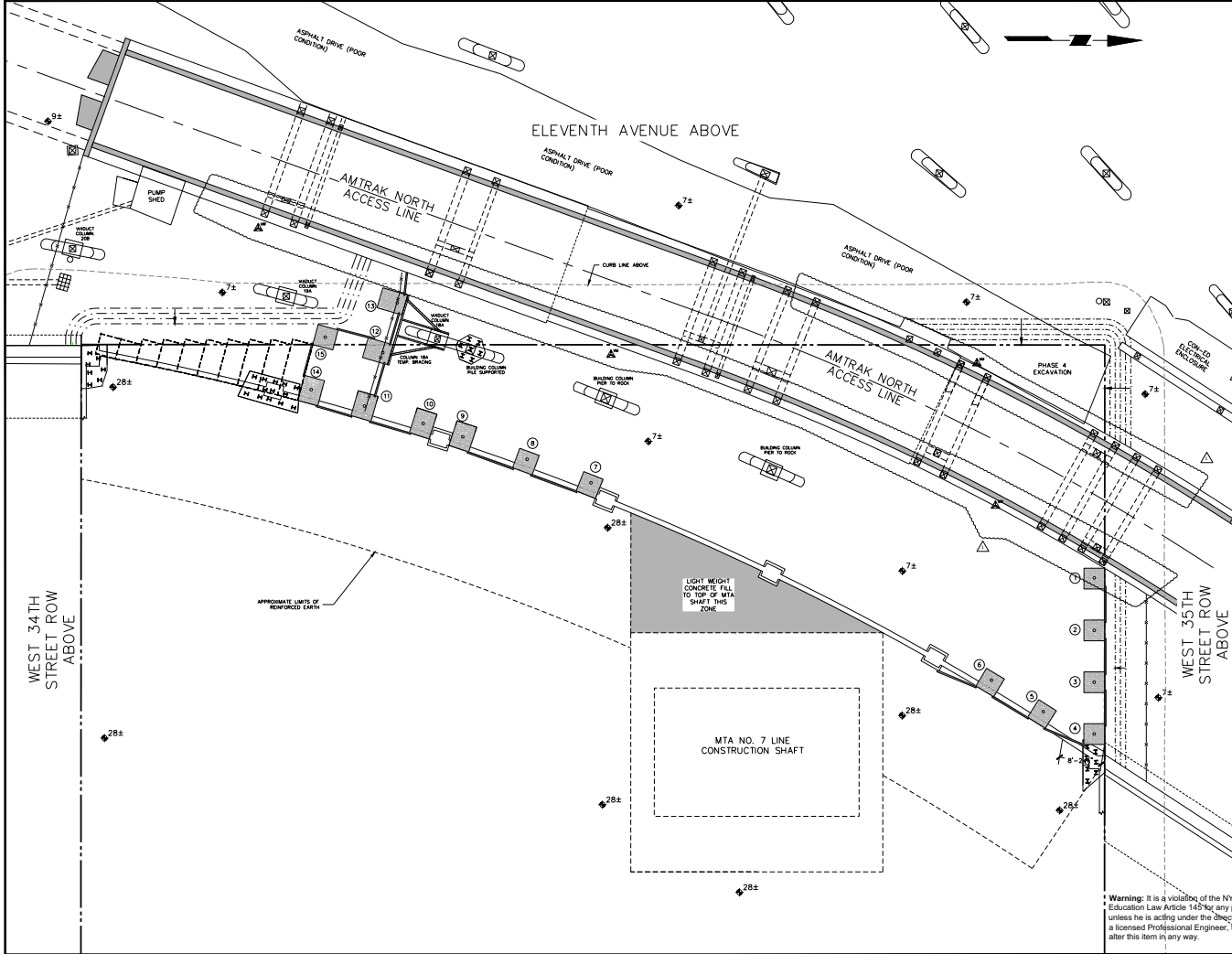
5-11-12	DOT Comments	
2-10-12	Amtrak Comments	
Date	Description	No.

Revisions

MARC J. O'NEILL PROFESSIONAL ENGINEER NY LIC. No. NY 08564	02-10-12
ELANGAN PROJECT AND CONSULTING SERVICES 21 Penn Plaza 20th Floor New York, NY 10001-2222 P: 212.479.8400 F: 212.479.8444 www.elangan.com	

Project	MOINIAN SITE P
Location	536 WEST 34TH STREET NEW YORK

Drawing Title	TYPICAL DETAILS
Project No. 170001001	Drawing No.
Date 10-08-11	
Scale AS SHOWN	SOE-105.00
Drn. By SB	
Cost Revised 06-10-12	01



LEGEND

- ▲ AM PORTABLE SEISMOGRAPH
- SURVEY MONITORING POINT FOR VERTICAL AND LATERAL MOVEMENT
- CONCRETE PIER DESIGNATION
- ◆ ELEV APPROXIMATE GROUND SURFACE ELEVATION

MONITORING NOTES

1. REFER TO SOE-001 FOR ADDITIONAL NOTES
2. SURVEY MONITORING POINTS SHALL BE INSTALLED AT LOCATIONS SHOWN OR AS DETERMINED IN CONSULTATION WITH THE OWNER'S GEOTECHNICAL AND STRUCTURAL ENGINEER. SURVEY MONITORING POINTS ON EXISTING BUILDING SHALL BE SET AT MAXIMUM HORIZONTAL INTERVALS OF 25 FT, BUT NOT LESS THAN TWO POINTS PER BUILDING.
3. BASELINE READINGS FOR SURVEY MONITORING SHALL BE OBTAINED PRIOR TO EXCAVATION OR SHIELDING. SURVEY MONITORING SHALL BE PERFORMED ON A DAILY BASIS.
4. ALERT LEVELS SHOULD ANY OF THE FOLLOWING MAGNITUDES OF MOVEMENT BE DETECTED: THE CONSTRUCTION SHALL IMMEDIATELY CEASE EXCAVATION, TAKE REMEDIAL ACTION, AND ADVISE THE OWNER'S ENGINEER.
 - SURVEY MONITORING POINTS 0.125-INCH LATERAL MOVEMENT OR 0.125-INCH VERTICAL MOVEMENT BETWEEN READINGS OR 0.25 INCHES TOTAL.
5. IN THE EVENT THAT MONITORING INDICATES LATERAL MOVEMENT EXCEEDS THE ABOVE DEFINED ALERT LEVELS LATERAL OR VERTICAL, THE CONSTRUCTION SHALL CEASE EXCAVATION AND PROCEED WITH STABILIZATION OF THE EXCAVATION. SUPPORT SYSTEM VIA INSTALLATION OF TEMPORARY EXTERIOR BRACING AND/OR BRACING. ADDITIONAL EXCAVATION ACTIVITIES SHALL NOT PROCEED WITHOUT THE AUTHORIZATION OF THE OWNER'S ENGINEER AND ANY AGENCIES HAVING JURISDICTION.
6. ALL SURVEY MONITORING POINTS SHALL BEAR A UNIQUE IDENTIFICATION NUMBER. PILING SHALL BE AMENDED AS REQUIRED DURING CONSTRUCTION FOR THE ADJUSTMENT OF ALL MONITORING RESULTS WITH ANY ATTACHED TABLES. ADJUSTED MONITORING RESULTS SHALL BE PROVIDED TO THE OWNER'S ENGINEER WITHIN 24 HOURS OF TAKING READINGS. ALL MONITORING RESULTS SHALL BE PRESERVED IN A MANNER DEEMED ACCEPTABLE TO THE OWNER'S ENGINEER.
7. PORTABLE SEISMOGRAPHS SHALL BE USED TO MEASURE CONSTRUCTION INDUCED VIBRATION AT THE FACE OF ADJACENT TUNNELS. THE MAXIMUM PERMISSIBLE VIBRATION LEVEL FOR ALL CONSTRUCTION ACTIVITIES SHALL BE 0.05 INCHES PER SECOND (IPV). THE MAXIMUM PERMISSIBLE VIBRATION LEVEL FOR GEOTECHNICAL SHALL BE 0.01 INCHES PER SECOND (IPV). THE MAXIMUM PERMISSIBLE VIBRATION LEVELS SHALL BE RECORDED AT HIGHER VELOCITIES. THE MAXIMUM PERMISSIBLE VIBRATION LEVELS SHALL BE RECORDED IN THREE ORTHOGONAL DIRECTIONS.

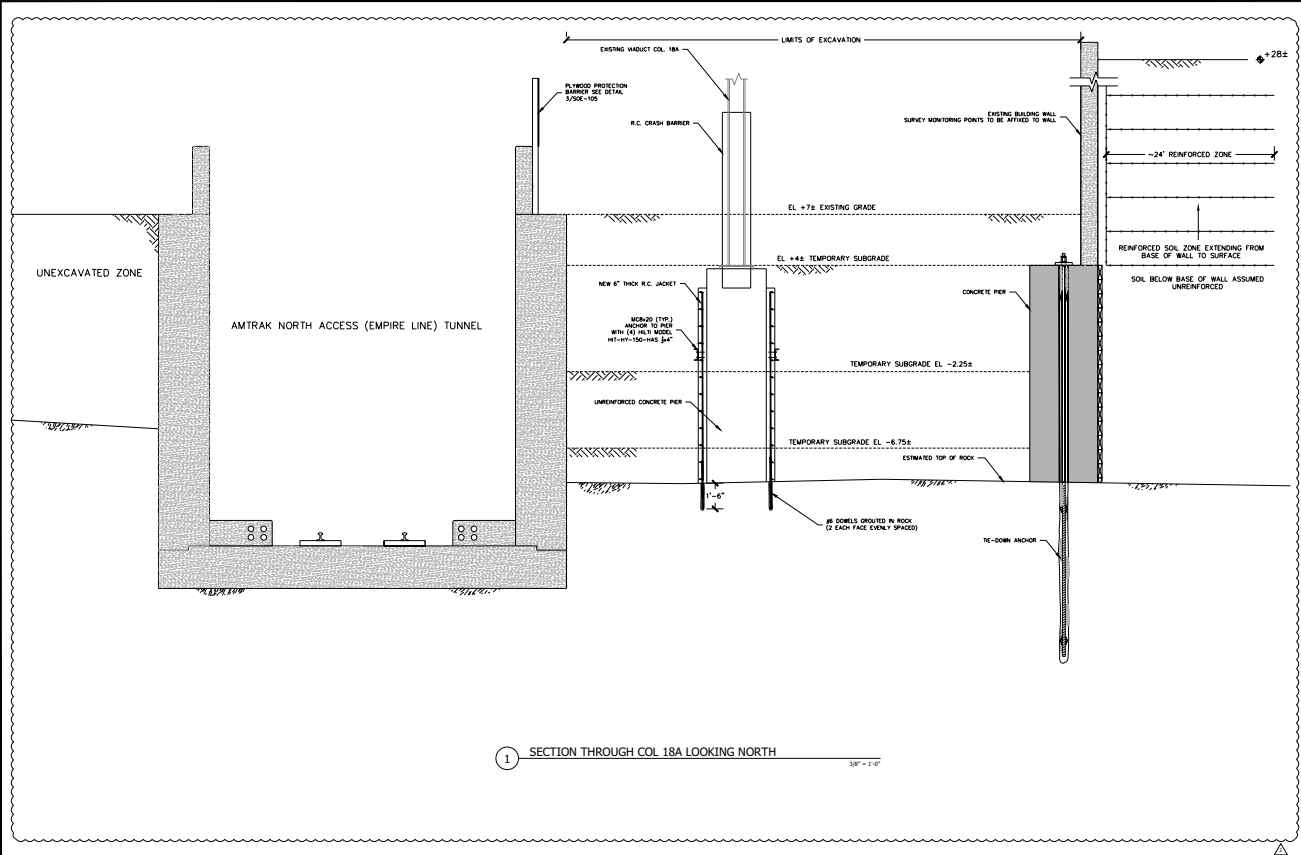
5-11-12	DOT Comments	
2-10-12	Amtrak Comments	
Date	Description	No.
Revisions		

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Project
MOINIAN SITE P
536 WEST 34TH STREET
NEW YORK, NEW YORK
Drawing Title
MONITORING PLAN

Project No. 170001001	Drawing No.
Date 10-08-11	
Scale AS SHOWN	SOE-106.00
Drn. By 38	
Last Revised 06-18-12	01

Filename: \\elangan.com\proj\proj\170001\170001\170001.dwg Date: 5/11/2012 Time: 10:32 User: elangan User: elangan



- NOTES
1. REFER TO SOE-001 FOR GENERAL NOTES.
 2. REFER TO SOE-100 SUPPORT OF EXCAVATION PLAN.
 3. REFER TO SOE-106 FOR MONITORING PLAN AND NOTES.
 4. ELEVENTH AVENUE VADUCT FRAMING NOT SHOWN FOR CLARITY.

5-11-12	DOT Comments	
2-10-12	Amtrak Comments	
Date	Description	No.
Revisions		

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Project
MOINIAN SITE P
536 WEST 34TH STREET
NEW YORK NEW YORK

Drawing Title
**SECTION AT COL. 18A
LOOKING NORTH**

Project No. 170001001	Drawing No.
Date 10-08-11	
Scale AS SHOWN	
Drn. By SB	SOE-107.00
Last Revised 06-10-12	01

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October 5, 2009

Oscar Brecher
The Monian Group
530 Fifth Avenue, Suite 1800
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Tarek Z. Khouri, C.E.M., P.E.

**RE: Waste Characterization Letter Report
555 West 34th Street (the "Site")
New York, New York
BCP Site #C231049
Langan Project No.: 170081001**

Dear Mr. Brecher:

Langan Engineering and Environmental Services, P.C. (Langan) prepared this Waste Characterization Report at the request of The Monian Group to characterize the subsurface soil and groundwater within the designated Amtrak Easement at 555 West 34th Street, NY, NY (Site). A site location map is provided as Figure 1. This report was prepared to characterize on-site soil and groundwater prior to proposed soil excavation to facilitate acceptance of the excavated soil at a disposal facility. In addition, the characterization of the groundwater will determine disposal options during dewatering.

BACKGROUND

The Site is located at 555 West 34th Street, NY, NY. The Site is bounded to the north by the Javits Center, to the east by Eleventh Avenue, to the south by W. 30th Street, and to the west by Twelfth Avenue. The Site is identified as the Amtrak Easement. The area of investigation is located west of the bulkhead wall where the ground elevation is approximately 20 feet below street grade. A Site Plan is provided as Figure 2.

Previous remedial investigations conducted in the vicinity of the Site (not in the Amtrak Easement) identified historic urban fill. Analytical results of samples collected indicated several constituents at concentrations above New York State Department of Environmental Conservation (NYSDEC) Technical and Administrative Guidance Memorandum #4046 (TAGM)

Recommended Soil Cleanup Objectives (RSCOs) and New Jersey Department of Environmental Protection (NJDEP) Non-Residential Soil Cleanup Criteria (SCC).

SAMPLING METHODOLOGIES

A grid system was developed to ensure that samples collected are representative of soil conditions across the Site. Five soil borings were advanced in each of the six grids (G-1 through G-6) to depths ranging from 4 feet below ground surface (bgs) to 16 feet bgs. Temporary groundwater monitoring wells were installed in G-1, G-5 and G-6. Seventy soil samples, including 57 grab and 13 composite soil samples, and two groundwater samples were collected. A groundwater sample could not be collected from the temporary well MW-2 located in G-6 due to lack of recharge. Composite samples were collected by homogenizing soil collected from two and three soil borings within each sampling grid. A Sample Location Plan is provided on Figure 3 and daily field reports are located in Attachment A.

Prior to the initiation of the waste characterization activities a ground penetrating radar (GPR) survey was conducted by Hydro Tech Environmental, Inc. (Hydro Tech). During drilling, removal of the surface water utilizing a Vac-truck was ongoing. Following the GPR survey to delineate underground utilities, direct push Geoprobe® borings were advanced by Hydro Tech, and soil and groundwater samples were collected by Langan on July 8, 2009, and August 3 through August 14, 2009. A Langan engineer supervised the site work, screened the soil samples for organic vapors using a hand held photo-ionization detector (PID), and collected waste characterization samples for laboratory analysis. The soil samples were also inspected for staining, odors, and other indications of contamination. Observations were recorded in a field log by the field engineer at the time of inspection.

Soil borings were advanced to depths ranging from a minimum of 4 feet bgs to a maximum of 16 feet bgs. Soil samples were collected continuously from the ground surface to the final sample depth using dedicated, acetate-lined Geoprobe® Macrocore samplers in four-foot intervals. Soil boring logs are presented in Attachment B. During drilling of the soil borings in G-1 and G-2 a slight petroleum odor was noted.

Temporary monitoring wells were installed in grids G-1 (MW-1), G-5 (MW-3) and G-6 (MW-2). As previously discussed, groundwater samples were collected from MW-1 and MW-3. Prior to groundwater sampling the temporary wells were purged to remove standing water and silt. The groundwater sample was collected using a peristaltic pump.

Soil and groundwater samples were collected in laboratory-supplied sample containers with appropriate preservatives, placed in ice-chilled coolers, and shipped under chain-of-custody protocol to York Analytical Laboratories, Inc. (York), a New York State Department of Health (NYSDOH)-certified laboratory located in Stratford, Connecticut. Grab soil samples were analyzed for total petroleum hydrocarbons (TPHs) - diesel range organics (DRO) via EPA Method 8015.

Composite soil samples were analyzed for full NJDEP SCC in accordance with applicable U.S. Environmental Protection Agency (EPA) Methods. The analysis included Target Compound List (TCL) volatile organic compounds (VOCs), TCL semi-volatile organic compounds (SVOCs); Target Analyte List (TAL) metals; polychlorinated biphenyls (PCBs); pesticides; Toxicity Characteristics Leaching Procedure (TCLP) metals; Resource Conservation and Recovery Act (RCRA) characteristics; and paint filter.

Groundwater samples were analyzed for TCL VOCs; TCL SVOCs; TAL metals; and New York City Department of Environmental Protection (NYCDEP) sewer discharge parameters.

RESULTS

Laboratory analytical results from the soil samples were compared to NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives (SCOs), NJDEP Residential SCC, and EPA RCRA Maximum Contaminant Concentrations for the Hazardous Characteristics. Groundwater sampling results were compared to NYSDEC Technical and Operations Guidance Series (TOGS) Ambient Water Quality Standards (AWQS) as well as NYCDEP Bureau of Wastewater Treatment Limitations for Effluent to Sanitary or Combined Sewers. Laboratory data results are presented in Tables 1 through 5 and Figures 3, 4, and 5. Laboratory analytical data are included in Attachment C.

Based on the field observations and the analytical results, we present the following summary:

Soil Samples

Fill material consisting of silt, fine sand, and fine gravel was encountered at depths ranging from 3 to 12 feet bgs. Native soil, consisting of brown silty sand, was observed in several

borings below the historic fill. Depth of native soil ranged from three to eight feet bgs. No native soil was observed in grids G-4 and G-6.

No VOCs were detected at concentrations exceeding applicable standards. Two SVOCs exceed the NJDEP Residential SCCs in grids G-3 and G-4. Pesticides exceed 6 NYCRR Part 375 standards in grids G-3, G-4, G-5 and G-6. PCBs were also noted in G-6 above these standards.

Metals exceedances were detected above NYSDEC Part 375 Unrestricted Use SCOs in 10 of the 12 composite samples. The only soil samples that did not exhibit elevated metals were the composite samples from grid G-1.

Characteristics of RCRA hazardous waste were not detected in the site-wide composite soil sample and all TCLP metal results are below RCRA Hazardous Waste Regulatory Levels for the Toxicity Characteristics. TPH-DRO results ranged from non-detect to 429 milligrams per kilogram (mg/kg) throughout the Site.

Groundwater Samples

Groundwater was encountered at depths between approximately 1.5 to 2.5 feet bgs at the Site. Benzene was detected at the NYSDEC TOGS regulatory standard in MW-1 but below NYCDEP Discharge Standards. One PCB, Aroclor-1016 was detected above regulatory standards in MW-3, but below NYCDEP Discharge Standards. SVOCs were not detected in either well. Select metals were detected at concentrations exceeding their respective NYSDEC AWQS.

CONCLUSIONS

Based on the soil analytical results from the Site all soils within this area are considered a non-hazardous regulated solid waste in New York State, and should be handled and disposed of accordingly. Prior to proposed excavation, these analytical results can be utilized in the selection of an acceptable soil disposal facility. The groundwater analytical results can be used to obtain a NYCDEP Sewer Discharge Permit, if dewatering is required.

Should you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,
Langan Engineering and Environmental Services, P.C.



Susan Bianchetti, CPG
Project Manager

SFB:sfb

Enclosure(s):

Figure 1 to Figure 5
Table 1 to Table 5
Attachment A – Daily Field Reports
Attachment B – Soil Boring Logs
Attachment C – Laboratory Analytical Data

cc: File

FIGURES



MAPS REFERENCED: UNITED STATES GEOLOGICAL SURVEY (USGS), CENTRAL PARK, NEW YORK AND
 WEEHAWKEN, NEW JERSEY-NEW YORK, TOPOGRAPHIC QUADRANGLE MAPS, DATED 1966 AND 1967,
 REVISED 1994 AND 1979 RESPECTIVELY.

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NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA NEVADA

NJ Certificate of Authorization No: 24GA27996400

AMTRAK – 555 West 34th Street

SITE LOCATION MAP

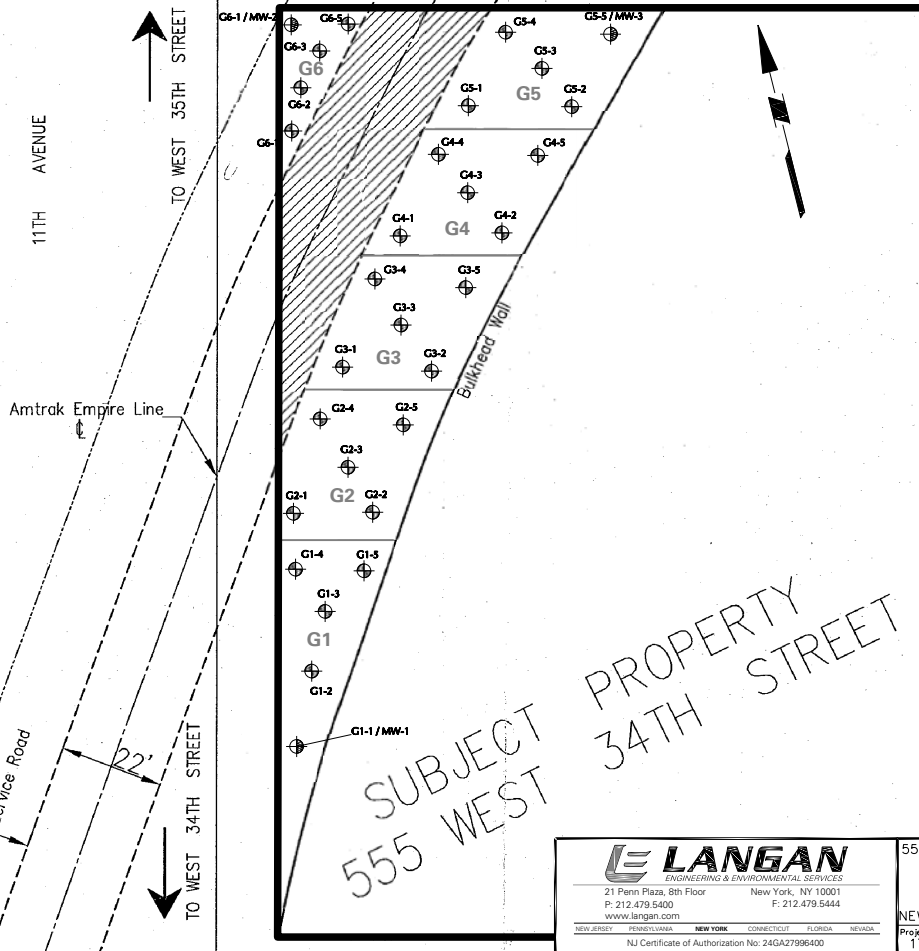
NEW YORK

NEW YORK

Project No. 170081001	Date 02/19/10	Scale NTS	Dwg. No. 1
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Jacob Javits Convention Center

(Front Driveway approximately 20' below Site grade)

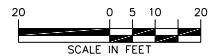


LEGEND:

-  **G1-2** WASTE CHARACTERIZATION SAMPLE LOCATION
-  **G1-1/MW-1** WASTE CHARACTERIZATION SAMPLE / MONITORING WELL LOCATION
-  PROPERTY BOUNDARY
-  **G1** WASTE CHARACTERIZATION GRID NUMBER
-  WASTE CHARACTERIZATION GRID BOUNDARY

NOTE:

1. BASE MAP IS FROM DRAWING NO.3, TITLED AMTRACK EASEMENT PROPOSED SOIL AND GROUNDWATER SAMPLE LOCATIONS, DATED OCTOBER 2008 FROM FLEMING LEE SHUE



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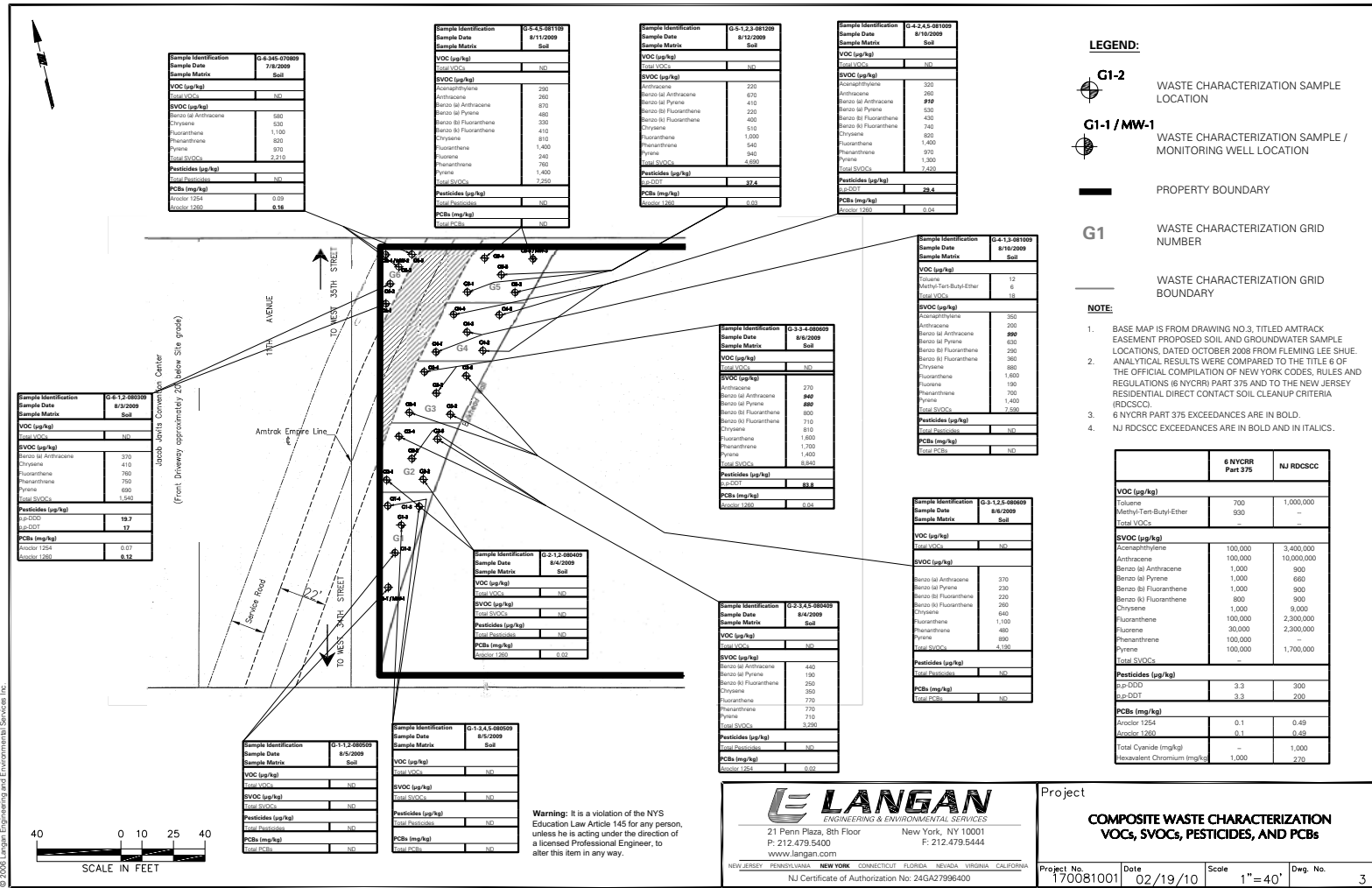
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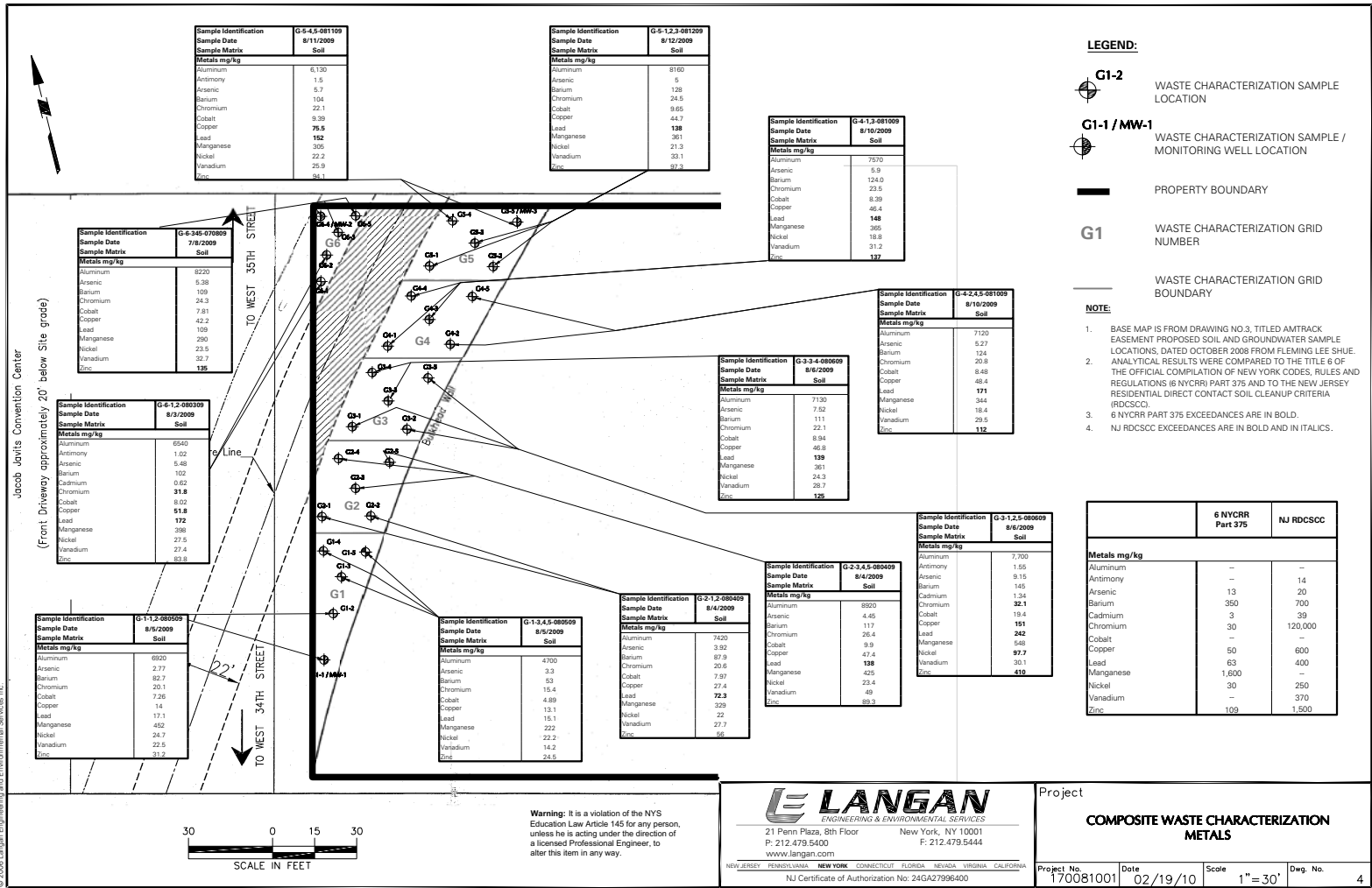
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NJ Certificate of Authorization No. 24GA27996400

555 West 34th Street

WASTE CHARACTERIZATION SAMPLE AND MONITORING WELL LOCATIONS PLAN

NEW YORK		NEW YORK	
Project No.	Date	Scale	Dwg. No.
170081001	02/19/10	1"=20'	2





(Front Driveway approximately 20' below Site grade)

11TH AVENUE

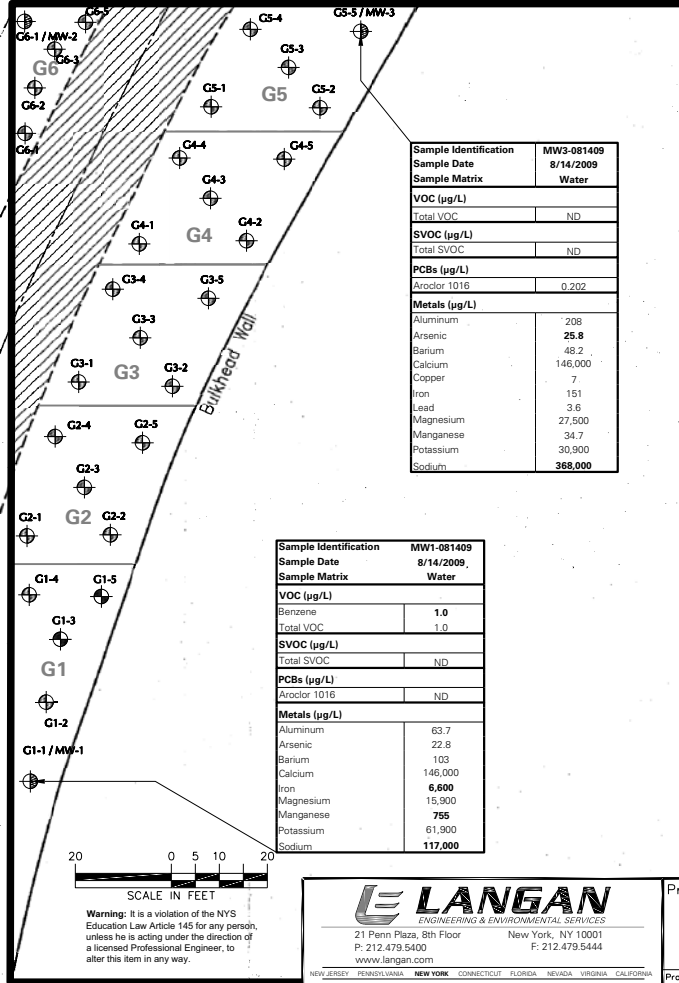
TO WEST 35TH STREET

Amtrak Empire Line

TO WEST 34TH STREET

Service Road

22'



Sample Identification	MW3-081409
Sample Date	8/14/2009
Sample Matrix	Water
VOC (µg/L)	
Total VOC	ND
SVOC (µg/L)	
Total SVOC	ND
PCBs (µg/L)	
Aroclor 1016	0.202
Metals (µg/L)	
Aluminum	208
Arsenic	25.8
Barium	48.2
Calcium	146,000
Copper	7
Iron	151
Lead	3.6
Magnesium	27,500
Manganese	34.7
Potassium	30,900
Sodium	368,000

Sample Identification	MW1-081409
Sample Date	8/14/2009
Sample Matrix	Water
VOC (µg/L)	
Benzene	1.0
Total VOC	1.0
SVOC (µg/L)	
Total SVOC	ND
PCBs (µg/L)	
Aroclor 1016	ND
Metals (µg/L)	
Aluminum	63.7
Arsenic	22.8
Barium	103
Calcium	146,000
Iron	6,600
Magnesium	15,900
Manganese	755
Potassium	61,900
Sodium	117,000

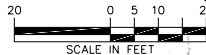
LEGEND:

- G1-2 WASTE CHARACTERIZATION SAMPLE LOCATION
- G1-1 / MW-1 WASTE CHARACTERIZATION SAMPLE / MONITORING WELL LOCATION
- PROPERTY BOUNDARY
- G1 WASTE CHARACTERIZATION GRID NUMBER
- WASTE CHARACTERIZATION GRID BOUNDARY

NOTE:

- BASE MAP IS FROM DRAWING NO.3, TITLED AMTRACK EASEMENT PROPOSED SOIL AND GROUNDWATER SAMPLE LOCATIONS, DATED OCTOBER 2008 FROM FLEMING LEE SHUE. EXCEEDANCES ARE IN BOLD.

New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS)	
VOC (µg/L)	
Benzene	1
Total VOC	1
SVOC (µg/L)	
Total SVOC	ND
PCBs (µg/L)	
Aroclor 1016	5
Metals (µg/L)	
Aluminum	208
Arsenic	25.8
Barium	48.2
Calcium	146,000
Copper	7
Iron	151
Lead	3.6
Magnesium	27,500
Manganese	34.7
Potassium	30,900
Sodium	368,000



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Project			
GROUNDWATER ANALYTICAL RESULTS			
Project No.	Date	Scale	Dwg. No.
170081001	02/19/10	1"=20'	5

TABLES

Table 1
Detected VOC, SVOC, Pesticides, PCBs, Cyanide and Hexavalent Chromium in Composite Soil Samples
555 West 34th Street, New York, NY
Langan Project No.: 170081001

Sample Identification Sample Date Sample Matrix	6 NYCRR Part 375	NJ RDCSCC	G-6-3,4,5-070809 7/8/2009 Soil	G-6-1,2-080309 8/3/2009 Soil	G-1-1,2-080509 8/5/2009 Soil	G-1-3,4,5-080509 8/5/2009 Soil	G-2-1,2-080409 8/4/2009 Soil	G-2-3,4,5-080409 8/4/2009 Soil	G-3-3-4-080609 8/6/2009 Soil	G-3-1,2,5-080609 8/6/2009 Soil	G-4-1,3-081009 8/10/2009 Soil	G-4-2,4,5-081009 8/10/2009 Soil	G-5-4,5-081109 8/11/2009 Soil	G-5-1,2,3-081209 8/12/2009 Soil
VOC (µg/kg)														
Toluene	700	1,000,000	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND
Methyl-Tert-Butyl-Ether	930	–	ND	ND	ND	ND	ND	ND	ND	ND	6	ND	ND	ND
Total VOCs	–	–	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	ND	ND
SVOC (µg/kg)														
Acenaphthylene	100,000	3,400,000	ND	ND	ND	ND	ND	ND	ND	ND	350	320	290	ND
Anthracene	100,000	10,000,000	ND	ND	ND	ND	ND	ND	270	ND	200	260	260	220
Benzo (a) Anthracene	1,000	900	580	370	ND	ND	ND	440	940	370	990	910	870	670
Benzo (a) Pyrene	1,000	660	ND	ND	ND	ND	ND	190	880	230	630	530	480	410
Benzo (b) Fluoranthene	1,000	900	ND	ND	ND	ND	ND	ND	800	220	290	430	330	220
Benzo (k) Fluoranthene	800	900	ND	ND	ND	ND	ND	250	710	260	360	740	410	400
Chrysene	1,000	9,000	530	410	ND	ND	ND	350	810	640	880	820	810	510
Fluoranthene	100,000	2,300,000	1,100	760	ND	ND	ND	770	1,600	1,100	1,600	1,400	1,400	1,000
Fluorene	30,000	2,300,000	ND	ND	ND	ND	ND	ND	ND	ND	190	ND	240	ND
Phenanthrene	100,000	–	820	750	ND	ND	ND	770	1,700	480	700	970	760	540
Pyrene	100,000	1,700,000	970	690	ND	ND	ND	710	1,400	890	1,400	1,300	1,400	940
Total SVOCs	–	–	2,210	1,540	ND	ND	ND	3,290	8,840	4,190	7,590	7,420	7,250	4,690
Pesticides (µg/kg)														
p,p-DDD	3.3	300	ND	19.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p,p-DDT	3.3	200	ND	17	ND	ND	ND	ND	83.8	ND	ND	29.4	ND	37.4
PCBs (mg/kg)														
Aroclor 1254	0.1	0.49	0.09	0.07	ND	ND	ND	0.02	ND	ND	ND	ND	ND	ND
Aroclor 1260	0.1	0.49	0.16	0.12	ND	ND	0.02	ND	0.04	ND	ND	0.04	ND	0.03
Metals (mg/kg)														
Total Cyanide	–	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexavalent Chromium	1,000	270	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

Analytical results were compared to the title 6 of the official compilation of New York codes, rules and regulations (6 NYCRR) Part 375 and to the New Jersey Residential Direct Contact Soil Cleanup Criteria (RDCSCC).

6 NYCRR Part 375 exceedances are **bold**.

NJ SCC exceedances are in **bold italics**.

VOC = Volatile Organic Compounds

SVOC = Semi-Volatile Organic Compounds

PCBs = Polychlorinated Biphenyls

– = No Standard

N/A = Not Applicable

ND = Not Detected

µg/kg = micrograms per kilograms

mg/kg = milligrams per kilograms

This Table Lists Only Compounds Detected At Concentrations Exceeding Their Respective Method Detection Limit.

Table 2
Detected Metals in Composite Soil Samples
555 West 34th Street, New York, NY
Langan Project No.: 170061001

Sample Identification Sample Date Sample Matrix	6 NYCRR 375	Part	NJ RDCSCC	G-6-3,4,5-070809 7/8/2009 Soil	G-6-1,2-080309 8/3/2009 Soil	G-1-1,2-080509 8/5/2009 Soil	G-1-3,4,5-080509 8/5/2009 Soil	G-2-1,2-080409 8/4/2009 Soil	G-2-3,4,5-080409 8/4/2009 Soil	G-3-3-4-080609 8/6/2009 Soil	G-3-1,2,5-080609 8/6/2009 Soil	G-4-1,3-081009 8/10/2009 Soil	G-4-2,4,5-081009 8/10/2009 Soil	G-5-4,5-081109 8/11/2009 Soil	G-5-1,2,3-081209 8/12/2009 Soil
Metals mg/kg															
Aluminum	–	–	–	8,220	6,540	6,920	4,700	7,420	8,920	7,130	7,700	7,570	7,120	6,130	8,160
Antimony	–	–	14	ND	1.02	ND	ND	ND	ND	ND	1.55	ND	ND	1.51	ND
Arsenic	13	20	20	5.38	5.48	2.77	3.3	3.92	4.45	7.52	9.15	5.9	5.27	5.67	4.97
Barium	350	700	109	109	102	82.7	53	67.9	117	111	145	124	124	104	128
Cadmium	3	39	ND	ND	0.62	ND	ND	ND	ND	ND	1.34	ND	ND	ND	ND
Chromium	30	120,000	24.3	24.3	31.8	20.1	15.4	20.6	26.4	22.1	32.1	23.5	20.8	22.1	24.5
Cobalt	–	–	7.81	7.81	8.02	7.26	4.89	7.97	9.9	8.94	19.4	8.39	8.48	9.39	9.65
Copper	50	600	42.2	42.2	51.8	14	13.1	27.4	47.4	46.8	151	46.4	48.4	75.5	44.7
Lead	63	400	109	109	172	17.1	15.1	72.3	138	139	242	148	171	152	138
Manganese	1,600	–	290	290	398	452	222	329	425	361	548	365	344	305	361
Nickel	30	250	23.5	23.5	27.5	24.7	22.2	22	23.4	24.3	97.7	18.8	18.4	22.2	21.3
Vanadium	–	370	32.7	32.7	27.4	22.5	14.2	27.7	49	28.7	30.1	31.2	29.5	25.9	33.1
Zinc	109	1,500	135	135	83.8	31.2	24.5	56	89.3	125	410	137	112	94.1	97.3

Notes:
Analytical results were compared to the title 6 of the official compilation of New York codes, rules and regulations (6 NYCRR) Part 375 and to the New Jersey Residential Direct Contact Soil Cleanup Criteria (RDCSCC).
6 NYCRR Part 375 exceedances are **bold**.
NJ RDCSCC exceedances are in **bold italics**.
– = No Standard
N/A = Not Applicable
ND = Not Detected
mg/kg = milligrams per kilograms
This Table Lists Only Compounds Detected At Concentrations Exceeding Their Respective Method Detection Limit.

Table 3
Detected TCLP Metals in Composite Soil Samples
555 West 34th Street, New York, NY
Langan Project No.: 170081001

Sample Identification	RCRA	G-6-3,4,5-070809	G-6-1,2-080309	G-1-1,2-080509	G-1-3,4,5-080509	G-2-1,2-080409	G-2-3,4,5-080409	G-3-3-4-080609	G-3-1,2,5-080609	G-4-1,3-081009	G-4-2,4,5-081009	G-5-4,5-081109	G-5-1,2,3-081209
Sample Date		7/8/2009	8/3/2009	8/5/2009	8/5/2009	8/4/2009	8/4/2009	8/6/2009	8/6/2009	8/10/2009	8/10/2009	8/11/2009	8/12/2009
Sample Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
TCLP Metals mg/L													
TCLP Barium	100	1.06	0.786	1.32	1.38	1.13	1.29	0.515	1.06	0.909	0.869	1.11	0.992
TCLP Chromium	5	0.015	ND	ND	ND	ND	ND	ND	0.008	0.005	ND	ND	0.006
TCLP Lead	5	0.399	0.038	1.55	0.106	0.084	0.169	0.067	0.167	0.155	0.057	1.37	0.273
TCLP Copper	—	0.084	0.009	0.022	0.032	0.059	0.019	0.018	0.044	0.038	0.024	0.052	0.077
TCLP Nickel	—	0.07	0.04	0.029	0.023	0.032	0.034	0.03	0.044	0.056	0.041	0.048	0.044
TCLP Zinc	—	1.45	1.06	0.689	0.732	0.704	0.788	0.809	0.942	1.7	0.726	0.964	1.01

Notes:
Analytical results were compared to the United States Environmental Protection Agency (USEPA) Resource Conservation and Recovery Act (RCRA) soil waste classification.
Exceedances are in bold.
— = No Standard
ND = Not Detected
mg/L = milligrams per liter
This Table Lists Only Compounds Detected At Concentrations Exceeding Their Respective Method Detection Limit.

Table 4
Total Petroleum Hydrocarbon/DRO Results in Grab Soil Samples
555 West 34th Street, New York, NY
Langan Project No.: 170081001

Sample Identification	Sample Date	Total Petroleum Hydrocarbons - DRO (mg/kg)
G-6-5-070809	7/8/2009	358
G-6-4-070809	7/8/2009	44
G-6-3-070809	7/8/2009	347
G-6-345-070809	7/8/2009	222
G-6-1-080309	8/3/2009	154
G-6-2-080309	8/3/2009	116
G-6-1,2-080309	8/3/2009	126
G-1-1-080509	8/5/2009	16.9
G-1-2-080509	8/5/2009	ND
G-1-1,2-080509	8/5/2009	70.1
G-1-3-080509	8/5/2009	ND
G-1-4-080509	8/5/2009	ND
G-1-5-080509	8/5/2009	91.7
G-1-3,4,5-080509	8/5/2009	ND
G-2-1-080409	8/4/2009	246
G-2-2-080409	8/4/2009	54.3
G-2-1,2-080409	8/4/2009	148
G-2-3-080409	8/4/2009	ND
G-2-4-080409	8/4/2009	365
G-2-5-080409	8/4/2009	429
G-2-3,4,5-080409	8/4/2009	200
G-3-3a-080609	8/6/2009	136
G-3-3-080609	8/6/2009	37
G-3-4a-080609	8/6/2009	66.6
G-3-4-080609	8/6/2009	105
G-3-3-4-080609	8/6/2009	118
G-3-1a-080609	8/6/2009	113
G-3-1-080609	8/6/2009	105
G-3-2a-080609	8/6/2009	129
G-3-2-080609	8/6/2009	114
G-3-5a-080609	8/6/2009	211
G-3-5-080609	8/6/2009	43.4
G-1-1a-081009	8/10/2009	108
G-1-2a-081009	8/10/2009	88.6
G-1-3a-081009	8/10/2009	118
G-1-4a-081009	8/10/2009	174
G-1-5a-081009	8/10/2009	123
G-2-1a-081009	8/10/2009	109
G-1-5a-081009	8/10/2009	87.6
G-2-1a-081009	8/10/2009	87
G-2-2a-081009	8/10/2009	175
G-2-3a-081009	8/10/2009	125
G-2-4a-081009	8/10/2009	92.4
G-2-5a-081009	8/10/2009	95.8
G-4-1a-081009	8/10/2009	199
G-4-1-081009	8/10/2009	19.2
G-4-1,3-081009	8/10/2009	103
G-6-1a-081009	8/10/2009	258

Table 4
Total Petroleum Hydrocarbon/DRO Results in Grab Soil Samples
555 West 34th Street, New York, NY
Langan Project No.: 170081001

Sample Identification	Sample Date	Total Petroleum Hydrocarbons - DRO (mg/kg)
G-6-2a-081009	8/10/2009	198
G-6-3a-081009	8/10/2009	519
G-6-4a-081009	8/10/2009	425
G-6-5a-081009	8/10/2009	431
G-4-4a-081009	8/10/2009	181
G-4-4-081009	8/10/2009	173
G-4-5a-081009	8/10/2009	354
G-4-5-081009	8/10/2009	330
G-4-2a-081009	8/10/2009	424
G-4-2-081009	8/10/2009	377
G-4-2,4,5-081009	8/10/2009	222
G-5-4a-081109	8/11/2009	435
G-5-4-081109	8/11/2009	334
G-5-5a-081109	8/11/2009	507
G-5-5-081109	8/11/2009	436
G-5-4,5-081109	8/11/2009	406
G-5-1-081209	8/12/2009	156
G-5-2-081209	8/12/2009	82.3
G-5-3-081209	8/12/2009	71.5
G-5-1,2,3-081209	8/12/2009	74.4

Notes:

ND = Not Detected

This Table Lists Only Compounds Detected At Concentrations Exceeding Their Respective Method Detection Limit.

Table 5
Detected VOCs, SVOCs, PCBs and Metals in Groundwater Samples
555 West 34th Street, New York, NY
Langan Project No.: 170081001

Sample Identification	NYSDEC TOGS 1.1.1	NYCDEP Limitations for	MW1-081409	MW3-081409
Sample Date	Ambient Water Quality	Effluent to Sanitary or	8/14/2009	8/14/2009
Sample Matrix	Standard	Combined Sewers	Water	Water
VOC (µg/L)				
Benzene	1	134	1.0	ND
Total VOC	--	--	1.0	ND
SVOC (µg/L)				
Total SVOC	--	--	ND	ND
PCBs (µg/L)				
Aroclor 1016	0.09	1	ND	0.202
Metals (µg/L)				
Aluminum	--	--	63.7	208
Arsenic	25	--	22.8	25.8
Barium	1,000	--	103	48.2
Calcium	--	--	146,000	146,000
Copper	200	5,000	ND	7
Iron	300	--	6,600	151
Lead	25	2,000	ND	3.6
Magnesium	35,000	--	15,900	27,500
Manganese	300	--	755	34.7
Potassium	--	--	61,900	30,900
Sodium	20,000	--	117,000	368,000

Notes:

Analytical results were compared to the New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards (AWQS).

NYSDEC TOGS Exceedances are **bold**.

VOC = Volatile Organic Compounds

SVOC = Semi-Volatile Organic Compounds

PCBs = Polychlorinated Biphenyls

-- = No Standard

µg/L = micrograms per Liter

ND = not detected

This Table Lists Only Compounds Detected At Concentrations Exceeding Their Respective Method Detection Limit.

ATTACHMENTS

ATTACHMENT A

Daily Field Reports

SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: August 3, 2009
PROJECT: 555 West 34 th Street		WEATHER: Sunny, 82°F
LOCATION: New York, NY		TIME: 7:15 am – 1:30 pm

CONTRACTOR & EQUIPMENT:	PRESENT AT SITE:	PRESENT AT SITE:
Hydro Tech – Geoprobe 5410, Hand Tools, photo-ionization detector (PID), pdr-1000 dust meter. AB Oil – One 4,500-gallon vacuum truck	Anthony Vanatta – Langan Efrahim Hernandez – Hydrotech Umberto Rivera – Hydrotech Scott Butler – Amtrak Nicholas Flocco - Amtrak	Peter Greaves – Amtrak AB Oil – Dave Schoneboon, Juan, Modesto Maya

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan onsite to oversee drilling and collect samples for soil waste characterization in the Amtrak Easement. Site work resumes after Amtrak has coordinated removal of loose concrete from the overhead 34th St. structure that is adjacent to the east of the 11th Avenue viaduct.

GENERAL COMMENTS:

Langan arrived onsite at 7:10 am

1. Langan, Hydro Tech, and AB oil attend Amtrak safety meeting.
2. AB Oil evacuates water from the G-6 grid area and from the large puddle on the east side of the tracks. They remove a total of 4,300 gallons. These puddles have restored to their original size observed in early July, if not larger. Multiple vac trucks will be required to drain the puddle on the east side of the tracks.
3. Hydro Tech completes borings G-6-1 and G-6-2 in grid 6. A. Vanatta collects a TPH DRO composite from each boring and a composite of the two borings to analyze for NJSCC and TCLP metals. This completes sampling of grid 6. Langan signs over chain-of-custody of samples to Hydro Tech. They will submit samples to the lab.
4. The temp well installed in G-6-4 back in early July is still present. Hydro Tech has not yet received budget approval for groundwater sampling.
5. Amtrak (Scott Butler) stops work at 1:30 pm. All Amtrak employees on site are working night shifts. Their group is short staffed and as a result on-site Amtrak personnel terminated site work at 1:30 pm.

All personnel off-site at 1:30 pm.

Future Site Activities

1. Hydro Tech will continue drilling at the site.
2. Hydro Tech will perform GPR survey in grids G-3, G-4 and G-5.
3. AB Oil will return to the site to remove standing water.
4. Groundwater sampling.

cc: Susan Bianchetti - LANGAN Saul Shapiro - LANGAN	By: Anthony Vanatta Langan Engineering and Environmental Services, P.C.
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SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: August 4, 2009
PROJECT: 555 West 34 th Street		WEATHER: Sunny, 85°F
LOCATION: New York, NY		TIME: 7:10 am – 4:00 pm

CONTRACTOR & EQUIPMENT: Hydro Tech – Geoprobe 5410, Hand Tools, photo-ionization detector (PID), pdr-1000 dust meter. AB Oil – two 4,500-gallon vacuum trucks.	PRESENT AT SITE: Anthony Vanatta – Langan Efrahim Hernandez – Hydrotech Umberto Rivera – Hydrotech Scott Butler – Amtrak Nicholas Flocco - Amtrak	PRESENT AT SITE: Carlos Cruz – Amtrak Peter Greaves – Amtrak Clyde Rivers - Amtrak Mike Boyd – Amtrak AB Oil – Dave Shoneboon, Juan, Modesto Maya
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OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan onsite to oversee drilling and collect samples for soil waste characterization in the Amtrak Easement.

GENERAL COMMENTS:

Langan arrived onsite at 7:10 am

1. Langan Hydro Tech and AB Oil attend Amtrak safety meeting.
2. Langan coordinates with Dave from S3II tunnel contractors to move cars in parking area to allow access for Geoprobe rig to east easement area. This caused a 1.5 hour delay in drilling. Langan taped off area with caution tape to prevent cars from parking in the area tomorrow.
3. Hydro Tech attempts to complete soil borings in Grid 1 however the boreholes repeatedly cave in, preventing Hydro Tech from reaching bedrock. This condition requires discrete sampling tools that Hydro Tech did not come prepared with today. Langan calls Carlos Quinonez from Hydro Tech and he states they will bring the discrete sampler tomorrow.
4. Langan directs Hydro Tech to relocate to Grid 2. By the end of the day, Hydro Tech completes all borings in this grid and Langan completes all sampling. Langan observes slight petroleum-like odors in borings G-2-3 and G-2-2. No PID readings are observed. Langan signs over chain-of-custody of samples to Hydro Tech. They will submit samples to the lab.
5. AB Oil evacuates a total of approximately 5,350 gallons of standing water from the east easement area. They are off-site by 12:20 pm.
6. At 1:30 pm, water begins to pour into the east easement area from overhead through an approximately 1" dia. hole in the 34th Street property's ceiling. The flow increases in intensity and is restoring the puddle that AB oil evacuated. Langan visits the S3II jobsite above and observes workers flushing out a concrete pump machine with hose water. Langan follows the flow of water to the hole above the easement area. Langan discusses the issue with Brian, Dave, and Austin, superintendents from S3II. They stop draining water to the area and will attempt to re-route the wash water to a location away from the easement area. Langan will check-in tomorrow morning with S3II to discuss their solution to ensure that this does not happen again.

cc: Susan Bianchetti - LANGAN
Saul Shapiro - LANGAN

By: Anthony Vanatta
Langan Engineering and Environmental Services, P.C.

SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: August 4, 2009
PROJECT: 555 West 34 th Street		WEATHER: Sunny, 85°F
LOCATION: New York, NY		TIME: 7:10 am – 4:00 pm

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

All personnel off site by 4:00 pm.

Future Site Activities

1. Hydro Tech will continue drilling at the site.
2. Hydro Tech will perform GPR survey in grids G-3, G-4 and G-5.
3. AB Oil will return to the site to remove standing water.
4. Groundwater sampling.

cc: Susan Bianchetti - LANGAN
Saul Shapiro - LANGAN

By: Anthony Vanatta
Langan Engineering and Environmental Services, P.C.

SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: August 5, 2009
PROJECT: 555 West 34 th Street		WEATHER: Sunny, 85°F
LOCATION: New York, NY		TIME: 7:00 am – 3:30 pm

CONTRACTOR & EQUIPMENT: Hydro Tech – Geoprobe 5410, Hand Tools, photo-ionization detector (PID), pdr-1000 dust meter. AB Oil – two 4,500-gallon vacuum trucks.	PRESENT AT SITE: Anthony Vanatta – Langan Efrahim Hernandez – Hydrotech Umberto Rivera – Hydrotech Peter Greaves – Amtrak Clyde Rivers - Amtrak	PRESENT AT SITE: Mike Boyd – Amtrak AB Oil – Sean King, Henry
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OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan onsite to oversee drilling and collect samples for soil waste characterization in the Amtrak Easement.

GENERAL COMMENTS:

Langan arrived onsite at 7:00 am

1. Langan, Hydro Tech and AB Oil attend Amtrak safety meeting.
2. Langan meets with Brian Jepsen from S3-II tunnel contractors regarding discharging concrete wash water to the east easement area as observed yesterday. Langan walks easement area and site above easement area with Brian. Brian states they will make changes in their routine to avoid discharging water to the easement during sampling. He also requests that he is notified when the sampling is complete as he plans to resume draining concrete wash water to the area.
3. Hydro Tech completes all five borings in Grid 1 and Langan completes all sampling. Langan observes slight petroleum-like odors in all borings. No PID readings are observed. Langan signs over chain-of-custody of samples to Hydro Tech at the end of the day. They will submit samples to the lab.
4. AB Oil evacuates a total of approximately 1,500 gallons of standing water from the east easement area. They are off-site by 11:15 am. The majority of this water is the concrete wash water discharged to the easement area yesterday.

All personnel off site by 3:30 pm.

Future Site Activities

1. Hydro Tech will continue drilling at the site.
2. Hydro Tech will perform GPR survey in grids G-3, G-4 and G-5.
3. AB Oil will return to the site to remove standing water.
4. Groundwater sampling

cc: Susan Bianchetti - LANGAN Saul Shapiro - LANGAN	By: Anthony Vanatta Langan Engineering and Environmental Services, P.C.
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SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: August 6, 2009
PROJECT: 555 West 34 th Street		WEATHER: Overcast, 80°F
LOCATION: New York, NY		TIME: 7:10 am – 4:10 pm

CONTRACTOR & EQUIPMENT: Hydro Tech – Geoprobe 5410, Hand Tools, photo-ionization detector (PID), pdr-1000 dust meter. AB Oil – two 4,500-gallon vacuum trucks.	PRESENT AT SITE: Anthony Vanatta – Langan Efrahim Hernandez – Hydrotech Umberto Rivera – Hydrotech Clyde Rivers - Amtrak Mike Boyd – Amtrak	PRESENT AT SITE: Sean King – AB Oil Dave Schoneboon – AB Oil
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OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan onsite to oversee drilling and collect samples for soil waste characterization in the Amtrak Easement.

GENERAL COMMENTS:

Langan arrived onsite at 7:10 am

1. Langan, Hydro Tech and AB Oil attend Amtrak safety meeting.
2. Hydro Tech completes all five borings in Grid 3 and Langan completes all sampling. Langan observes slight petroleum-like odors in one of the borings. No PID readings are observed. Langan signs over chain-of-custody of samples to Hydro Tech at the end of the day. They will submit samples to the lab.
3. AB Oil evacuates a total of approximately 750 gallons of standing water from the east easement area. They are off-site by 10:45 am. The majority of this water is the concrete wash water discharged to the easement area yesterday.
4. By the end of the day, the puddle in the east easement area grew back to roughly 1/3 the size observed at the beginning of the day. No water was discharged to the site from above.

All personnel off site by 16:10 pm.

Future Site Activities

1. Hydro Tech will continue drilling at the site.
2. Hydro Tech will perform GPR survey in grids G-4 and G-5.
3. AB Oil will return to the site to remove standing water.
4. Groundwater sampling

cc: Susan Bianchetti - LANGAN
Saul Shapiro - LANGAN

By: Anthony Vanatta
Langan Engineering and Environmental Services, P.C.

SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: August 10, 2009
PROJECT: 555 West 34 th Street		WEATHER: Sunny, 92°F
LOCATION: New York, NY		TIME: 7:20 am – 4:15 pm

CONTRACTOR & EQUIPMENT: Hydro Tech – Geoprobe 5410, Hand Tools, photo-ionization detector (PID), pdr-1000 dust meter. AB Oil – one 4,500-gallon vacuum trucks.	PRESENT AT SITE: Anthony Vanatta – Langan Efrahim Hernandez – Hydrotech Umberto Rivera – Hydrotech Clyde Rivers - Amtrak Peter Greaves – Amtrak	PRESENT AT SITE: Sean King – AB Oil
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OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan onsite to oversee drilling and collect samples for soil waste characterization in the Amtrak Easement.

GENERAL COMMENTS:

Langan arrived onsite at 7:20 am

1. Langan, Hydro Tech, and AB Oil attend Amtrak safety meeting.
2. Hydro Tech completes all five borings in Grid 4 and Langan completes all sampling. No PID readings, odor, or staining are observed.
3. Langan collects a TPH sample from the 0-4' below grade surface (bgs) interval of each boring in grids 1, 2, and 6. These were not collected during the original sampling in these areas but are necessary to meet Hydro Tech's count of 57 TPH samples in their proposal. This number will be met by collecting two TPH samples from 27 borings and one TPH sample from three borings at the site. Langan signs over chain-of-custody of all samples to Hydro Tech at the end of the day. They will submit samples to the lab.
4. AB Oil evacuates a total of approximately 2,215 gallons of standing water from the east easement area and grid 6. They are off-site by 10:15 am.
5. By the end of the day, the puddle in the east easement area grew back to roughly 1/3 the size observed at the beginning of the day. A minor amount of water was discharged to the site from above throughout the day.

All personnel off site by 4:15 pm.

Future Site Activities

1. Hydro Tech will continue drilling at the site.
2. Hydro Tech will perform GPR survey in grid G-5.
3. AB Oil will return to the site to remove standing water.
4. Groundwater sampling

cc: Susan Bianchetti - LANGAN Saul Shapiro - LANGAN	By: Anthony Vanatta Langan Engineering and Environmental Services, P.C.
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SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: August 11, 2009
PROJECT: 555 West 34 th Street		WEATHER: Sunny, 92°F
LOCATION: New York, NY		TIME: 7:20 am – 3:15 pm

CONTRACTOR & EQUIPMENT: Hydro Tech – Geoprobe 5410, Hand Tools, photo-ionization detector (PID), pdr-1000 dust meter. AB Oil – one 4,500-gallon vacuum truck.	PRESENT AT SITE: Anthony Vanatta – Langan Efrahim Hernandez – Hydro Tech Umberto Rivera – Hydro Tech Clyde Rivers - Amtrak Peter Greaves – Amtrak	PRESENT AT SITE: Mike Boyd - Amtrak Sean King – AB Oil Mike Thomas - AB Oil
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OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan onsite to oversee drilling, temporary well installation, and collect samples for soil waste characterization in the Amtrak Easement.

GENERAL COMMENTS:

Langan arrived onsite at 7:20 am

1. Langan, Hydro Tech, and AB Oil attend Amtrak safety meeting.
2. Hydro Tech completes two borings in Grid 5 (G-5-4 and G-5-5) and Langan collects soil samples from these borings. Hydro Tech hand clears one boring (G-5-2) in preparation for sampling tomorrow. No PID readings or staining are observed however organic odors are observed in native material. Langan has Hydro Tech sign for custody of all samples the end of the day. They will submit samples to the lab. York labs requested the chain-of-custodies be signed for this way.
3. Hydro Tech installs a temporary monitoring well in borehole G-5-5 (MW-3) to a depth of 4.5 feet below grade. This well is inundated by the puddle that forms at the site by the end of the day. AB Oil will have to pump standing water prior to sampling this well.
4. Hydro Tech was scheduled to perform a GPR survey in Grid 5 today however they only brought a magnetometer which is not a satisfactory replacement for GPR. This combined with driller delays prevented completing sampling of Grid 5 today. Hydro Tech is scheduled to perform a GPR survey on the remainder of Grid 5 tomorrow.
5. Upon Hydro Tech returning from lunch, Langan had to coordinate with outside workers to have two cars moved so that Hydro Tech could access the east easement area with their truck.
6. AB Oil evacuates a total of approximately 380 gallons of standing water from the east easement area. They are off-site by 10:45 am.
7. The puddle in the east easement area appears to have not recharged to the same amount by 3 pm as it did yesterday. It is necessary for AB Oil to visit the site tomorrow in order complete sampling in Grid 5.

All personnel off site by 3:15 pm.

Future Site Activities

1. Hydro Tech will continue drilling at the site.
2. Hydro Tech will perform GPR survey in grid G-5.
3. AB Oil will return to the site to remove standing water.
4. Groundwater sampling

cc: Susan Bianchetti - LANGAN Saul Shapiro - LANGAN	By: Anthony Vanatta Langan Engineering and Environmental Services, P.C.
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SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: August 12, 2009
PROJECT: 555 West 34 th Street		WEATHER: Overcast, 75°F
LOCATION: New York, NY		TIME: 7:10 am – 2:30 pm

CONTRACTOR & EQUIPMENT: Hydro Tech – Geoprobe 5410, Hand Tools, photo-ionization detector (PID), pdr-1000 dust meter. AB Oil – one 3,500-gallon vacuum truck.	PRESENT AT SITE: Anthony Vanatta – Langan Efrahim Hernandez – Hydro Tech Umberto Rivera – Hydro Tech Carlos Quinonez – Hydro Tech Clyde Rivers - Amtrak	PRESENT AT SITE: Peter Greaves – Amtrak Mike Boyd - Amtrak Dave Schoneboon – AB Oil
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OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan onsite to oversee drilling, temporary well installation, and collect samples for soil waste characterization in the Amtrak Easement.

GENERAL COMMENTS:

Langan arrived onsite at 7:10 am

1. Langan, Hydro Tech, and AB Oil attend Amtrak safety meeting.
2. Hydro Tech performs GPR survey on dry area (west side) of Grid 5.
3. Hydro Tech completes the final three borings in Grid 5 (G-5-1, G-5-2, G-5-3) and Langan collects soil samples from these borings. No PID readings, odors, or staining are observed. Langan also collects a site-wide composite soil sample to be analyzed for RCRA Characteristics and paint filter analysis. Langan has Hydro Tech sign for custody of all samples the end of the day. They will submit samples to the lab. York labs requested the chain-of-custodies be signed for this way. As of today, all soil sampling at the site has been completed.
4. Hydro Tech installs a temporary monitoring well in the area of borehole G-1-1 to a depth of 12 feet below grade (MW-1) and in the area of borehole G-6-4 to a depth of 4.5 feet below grade (MW-2). Approximately 5.5 feet of water is observed in MW-1 and 2 feet in MW-2.
5. AB Oil evacuates a total of approximately ____ gallons of standing water from the east easement area They are off-site by 10:45 am.
6. By the end of the day, the puddle in the east easement area appears to have recharged to a level that has inundated MW-3. AB Oil will have to remove standing water from the site prior to sampling this well in order to avoid collecting surface water in the groundwater sample.

All personnel off site by 2:30 pm.

Future Site Activities

1. AB Oil will return to the site to remove standing water.
2. Groundwater sampling.

cc: Susan Bianchetti - LANGAN Saul Shapiro - LANGAN	By: Anthony Vanatta Langan Engineering and Environmental Services, P.C.
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SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: August 14, 2009
PROJECT: 555 West 34 th Street		WEATHER: Sunny, 85°F
LOCATION: New York, NY		TIME: 7:00 am – 13:15 pm

CONTRACTOR & EQUIPMENT: Hydro Tech – Horiba U-22, peristaltic pump. AB Oil – one 4,500-gallon vacuum truck.	PRESENT AT SITE: Anthony Vanatta – Langan Humberto Rivera – Hydro Tech Clyde Rivers - Amtrak	PRESENT AT SITE: Jim - AB Oil Jose - AB Oil
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OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan onsite to collect groundwater samples for dewatering discharge permit parameters in the Amtrak Easement.

GENERAL COMMENTS:

Langan arrived onsite at 7:00 am

1. Langan, Hydro Tech, and AB Oil attend Amtrak safety meeting.
2. Langan collects groundwater samples from temporary monitoring wells MW-1 and MW-3. Langan has Hydro Tech sign for custody of all samples at the end of the day. They will submit samples to the lab. York labs requested the chain-of-custodies be signed for this way.
3. AB Oil pumps standing water in the vicinity of temporary monitoring well MW-3 prior to sampling this well. AB Oil pumps a total of 155 gallons today.
4. No groundwater was able to be collected from temporary monitoring well MW-2. The well ran dry before a sample could be collected.

All personnel off site by 1:00 pm. All groundwater sampling completed today.

Future Site Activities

1. None Anticipated

cc: Susan Bianchetti - LANGAN Saul Shapiro - LANGAN	By: Ryan Manderbach Langan Engineering and Environmental Services, P.C.
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SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: July 6, 2009
PROJECT: 555 West 34 th Street		WEATHER: Sunny, 80°F
LOCATION: New York, NY		TIME: 7:00 am – 4:30 pm

CONTRACTOR & EQUIPMENT: Hydrotech- Geoprobe 5410 DT, Ground Penetrating Radar	PRESENT AT SITE: Anthony Vanatta – Langan Carlos Quinonez – Hydrotech Efrahim Hernandez – Hydrotech Umberto Rivera – Hydrotech Kevin Gaskins – Amtrak AB Oil
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OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan onsite to oversee drilling and collect samples for soil waste characterization in the Amtrak Easement.

GENERAL COMMENTS:

Langan arrived onsite at 7:00 am

1. Amtrak conducted safety talk and performed safety inspection on Geoprobe.
2. Langan walks site and marks out sampling grids.
3. Langan and Hydrotech observe standing water in all sampling grids. Langan and Hydrotech agree that this water must be removed prior to sampling.
4. AB Oil onsite with two vacuum trucks and a support truck to evacuate standing water. They pump out approximately 5,500-gallons.

Left the site at 4:30 pm

Future Site Activities:

1. Perform ground penetrating radar survey and begin sampling tomorrow.

cc: Susan Bianchetti - LANGAN
Saul Shapiro - LANGAN

By: Anthony Vanatta
Langan Engineering and Environmental Services, P.C.

SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: July 7, 2009
PROJECT: 555 West 34 th Street		WEATHER: Sunny, 75°F
LOCATION: New York, NY		TIME: 7:00 am – 10:30 am

CONTRACTOR & EQUIPMENT: Hydrotech- Ground Penetrating Radar	PRESENT AT SITE: Anthony Vanatta – Langan Susan Bianchetti – Langan Carlos Quinonez – Hydrotech Kevin Gaskins – Amtrak
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OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan onsite to oversee drilling and collect samples for soil waste characterization in the Amtrak Easement.

GENERAL COMMENTS:

Langan arrived onsite at 7:00 am

1. Amtrak conducted safety talk with Langan and Hydrotech. Amtrak provides Langan a copy of Geoprobe safety inspection report from yesterday.
2. Residual water that could not be collected by the vac trucks yesterday has pooled in the north half of the sampling area located on the east side of the railroad tracks. Up to 3" of water is present and needs to be removed with a vac truck.
3. Hydrotech cancelled drilling activities early this morning due to "unsafe soil conditions" related to the mud. S. Bianchetti, A. Vanatta and C. Quinonez all agree that three of the six grids are in suitable condition for drilling today. These three grids include the two south-most grids on the east side of the railroad tracks (G-1 and G-2) and the one grid on the west side of the railroad tracks (G-6), which are not under water.
4. C. Quinonez performs a GPR survey on grids G-1, G-2, and G-6. Two possible conduits are observed in G-6 running east-west. Lines marked out with red spray paint.
5. Drilling activities are not performed today.

Left the site at 10:30 am

Future Site Activities:

1. Hydrotech will begin drilling tomorrow. They will also remove the remaining standing water with a vac truck and perform a GPR survey in the area of standing water observed today.

cc: Susan Bianchetti - LANGAN
Saul Shapiro - LANGAN

By: Anthony Vanatta
Langan Engineering and Environmental Services, P.C.

SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: July 8, 2009
PROJECT: 555 West 34 th Street		WEATHER: Sunny, 78°F
LOCATION: New York, NY		TIME: 7:15 am – 3:30 pm

CONTRACTOR & EQUIPMENT: Hydro Tech - Geoprobe 5410 DT	PRESENT AT SITE: Anthony Vanatta – Langan Efrahim Hernandez – Hydrotech Umberto Rivera – Hydrotech Kevin Gaskins – Amtrak AB Oil - Jim
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OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan onsite to oversee drilling and collect samples for soil waste characterization in the Amtrak Easement.

GENERAL COMMENTS:

Langan arrived onsite at 7:15 am

1. Amtrak conducted morning safety talk.
2. AB Oil evacuates approximately 1,050 gallons of standing water from sample grids G-3, G-4 and G-5.
3. Hydro Tech does not bring ground penetrating radar (GPR) to survey grids G-4 and G-5 as planned yesterday. Heavy mud observed in these grids would have affected the accuracy of the GPR anyway.
4. Hydro Tech advances borings G-6-3, G-6-4, and G-6-5 in grid G-6 (in the service road) today. These borings terminated on bedrock at approximately 5' below grade. This termination depth agrees with the bedrock contours in this area. It took Hydro Tech 2 hours to hand clear G-6-5 down to 2.5' below grade. After speaking with Susan, we allow the drillers to use a combination of hand clearing and lightly breaking up the soil with the Geoprobe to speed up the work.
5. Langan collects one TPH sample from each boring and a composite sample from the three borings to analyze for New Jersey Soil Cleanup Criteria and TCLP Metals including copper, nickel, and zinc.
6. Hydrotech installs a temporary well in boring G-6-4. Langan observed saturated soil between 4' and 5' below grade and suspects that this is perched water. Saturated material was not observed in borings G-6-5 and G-6-3.
7. Hydro Tech did not provide a photo-ionization detector (PID), a dust meter, and a technician to perform air monitoring at the site as specified in their proposal. Hydro Tech did bring temporary well supplies but not bring groundwater sampling containers.
8. Langan signs over the chain-of-custody for the soil samples to Hydro Tech, who brings them to the lab (York).

All personnel off site at 3:30 pm

Future Site Activities

1. Hydro Tech will continue drilling at the site.
2. Hydro Tech will perform GPR survey in grids G-4 and G-5 possibly on 7/10/09.
3. AB Oil may possibly return to site if standing water collects again as mud settles.

cc: Susan Bianchetti - LANGAN Saul Shapiro - LANGAN	By: Anthony Vanatta Langan Engineering and Environmental Services, P.C.
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SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: July 9, 2009
PROJECT: 555 West 34 th Street		WEATHER: Cloudy, 75°F
LOCATION: New York, NY		TIME: 7:10 am – 3:00 pm

CONTRACTOR & EQUIPMENT: Hydro Tech – Hand Tools	PRESENT AT SITE: Anthony Vanatta – Langan Efrahim Hernandez – Hydrotech Umberto Rivera – Hydrotech Kevin Gaskins – Amtrak Craig Weed - Amtrak
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OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

Langan onsite to oversee drilling and collect samples for soil waste characterization in the Amtrak Easement.

GENERAL COMMENTS:

Langan arrived onsite at 7:15 am

1. Amtrak conducted morning safety talk.
2. Hydro Tech's Geoprobe rig broke down last night and is in the shop for repairs. This is the only Amtrak-approved rig for the site. Hydro Tech drillers hand clear all borings in grid G-1 today. All five borings are cleared for Macrocore advancement by the end of the day. Adam is not sure if the approved truck rig will be repaired for tomorrow. A. Vanatta tells Adam DiCrescio of Hydro Tech to plan on bringing out their tractor rig tomorrow in case we are able to schedule an Amtrak inspection. S. Bianchetti does not hear back from Amtrak regarding an available inspection by the end of the day. Adam informs Langan at the end of the day that the truck rig will not be ready until Monday morning. This is a moot point since work has been postponed at the end of the day for health and safety issues.
3. Hydro Tech Proposal states that they will provide a technician to perform air monitoring with a dust meter and photo-ionization detector (PID). Langan reminds them of this and have one of the drillers be the technician. The drillers do not know how to operate the equipment. A. Vanatta calibrates their Rae 2000 PID and pdr-1000 dust meter and shows them how to operate the units. They record readings every 15 minutes from the two meters on a spreadsheet. These readings will serve as a background for air conditions at the site since their Geoprobe is not on site today.
4. A standing puddle of water has formed mainly in grids G-3 and G-4. This may be residual water from the mud that AB Oil could not evacuate yesterday. However A. Vanatta and S. Bianchetti start to think that there may be a perched water condition present in this area. Call Carlos Quinonez from Hydro Tech to schedule another pump truck to remove this water. He tries to get one to the site today but could not. He plans to have a pump truck on site tomorrow (7/10). These plans change since job has been postponed for health and safety issues.
5. Langan observes approximately 14 inches of water in borehole G-6-4. One foot of saturated soil was observed at the bottom of this 5' deep boring yesterday. Hydro Tech purges water from the temporary well installed in this borehole with tubing and check valve and no sign of draw down was observed. This temporary well point should be suitable for groundwater sampling. S. Bianchetti informs A. Vanatta that Hydro Tech mistakenly did not include the cost of groundwater sampling in their proposal. This sampling was specified in the Fleming Lee Shue remedial action work plan for the site. Hydro Tech needs to get budget approval from Moinian Group before we can sample.

cc: Susan Bianchetti - LANGAN Saul Shapiro - LANGAN	By: Anthony Vanatta Langan Engineering and Environmental Services, P.C.
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SITE INSPECTION REPORT

Langan

Engineering and Environmental Services P.C.

PROJECT #: 170081000	CLIENT: THE MOINIAN GROUP	DATE: July 9, 2009
PROJECT: 555 West 34 th Street		WEATHER: Cloudy, 75°F
LOCATION: New York, NY		TIME: 7:10 am – 3:00 pm

OBSERVATIONS, DISCUSSIONS, TEST RESULTS, ETC.:

6. GZA technician onsite at approximately 13:30 to check vibration monitors installed on footings of columns that support the 11th Avenue viaduct in the work area. He informs Langan and Amtrak that pieces of concrete fireproofing from the structure above our work area that is adjacent to the east of the 11th Avenue viaduct could fall at any time. Langan, Hydro Tech, and Amtrak walk work area to inspect and observe fallen pieces of concrete up to 2' in length throughout the work area including on the railroad tracks. Kevin Gaskins calls his manager Craig Weed to report and subsequently stops work for Craig to come onsite to inspect.
7. Vanatta speaks with Brian from S3II tunnel contractors about the vibrations monitors. According to Brian, these monitors were installed initially for rock blasting and now for general construction activity since most of the rock blasting has been completed. Inform him that Amtrak will be inspecting the fallen concrete. He states that his company had observed the loose concrete during their pre-construction survey of the site. They also pulled down loose pieces of the concrete as a precautionary measure at that time.
8. Craig Weed on site at 14:20 to inspect fallen concrete. He does not advise Langan either way as to whether or not we should continue working however he states he will report the issue to the project manager of the MTA that is assigned to the No. 7 subway tunnel project and copy Langan.

All personnel off site by 3:00 pm.

Future Site Activities

1. Hydro Tech will continue drilling at the site.
2. Hydro Tech will perform GPR survey in grids G-3, G-4 and G-5.
3. AB Oil will return to the site to remove standing water.
4. Groundwater sampling.
5. Work has been postponed until we get further information from Amtrak regarding the health and safety issue of falling concrete at the site.

cc: Susan Bianchetti - LANGAN
Saul Shapiro - LANGAN

By: Anthony Vanatta
Langan Engineering and Environmental Services, P.C.

ATTACHMENT B

Soil Boring Logs

PROJECT 555 W. 34th St, NY, NY			PROJECT NO. 170081000		
LOCATION Same			ELEVATION AND DATUM NA		
DRILLING AGENCY Hydro Tech			DATE STARTED 8/5/09		DATE FINISHED 8/5/09
DRILLING EQUIPMENT S410 Geoprobe			COMPLETION DEPTH 13'		ROCK DEPTH 13'
SIZE AND TYPE OF BIT 2" Macro Core cutting shoe			NO. SAMPLES	DIST. NA	UNDIST. 4
CASING NA			WATER LEVEL	FIRST NA	COMPL. NA
CASING HAMMER NA	WEIGHT NA	DROP NA	FOREMAN E. Hernandez		
SAMPLER 4' Discrete Macro-core			INSPECTOR A. Vanatta		
SAMPLER HAMMER NA	WEIGHT NA	DROP NA			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				PTD	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BLG in.		
FILL	Brown SILT with trace F Gravel, trace F sand, moist	1						no odor no staining
		2	S-1	NA	2'	NA	0	
		3						
		4						
FILL	Brown to black SILT with little F Gravel, trace F Sand, saturated	5						Slight petroleum-like odor No staining
		6	S-2	NA	1'	NA	0	
		7						
		8						
NATIVE	Brown, moist CLAY with trace F sand, trace F Gravel, moist	9						No odor No staining
		10	S-3	NA	3.5'	NA	0	
		11						
		12						
	Same as above	13	S-4	NA	8"	NA	0	No odor No staining
	pulverized bedrock in tip	14						EOB at 13' bgs on bedrock refusal
	Sample G-1-1-080509 TPT sample at 11:15							
	Collect G-1-1-2-080509 composite at 12:10							

PROJECT 555 W. 34th St. NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY HydroTech				DATE STARTED 8/5/09		DATE FINISHED 8/5/09	
DRILLING EQUIPMENT 5410 Geoprob				COMPLETION DEPTH 12'		ROCK DEPTH 12'	
SIZE AND TYPE OF BIT 2" Macro-core Cutting shoe				NO. SAMPLES		DIST. NA	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA WEIGHT NA DROP NA				FOREMAN E. Hernandez		INSPECTOR A. Vanatta	
SAMPLER 4' discrete Macro-core				NO. SAMPLES		DIST. NA	
SAMPLER HAMMER NA WEIGHT NA DROP NA				WATER LEVEL		FIRST NA	
				COMPL. NA		24 HR. NA	

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST BL/6 IN.	
FILL	Brown SILT with trace F Gravel, trace F sand, moist	1	S-1	NA			No odor No staining
FILL	Brown to black silt with little F Gravel, trace F sand, saturated	2					
NATIVE	Brown, M stiff CLAY with trace F Gravel, trace F Sand, moist	3					
NATIVE	Same as above, saturated	4	S-2	NA			No odor No staining
NATIVE		5					
NATIVE	Brown, M loose SAND with trace Silt, saturated	6					
NATIVE	Same as above, saturated	7	S-3	NA			Slight petroleum-like odor No staining
NATIVE		8					
NATIVE	Light brown, M stiff, consolidated CLAY, moist	9					
NATIVE	Pulverized bedrock at bottom	10					No odor No staining
	Collect G-1-2-080509 TPH sample at 1200	11					
	Collect G-1-2-080509 composite at 1210	12					
		13					EOB at 12' bgs on bedrock refusal
		14					

PROJECT 555 W. 34th Street, NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY HydroTech				DATE STARTED 8/5/09		DATE FINISHED 8/5/09	
DRILLING EQUIPMENT 5410 Geoprobe				COMPLETION DEPTH		ROCK DEPTH	
SIZE AND TYPE OF BIT 2" Macro-core cutting shoe				NO. SAMPLES		DIST. NA	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA		WEIGHT NA		DROP NA		FOREMAN E. Hernandez	
SAMPLER 4' discrete macro-cor				INSPECTOR A. Vanatta			
SAMPLER HAMMER NA		WEIGHT NA		DROP NA			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				PID	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 in.		
FILL	brown SILT with trace F Gravel, trace F sand moist	1	S-1	NA	2.75'	NA	0	No odor No staining
FILL	brown to black SILT with little F Gravel, trace F sand, saturated	2						
FILL	brown, SILT with trace F Gravel trace F sand, moist	3						
NATIVE	Brown to dk brown, M tight F SAND with trace silt, saturated	4	S-2	NA	3'	NA	0	Slight petroleum-like odor No staining
NATIVE		5						
NATIVE		6						
NATIVE	Brown SILT with trace F Gravel, trace F sand, very moist	7	S-3	NA	2'	NA	0	No odor No staining
NATIVE		8						
NATIVE		9						
NATIVE	Brown, M tight, F SAND, Saturated	10	S-3	NA	3'	NA	0	No odor No staining
NATIVE		11						
NATIVE	Same as above	12						
NATIVE		13	S-3	NA	3'	NA	0	No odor No staining
NATIVE		14						

JOB NO. 170081000
DATE 8/5/09

LOG OF BORING NO. G-1-3

SHEET 2 OF 2

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
15	NATIVE Light brown, m. stiff, Consolidated CLAY						No odor No staining
16	Pulverized bedrock at bottom Collect G-1-3-080509 FPH sample at 1400 Collect G-1-3,4,5-080509 Composite at 14:45						EOB at 16' Bgs on bedrock refusal

PROJECT <u>555 W. 34th St, NY, NY</u>				PROJECT NO. <u>170081000</u>			
LOCATION <u>Same</u>				ELEVATION AND DATUM <u>NA</u>			
DRILLING AGENCY <u>Hydro Tech</u>				DATE STARTED <u>8/5/09</u>		DATE FINISHED <u>8/5/09</u>	
DRILLING EQUIPMENT <u>5410 Geoprob</u>				COMPLETION DEPTH <u>12'</u>		ROCK DEPTH <u>12"</u>	
SIZE AND TYPE OF BIT <u>2" Macro-core cutting shoe</u>				NO. SAMPLES		DIST. <u>NA</u>	
CASING <u>NA</u>				WATER LEVEL		FIRST <u>NA</u> COMPL. <u>NA</u> 24 HRS <u>NA</u>	
CASING HAMMER <u>NA</u>		WEIGHT <u>NA</u>		DROP <u>NA</u>		FOREMAN <u>E. Hernandez</u>	
SAMPLER <u>4" Discrete Macro-core</u>				INSPECTOR <u>A. Vanatta</u>			
SAMPLER HAMMER <u>NA</u>		WEIGHT <u>NA</u>		DROP <u>NA</u>			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
FILL	Brown SILT with trace F Gravel, trace F Sand, moist	1					No odor No staining
		2	S-1	NA	3'	NA	
		3					
FILL	brown to black silt with little F gravel, trace F sand, saturated	4					slight petroleum-like odor No staining
NATIVE	Brown to dk brown, m tight F SAND with trace silt, saturated	5					Slight petroleum-like odor No staining
		6	S-2	NA	3'	NA	
		7					
		8					
NATIVE	Same as above, saturated	9					Slight petroleum-like odor No staining
NATIVE	light brown, m stiff consolidated CLAY	10	S-3	NA	3'	NA	No odor No staining
		11					
	pulverized bedrock at bottom	12					EOB at 12' bgs on bedrock refusal
	Collect G-1-4-080509 TPIH sample at 1415	13					
	collect G-1-3,45-080509 composite of 1445	14					

PROJECT 555 W. 34th St., NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY HydroTech				DATE STARTED 8/5/09		DATE FINISHED 8/5/09	
DRILLING EQUIPMENT 3410 Geoprobe				COMPLETION DEPTH 17.5'		ROCK DEPTH 12.5'	
SIZE AND TYPE OF BIT 2" Macro-core cutting shoe				NO. SAMPLES		DIST. NA	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA WEIGHT NA DROP NA				FOREMAN E. Hernandez		INSPECTOR A. Vancetta	
SAMPLER 4' Discrete Macro-core Sampler				COMPL. NA		24 HR. NA	
SAMPLER HAMMER NA WEIGHT NA DROP NA							

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
FILL	Brown SILT with trace F Gravel, trace F sand moist	1	S-1	NA	3'	NA	0 No odor No staining
		2					
		3					
FILL	Brown to black SILT with little F gravel, trace F sand, saturated	4	S-2	NA	3'	NA	0 Slight petroleum-like odor. No staining
		5					
		6					
NATIVE	light brown, m stiff CLAY with little F sand, moist	7	S-2	NA	3'	NA	0 No odor No staining
		8					
		9					
NATIVE	Brown to dk brown, m+light F SAND, saturated	10	S-2	NA	3'	NA	0 Slight petroleum-like odor No staining
		11					
		12					
NATIVE	Same as above	13	S-3	NA	2'	NA	0 Slight petroleum-like odor No staining
		14					
		15					
NATIVE	light brown, m stiff CLAY, consolidated, moist pulverized bedrock at bottom	16	S-3	NA	2'	NA	0 No odor No staining
		17					
	Collect 6-1-5-080509 TPH Sample at 14' 35"	18					EUB at 12' 45" bgs on bedrock refusal
	Collect 6-1-3, 4, 5-080509 composite at 14' 45"	19					

PROJECT 555 W. 34th St, NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY Hydrotech				DATE STARTED 8/4/09		DATE FINISHED 8/4/09	
DRILLING EQUIPMENT 5410 Geoprobe				COMPLETION DEPTH 14'		ROCK DEPTH 14'	
SIZE AND TYPE OF BIT 2" Macro-Core Cutting Shoe				NO. SAMPLES		DIST. NA	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA		WEIGHT NA		DROP NA		FOREMAN E. Hernandez	
SAMPLER 4' Macro-core				INSPECTOR A. Varratta			
SAMPLER HAMMER NA		WEIGHT NA		DROP NA			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)	
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 in.		
FILL	Brown SILT w trace F Gravel, trace Sand, moist	1	S-1	NA	2'	NA	0	no staining no odor
		2						
		3						
FILL	Same as above, saturated	4	S-2	NA	2'	NA	0	No odor no staining
		5						
		6						
		7						
FILL	Same as above, saturated	8	S-3	NA	3'	NA	0	No staining no odor
		9						
		10						
		11						
	Pulverized bedrock (weathered to consolidated)	12	S-4	NA	1'	NA	0	No staining no odor
		13						
		14						

13:30 - TPH sample - G-2-1 - 080409
 1345 - composite - G-2-1,2 - 080409

Boring advanced to west of puddle

EOB at 14' bgs on bedrock refusal

PROJECT 555 W. 34th Street, NY NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY Hydrotech				DATE STARTED 8/4/09		DATE FINISHED 8/4/09	
DRILLING EQUIPMENT 540 Geoprobe				COMPLETION DEPTH 10'		ROCK DEPTH 10'	
SIZE AND TYPE OF BIT 2" Macro-Core Cutting shoe				NO. SAMPLES		DIST. NA	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA		WEIGHT NA		DROP NA		FOREMAN E. Hernandez	
SAMPLER 4' Macro-Core sampler				INSPECTOR A. Vanatta			
SAMPLER HAMMER NA		WEIGHT NA		DROP NA			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BLG in.	
Fill	Brown, m loose SAND with some F gravel, trace silt, Saturated	1	ST-1	NA	2'	NA	0
Fill	Brown, m loose, F SAND, trace silt, Saturated	2					
		3					
		4					
Fill	Same as above with trace F Gravel, concrete pieces, Saturated	5	S-2	NA	2'	NA	0
		6					
		7					
		8					
Fill	Brown, SILT with trace F Sand, little F Gravel or weathered bedrock	9	S-3	NA	2.5'	NA	0
		10					
	1335-TPH sample - G-2-2-080409	11					EOB at 10' bgs on rock refusal
	1345-Composite - G-2-1,2-080409	12					Boring advanced in puddle area.
		13					
		14					

PROJECT 555 W. 34th St, NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY Hydrotech				DATE STARTED 8/4/09		DATE FINISHED 8/4/09	
DRILLING EQUIPMENT 5410 Geoprobe				COMPLETION DEPTH 12		ROCK DEPTH 11.5'	
SIZE AND TYPE OF BIT 2" Macro-core cutting shoe				NO. SAMPLES		DIST. NA	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA		WEIGHT NA		DROP NA		UNDIST. 3	
SAMPLER 2" Macro-core		SAMPLER HAMMER NA		WEIGHT NA		CORE NA	
SAMPLER HAMMER NA		WEIGHT NA		DROP NA		24 HR. NA	
FOREMAN E. Hernandez				INSPECTOR A. Vanatta			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES					REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BLU/IN.	DI	
FILL	Brown SILT, with trace F Gravel, trace F Sand. moist	1						No staining Slight petroleum-like odor
		2						
		3						
		4						
NATIVE FILL	Same as above	5						Slight petroleum-like odor no staining no odor no staining Slight petroleum-like odor no staining
		6						
		7						
		8						
NATIVE	Same as above	9						Slight petroleum-like odor no staining
		10						
		11						
		12						
	polterized bedrock							
	Collect TPH sample at 14:45 G-2-3-080409							
	Collect composite at 15:30 G-2-3-080409							
		13						
		14						

EOB at 12' bgs on bedrock/polterized

PROJECT 555 W. 34th Street, NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY HydroTech				DATE STARTED 8/4/09		DATE FINISHED 8/4/09	
DRILLING EQUIPMENT 5410 Geoprobe				COMPLETION DEPTH 4.5		ROCK DEPTH 4.5'	
SIZE AND TYPE OF BIT 2" Macro-core Cutting Shoe				NO. SAMPLES		DIST. NA	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA		WEIGHT NA		DROP NA		FOREMAN E. Hernandez	
SAMPLER 4' Macro-Core				INSPECTOR A. Varatta			
SAMPLER HAMMER NA		WEIGHT NA		DROP NA			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
FILL	Brown, SILT, with trace F Gravel, trace F Sand. Slightly moist	1	S-1	NA	4'	NA	No odor No staining 0
		2					
		3					
		4					
	pulverized bedrock at bottom	4					
	Collect TPA sample	5					FOB at 4.5' bgs on bedrock refusal Boring advanced in puddle area
	G-2-4-080409 at 15:10	6					
	Collect Composite sample	7					
	G-2-34,5-080409 at 15:30	8					
		9					
		10					
		11					
		12					
		13					
		14					

PROJECT 555 West 34th street, NY NY			PROJECT NO. 170081000		
LOCATION Same			ELEVATION AND DATUM NA		
DRILLING AGENCY Hydro Tech			DATE STARTED 8/4/09		DATE FINISHED 8/4/09
DRILLING EQUIPMENT 5410 Geoprobe			COMPLETION DEPTH 5		ROCK DEPTH 4'
SIZE AND TYPE OF BIT 2" Macro-core cutting shoe			NO. SAMPLES	DIST. NA	UNDIST. 2
CASING NA			WATER LEVEL	FIRST NA	COMPL NA
CASING HAMMER NA	WEIGHT NA	DROP NA	FOREMAN E. Hernandez		
SAMPLER 4' Macro-core			INSPECTOR A. Vanatta		
SAMPLER HAMMER NA	WEIGHT NA	DROP NA			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/G IN.	
FIW	Brown, SILT with trace F Gravel, trace F Sand moist	1					no odor no staining
		2	5-1	NA	NA	NA	
		3					
		4					
	Pulverized bedrock, saturated (weathered & consolidated)	5	5-2	NA	NA	NA	0
	Collect TPH sample G-2-5-080409 at 15:15	6					EOB at 5' Dgs on bedrock refusal. Boring advanced in puddle area.
	Collect composite sample G-2-3, 4, 5-080409 at 15:30	7					
		8					
		9					
		10					
		11					
		12					
		13					
		14					

PROJECT 555 W. 34th Street, NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY Hydro Tech				DATE STARTED 8/6/09		DATE FINISHED 8/6/09	
DRILLING EQUIPMENT 5410 Geoprobe, Hard tools				COMPLETION DEPTH 9'		ROCK DEPTH 8.5'	
SIZE AND TYPE OF BIT 2" Macro-core cutting shoe				NO. SAMPLES		DIST. 1	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA		WEIGHT NA		DROP NA		FOREMAN E. Hernandez	
SAMPLER 4' Macro-core				INSPECTOR A. Varatta			
SAMPLER HAMMER NA		WEIGHT NA		DROP NA			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST BL/6 in.	
FILL	Brown SILT with trace F Gravel, trace F Sand, Moist	1					No odor No staining Hard Dog
		2	NA	NA	NA	NA	
		3					
		4					
		5					
FILL	Same as above, very moist	6					Slight petroleum-like odor No staining
		7	S-1	NA	3'	NA	
		8					
FILL Rock	Same as above, Saturated Weathered Bedrock	9	S-2	NA	1'	NA	No odor, No staining
		10					Slight petroleum-like odor, no staining
	1130 Collect G-3-1a-080609 TPH Sample	10					EOB at 9' bgs on bedrock refusal
	1145 Collect G-3-1-080609 TPH Sample	11					
	1545 Collect G-3-1,25-080609 Composite Sample	12					
		13					
		14					

PROJECT <u>555 W. 34th St. NY, NY</u>				PROJECT NO. <u>170081000</u>			
LOCATION <u>Same</u>				ELEVATION AND DATUM <u>NA</u>			
DRILLING AGENCY <u>HydroTech</u>				DATE STARTED <u>8/6/09</u>		DATE FINISHED <u>8/6/09</u>	
DRILLING EQUIPMENT <u>5410 Geoprobe hand tools</u>				COMPLETION DEPTH <u>6'</u>		ROCK DEPTH <u>5.5'</u>	
SIZE AND TYPE OF BIT <u>2" macro core cutting shoe</u>				NO. SAMPLES		DIST. <u>1</u>	
CASING <u>NA</u>				WATER LEVEL		FIRST <u>NA</u>	
CASING HAMMER <u>NA</u>		WEIGHT <u>NA</u>		DROP <u>NA</u>		FOREMAN <u>E. Hernandez</u>	
SAMPLER <u>4' Macro - Core</u>		WEIGHT <u>NA</u>		DROP <u>NA</u>		INSPECTOR <u>A. Varatta</u>	
SAMPLER HAMMER <u>NA</u>		WEIGHT <u>NA</u>		DROP <u>NA</u>			

SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	REC. FT.	PENETR. RESIST. BL/6 IN.	
Brown SILT with trace to little F Gravel, trace F sand, moist	1					No odor No staining Hard dog
	2					
	3	NA	NA	NA	NA	
	4					
	5					
Same as above, moist weathered and pulverized bedrock	6	5-1	NA	NA	NA	No odor, no staining
1320 - collect G-3-2a-080609 TPH sample	7					EOB at 6' dgs on bedrock refusal
1330 - collect G-3-2-080609 TPH sample	8					
1545 - collect G-3-1,3,5-080609 composite sample	9					
	10					
	11					
	12					Boring located in main Puddle area.
	13					
	14					

PROJECT <u>555 W. 34th St. NY, NY</u>				PROJECT NO. <u>170081000</u>			
LOCATION <u>Same</u>				ELEVATION AND DATUM <u>NA</u>			
DRILLING AGENCY <u>HydroTech</u>				DATE STARTED <u>8/6/09</u>		DATE FINISHED <u>8/6/09</u>	
DRILLING EQUIPMENT <u>5410 Geoprobe, Hand tools</u>				COMPLETION DEPTH <u>5'</u>		ROCK DEPTH <u>5'</u>	
SIZE AND TYPE OF BIT <u>2" Macro-core cutting shoe</u>				NO. SAMPLES		DIST. <u>1</u>	
CASING <u>NA</u>				WATER LEVEL		FIRST <u>NA</u>	
CASING HAMMER <u>NA</u>		WEIGHT <u>NA</u>		DROP <u>NA</u>		FOREMAN <u>E. Hernandez</u>	
SAMPLER <u>4" Macro-core</u>				INSPECTOR <u>A. Vanatta</u>			
SAMPLER HAMMER <u>NA</u>		WEIGHT <u>NA</u>		DROP <u>NA</u>			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				DIA	REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOG.	TYPE	RECOV. FT.	PENETR. RESIST. BLU 6 in.		
FILL	Brown SILT with trace F. Gravel, trace sand, slightly moist	1		NA	NA	NA		No odor No staining Hard dug
		2						
FILL	Same as above, Saturated	3		NA	3	NA		No odor No staining
		4	5-1					
	Collected G-3-3a-080609 from 0-2.5' interval at 9:40	5						EOB at 5' bgs on bedrock refusal
	Collected G-3-3-080609 from entire interval at 9:45	6						
	Collected G-3-3,4-080609 composite at 10:30	7						
		8						
		9						
		10						
		11						
		12						
		13						
		14						

PROJECT <u>555 W. 34th St., NY, NY</u>				PROJECT NO. <u>170081000</u>			
LOCATION <u>Same</u>				ELEVATION AND DATUM <u>NA</u>			
DRILLING AGENCY <u>Hydro Tech</u>				DATE STARTED <u>8/6/09</u>		DATE FINISHED <u>8/6/09</u>	
DRILLING EQUIPMENT <u>5410 Geoprobe, Hand tools</u>				COMPLETION DEPTH <u>5.5'</u>		ROCK DEPTH <u>5.5'</u>	
SIZE AND TYPE OF BIT <u>2" Macro-Core Cutting shoe</u>				NO. SAMPLES		DIST. <u>1</u>	
CASING <u>NA</u>				WATER LEVEL		FIRST <u>NA</u> COMP <u>NA</u> 24 HR. <u>NA</u>	
CASING HAMMER <u>NA</u>		WEIGHT <u>NA</u>		DROP <u>NA</u>		FOREMAN <u>E. Hernandez</u>	
SAMPLER <u>4' Macro-core</u>		SAMPLER HAMMER <u>NA</u>		WEIGHT <u>NA</u>		DROP <u>NA</u>	
INSPECTOR <u>A. Vanatta</u>							

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	REC'D FT.	PENETR. RESIST. BULG IN.	
FILL	Brown, SILT with trace F Gravel, trace sand, Slightly moist	1					No odor No staining Hand dug
		2					
		3	NA	NA	NA	NA	
		4					
		5					
NATIVE	Light brown clay and pulverized bedrock at bottom	5	54	NA	1	NA	Macro-core
	1020 - collect G-3-4-a-080609 pH sample	6					EOB at 5.5' bgs on bedrock refusal
	1025 - collect G-3-4-b-080609 pH sample	7					
	1030 - collect G-3-34-080609 Composite.	8					
		9					
		10					
		11					
		12					
		13					
		14					

PROJECT 555 W. 34 th St. NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY Hydro Tech				DATE STARTED 8/6/09		DATE FINISHED 8/6/09	
DRILLING EQUIPMENT 5410 Geoprobe, Hand tools				COMPLETION DEPTH 5.5'		ROCK DEPTH 5.25'	
SIZE AND TYPE OF BIT 2" Macro-core cutting shoe				NO. SAMPLES		DIST. 1	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA		WEIGHT NA		DROP NA		FOREMAN E. Hernandez	
SAMPLER 4' Macro-core		WEIGHT NA		DROP NA		INSPECTOR A. Varatta	
SAMPLER HAMMER NA		WEIGHT NA		DROP NA			

SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 in.	
FILL Brown SILT with trace F-travel, trace F-sand Very moist to saturated at approx. 2.5' bgs	1					No odor No staining Hand dug 0
	2					
	3					
	4					
	5					
Same as above, very moist weathered and pulverized bedrock						
1530-Collect G-3-5-080609 TPH sample	6					EOB at 5.5' bgs on bedrock Refusal
1535-Collect G-3-5-080609 TPH sample	7					
1545 Collect G-3-1, 2.5-080609 Composite sample	8					
	9					
	10					
	11					
	12					
	13					
	14					

PROJECT <u>555 W. 34th St, NY, NY</u>		PROJECT NO. <u>170081000</u>	
LOCATION <u>Same</u>		ELEVATION AND DATUM <u>NA</u>	
DRILLING AGENCY <u>Hydro Tech</u>		DATE STARTED <u>8/10/09</u>	DATE FINISHED <u>8/10/09</u>
DRILLING EQUIPMENT <u>5410 Geoprobe, Hand Tools</u>		COMPLETION DEPTH <u>6'</u>	ROCK DEPTH <u>5.75'</u>
SIZE AND TYPE OF BIT <u>2" Macro-Core Cutting Shoe</u>		NO. SAMPLES	DIST. UNDIST. CORE <u>NA</u>
CASING <u>NA</u>		WATER LEVEL	FIRST <u>NA</u> COMPL. <u>NA</u> 24 HR. <u>NA</u>
CASING HAMMER <u>NA</u>	WEIGHT <u>NA</u>	DROP <u>NA</u>	
SAMPLER <u>4' Macro-Core</u>		FOREMAN <u>E. Hernandez</u>	
SAMPLER HAMMER <u>NA</u>		INSPECTOR <u>A. Vazatta</u>	
		WEIGHT <u>NA</u>	
		DROP <u>NA</u>	

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOG.	TYPE	REC. FT.	PENETR. RESIST. BLU IN.	
FILL	Brown SILT with trace F Gravel, trace F Sand, moist to saturated at 2.5' bgs	1					No odor No stain Hard dug
		2					
		3					
		4					
		5					
FILL	Same as above, moist	5					no odor no stain, macro core
Rock	Weathered bedrock to bedrock	6					
	1535 - Collect G-4-2a-081009 TPH Sample	7					EOB at 6' bgs on bedrock refusal
	1540 - Collect G-4-2-081009 TPH Sample	8					
	1550 - Collect G-4-2, 4, 5-081009 Composite sample	9					
		10					
		11					
		12					
		13					
		14					

PROJECT 555 W. 34 th St, NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY HydroTech				DATE STARTED 8/10/09		DATE FINISHED 8/10/09	
DRILLING EQUIPMENT 5410 Geoprobe, Hand tools				COMPLETION DEPTH 6'		ROCK DEPTH 6'	
SIZE AND TYPE OF BIT 2" Macro-Core Cutting shoe				NO. SAMPLES		DIST. 1	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA		WEIGHT NA		DROP NA		FOREMAN F. Hernandez	
SAMPLER 4' Macro-Core				INSPECTOR A. Varatta			
SAMPLER HAMMER NA		WEIGHT NA		DROP NA			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOG.	TYPE	RECOV. FT.	PENETR. RESIST. BLU 6 in.	
FILL	Brown SILT with trace F Gravel, trace F Sand, slightly moist to moist	1	NA	NA	NA	NA	No odor No staining Hand dug
		2					
		3					
		4					
		5					
FILL	Same as above with weathered bedrock	6					No odor No staining macro-core
	1015 - Collect G-4-3a-081009 TPH Sample	7					EOB at 6' bgs on bedrock refusal
	1020 - Collect G-4-3-081009 TPH Sample	8					
	1030 - collect G-4-13-081009 Composite Sample	9					
	10						
	11						
	12						
	13						
	14						

PROJECT 555 W. 34th St, NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY Hydro Tech				DATE STARTED 8/10/09		DATE FINISHED 8/10/09	
DRILLING EQUIPMENT 5410 Geoprobe				COMPLETION DEPTH 4.5		ROCK DEPTH 4.5	
SIZE AND TYPE OF BIT 2" Macro-Core Cutting shoe				NO. SAMPLES		DIST. 1	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA		WEIGHT NA		DROP NA		FOREMAN E. Hernandez	
SAMPLER 4' Macro-Core				INSPECTOR A. Varatta			
SAMPLER HAMMER NA		WEIGHT NA		DROP NA			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOG.	TYPE	RECOV. FT.	PENETR. RESIST BUE in.	
FILL	Brown SILT with trace F gravel, trace F sand slightly moist	1					No odor No staining Hand Dog
		2	NA	NA	NA	NA	
		3					
		4					
	2" water at bottom of borehole						
	1335 - Collect G-4-4a-081009 TPT sample	5					EOB at 4.5' bgs on bedrock refusal
1340 - Collect G-4-4-081009 TPT sample	6						
	7						
1550 - Collect G-4-24.5-081009 composite sample	8						
	9						
	10						
	11						
	12						
	13						
	14						

PROJECT 555 W. 34 th St. NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY Hydro Tech				DATE STARTED 8/10/09		DATE FINISHED 8/10/09	
DRILLING EQUIPMENT 5410 Geoprobe, Hand Tools				COMPLETION DEPTH 5.5'		ROCK DEPTH 5'	
SIZE AND TYPE OF BIT 2" Macro-Core Cutting shoe				NO. SAMPLES		DIST. 1	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA		WEIGHT NA		DROP NA		FOREMAN E. Hernandez	
SAMPLER 4' Macro-Core						INSPECTOR A. Vanatta	
SAMPLER HAMMER NA		WEIGHT NA		DROP NA			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
FILL	Brown SILT with trace F Gravel, trace F Sand, moist to saturated past 25' bgs	1					No odor No staining Hard Dug
		2	NA	NA	NA	NA	
		3					
		4					
		5					
Rock	Weathered bedrock to bedrock	5.5'	NA	0.5'	NA	0	
	1435 - Collect G-4-5a-081009 TPT Sample	6					EoB at 5.5' bgs on bedrock refusal
	1440 - Collect G-4-5-081009 TPT Sample	7					
	1550 - Collect G-4-2,4,5-081009 Composite sample	8					
		9					
		10					
		11					
		12					
		13					
		14					

PROJECT <u>555 W. 34th St, NY, NY</u>			PROJECT NO. <u>170081000</u>		
LOCATION <u>Same</u>			ELEVATION AND DATUM <u>NA</u>		
DRILLING AGENCY <u>HydroTech</u>			DATE STARTED <u>8/12/09</u>		DATE FINISHED <u>8/12/09</u>
DRILLING EQUIPMENT <u>5410 Geoprobe, Hand Tools</u>			COMPLETION DEPTH <u>5'</u>		ROCK DEPTH <u>4.5'</u>
SIZE AND TYPE OF BIT <u>2" Macro-Core Cutting shoe</u>			NO. SAMPLES	DIST. <u>0</u>	UNDIST. <u>2</u>
CASING <u>NA</u>			WATER LEVEL	FIRST <u>NA</u>	COMPL <u>NA</u>
CASING HAMMER <u>NA</u>	WEIGHT <u>NA</u>	DROP <u>NA</u>	FOREMAN <u>E. Hernandez</u>		
SAMPLER <u>4' Macro-Core</u>			INSPECTOR <u>A. Vanatta</u>		
SAMPLER HAMMER <u>NA</u>	WEIGHT <u>NA</u>	DROP <u>NA</u>			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES					REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST BL/6 IN.	PIA	
FILL	Brown SILT with trace F gravel, trace F sandy slightly moist	1						No odor No staining
		2						
		3	NA	NA	NA	NA	0	
		4						
Rock	weathered bedrock to bedrock	5					0	
	935 - Collect G-5-1-081209 Tpt sample	6						EoB at 5' bgs on bedrock refusal
	1115 - collect G-5-1, 2, 3-081209 composite sample	7						
		8						
		9						
		10						
		11						
		12						
		13						
		14						

PROJECT <u>555 W. 34th St, NY, NY</u>				PROJECT NO. <u>170081000</u>			
LOCATION <u>Same</u>				ELEVATION AND DATUM <u>NA</u>			
DRILLING AGENCY <u>HydroTech</u>				DATE STARTED <u>8/12/09</u>		DATE FINISHED <u>8/12/09</u>	
DRILLING EQUIPMENT <u>5410 Geoprobe, Hand Tools</u>				COMPLETION DEPTH <u>5.5</u>		ROCK DEPTH <u>5.5</u>	
SIZE AND TYPE OF BIT <u>2" Macro-Core Cutting shoe</u>				NO. SAMPLES		DIST. <u>1</u>	
CASING <u>NA</u>				WATER LEVEL		FIRST <u>NA</u>	
CASING HAMMER <u>NA</u>		WEIGHT <u>NA</u>		DROP <u>NA</u>		FOREMAN <u>E. Hernandez</u>	
SAMPLER <u>4' Macro-core</u>				INSPECTOR <u>A. Vanatta</u>			
SAMPLER HAMMER <u>NA</u>		WEIGHT <u>NA</u>		DROP <u>NA</u>			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	REC'D. FT.	PENETR. RESIST. BUE IN.	
FILL	Brown SILT with trace F Gravel, trace F Sand, moist to saturated at roughly 2.5' bgs	1					No odor No staining Hard log
		2					
		3					
		4					
		5					
FILL	Same as above	5	5-1	NA	6"	NA	0 No odor, No staining, macro-core
	1010 - collect G-5-2-081209 Tpit sample 1115 - collect G-5-1,2,3-081209 Composite Sample	6					EOB at 5.5' bgs on bed rock refusal Advanced in paddle area.
		7					
		8					
		9					
		10					
		11					
		12					
		13					
		14					

PROJECT <u>555 W. 34th St, NY, NY</u>		PROJECT NO. <u>1700 81200</u>	
LOCATION <u>Same</u>		ELEVATION AND DATUM <u>NA</u>	
DRILLING AGENCY <u>Hydro Tech</u>		DATE STARTED <u>8/12/09</u>	DATE FINISHED <u>8/12/09</u>
DRILLING EQUIPMENT <u>5410 Geoprobe, Hand Tools</u>		COMPLETION DEPTH <u>4'</u>	ROCK DEPTH <u>4'</u>
SIZE AND TYPE OF BIT <u>2" Macro-Core Cutting Shoe</u>		NO. SAMPLES	DIST. <u>1</u> UNDIST. <u>0</u> CORE <u>NA</u>
CASING <u>NA</u>		WATER LEVEL	FIRST <u>NA</u> COMPL. <u>NA</u> 24 HR. <u>NA</u>
CASING HAMMER <u>NA</u>	WEIGHT <u>NA</u>	DROP <u>NA</u>	FOREMAN <u>E. Hernandez</u>
SAMPLER <u>4" Macro-Core</u>			
SAMPLER HAMMER <u>NA</u>	WEIGHT <u>NA</u>	DROP <u>NA</u>	INSPECTOR <u>A. Vanatta</u>

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOG.	TYPE	REC'D. FT.	PENETR. RESIST. BLU/IN.	
FILL	Brown SILT with trace F Gravel, trace F Sand	1					No odor No staining
		2	NA	NA	NA	NA	
		3					
	Pulverized bedrock in macro-core	4					
	1100-Collect G-5-3-081209 TP1 Sample	5					EOB at 4' bgs on bedrock refusal. Additional monitoring well installed to 4' bgs.
	1115-Collect G-5-3-081209 Composite Sample	6					
		7					
		8					
		9					
		10					
		11					
		12					
		13					
		14					

PROJECT 555 W. 34th St, NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY HydroTech				DATE STARTED 8/11/09		DATE FINISHED 8/11/09	
DRILLING EQUIPMENT 5410 Geoprobe, Hand Tools				COMPLETION DEPTH 11'		ROCK DEPTH 11'	
SIZE AND TYPE OF BIT 2" Macro-core Cutting Shoe				NO. SAMPLES		DIST. 1	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA		WEIGHT NA		DROP NA		FOREMAN E. Hernandez	
SAMPLER 4' Macro-core				INSPECTOR A. Varatta			
SAMPLER HAMMER NA		WEIGHT NA		DROP NA			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOVER FT.	PENETR. RESIST. BL/6 IN.	
FILL	Brown SILT with trace F Gravel, trace F sand, slightly moist to Saturated	1					No odor No staining Hand Dog
		2					
		3	NA	NA	NA	NA	
		4					
		5					
FILL	Same as above, moist grey, very soft clay, Saturated	6					No odor, No staining Organic odor No staining
		7	S-1	NA	8"	NA	
NATIVE	Brown SILT with little F Gravel, trace F sand, Saturated	8					Organic odor No staining
		9					
		10	S-2	NA	6"	NA	
	1105-Collect G-5-4a-081109 TPH sample 1110-Collect G-5-4-081109 TPH sample -Collect G-5-4,5-081109 composite sample	11					EOB at 11' bgs on bedrock Refusal
		12					
		13					
		14					

PROJECT <u>555 W. 34th St, NY, NY</u>				PROJECT NO. <u>170081000</u>			
LOCATION <u>Same</u>				ELEVATION AND DATUM <u>NA</u>			
DRILLING AGENCY <u>HydroTech</u>				DATE STARTED <u>8/11/09</u>		DATE FINISHED <u>8/11/09</u>	
DRILLING EQUIPMENT <u>5410 Geoprobe, Hand Tools</u>				COMPLETION DEPTH <u>4.5'</u>		ROCK DEPTH <u>4.5'</u>	
SIZE AND TYPE OF BIT <u>2" Macro-core Cutting shoe</u>				NO. SAMPLES		DIST. <u>1</u>	
CASING <u>NA</u>				WATER LEVEL		FIRST <u>NA</u>	
CASING HAMMER <u>NA</u>		WEIGHT <u>NA</u>		DROP <u>NA</u>		FOREMAN <u>E. Hernandez</u>	
SAMPLER <u>4' Macro-core</u>				INSPECTOR <u>A. Varatta</u>			
SAMPLER HAMMER <u>NA</u>		WEIGHT <u>NA</u>		DROP <u>NA</u>			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOG.	TYPE	RECOV. FT.	PENETR. RESIST. BLG IN.	
FILL	Brown SILT with trace F gravel, trace F sand moist to saturated at 2.5' bgs	1					No odor No staining Hard log
		2	NA	NA	NA	NA	
		3					
		4					
	1230-Collect G-5-5a-081109 TPH sample	5					EOB at 4.5' bgs on bedrock refusal Advanced in paddle area. Temporary monitoring well installed to 4.5' bgs
1235-Collect G-5-5-081109 TPH sample	6						
1240-Collect G-5-4,5-081109 Composite sample	7						
	8						
	9						
	10						
	11						
	12						
	13						
	14						

PROJECT 555 West 34th st				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY Hydrotech				DATE STARTED 8/3/09		DATE FINISHED 8/3/09	
DRILLING EQUIPMENT 5410 Geoprobe				COMPLETION DEPTH 4.5'		ROCK DEPTH 4.5'	
SIZE AND TYPE OF BIT 2" Macro-core cutting shoe				NO. SAMPLES		DIST. 1	
CASING NA				WATER LEVEL		FIRST	
CASING HAMMER NA		WEIGHT NA		DROP NA		FOREMAN Efraim Hernandez	
SAMPLER 4' Macro-core w/ Acetate sleeves				INSPECTOR A. Vanatta			
SAMPLER HAMMER NA		WEIGHT NA		DROP NA			

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
FW	2" stone (6" layer) Brown, soft, SILT with little F to M Gravel, trace Concrete pieces, slightly moist	1					no odor, no staining
FW	same as above	3	1	S			Post-hole digger macro-core, no odor, no staining
FW	same as above	4	5				macro-core, no odor, no staining
		5					EOB at 4.5' on bedrock
		6					
		7					
		8					
		9					
		10					
		11					
		12					
		13					
		14					

PROJECT 555 W. 34th St., NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY Hydrotech				DATE STARTED 8/3/09		DATE FINISHED 8/3/09	
DRILLING EQUIPMENT Geoprobe 5410				COMPLETION DEPTH 4.5'		ROCK DEPTH 4.5'	
SIZE AND TYPE OF BIT 2" Macro-core cutting shoe				NO. SAMPLES		DIST. 1	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA		WEIGHT NA		DROP NA		FOREMAN E. Hernandez	
SAMPLER 4' Macro-core Sampler				INSPECTOR A. Vanatta			
SAMPLER HAMMER NA		WEIGHT NA		DROP NA			

SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
		NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST BL/6 In.	
2" Stone (6" layer) Brown, soft, silt, with little Fto M Gravel, slightly moist	1					no odor, no staining post-hole digger
Same as above	2					no odor, no staining
	3	5-1	NA	4'	NA	0
	4					Macro-core
	5					EoB at 4.5' on bedrock
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					

PROJECT 555 West 34th Street, NY, NY				PROJECT NO. 170081000			
LOCATION Same				ELEVATION AND DATUM NA			
DRILLING AGENCY HydroTech				DATE STARTED 7/8/09		DATE FINISHED 7/8/09	
DRILLING EQUIPMENT Geoprobe 5410 DT				COMPLETION DEPTH 5'		ROCK DEPTH 5'	
SIZE AND TYPE OF BIT 2" MacroCore cutting shoe				NO. SAMPLES		DIST. 1	
CASING NA				WATER LEVEL		FIRST NA	
CASING HAMMER NA WEIGHT NA DROP NA				FOREMAN U. Rivera		COMPL. NA	
SAMPLER 2" MacroCore				INSPECTOR A. Vanatta		24 HR. NA	
SAMPLER HAMMER NA WEIGHT NA DROP NA							

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	RECOV. FT.	PENETR. RESIST. BL/6 IN.	
Full	2" stone (6" layer)	1					Post-hole digger No odor, no staining
Full	Brown, soft SILT w/ little Fto M Gravel, trace mica flakes, moist	2			4'		No odor, no staining
Full	Same as above, slightly moist	3	5-1	NA		NA	
Full	Same as above, very moist	4	5-2	NA	1'	NA	Slight organic odor, no staining
		5					EOB at 5' bgs. Bedrock refusal.
		6					Collect TPT sample
		7					G-6-3-070809 at 14:20
		8					Collect composite sample
		9					G-6-345-070809 at 14:25
		10					
		11					
		12					
		13					
		14					

PROJECT <u>555 West 34th Street</u>		PROJECT NO. <u>170081000</u>	
LOCATION <u>Same</u>		ELEVATION AND DATUM <u>N/A</u>	
DRILLING AGENCY <u>Hydrotech</u>		DATE STARTED <u>7/8/09</u>	DATE FINISHED <u>7/8/09</u>
DRILLING EQUIPMENT <u>Geoprobe 5410 DT, Hand tools</u>		COMPLETION DEPTH <u>5'</u>	ROCK DEPTH <u>5'</u>
SIZE AND TYPE OF BIT <u>2" Macrocore cutting shoe</u>		NO. SAMPLES	DIST. <u>1</u> UNDIST. <u>1</u> CORE <u>0</u>
CASING <u>NA</u>		WATER LEVEL	FIRST <u>NA</u> COMPL. <u>NA</u> 24 HR.
CASING HAMMER <u>NA</u>	WEIGHT <u>NA</u>	DROP <u>NA</u>	FOREMAN <u>Umberto Rivera</u>
SAMPLER <u>2" Macrocore, Post-hole digger</u>			INSPECTOR <u>A. Vanatta</u>
SAMPLER HAMMER <u>NA</u>	WEIGHT <u>NA</u>	DROP <u>NA</u>	

	SAMPLE DESCRIPTION	DEPTH SCALE	SAMPLES				REMARKS (DRILLING FLUID, DEPTH OF CASING, CASING BLOWS, FLUID LOSS, ETC.)
			NO. LOC.	TYPE	REC'D. FT.	PENETR. RESIST. BULG IN.	
FILL	<u>2" stone (6" layer)</u> <u>Brown, soft, SILT w/ some F to C Gravel, little mica flakes, moist</u>	1					<u>Hand digging w/ digging bar and post-hole digger.</u> <u>No odor, No staining</u>
		2					
		3					
		4					
FILL	<u>Same as above</u>	5	<u>11</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>Advanced w/ Geoprobe saturated organic odor, no staining</u>
		6					<u>EOB at 5' bgs, Bedrock refusal.</u> <u>Collect TPH sample</u> <u>G-6-4-070809 at 14:17</u> <u>Collect composite sample</u> <u>G-6-345-070809 at 14:25</u>
		7					
		8					
		9					
		10					
		11					
		12					
		13					
		14					

ATTACHMENT C

Laboratory Analytical Data

Technical Report

prepared for:

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Report Date: 7/15/2009
Re: Client Project ID: 909132
York Project No.: 09070341

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854

PA Reg. 68-04440



Report Date: 7/15/2009
Client Project ID: 909132
York Project No.: 09070341

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 07/09/09. The project was identified as your project "909132".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			G-6-5-070809		G-6-4-070809	
York Sample ID			09070341-01		09070341-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	358	10.0	44.0	10.0
Total Solids	SM 2540B	%	90.9	1.0	87.9	1.0

Client Sample ID			G-6-3-070809	
York Sample ID			09070341-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	347	10.0
Total Solids	SM 2540B	%	87.0	1.0

YORK

Client Sample ID			G-6-345-070809	
York Sample ID			09070341-04	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Metals, NJ Target List	SW846-6010	mg/kg	---	---
Aluminum			8220	1.12
Antimony			Not detected	1.12
Arsenic			5.38	1.12
Barium			109	1.12
Beryllium			Not detected	0.559
Cadmium			Not detected	0.559
Chromium			24.3	1.12
Cobalt			7.81	1.12
Copper			42.2	1.12
Lead			109	1.12
Manganese			290	1.12
Nickel			23.5	1.12
Selenium			Not detected	1.12
Silver			Not detected	1.12
Thallium			Not detected	1.12
Vanadium			32.7	2.24
Zinc			135	2.24
Mercury	SW846-7471	mg/kG	Not detected	0.112
Pesticides, NJ Target List	SW846-3550B/8081	ug/Kg	---	---
4,4'-DDD			Not detected	16.0
4,4'-DDE			Not detected	16.0
4,4'-DDT			Not detected	16.0
Aldrin			Not detected	8.00
alpha Chlordane			Not detected	8.00
alpha-HCH (alpha-BHC)			Not detected	8.00
beta-HCH (beta-BHC)			Not detected	8.00
Dieldrin			Not detected	3.30
Endosulfan I			Not detected	8.00
Endosulfan II			Not detected	16.0
Endosulfan sulfate			Not detected	16.0
Endrin			Not detected	16.0
gamma Chlordane			Not detected	8.00
Heptachlor			Not detected	8.00
Heptachlor epoxide			Not detected	8.00
Lindane (gamma-BHC)			Not detected	8.00
Methoxychlor			Not detected	80.0
Toxaphene			Not detected	100
BNA, NJ target List	SW846-8270C	ug/Kg	---	---
1,1'-Biphenyl			Not detected	330
1,2,4-Trichlorobenzene			Not detected	330
1,2-Diphenylhydrazine			Not detected	330
2,4,5-Trichlorophenol			Not detected	330
2,4,6-Trichlorophenol			Not detected	330
2,4-Dichlorophenol			Not detected	330
2,4-Dimethyl phenol			Not detected	330
2,4-Dinitrophenol			Not detected	330
2,4-Dinitrotoluene			Not detected	330
2,6-Dinitrotoluene			Not detected	330
2-Chlorophenol			Not detected	330

YORK

Client Sample ID			G-6-345-070809	
York Sample ID			09070341-04	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
2-Methylnaphthalene			Not detected	330
2-Methylphenol			Not detected	330
2-Nitroaniline			Not detected	330
3,3'-Dichlorobenzidine			Not detected	330
4,6-Dinitro-2-methylphenol			Not detected	330
4-Methylphenol			Not detected	330
Acenaphthene			Not detected	330
Acenaphthylene			Not detected	330
Acetophenone			Not detected	330
Anthracene			Not detected	330
Atrazine			Not detected	330
Benzaldehyde			Not detected	330
Benzidine			Not detected	330
Benzo(a)anthracene			580	330
Benzo(a)pyrene			Not detected	330
Benzo(b)fluoranthene			Not detected	330
Benzo(ghi)perylene			Not detected	330
Benzo(k)fluoranthene			Not detected	330
Bis(2-chloroethyl)ether			Not detected	330
Bis(2-chloroisopropyl)ether			Not detected	330
Bis(2-ethylhexyl)phthalate			Not detected	330
Butyl benzyl phthalate			Not detected	330
Caprolactam			Not detected	330
Carbazole			Not detected	330
Chrysene			530	330
Dibenz(a,h)anthracene			Not detected	330
Diethyl phthalate			Not detected	330
Di-n-butyl phthalate			Not detected	330
Di-n-octyl phthalate			Not detected	330
Fluoranthene			1100	330
Fluorene			Not detected	330
Hexachloro-1,3-butadiene			Not detected	330
Hexachlorobenzene			Not detected	330
Hexachlorocyclopentadiene			Not detected	330
Hexachloroethane			Not detected	330
Indeno(1,2,3-cd)pyrene			Not detected	330
Isophorone			Not detected	330
Naphthalene			Not detected	330
Nitrobenzene			Not detected	330
N-Nitrosodimethylamine			Not detected	330
N-Nitrosodi-n-propylamine			Not detected	330
N-Nitrosodiphenylamine			Not detected	330
Pentachlorophenol			Not detected	330
Phenanthrene			820	330
Phenol			Not detected	330
Pyrene			970	330
Volatiles, NJ Target List	SW846-8260	ug/kg	---	---
1,1,1-Trichloroethane			Not detected	5
1,1,2,2-Tetrachloroethane			Not detected	5
1,1,2-Trichloroethane			Not detected	5
1,1-Dichloroethane			Not detected	5

YORK

Client Sample ID			G-6-345-070809	
York Sample ID			09070341-04	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
1,1-Dichloroethene			Not detected	5
1,2-Dibromo-3-chloropropane			Not detected	10
1,2-Dibromoethane			Not detected	5
1,2-Dichlorobenzene			Not detected	5
1,2-Dichloroethane			Not detected	5
1,2-Dichloropropane			Not detected	5
1,3-Dichlorobenzene			Not detected	5
1,4-Dichlorobenzene			Not detected	5
Acetone			Not detected	10
Acrolein			Not detected	1000
Acrylonitrile			Not detected	5
Benzene			Not detected	5
Bromodichloromethane			Not detected	5
Bromoform			Not detected	5
Bromomethane			Not detected	5
Butanone			Not detected	10
Carbon disulfide			Not detected	5
Carbon tetrachloride			Not detected	5
Chlorobenzene			Not detected	5
Chloroethane			Not detected	5
Chloroform			Not detected	5
Chloromethane			Not detected	5
cis-1,2-Dichloroethene			Not detected	5
cis-1,3-Dichloropropene			Not detected	5
Dibromochloromethane			Not detected	5
Dichlorodifluoromethane			Not detected	5
Ethyl benzene			Not detected	5
Methyl acetate			Not detected	5
Methyl tert-butyl ether (MTBE)			Not detected	5
Methylene chloride			Not detected	5
Styrene			Not detected	5
Tertiary butyl alcohol (TBA)			Not detected	1000
Tetrachloroethene			Not detected	5
Toluene			Not detected	5
trans-1,2-Dichloroethene			Not detected	5
trans-1,3-Dichloropropene			Not detected	5
Trichloroethene			Not detected	5
Trichlorofluoromethane			Not detected	5
Vinyl chloride			Not detected	5
Xylenes, total			Not detected	10
PCB	SW846-3550B/8082	mg/Kg	---	---
PCB 1016			Not detected	0.017
PCB 1221			Not detected	0.017
PCB 1232			Not detected	0.017
PCB 1242			Not detected	0.017
PCB 1248			Not detected	0.017
PCB 1254			0.09	0.017
PCB 1260			0.16	0.017

YORK

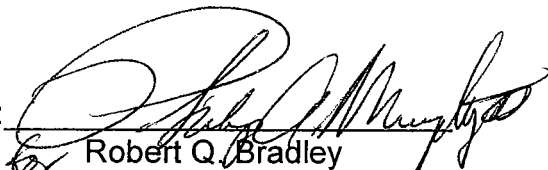
Client Sample ID			G-6-345-070809	
York Sample ID			09070341-04	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
TCLP Metals, RCRA List	SW846-1311/6010	mg/L	---	---
TCLP Arsenic			Not detected	0.010
TCLP Barium			1.06	0.010
TCLP Cadmium			Not detected	0.005
TCLP Chromium			0.015	0.005
TCLP Lead			0.399	0.005
TCLP Selenium			Not detected	0.010
TCLP Silver			Not detected	0.005
TCLP Mercury	SW846-1311/7470	mg/L	Not detected	0.0005
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.11
Hexavalent Chromium	SW846-7196A	mg/kg	Not detected	0.56
TCLP Copper	SW846-6010	mg/L	0.084	0.005
TCLP Nickel	SW846-6010	mg/L	0.070	0.005
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	222	10.0
Total Solids	SM 2540B	%	89.4	1.0
TCLP Zinc	SW846-6010	mg/L	1.45	0.005

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 09070341

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By:


for Robert Q. Bradley
Managing Director

Date: 7/15/2009

YORK

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No

[illegible]

Received by
H. Bernard Horton
1135AM 7/9/09

01-1505 Earning M

Technical Report

prepared for:

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Report Date: 9/17/2009
Re: Client Project ID: 909132
York Project No.: 09090459

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854

PA Reg. 68-04440



Report Date: 9/17/2009
Client Project ID: 909132
York Project No.: 09090459

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 08/07/09. The project was identified as your project "909132".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			G-3-5-080609	
York Sample ID			09090459-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	43.4	12.0
Total Solids	SM 2540B	%	83.3	1.0

Client Sample ID			G-3-1,2,5-080609	
York Sample ID			09090459-02	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Metals, NJ Target List	SW846-6010	mg/kg	---	---
Aluminum			7700	1.20
Antimony			1.55	1.20
Arsenic			9.15	1.20
Barium			145	1.20
Beryllium			Not detected	0.598
Cadmium			1.34	0.598
Chromium			32.1	1.20
Cobalt			19.4	1.20

YORK

Client Sample ID			G-3-1,2,5-080609	
York Sample ID			09090459-02	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Copper			151	1.20
Lead			242	1.20
Manganese			548	1.20
Nickel			97.7	1.20
Selenium			Not detected	1.20
Silver			Not detected	1.20
Thallium			Not detected	1.20
Vanadium			30.1	2.39
Zinc			410	2.39
Mercury	SW846-7471	mg/kG	Not detected	0.119
Pesticides, NJ Target List	SW846-3550B/8081	ug/Kg	---	---
4,4'-DDD			Not detected	57.3
4,4'-DDE			Not detected	57.3
4,4'-DDT			Not detected	57.3
Aldrin			Not detected	28.6
alpha Chlordane			Not detected	28.6
alpha-HCH (alpha-BHC)			Not detected	28.6
beta-HCH (beta-BHC)			Not detected	28.6
Dieldrin			Not detected	11.8
Endosulfan I			Not detected	28.6
Endosulfan II			Not detected	57.3
Endosulfan sulfate			Not detected	57.3
Endrin			Not detected	57.3
gamma Chlordane			Not detected	28.6
Heptachlor			Not detected	28.6
Heptachlor epoxide			Not detected	28.6
Lindane (gamma-BHC)			Not detected	28.6
Methoxychlor			Not detected	286
Toxaphene			Not detected	358
BNA, NJ target List	SW846-8270C	ug/Kg	---	---
1,1'-Biphenyl			Not detected	200
1,2-Diphenylhydrazine			Not detected	200
2,4,5-Trichlorophenol			Not detected	200
2,4,6-Trichlorophenol			Not detected	200
2,4-Dichlorophenol			Not detected	200
2,4-Dimethyl phenol			Not detected	200
2,4-Dinitrophenol			Not detected	200
2,4-Dinitrotoluene			Not detected	200
2,6-Dinitrotoluene			Not detected	200
2-Chlorophenol			Not detected	200
2-Methylnaphthalene			Not detected	200
2-Methylphenol			Not detected	200
2-Nitroaniline			Not detected	200
3,3'-Dichlorobenzidine			Not detected	200
4,6-Dinitro-2-methylphenol			Not detected	200
4-Methylphenol			Not detected	200
Acenaphthene			Not detected	200
Acenaphthylene			Not detected	200
Acetophenone			Not detected	200
Anthracene			Not detected	200
Atrazine			Not detected	200

YORK

Client Sample ID			G-3-1,2,5-080609	
York Sample ID			09090459-02	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Benzaldehyde			Not detected	200
Benzidine			Not detected	200
Benzo(a)anthracene			370	200
Benzo(a)pyrene			230	200
Benzo(b)fluoranthene			220	200
Benzo(ghi)perylene			Not detected	200
Benzo(k)fluoranthene			260	200
Bis(2-chloroethyl)ether			Not detected	200
Bis(2-chloroisopropyl)ether			Not detected	200
Bis(2-ethylhexyl) phthalate			Not detected	200
Butyl benzyl phthalate			Not detected	200
Caprolactam			Not detected	200
Carbazole			Not detected	200
Chrysene			640	200
Dibenz(a,h)anthracene			Not detected	200
Diethyl phthalate			Not detected	200
Di-n-butyl phthalate			Not detected	200
Di-n-octyl phthalate			Not detected	200
Fluoranthene			1100	200
Fluorene			Not detected	200
Hexachloro-1,3-butadiene			Not detected	200
Hexachlorobenzene			Not detected	200
Hexachlorocyclopentadiene			Not detected	200
Hexachloroethane			Not detected	200
Indeno(1,2,3-cd)pyrene			Not detected	200
Isophorone			Not detected	200
Naphthalene			Not detected	200
Nitrobenzene			Not detected	200
N-Nitrosodimethylamine			Not detected	200
N-Nitrosodi-n-propylamine			Not detected	200
N-Nitrosodiphenylamine			Not detected	200
Pentachlorophenol			Not detected	200
Phenanthrene			480	200
Phenol			Not detected	200
Pyrene			890	200
Volatiles, NJ Target List	SW846-8260	ug/kg	---	---
1,1,1-Trichloroethane			Not detected	5
1,1,2,2-Tetrachloroethane			Not detected	5
1,1,2-Trichloroethane			Not detected	5
1,1-Dichloroethane			Not detected	5
1,1-Dichloroethene			Not detected	5
1,2-Dibromo-3-chloropropane			Not detected	5
1,2-Dibromoethane			Not detected	5
1,2-Dichlorobenzene			Not detected	5
1,2-Dichloroethane			Not detected	5
1,2-Dichloropropane			Not detected	5
1,3-Dichlorobenzene			Not detected	5
1,4-Dichlorobenzene			Not detected	5
Acetone			Not detected	10
Acrolein			Not detected	1000
Acrylonitrile			Not detected	5

YORK

Client Sample ID			G-3-1,2,5-080609	
York Sample ID			09090459-02	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Benzene			Not detected	5
Bromodichloromethane			Not detected	5
Bromoform			Not detected	5
Bromomethane			Not detected	5
Butanone			Not detected	5
Carbon disulfide			Not detected	5
Carbon tetrachloride			Not detected	5
Chlorobenzene			Not detected	5
Chloroethane			Not detected	5
Chloroform			Not detected	5
Chloromethane			Not detected	5
cis-1,2-Dichloroethene			Not detected	5
cis-1,3-Dichloropropene			Not detected	5
Dibromochloromethane			Not detected	5
Dichlorodifluoromethane			Not detected	5
Ethyl benzene			Not detected	5
Methyl acetate			Not detected	5
Methyl tert-butyl ether (MTBE)			Not detected	5
Methylene chloride			Not detected	10
Styrene			Not detected	5
Tertiary butyl alcohol (TBA)			Not detected	1000
Tetrachloroethene			Not detected	5
Toluene			Not detected	5
trans-1,2-Dichloroethene			Not detected	5
trans-1,3-Dichloropropene			Not detected	5
Trichloroethene			Not detected	5
Trichlorofluoromethane			Not detected	5
Vinyl chloride			Not detected	5
Xylenes, total			Not detected	10
PCB	SW846-3550B/8082	mg/Kg	---	---
PCB 1016			Not detected	0.0609
PCB 1221			Not detected	0.0609
PCB 1232			Not detected	0.0609
PCB 1242			Not detected	0.0609
PCB 1248			Not detected	0.0609
PCB 1254			Not detected	0.0609
PCB 1260			Not detected	0.0609
TCLP Metals, RCRA List	SW846-1311/6010	mg/L	---	---
TCLP Arsenic			Not detected	0.010
TCLP Barium			1.06	0.010
TCLP Cadmium			Not detected	0.005
TCLP Chromium			0.008	0.005
TCLP Lead			0.167	0.005

YORK

Client Sample ID			G-3-1,2,5-080609	
York Sample ID			09090459-02	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
TCLP Selenium			Not detected	0.010
TCLP Silver			Not detected	0.005
TCLP Mercury	SW846-1311/7470	mg/L	Not detected	0.0005
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.00
Hexavalent Chromium	SW846-7196A	mg/kg	Not detected	0.50
TCLP Copper	SW846-6010	mg/L	0.044	0.005
TCLP Nickel	SW846-6010	mg/L	0.044	0.005
TCLP Zinc	SW846-6010	mg/L	0.942	0.005
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	101	11.9
Total Solids	SM 2540B	%	83.7	1.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 09090459

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____

Robert Q. Bradley
Managing Director

Date: 9/17/2009

YORK

YORK

ANALYTICAL LABORATORIES, INC.

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Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written notice.

Yorl: Project No. 09090459

Page 2 of 2

Client Information Company: <u>Same</u> Address: <u>1111 Full St</u> <u>2nd Floor, Brooklyn, NY 11238</u> Phone No: <u>718-636-0800</u> Contact Person: <u>Anthony Vano</u> E-Mail Address: <u>avano@same.com</u>		Report To: Company: <u>Same</u> Address: <u>1111 Full St</u> <u>2nd Floor, Brooklyn, NY 11238</u> Phone No: <u>718-636-0800</u> Contact Person: <u>Anthony Vano</u> E-Mail Address: <u>avano@same.com</u>		Invoice To: Company: <u>Same</u> Address: <u>1111 Full St</u> <u>2nd Floor, Brooklyn, NY 11238</u> Phone No: <u>718-636-0800</u> Contact Person: <u>Anthony Vano</u> E-Mail Address: <u>avano@same.com</u>		Client Project ID: <u>909132</u> Purchase Order No.: <u>3047</u>		Turn-Around Time: 241 481 721 511 301		Report Type/Deliverables: Summary: ☒ QA/QC Summary CP Package: ☒ ASP B Pkg SPA Pkg: ☐ Excel format OTHER: ☐	
Choose Analyses Needed from the Menu Above and Enter Below											
Sample Identification 6-3-5-080609 6-3-1-2-5-080609		Date Sampled 8/6/09 8/6/09		Sample Matrix S S		Matrix Codes S - soil Other - specify (oil, etc) WW - wastewater GW - groundwater DW - drinking water AL-A - ambient air AL-SV - soil vapor		Choose Analyses Needed from the Menu Above and Enter Below		Container Description(s)	
Comments: <u>TPH DEO</u> <u>New Jersey Soil Remediation</u> <u>TPH totals incl. Copper, Zinc</u>											
Temperature on Receipt 15.10 Date/Time: 8/6/09 15:10 °C											

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

**Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo**

Report Date: 8/10/2009
Re: Client Project ID: 909132
York Project No.: 09080103

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854

PA Reg. 68-04440



Report Date: 8/10/2009
 Client Project ID: 909132
 York Project No.: 09080103

Hydro Tech Environmental
 1111 Fulton Street
 2nd Floor
 Brooklyn, NY 11238
 Attention: Timothy Lo

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 08/04/09. The project was identified as your project "909132".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			G-6-1-080309		G-6-2-080309	
York Sample ID			09080103-01		09080103-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	154	10.0	116	10.0

Client Sample ID			G-6-1,2-080309	
York Sample ID			09080103-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Metals, NJ Target List	SW846-6010	mg/kg	---	---
Aluminum			6540	1.00
Antimony			1.02	1.00
Arsenic			5.48	1.00
Barium			102	1.00
Beryllium			Not detected	0.50
Cadmium			0.62	0.50
Chromium			31.8	1.00
Cobalt			8.02	1.00
Copper			51.8	1.00
Lead			172	1.00
Manganese			398	1.00
Nickel			27.5	1.00

YORK

Client Sample ID			G-6-1,2-080309	
York Sample ID			09080103-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Selenium			Not detected	1.00
Silver			Not detected	1.00
Thallium			Not detected	1.00
Vanadium			27.4	2.00
Zinc			83.8	2.00
Mercury	SW846-7471	mg/kG	Not detected	0.10
Pesticides, NJ Target List	SW846-3550B/8081	ug/Kg	---	---
4,4'-DDD			19.7	16.0
4,4'-DDE			Not detected	16.0
4,4'-DDT			17.0	16.0
Aldrin			Not detected	8.00
alpha Chlordane			Not detected	8.00
alpha-HCH (alpha-BHC)			Not detected	8.00
beta-HCH (beta-BHC)			Not detected	8.00
Dieldrin			Not detected	3.30
Endosulfan I			Not detected	8.00
Endosulfan II			Not detected	16.0
Endosulfan sulfate			Not detected	16.0
Endrin			Not detected	16.0
gamma Chlordane			Not detected	8.00
Heptachlor			Not detected	8.00
Heptachlor epoxide			Not detected	8.00
Lindane (gamma-BHC)			Not detected	8.00
Methoxychlor			Not detected	80.0
Toxaphene			Not detected	100
BNA, NJ target List	SW846-8270C	ug/Kg	---	---
1,1'-Biphenyl			Not detected	330
1,2,4-Trichlorobenzene			Not detected	330
1,2-Diphenylhydrazine			Not detected	330
2,4,5-Trichlorophenol			Not detected	330
2,4,6-Trichlorophenol			Not detected	330
2,4-Dichlorophenol			Not detected	330
2,4-Dimethyl phenol			Not detected	330
2,4-Dinitrophenol			Not detected	330
2,4-Dinitrotoluene			Not detected	330
2,6-Dinitrotoluene			Not detected	330
2-Chlorophenol			Not detected	330
2-Methylnaphthalene			Not detected	330
2-Methylphenol			Not detected	330
2-Nitroaniline			Not detected	330
3,3'-Dichlorobenzidine			Not detected	330
4,6-Dinitro-2-methylphenol			Not detected	330
4-Methylphenol			Not detected	330
Acenaphthene			Not detected	330
Acenaphthylene			Not detected	330
Acetophenone			Not detected	330
Anthracene			Not detected	330
Atrazine			Not detected	330
Benzaldehyde			Not detected	330
Benzidine			Not detected	330
Benzo(a)anthracene			370	330

YORK

Client Sample ID			G-6-1,2-080309	
York Sample ID			09080103-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Benzo(a)pyrene			Not detected	330
Benzo(b)fluoranthene			Not detected	330
Benzo(ghi)perylene			Not detected	330
Benzo(k)fluoranthene			Not detected	330
Bis(2-chloroethyl)ether			Not detected	330
Bis(2-chloroisopropyl)ether			Not detected	330
Bis(2-ethylhexyl)phthalate			Not detected	330
Butyl benzyl phthalate			Not detected	330
Caprolactam			Not detected	330
Carbazole			Not detected	330
Chrysene			410	330
Dibenz(a,h)anthracene			Not detected	330
Diethyl phthalate			Not detected	330
Di-n-butyl phthalate			Not detected	330
Di-n-octyl phthalate			Not detected	330
Fluoranthene			760	330
Fluorene			Not detected	330
Hexachloro-1,3-butadiene			Not detected	330
Hexachlorobenzene			Not detected	330
Hexachlorocyclopentadiene			Not detected	330
Hexachloroethane			Not detected	330
Indeno(1,2,3-cd)pyrene			Not detected	330
Isophorone			Not detected	330
Naphthalene			Not detected	330
Nitrobenzene			Not detected	330
N-Nitrosodimethylamine			Not detected	330
N-Nitrosodi-n-propylamine			Not detected	330
N-Nitrosodiphenylamine			Not detected	330
Pentachlorophenol			Not detected	330
Phenanthrene			750	330
Phenol			Not detected	330
Pyrene			690	330
Volatiles, NJ Target List	SW846-8260	ug/kg	---	---
1,1,1-Trichloroethane			Not detected	10.0
1,1,2,2-Tetrachloroethane			Not detected	10.0
1,1,2-Trichloroethane			Not detected	10.0
1,1-Dichloroethane			Not detected	10.0
1,1-Dichloroethene			Not detected	10.0
1,2-Dibromo-3-chloropropane			Not detected	10.0
1,2-Dibromoethane			Not detected	10.0
1,2-Dichlorobenzene			Not detected	10.0
1,2-Dichloroethane			Not detected	10.0
1,2-Dichloropropane			Not detected	10.0
1,3-Dichlorobenzene			Not detected	10.0
1,4-Dichlorobenzene			Not detected	10.0
Acetone			Not detected	20.0
Acrolein			Not detected	2000
Acrylonitrile			Not detected	10.0
Benzene			Not detected	10.0
Bromodichloromethane			Not detected	10.0
Bromoform			Not detected	10.0

YORK

Client Sample ID			G-6-1,2-080309	
York Sample ID			09080103-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Bromomethane			Not detected	10.0
Butanone			Not detected	10.0
Carbon disulfide			Not detected	10.0
Carbon tetrachloride			Not detected	10.0
Chlorobenzene			Not detected	10.0
Chloroethane			Not detected	10.0
Chloroform			Not detected	10.0
Chloromethane			Not detected	10.0
cis-1,2-Dichloroethene			Not detected	10.0
cis-1,3-Dichloropropene			Not detected	10.0
Dibromochloromethane			Not detected	10.0
Dichlorodifluoromethane			Not detected	10.0
Ethyl benzene			Not detected	10.0
Methyl acetate			Not detected	10.0
Methyl tert-butyl ether (MTBE)			Not detected	10.0
Methylene chloride			Not detected	20.0
Styrene			Not detected	10.0
Tertiary butyl alcohol (TBA)			Not detected	2000
Tetrachloroethene			Not detected	10.0
Toluene			Not detected	10.0
trans-1,2-Dichloroethene			Not detected	10.0
trans-1,3-Dichloropropene			Not detected	10.0
Trichloroethene			Not detected	10.0
Trichlorofluoromethane			Not detected	10.0
Vinyl chloride			Not detected	10.0
Xylenes, total			Not detected	20.0
PCB	SW846-3550B/8082	mg/Kg	---	---
PCB 1016			Not detected	0.017
PCB 1221			Not detected	0.017
PCB 1232			Not detected	0.017
PCB 1242			Not detected	0.017
PCB 1248			Not detected	0.017
PCB 1254			0.07	0.017
PCB 1260			0.12	0.017
TCLP Metals, RCRA List	SW846-1311/6010	mg/L	---	---
TCLP Arsenic			Not detected	0.010
TCLP Barium			0.786	0.010
TCLP Cadmium			Not detected	0.005
TCLP Chromium			Not detected	0.005
TCLP Lead			0.038	0.005
TCLP Selenium			Not detected	0.010
TCLP Silver			Not detected	0.005
TCLP Copper	SW846-6010	mg/L	0.009	0.005
TCLP Mercury	SW846-1311/7470	mg/L	Not detected	0.0005
TCLP Nickel	SW846-6010	mg/L	0.040	0.005
TCLP Zinc	SW846-6010	mg/L	1.06	0.005
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.00
Hexavalent Chromium	SW846-7196A	mg/kg	Not detected	0.50
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	126	10.0

Units Key:

For Waters/Liquids: mg/L = ppm ; ug/L = ppb

For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

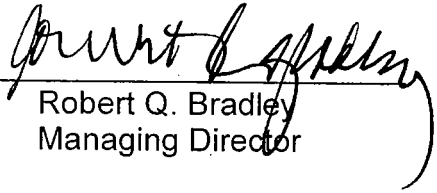
YORK

Report Date: 8/10/2009
Client Project ID: 909132
York Project No.: 09080103

Notes for York Project No. 09080103

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____


Robert Q. Bradley
Managing Director

Date: 8/10/2009

YORK

YORK

ANALYTICAL LABORATORIES, INC.
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Field Chain-of-Custody Record

Page 1 of 1

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 08080103

Client Information Company: <u>Union-Red Corp</u> Address: <u>1111 Fulton St</u> <u>2nd Floor, Brooklyn, NY 11238</u> Phone No. <u>718-636-0800</u> Contact Person: <u>Timothy Le</u> <u>H0@union-red.com</u> E-Mail Address: <u></u>	Report To: Company: <u>Same</u> Address: <u></u> Phone No. <u></u> Attention: <u></u> E-Mail Address: <u></u>	Invoice To: Company: <u>Same</u> Address: <u></u> Phone No. <u></u> Attention: <u></u> E-Mail Address: <u></u>	Client Project ID <u>909132</u>	Turn-Around Time 24 hr <u></u> 48 hr <u></u> 72 hr <u></u> 5 Day <u></u>	Report Type/Deliverables Summary Results Only ☒ QA/QC Summary RCP Package <u></u> ASP B Pkg ASP A Pkg <u></u> Excel format EDD <u></u> OTHER
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Volatiles 8260 full 624 STARS BTX MTBE TCL list TAGM CT RCP Arom. Halogen App. IX 8021B list	Semi-Volatiles 8270 & 625 STARS BN Only Acids Only PAH TAGM CT RCP Ketones Oxysterols TCLP list 524.2 App. IX 8021B list	Metals RCRA8 PP13 TAL CT15 Total Dissolved SPLP TCLP Ind. Metals Hg, Pb, As, Cd Cu, Ni, Ba, Fe Se, Ti, Sb, Cu Methane Na, Mo, Ag, etc. Helium	Misc. Org. TPH GRO TPH DRO CT ETPH NY 310-13 TPH 418.1 Air TO14A SPLP TCLP Air TO15 Ind. Metals Air STARS TCLP Herb Chlordane 608 Pest TCLP BNA 608 PCB	Full Lists Pri. Poll. TCL Ogrs TAL MeCN Full TCLP Full App. IX Full App. IX Pat 360 Routine Pat 360 Routine Pat 360 Routine NYC DEP Sewer NYC DEP Sewer TAGM	Miscellaneous Parameters Conductivity Reactivity Ignitability Flash Point Sieve Anal. Heterotrophs TOX BTU/lb. Aqueatic Tox. TOC pH TDS TPH-IR	Special Instructions Field Filtered ☐ Lab to Filter ☐
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Sample Identification G-6-1-080309 G-6-2-080309 G-6-1-2-080309	Date Sampled 8/3/09 ↓ ↓	Sample Matrix S ↓ ↓	Choose Analyses Needed from the Menu Above and Enter Below TPH DRO TPH DRO New Jersey Soil Cleanup Criteria / TCLP metals including copper, nickel, zinc 8oz glass 8oz glass 8oz glass, 4oz Vial w/ MeOH	Container Description(s) 4oz glass 4oz glass 8oz glass, 4oz Vial w/ MeOH
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Comments <u>Handwritten notes and signatures</u>	Preservation Check these Applicable 4°C <u></u> Frozen <u></u> MeOH <u></u> HCl <u></u> HNO ₃ <u></u> 4°C <u></u> H ₂ SO ₄ <u></u> NaOH <u></u> ZnAc <u></u> Ascorbic <u></u> Other <u></u>	Samples Relinquished By Date/Time <u>8/3/09 13:37</u> Signature <u>[Signature]</u>	Samples Received By Date/Time <u>1/14/10</u> Signature <u>[Signature]</u>	Temperature on Receipt <u>3.9°C</u>
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H. B. Barton 8/4/09 1:09 PM
M. M. M. 8.4.09 1800

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Report Date: 8/12/2009
Re: Client Project ID: 909132
York Project No.: 09080211

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854

PA Reg. 68-04440



Report Date: 8/12/2009
Client Project ID: 909132
York Project No.: 09080211

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 08/06/09. The project was identified as your project "909132".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			G-1-1-080509		G-1-2-080509	
York Sample ID			09080211-01		09080211-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	16.9	11.4	Not detected	12.2
Total Solids	SM 2540B	%	87.7	1.0	81.8	1.0

Client Sample ID			G-1-1, 2-080509	
York Sample ID			09080211-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Metals, NJ Target List	SW846-6010	mg/kg	---	---
Aluminum			6920	1.13
Antimony			Not detected	1.13
Arsenic			2.77	1.13
Barium			82.7	1.13
Beryllium			Not detected	0.567
Cadmium			Not detected	0.567
Chromium			20.1	1.13
Cobalt			7.26	1.13

YORK

Client Sample ID			G-1-1, 2-080509	
York Sample ID			09080211-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Copper			14.0	1.13
Lead			17.1	1.13
Manganese			452	1.13
Nickel			24.7	1.13
Selenium			Not detected	1.13
Silver			Not detected	1.13
Thallium			Not detected	1.13
Vanadium			22.5	2.27
Zinc			31.2	2.27
Mercury	SW846-7471	mg/kG	Not detected	0.113
Pesticides, NJ Target List	SW846-3550B/8081	ug/Kg	---	---
4,4'-DDD			Not detected	18.1
4,4'-DDE			Not detected	18.1
4,4'-DDT			Not detected	18.1
Aldrin			Not detected	9.04
alpha Chlordane			Not detected	9.04
alpha-HCH (alpha-BHC)			Not detected	9.04
beta-HCH (beta-BHC)			Not detected	9.04
Dieldrin			Not detected	3.73
Endosulfan I			Not detected	9.04
Endosulfan II			Not detected	18.1
Endosulfan sulfate			Not detected	18.1
Endrin			Not detected	18.1
gamma Chlordane			Not detected	9.04
Heptachlor			Not detected	9.04
Heptachlor epoxide			Not detected	9.04
Lindane (gamma-BHC)			Not detected	9.04
Methoxychlor			Not detected	90.4
Toxaphene			Not detected	113
BNA, NJ target List	SW846-8270C	ug/Kg	---	---
1,1'-Biphenyl			Not detected	190
1,2,4-Trichlorobenzene			Not detected	190
1,2-Diphenylhydrazine			Not detected	190
2,4,5-Trichlorophenol			Not detected	190
2,4,6-Trichlorophenol			Not detected	190
2,4-Dichlorophenol			Not detected	190
2,4-Dimethyl phenol			Not detected	190
2,4-Dinitrophenol			Not detected	190
2,4-Dinitrotoluene			Not detected	190
2,6-Dinitrotoluene			Not detected	190
2-Chlorophenol			Not detected	190
2-Methylnaphthalene			Not detected	190
2-Methylphenol			Not detected	190
2-Nitroaniline			Not detected	190
3,3'-Dichlorobenzidine			Not detected	190
4,6-Dinitro-2-methylphenol			Not detected	190
4-Methylphenol			Not detected	190
Acenaphthene			Not detected	190
Acenaphthylene			Not detected	190
Acetophenone			Not detected	190
Anthracene			Not detected	190

YORK

Client Sample ID			G-1-1, 2-080509	
York Sample ID			09080211-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Atrazine			Not detected	190
Benzaldehyde			Not detected	190
Benzidine			Not detected	190
Benzo(a)anthracene			Not detected	190
Benzo(a)pyrene			Not detected	190
Benzo(b)fluoranthene			Not detected	190
Benzo(ghi)perylene			Not detected	190
Benzo(k)fluoranthene			Not detected	190
Bis(2-chloroethyl)ether			Not detected	190
Bis(2-chloroisopropyl)ether			Not detected	190
Bis(2-ethylhexyl)phthalate			Not detected	190
Butyl benzyl phthalate			Not detected	190
Caprolactam			Not detected	190
Carbazole			Not detected	190
Chrysene			Not detected	190
Dibenz(a,h)anthracene			Not detected	190
Diethyl phthalate			Not detected	190
Di-n-butyl phthalate			Not detected	190
Di-n-octyl phthalate			Not detected	190
Fluoranthene			Not detected	190
Fluorene			Not detected	190
Hexachloro-1,3-butadiene			Not detected	190
Hexachlorobenzene			Not detected	190
Hexachlorocyclopentadiene			Not detected	190
Hexachloroethane			Not detected	190
Indeno(1,2,3-cd)pyrene			Not detected	190
Isophorone			Not detected	190
Naphthalene			Not detected	190
Nitrobenzene			Not detected	190
N-Nitrosodimethylamine			Not detected	190
N-Nitrosodi-n-propylamine			Not detected	190
N-Nitrosodiphenylamine			Not detected	190
Pentachlorophenol			Not detected	190
Phenanthrene			Not detected	190
Phenol			Not detected	190
Pyrene			Not detected	190
Volatiles, NJ Target List	SW846-8260	ug/kg	---	---
1,1,1-Trichloroethane			Not detected	5
1,1,2,2-Tetrachloroethane			Not detected	5
1,1,2-Trichloroethane			Not detected	5
1,1-Dichloroethane			Not detected	5
1,1-Dichloroethene			Not detected	5
1,2-Dibromo-3-chloropropane			Not detected	5
1,2-Dibromoethane			Not detected	5
1,2-Dichlorobenzene			Not detected	5
1,2-Dichloroethane			Not detected	5
1,2-Dichloropropane			Not detected	5
1,3-Dichlorobenzene			Not detected	5
1,4-Dichlorobenzene			Not detected	5
Acetone			Not detected	10
Acrolein			Not detected	1000

YORK

Client Sample ID			G-1-1, 2-080509	
York Sample ID			09080211-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Acrylonitrile			Not detected	5
Benzene			Not detected	5
Bromodichloromethane			Not detected	5
Bromoform			Not detected	5
Bromomethane			Not detected	5
Butanone			Not detected	5
Carbon disulfide			Not detected	5
Carbon tetrachloride			Not detected	5
Chlorobenzene			Not detected	5
Chloroethane			Not detected	5
Chloroform			Not detected	5
Chloromethane			Not detected	5
cis-1,2-Dichloroethene			Not detected	5
cis-1,3-Dichloropropene			Not detected	5
Dibromochloromethane			Not detected	5
Dichlorodifluoromethane			Not detected	5
Ethyl benzene			Not detected	5
Methyl acetate			Not detected	5
Methyl tert-butyl ether (MTBE)			Not detected	5
Methylene chloride			Not detected	10
Styrene			Not detected	5
Tertiary butyl alcohol (TBA)			Not detected	1000
Tetrachloroethene			Not detected	5
Toluene			Not detected	5
trans-1,2-Dichloroethene			Not detected	5
trans-1,3-Dichloropropene			Not detected	5
Trichloroethene			Not detected	5
Trichlorofluoromethane			Not detected	5
Vinyl chloride			Not detected	5
Xylenes, total			Not detected	10
PCB	SW846-3550B/8082	mg/Kg	---	---
PCB 1016			Not detected	0.0192
PCB 1221			Not detected	0.0192
PCB 1232			Not detected	0.0192
PCB 1242			Not detected	0.0192
PCB 1248			Not detected	0.0192
PCB 1254			Not detected	0.0192
PCB 1260			Not detected	0.0192
TCLP Metals, RCRA List	SW846-1311/6010	mg/L	---	---
TCLP Arsenic			Not detected	0.010
TCLP Barium			1.32	0.010
TCLP Cadmium			Not detected	0.005
TCLP Chromium			Not detected	0.005
TCLP Lead			0.155	0.005
TCLP Selenium			Not detected	0.010
TCLP Silver			Not detected	0.005
TCLP Copper	SW846-6010	mg/L	0.022	0.005
TCLP Nickel	SW846-6010	mg/L	0.029	0.005
TCLP Zinc	SW846-6010	mg/L	0.689	0.005
TCLP Mercury	SW846-1311/7470	mg/L	Not detected	0.0005
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	70.1	11.3

YORK

Client Sample ID			G-1-1, 2-080509	
York Sample ID			09080211-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Total Solids	SM 2540B	%	88.3	1.0
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.13
Hexavalent Chromium	SW846-7196A	mg/kg	Not detected	0.57

Client Sample ID			G-1-3-080509	
York Sample ID			09080211-04	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	Not detected	12.5
Total Solids	SM 2540B	%	80.2	1.0

Client Sample ID			G-1-4-080509		G-1-5-080509	
York Sample ID			09080211-05		09080211-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	Not detected	11.7	91.7	11.6
Total Solids	SM 2540B	%	85.2	1.0	86.5	1.0

Client Sample ID			G-1-3, 4, 5-080509	
York Sample ID			09080211-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Metals, NJ Target List	SW846-6010	mg/kg	---	---
Aluminum			4700	1.12
Antimony			Not detected	1.12
Arsenic			3.30	1.12
Barium			53.0	1.12
Beryllium			Not detected	0.562
Cadmium			Not detected	0.562
Chromium			15.4	1.12
Cobalt			4.89	1.12
Copper			13.1	1.12
Lead			15.1	1.12
Manganese			222	1.12
Nickel			22.2	1.12
Selenium			Not detected	1.12
Silver			Not detected	1.12
Thallium			Not detected	1.12
Vanadium			14.2	2.25
Zinc			24.5	2.25
Mercury	SW846-7471	mg/kG	Not detected	0.124
Pesticides, NJ Target List	SW846-3550B/8081	ug/Kg	---	---
4,4'-DDD			Not detected	19.8
4,4'-DDE			Not detected	19.8
4,4'-DDT			Not detected	19.8
Aldrin			Not detected	9.92
alpha Chlordane			Not detected	9.92

YORK

Client Sample ID			G-1-3, 4, 5-080509	
York Sample ID			09080211-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
alpha-HCH (alpha-BHC)			Not detected	9.92
beta-HCH (beta-BHC)			Not detected	9.92
Dieldrin			Not detected	4.09
Endosulfan I			Not detected	9.92
Endosulfan II			Not detected	19.8
Endosulfan sulfate			Not detected	19.8
Endrin			Not detected	19.8
gamma Chlordane			Not detected	9.92
Heptachlor			Not detected	9.92
Heptachlor epoxide			Not detected	9.92
Lindane (gamma-BHC)			Not detected	9.92
Methoxychlor			Not detected	99.2
Toxaphene			Not detected	124
BNA, NJ target List	SW846-8270C	ug/Kg	---	---
1,1'-Biphenyl			Not detected	200
1,2,4-Trichlorobenzene			Not detected	200
1,2-Diphenylhydrazine			Not detected	200
2,4,5-Trichlorophenol			Not detected	200
2,4,6-Trichlorophenol			Not detected	200
2,4-Dichlorophenol			Not detected	200
2,4-Dimethyl phenol			Not detected	200
2,4-Dinitrophenol			Not detected	200
2,4-Dinitrotoluene			Not detected	200
2,6-Dinitrotoluene			Not detected	200
2-Chlorophenol			Not detected	200
2-Methylnaphthalene			Not detected	200
2-Methylphenol			Not detected	200
2-Nitroaniline			Not detected	200
3,3'-Dichlorobenzidine			Not detected	200
4,6-Dinitro-2-methylphenol			Not detected	200
4-Methylphenol			Not detected	200
Acenaphthene			Not detected	200
Acenaphthylene			Not detected	200
Acetophenone			Not detected	200
Anthracene			Not detected	200
Atrazine			Not detected	200
Benzaldehyde			Not detected	200
Benzidine			Not detected	200
Benzo(a)anthracene			Not detected	200
Benzo(a)pyrene			Not detected	200
Benzo(b)fluoranthene			Not detected	200
Benzo(ghi)perylene			Not detected	200
Benzo(k)fluoranthene			Not detected	200
Bis(2-chloroethyl)ether			Not detected	200
Bis(2-chloroisopropyl)ether			Not detected	200
Bis(2-ethylhexyl)phthalate			Not detected	200
Butyl benzyl phthalate			Not detected	200
Caprolactam			Not detected	200
Carbazole			Not detected	200
Chrysene			Not detected	200
Dibenz(a,h)anthracene			Not detected	200

YORK

Client Sample ID			G-1-3, 4, 5-080509	
York Sample ID			09080211-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Diethyl phthalate			Not detected	200
Di-n-butyl phthalate			Not detected	200
Di-n-octyl phthalate			Not detected	200
Fluoranthene			Not detected	200
Fluorene			Not detected	200
Hexachloro-1,3-butadiene			Not detected	200
Hexachlorobenzene			Not detected	200
Hexachlorocyclopentadiene			Not detected	200
Hexachloroethane			Not detected	200
Indeno(1,2,3-cd)pyrene			Not detected	200
Isophorone			Not detected	200
Naphthalene			Not detected	200
Nitrobenzene			Not detected	200
N-Nitrosodimethylamine			Not detected	200
N-Nitrosodi-n-propylamine			Not detected	200
N-Nitrosodiphenylamine			Not detected	200
Pentachlorophenol			Not detected	200
Phenanthrene			Not detected	200
Phenol			Not detected	200
Pyrene			Not detected	200
Volatiles, NJ Target List	SW846-8260	ug/kg	---	---
1,1,1-Trichloroethane			Not detected	5
1,1,2,2-Tetrachloroethane			Not detected	5
1,1,2-Trichloroethane			Not detected	5
1,1-Dichloroethane			Not detected	5
1,1-Dichloroethene			Not detected	5
1,2-Dibromo-3-chloropropane			Not detected	5
1,2-Dibromoethane			Not detected	5
1,2-Dichlorobenzene			Not detected	5
1,2-Dichloroethane			Not detected	5
1,2-Dichloropropane			Not detected	5
1,3-Dichlorobenzene			Not detected	5
1,4-Dichlorobenzene			Not detected	5
Acetone			Not detected	10
Acrolein			Not detected	1000
Acrylonitrile			Not detected	5
Benzene			Not detected	5
Bromodichloromethane			Not detected	5
Bromoform			Not detected	5
Bromomethane			Not detected	5
Butanone			Not detected	5
Carbon disulfide			Not detected	5
Carbon tetrachloride			Not detected	5
Chlorobenzene			Not detected	5
Chloroethane			Not detected	5
Chloroform			Not detected	5
Chloromethane			Not detected	5
cis-1,2-Dichloroethene			Not detected	5
cis-1,3-Dichloropropene			Not detected	5
Dibromochloromethane			Not detected	5
Dichlorodifluoromethane			Not detected	5

YORK

Client Sample ID			G-1-3, 4, 5-080509	
York Sample ID			09080211-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Ethyl benzene			Not detected	5
Methyl acetate			Not detected	5
Methyl tert-butyl ether (MTBE)			Not detected	5
Methylene chloride			Not detected	10
Styrene			Not detected	5
Tertiary butyl alcohol (TBA)			Not detected	1000
Tetrachloroethene			Not detected	5
Toluene			Not detected	5
trans-1,2-Dichloroethene			Not detected	5
trans-1,3-Dichloropropene			Not detected	5
Trichloroethene			Not detected	5
Trichlorofluoromethane			Not detected	5
Vinyl chloride			Not detected	5
Xylenes, total			Not detected	10
PCB	SW846-3550B/8082	mg/Kg	---	---
PCB 1016			Not detected	0.0211
PCB 1221			Not detected	0.0211
PCB 1232			Not detected	0.0211
PCB 1242			Not detected	0.0211
PCB 1248			Not detected	0.0211
PCB 1254			Not detected	0.0211
PCB 1260			Not detected	0.0211
TCLP Metals, RCRA List	SW846-1311/6010	mg/L	---	---
TCLP Arsenic			Not detected	0.010
TCLP Barium			1.38	0.010
TCLP Cadmium			Not detected	0.005
TCLP Chromium			Not detected	0.005
TCLP Lead			0.106	0.005
TCLP Selenium			Not detected	0.010
TCLP Silver			Not detected	0.005
TCLP Copper	SW846-6010	mg/L	0.032	0.005
TCLP Nickel	SW846-6010	mg/L	0.023	0.005
TCLP Zinc	SW846-6010	mg/L	0.732	0.005
TCLP Mercury	SW846-1311/7470	mg/L	Not detected	0.0005
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	Not detected	12.4
Total Solids	SM 2540B	%	80.8	1.0
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.24
Hexavalent Chromium	SW846-7196A	mg/kg	Not detected	0.62

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb

For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

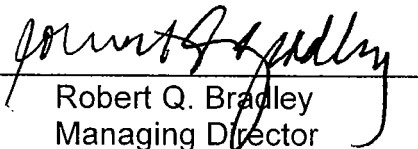
YORK

Report Date: 8/12/2009
Client Project ID: 909132
York Project No.: 09080211

Notes for York Project No. 09080211

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____


Robert Q. Bradley
Managing Director

Date: 8/12/2009

YORK

YORK

ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

518 429 5059

Field Chain-of-Custody Record

Page 1 of 1

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.

This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 090802

Client Information Company: Environmental Corp. Address: 1111 Fulton St. 2nd Floor, Brooklyn, NY 11238 Phone No. 718-636-0800 Contact Person: Timothy Lo E-Mail Address: TLo@envirotech.com	Report To: Company: Same Address: Phone No. Attention: E-Mail Address:	Invoice To: Company: Same Address: Phone No. Attention: E-Mail Address:	Client Project ID 909132 Purchase Order No. 3047	Turn-Around Time 24 hr 48 hr 72 hr 5 Day Standard	Report Type/Deliverables Summary Results Only ☒ QA/QC Summary RCP Package ASP B Pkg ASP A Pkg Excel format EDD OTHER
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Print, Check, and Verify: All information must be completed. Samples will not be logged in, and the turn-around time clock will not begin until all questions by York are resolved.

Antony Vatta
Samples Collected/Authorized By (Signature)
Anthony Vatta (Langan)
Name (printed)

Volatiles	Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Miscellaneous Parameters	Special Instructions
8260 full 624 STARS BTX MTBE TCL list TAGM CT RCP Arom. Halog. App. IX 8021B list	TICS Site Spec. SPL Por/TCLP Benzene Nassau Co. Suffolk Co. Ketones Oxymates TCLP list 524.2 502.2	RCRA8 PPI3 CT15 Total Dissolved SPL Por/TCLP CT RCP TCLP Herb TICS App. IX SPL Por/TCLP TCLP BNA	TPH GRO TPH DRO CT ETPH NY 310-13 TPH 418.1 Air TO14A Air TO15 Air STARS Hg, Pb, As, Cd Air VPH Ct, Ni, Be, Fe, Cu Methane Na, Mn, Ag, etc.	TPH GRO TPH DRO CT ETPH NY 310-13 TPH 418.1 Air TO14A Air TO15 Air STARS Hg, Pb, As, Cd Air VPH Ct, Ni, Be, Fe, Cu Methane Na, Mn, Ag, etc.	Full Poll. TCL DRO TAL MetCN Full TCLP Full App. IX Part 360 Routine Part 360 Baseline Part 360 Special NYC DEP Sewer NYSD EIS TAGM	Corrosivity Reactivity Ignitability Flash Point Sieve Anal. Heterotrophs TOX BTU/lb. Aquatic Tox. F.O.G. pH TDS TPH-IR	Color Phenols TKN Cyanide-T Cyanide-A BOD5 CBOD5 BOD28 COD TSS Oil & Grease Total Solids Asbestos

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
G-1-1-080509	8/5/09	S	TPH DRO	
G-1-2-080509			TPH DRO	
G-1-1-2-080509			New Jersey Soil Cleanup Criteria, TCLP Metals incl. copper, zinc	
G-1-3-080509			TPH DRO	
G-1-4-080509			↓	
G-1-5-080509			↓	
G-1-3-4-5-080509			New Jersey Soil Cleanup Criteria, TCLP Metals incl. copper, zinc	
Comments: <i>[Handwritten notes and signatures]</i>				
Samples Relinquished By: <i>[Signature]</i> Date/Time: 8/5/09 1520				Temperature on Receipt 4.0 °C
Samples Relinquished By: <i>[Signature]</i> Date/Time: 8/6/09 1400				Temperature on Receipt 4.0 °C

YORK

ANALYTICAL LABORATORIES, INC.



Technical Report

prepared for:

**Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo**

Report Date: 8/12/2009
Re: Client Project ID: 909132
York Project No.: 09080212

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854

PA Reg. 68-04440



Report Date: 8/12/2009
Client Project ID: 909132
York Project No.: 09080212

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 08/06/09. The project was identified as your project "909132".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			G-2-1-080409		G-2-2-080409	
York Sample ID			09080212-01		09080212-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	246	11.9	54.3	11.9
Total Solids	SM 2540B	%	84.1	1.0	84.2	1.0

Client Sample ID			G-2-1, 2-080409	
York Sample ID			09080212-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Metals, NJ Target List	SW846-6010	mg/kg	---	---
Aluminum			7420	1.17
Antimony			Not detected	1.17
Arsenic			3.92	1.17
Barium			87.9	1.17
Beryllium			Not detected	0.583
Cadmium			Not detected	0.583
Chromium			20.6	1.17
Cobalt			7.97	1.17

YORK

Client Sample ID			G-2-1, 2-080409	
York Sample ID			09080212-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Copper			27.4	1.17
Lead			72.3	1.17
Manganese			329	1.17
Nickel			22.0	1.17
Selenium			Not detected	1.17
Silver			Not detected	1.17
Thallium			Not detected	1.17
Vanadium			27.7	2.33
Zinc			56.0	2.33
Mercury	SW846-7471	mg/kg	0.120	0.117
Pesticides, NJ Target List	SW846-3550B/8081	ug/Kg	---	---
4,4'-DDD			Not detected	18.6
4,4'-DDE			Not detected	18.6
4,4'-DDT			Not detected	18.6
Aldrin			Not detected	9.28
alpha Chlordane			Not detected	9.28
alpha-HCH (alpha-BHC)			Not detected	9.28
beta-HCH (beta-BHC)			Not detected	9.28
Dieldrin			Not detected	3.83
Endosulfan I			Not detected	9.28
Endosulfan II			Not detected	18.6
Endosulfan sulfate			Not detected	18.6
Endrin			Not detected	18.6
gamma Chlordane			Not detected	9.28
Heptachlor			Not detected	9.28
Heptachlor epoxide			Not detected	9.28
Lindane (gamma-BHC)			Not detected	9.28
Methoxychlor			Not detected	92.8
Toxaphene			Not detected	116
BNA, NJ target List	SW846-8270C	ug/Kg	---	---
1,1'-Biphenyl			Not detected	190
1,2,4-Trichlorobenzene			Not detected	190
1,2-Diphenylhydrazine			Not detected	190
2,4,5-Trichlorophenol			Not detected	190
2,4,6-Trichlorophenol			Not detected	190
2,4-Dichlorophenol			Not detected	190
2,4-Dimethyl phenol			Not detected	190
2,4-Dinitrophenol			Not detected	190
2,4-Dinitrotoluene			Not detected	190
2,6-Dinitrotoluene			Not detected	190
2-Chlorophenol			Not detected	190
2-Methylnaphthalene			Not detected	190
2-Methylphenol			Not detected	190
2-Nitroaniline			Not detected	190
3,3'-Dichlorobenzidine			Not detected	190
4,6-Dinitro-2-methylphenol			Not detected	190
4-Methylphenol			Not detected	190
Acenaphthene			Not detected	190
Acenaphthylene			Not detected	190
Acetophenone			Not detected	190
Anthracene			Not detected	190

YORK

Client Sample ID			G-2-1, 2-080409	
York Sample ID			09080212-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Atrazine			Not detected	190
Benzaldehyde			Not detected	190
Benzo(a)anthracene			Not detected	190
Benzo(a)pyrene			Not detected	190
Benzo(b)fluoranthene			Not detected	190
Benzo(ghi)perylene			Not detected	190
Benzo(k)fluoranthene			Not detected	190
Bis(2-chloroethyl)ether			Not detected	190
Bis(2-chloroisopropyl)ether			Not detected	190
Bis(2-ethylhexyl)phthalate			Not detected	190
Butyl benzyl phthalate			Not detected	190
Caprolactam			Not detected	190
Carbazole			Not detected	190
Chrysene			Not detected	190
Dibenz(a,h)anthracene			Not detected	190
Diethyl phthalate			Not detected	190
Di-n-butyl phthalate			Not detected	190
Di-n-octyl phthalate			Not detected	190
Fluoranthene			Not detected	190
Fluorene			Not detected	190
Hexachloro-1,3-butadiene			Not detected	190
Hexachlorobenzene			Not detected	190
Hexachlorocyclopentadiene			Not detected	190
Hexachloroethane			Not detected	190
Indeno(1,2,3-cd)pyrene			Not detected	190
Isophorone			Not detected	190
Naphthalene			Not detected	190
Nitrobenzene			Not detected	190
N-Nitrosodimethylamine			Not detected	190
N-Nitrosodi-n-propylamine			Not detected	190
N-Nitrosodiphenylamine			Not detected	190
Pentachlorophenol			Not detected	190
Phenanthrene			Not detected	190
Phenol			Not detected	190
Pyrene			Not detected	190
Volatiles, NJ Target List	SW846-8260	ug/kg	---	---
1,1,1-Trichloroethane			Not detected	5
1,1,2,2-Tetrachloroethane			Not detected	5
1,1,2-Trichloroethane			Not detected	5
1,1-Dichloroethane			Not detected	5
1,1-Dichloroethene			Not detected	5
1,2-Dibromo-3-chloropropane			Not detected	5
1,2-Dibromoethane			Not detected	5
1,2-Dichlorobenzene			Not detected	5
1,2-Dichloroethane			Not detected	5
1,2-Dichloropropane			Not detected	5
1,3-Dichlorobenzene			Not detected	5
1,4-Dichlorobenzene			Not detected	5
Acetone			Not detected	10
Acrolein			Not detected	1000

YORK

Client Sample ID			G-2-1, 2-080409	
York Sample ID			09080212-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Acrylonitrile			Not detected	5
Benzene			Not detected	5
Bromodichloromethane			Not detected	5
Bromoform			Not detected	5
Bromomethane			Not detected	5
Butanone			Not detected	5
Carbon disulfide			Not detected	5
Carbon tetrachloride			Not detected	5
Chlorobenzene			Not detected	5
Chloroethane			Not detected	5
Chloroform			Not detected	5
Chloromethane			Not detected	5
cis-1,2-Dichloroethene			Not detected	5
cis-1,3-Dichloropropene			Not detected	5
Dibromochloromethane			Not detected	5
Dichlorodifluoromethane			Not detected	5
Ethyl benzene			Not detected	5
Methyl acetate			Not detected	5
Methyl tert-butyl ether (MTBE)			Not detected	5
Methylene chloride			Not detected	10
Styrene			Not detected	5
Tertiary butyl alcohol (TBA)			Not detected	1000
Tetrachloroethene			Not detected	5
Toluene			Not detected	5
trans-1,2-Dichloroethene			Not detected	5
trans-1,3-Dichloropropene			Not detected	5
Trichloroethene			Not detected	5
Trichlorofluoromethane			Not detected	5
Vinyl chloride			Not detected	5
Xylenes, total			Not detected	10
PCB	SW846-3550B/8082	mg/Kg	---	---
PCB 1016			Not detected	0.0197
PCB 1221			Not detected	0.0197
PCB 1232			Not detected	0.0197
PCB 1242			Not detected	0.0197
PCB 1248			Not detected	0.0197
PCB 1254			Not detected	0.0197
PCB 1260			0.02	0.0197
TCLP Metals, RCRA List	SW846-1311/6010	mg/L	---	---
TCLP Arsenic			Not detected	0.010
TCLP Barium			1.13	0.010
TCLP Cadmium			Not detected	0.005
TCLP Chromium			Not detected	0.005
TCLP Lead			0.084	0.005
TCLP Selenium			Not detected	0.010
TCLP Silver			Not detected	0.005
TCLP Mercury	SW846-1311/7470	mg/L	Not detected	0.0005

YORK

Client Sample ID			G-2-1, 2-080409	
York Sample ID			09080212-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.16
Hexavalent Chromium	SW846-7196A	mg/kg	Not detected	0.58
TCLP Copper	SW846-6010	mg/L	0.059	0.005
TCLP Nickel	SW846-6010	mg/L	0.032	0.005
TCLP Zinc	SW846-6010	mg/L	0.704	0.005
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	148	11.6
Total Solids	SM 2540B	%	85.8	1.0

Client Sample ID			G-2-3-080409		G-2-4-080409	
York Sample ID			09080212-04		09080212-05	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	Not detected	11.7	365	11.2
Total Solids	SM 2540B	%	85.4	1.0	89.3	1.0

Client Sample ID			G-2-5-080409	
York Sample ID			09080212-06	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	429	11.5
Total Solids	SM 2540B	%	86.9	1.0

Client Sample ID			G-2-3, 4, 5-080409	
York Sample ID			09080212-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Metals, NJ Target List	SW846-6010	mg/kg	---	---
Aluminum			8920	1.15
Antimony			Not detected	1.15
Arsenic			4.45	1.15
Barium			117	1.15
Beryllium			Not detected	0.575
Cadmium			Not detected	0.575
Chromium			26.4	1.15
Cobalt			9.90	1.15
Copper			47.4	1.15
Lead			138	1.15
Manganese			425	1.15
Nickel			23.4	1.15
Selenium			Not detected	1.15
Silver			Not detected	1.15
Thallium			Not detected	1.15
Vanadium			49.0	2.30
Zinc			89.3	2.30
Mercury	SW846-7471	mg/kG	Not detected	0.115

YORK

Client Sample ID			G-2-3, 4, 5-080409	
York Sample ID			09080212-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Pesticides, NJ Target List	SW846-3550B/8081	ug/Kg	---	---
4,4'-DDD			Not detected	18.4
4,4'-DDE			Not detected	18.4
4,4'-DDT			Not detected	18.4
Aldrin			Not detected	9.20
alpha Chlordane			Not detected	9.20
alpha-HCH (alpha-BHC)			Not detected	9.20
beta-HCH (beta-BHC)			Not detected	9.20
Dieldrin			Not detected	3.80
Endosulfan I			Not detected	9.20
Endosulfan II			Not detected	18.4
Endosulfan sulfate			Not detected	18.4
Endrin			Not detected	18.4
gamma Chlordane			Not detected	9.20
Heptachlor			Not detected	9.20
Heptachlor epoxide			Not detected	9.20
Lindane (gamma-BHC)			Not detected	9.20
Methoxychlor			Not detected	92.0
Toxaphene			Not detected	115
BNA, NJ target List	SW846-8270C	ug/Kg	---	---
1,1'-Biphenyl			Not detected	190
1,2,4-Trichlorobenzene			Not detected	190
1,2-Diphenylhydrazine			Not detected	190
2,4,5-Trichlorophenol			Not detected	190
2,4,6-Trichlorophenol			Not detected	190
2,4-Dichlorophenol			Not detected	190
2,4-Dimethyl phenol			Not detected	190
2,4-Dinitrophenol			Not detected	190
2,4-Dinitrotoluene			Not detected	190
2,6-Dinitrotoluene			Not detected	190
2-Chlorophenol			Not detected	190
2-Methylnaphthalene			Not detected	190
2-Methylphenol			Not detected	190
2-Nitroaniline			Not detected	190
3,3'-Dichlorobenzidine			Not detected	190
4,6-Dinitro-2-methylphenol			Not detected	190
4-Methylphenol			Not detected	190
Acenaphthene			Not detected	190
Acenaphthylene			Not detected	190
Acetophenone			Not detected	190
Anthracene			Not detected	190
Atrazine			Not detected	190
Benzaldehyde			Not detected	190
Benzidine			Not detected	190
Benzo(a)anthracene			440	190
Benzo(a)pyrene			190	190
Benzo(b)fluoranthene			Not detected	190
Benzo(ghi)perylene			Not detected	190
Benzo(k)fluoranthene			250	190
Bis(2-chloroethyl)ether			Not detected	190
Bis(2-chloroisopropyl)ether			Not detected	190

YORK

Client Sample ID			G-2-3, 4, 5-080409	
York Sample ID			09080212-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Bis(2-ethylhexyl)phthalate			Not detected	190
Butyl benzyl phthalate			Not detected	190
Caprolactam			Not detected	190
Carbazole			Not detected	190
Chrysene			350	190
Dibenz(a,h)anthracene			Not detected	190
Diethyl phthalate			Not detected	190
Di-n-butyl phthalate			Not detected	190
Di-n-octyl phthalate			Not detected	190
Fluoranthene			770	190
Fluorene			Not detected	190
Hexachloro-1,3-butadiene			Not detected	190
Hexachlorobenzene			Not detected	190
Hexachlorocyclopentadiene			Not detected	190
Hexachloroethane			Not detected	190
Indeno(1,2,3-cd)pyrene			Not detected	190
Isophorone			Not detected	190
Naphthalene			Not detected	190
Nitrobenzene			Not detected	190
N-Nitrosodimethylamine			Not detected	190
N-Nitrosodi-n-propylamine			Not detected	190
N-Nitrosodiphenylamine			Not detected	190
Pentachlorophenol			Not detected	190
Phenanthrene			770	190
Phenol			Not detected	190
Pyrene			710	190
Volatiles, NJ Target List	SW846-8260	ug/kg	---	---
1,1,1-Trichloroethane			Not detected	5
1,1,2,2-Tetrachloroethane			Not detected	5
1,1,2-Trichloroethane			Not detected	5
1,1-Dichloroethane			Not detected	5
1,1-Dichloroethene			Not detected	5
1,2-Dibromo-3-chloropropane			Not detected	5
1,2-Dibromoethane			Not detected	5
1,2-Dichlorobenzene			Not detected	5
1,2-Dichloroethane			Not detected	5
1,2-Dichloropropane			Not detected	5
1,3-Dichlorobenzene			Not detected	5
1,4-Dichlorobenzene			Not detected	5
Acetone			Not detected	10
Acrolein			Not detected	1000
Acrylonitrile			Not detected	5
Benzene			Not detected	5
Bromodichloromethane			Not detected	5
Bromoform			Not detected	5
Bromomethane			Not detected	5
Butanone			Not detected	5
Carbon disulfide			Not detected	5
Carbon tetrachloride			Not detected	5
Chlorobenzene			Not detected	5
Chloroethane			Not detected	5

YORK

Client Sample ID			G-2-3, 4, 5-080409	
York Sample ID			09080212-07	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Chloroform			Not detected	5
Chloromethane			Not detected	5
cis-1,2-Dichloroethene			Not detected	5
cis-1,3-Dichloropropene			Not detected	5
Dibromochloromethane			Not detected	5
Dichlorodifluoromethane			Not detected	5
Ethyl benzene			Not detected	5
Methyl acetate			Not detected	5
Methyl tert-butyl ether (MTBE)			Not detected	5
Methylene chloride			Not detected	10
Styrene			Not detected	5
Tertiary butyl alcohol (TBA)			Not detected	1000
Tetrachloroethene			Not detected	5
Toluene			Not detected	5
trans-1,2-Dichloroethene			Not detected	5
trans-1,3-Dichloropropene			Not detected	5
Trichloroethene			Not detected	5
Trichlorofluoromethane			Not detected	5
Vinyl chloride			Not detected	5
Xylenes, total			Not detected	10
PCB	SW846-3550B/8082	mg/Kg	---	---
PCB 1016			Not detected	0.0195
PCB 1221			Not detected	0.0195
PCB 1232			Not detected	0.0195
PCB 1242			Not detected	0.0195
PCB 1248			Not detected	0.0195
PCB 1254			0.02	0.0195
PCB 1260			Not detected	0.0195
TCLP Metals, RCRA List	SW846-1311/6010	mg/L	---	---
TCLP Arsenic			Not detected	0.010
TCLP Barium			1.29	0.010
TCLP Cadmium			Not detected	0.005
TCLP Chromium			Not detected	0.005
TCLP Lead			0.169	0.005
TCLP Selenium			Not detected	0.010
TCLP Silver			Not detected	0.005
TCLP Mercury	SW846-1311/7470	mg/L	Not detected	0.0005
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.15
Hexavalent Chromium	SW846-7196A	mg/kg	Not detected	0.57
TCLP Copper	SW846-6010	mg/L	0.019	0.005
TCLP Nickel	SW846-6010	mg/L	0.034	0.005
TCLP Zinc	SW846-6010	mg/L	0.788	0.005
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	200	11.5
Total Solids	SM 2540B	%	87.0	1.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb

For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

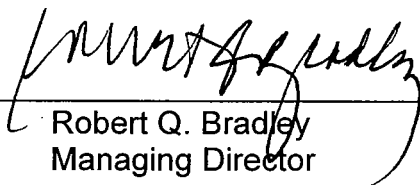
YORK

Report Date: 8/12/2009
Client Project ID: 909132
York Project No.: 09080212

Notes for York Project No. 09080212

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____


Robert Q. Bradley
Managing Director

Date: 8/12/2009

YORK

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. _____

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[illegible]

b3/b7c	8/6/09	2:40pm
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YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Report Date: 8/13/2009
Re: Client Project ID: 909132
York Project No.: 09080257

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854

PA Reg. 68-04440



Report Date: 8/13/2009
Client Project ID: 909132
York Project No.: 09080257

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 08/07/09. The project was identified as your project "909132".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			G-3-3a-080609		G-3-3-080609	
York Sample ID			09080257-01		09080257-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	136	13.8	37.0	11.8
Total Solids	SM 2540B	%	72.3	1.0	84.8	1.0

Client Sample ID			G-3-4a-080609		G-3-4-080609	
York Sample ID			09080257-03		09080257-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	66.6	11.2	105	11.5
Total Solids	SM 2540B	%	89.3	1.0	87.0	1.0

YORK

Client Sample ID			G-3-3-4-080609	
York Sample ID			09080257-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Metals, NJ Target List	SW846-6010	mg/kg	---	---
Aluminum			7130	1.19
Antimony			Not detected	1.19
Arsenic			7.52	1.19
Barium			111	1.19
Beryllium			Not detected	0.595
Cadmium			Not detected	0.595
Chromium			22.1	1.19
Cobalt			8.94	1.19
Copper			46.8	1.19
Lead			139	1.19
Manganese			361	1.19
Nickel			24.3	1.19
Selenium			Not detected	1.19
Silver			Not detected	1.19
Thallium			Not detected	1.19
Vanadium			28.7	2.38
Zinc			125	2.38
Mercury	SW846-7471	mg/kG	Not detected	0.119
Pesticides, NJ Target List	SW846-3550B/8081	ug/Kg	---	---
4,4'-DDD			Not detected	19.0
4,4'-DDE			Not detected	19.0
4,4'-DDT			83.8	19.0
Aldrin			Not detected	9.52
alpha Chlordane			Not detected	9.52
alpha-HCH (alpha-BHC)			Not detected	9.52
beta-HCH (beta-BHC)			Not detected	9.52
Dieldrin			Not detected	3.93
Endosulfan I			Not detected	9.52
Endosulfan II			Not detected	19.0
Endosulfan sulfate			Not detected	19.0
Endrin			Not detected	19.0
gamma Chlordane			Not detected	9.52
Heptachlor			Not detected	9.52
Heptachlor epoxide			Not detected	9.52
Lindane (gamma-BHC)			Not detected	9.52
Methoxychlor			Not detected	95.2
Toxaphene			Not detected	119
BNA, NJ target List	SW846-8270C	ug/Kg	---	---
1,1'-Biphenyl			Not detected	200
1,2,4-Trichlorobenzene			Not detected	200
1,2-Diphenylhydrazine			Not detected	200
2,4,5-Trichlorophenol			Not detected	200
2,4,6-Trichlorophenol			Not detected	200
2,4-Dichlorophenol			Not detected	200
2,4-Dimethyl phenol			Not detected	200
2,4-Dinitrophenol			Not detected	200
2,4-Dinitrotoluene			Not detected	200
2,6-Dinitrotoluene			Not detected	200
2-Chlorophenol			Not detected	200

YORK

Client Sample ID			G-3-3-4-080609	
York Sample ID			09080257-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
2-Methylnaphthalene			Not detected	200
2-Methylphenol			Not detected	200
2-Nitroaniline			Not detected	200
3,3'-Dichlorobenzidine			Not detected	200
4,6-Dinitro-2-methylphenol			Not detected	200
4-Methylphenol			Not detected	200
Acenaphthene			Not detected	200
Acenaphthylene			Not detected	200
Acetophenone			Not detected	200
Anthracene			270	200
Atrazine			Not detected	200
Benzaldehyde			Not detected	200
Benzidine			Not detected	200
Benzo(a)anthracene			940	200
Benzo(a)pyrene			880	200
Benzo(b)fluoranthene			800	200
Benzo(ghi)perylene			Not detected	200
Benzo(k)fluoranthene			710	200
Bis(2-chloroethyl)ether			Not detected	200
Bis(2-chloroisopropyl)ether			Not detected	200
Bis(2-ethylhexyl)phthalate			Not detected	200
Butyl benzyl phthalate			Not detected	200
Caprolactam			Not detected	200
Carbazole			Not detected	200
Chrysene			810	200
Dibenz(a,h)anthracene			Not detected	200
Diethyl phthalate			Not detected	200
Di-n-butyl phthalate			Not detected	200
Di-n-octyl phthalate			Not detected	200
Fluoranthene			1600	200
Fluorene			Not detected	200
Hexachloro-1,3-butadiene			Not detected	200
Hexachlorobenzene			Not detected	200
Hexachlorocyclopentadiene			Not detected	200
Hexachloroethane			Not detected	200
Indeno(1,2,3-cd)pyrene			Not detected	200
Isophorone			Not detected	200
Naphthalene			Not detected	200
Nitrobenzene			Not detected	200
N-Nitrosodimethylamine			Not detected	200
N-Nitrosodi-n-propylamine			Not detected	200
N-Nitrosodiphenylamine			Not detected	200
Pentachlorophenol			Not detected	200
Phenanthrene			1700	200
Phenol			Not detected	200
Pyrene			1400	200
Volatiles, NJ Target List	SW846-8260	ug/kg	---	---
1,1,1-Trichloroethane			Not detected	5.95
1,1,2,2-Tetrachloroethane			Not detected	5.95
1,1,2-Trichloroethane			Not detected	5.95
1,1-Dichloroethane			Not detected	5.95

YORK

Client Sample ID			G-3-3-4-080609	
York Sample ID			09080257-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
1,1-Dichloroethene			Not detected	5.95
1,2-Dibromo-3-chloropropane			Not detected	5.95
1,2-Dibromoethane			Not detected	5.95
1,2-Dichlorobenzene			Not detected	5.95
1,2-Dichloroethane			Not detected	5.95
1,2-Dichloropropane			Not detected	5.95
1,3-Dichlorobenzene			Not detected	5.95
1,4-Dichlorobenzene			Not detected	5.95
Acetone			Not detected	11.9
Acrolein			Not detected	1190
Acrylonitrile			Not detected	5.95
Benzene			Not detected	5.95
Bromodichloromethane			Not detected	5.95
Bromoform			Not detected	5.95
Bromomethane			Not detected	5.95
Butanone			Not detected	5.95
Carbon disulfide			Not detected	5.95
Carbon tetrachloride			Not detected	5.95
Chlorobenzene			Not detected	5.95
Chloroethane			Not detected	5.95
Chloroform			Not detected	5.95
Chloromethane			Not detected	5.95
cis-1,2-Dichloroethene			Not detected	5.95
cis-1,3-Dichloropropene			Not detected	5.95
Dibromochloromethane			Not detected	5.95
Dichlorodifluoromethane			Not detected	5.95
Ethyl benzene			Not detected	5.95
Methyl acetate			Not detected	5.95
Methyl tert-butyl ether (MTBE)			Not detected	5.95
Methylene chloride			Not detected	11.9
Styrene			Not detected	5.95
Tertiary butyl alcohol (TBA)			Not detected	1190
Tetrachloroethene			Not detected	5.95
Toluene			Not detected	5.95
trans-1,2-Dichloroethene			Not detected	5.95
trans-1,3-Dichloropropene			Not detected	5.95
Trichloroethene			Not detected	5.95
Trichlorofluoromethane			Not detected	5.95
Vinyl chloride			Not detected	5.95
Xylenes, total			Not detected	11.9
PCB	SW846-3550B/8082	mg/Kg	---	---
PCB 1016			Not detected	0.0202
PCB 1221			Not detected	0.0202
PCB 1232			Not detected	0.0202
PCB 1242			Not detected	0.0202
PCB 1248			Not detected	0.0202
PCB 1254			Not detected	0.0202
PCB 1260			0.04	0.0202

YORK

Client Sample ID			G-3-3-4-080609	
York Sample ID			09080257-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
TCLP Metals, RCRA List	SW846-1311/6010	mg/L	---	---
TCLP Arsenic			Not detected	0.010
TCLP Barium			0.515	0.010
TCLP Cadmium			Not detected	0.005
TCLP Chromium			Not detected	0.005
TCLP Lead			0.067	0.005
TCLP Selenium			Not detected	0.010
TCLP Silver			Not detected	0.005
TCLP Mercury	SW846-1311/7470	mg/L	Not detected	0.0005
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.19
Hexavalent Chromium	SW846-7196A	mg/kg	Not detected	0.60
TCLP Copper	SW846-6010	mg/L	0.018	0.005
TCLP Nickel	SW846-6010	mg/L	0.030	0.005
TCLP Zinc	SW846-6010	mg/L	0.809	0.005
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	118	11.9
Total Solids	SM 2540B	%	84.0	1.0

Client Sample ID			G-3-1a-080609	
York Sample ID			09080257-06	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	113	11.6
Total Solids	SM 2540B	%	86.2	1.0

Client Sample ID			G-3-1-080609		G-3-2a-080609	
York Sample ID			09080257-07		09080257-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	105	11.9	129	12.7
Total Solids	SM 2540B	%	84.3	1.0	78.9	1.0

Client Sample ID			G-3-2-080609		G-3-5a-080609	
York Sample ID			09080257-09		09080257-10	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	114	12.3	211	11.9
Total Solids	SM 2540B	%	81.0	1.0	83.9	1.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb

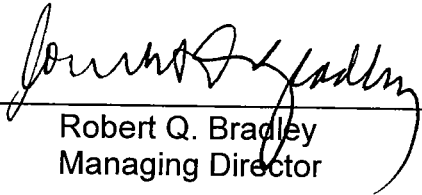
For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

YORK

Notes for York Project No. 09080257

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By:


Robert Q. Bradley
Managing Director

Date: 8/13/2009

YORK

Page 1 of 2

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written acknowledgment of the above information.

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
document serves as your written authorization to York to proceed with the analyses requested and your
signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 09680257

[illegible]

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Report Date: 8/17/2009
Re: Client Project ID: 909132
York Project No.: 09080413

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854

PA Reg. 68-04440



Report Date: 8/17/2009
Client Project ID: 909132
York Project No.: 09080413

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 08/11/09. The project was identified as your project "909132".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on a Dry-weight basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			G-1-1a-081009		G-1-2a-081009	
York Sample ID			09080413-01		09080413-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	108	11.4	88.6	11.3
Total Solids	SM 2540B	%	87.3	1.0	88.6	1.0

Client Sample ID			G-1-3a-081009		G-1-4a-081009	
York Sample ID			09080413-03		09080413-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	118	11.4	174	12.2
Total Solids	SM 2540B	%	87.7	1.0	81.7	1.0

Client Sample ID			G-1-5a-081009		G-2-1a-081009	
York Sample ID			09080413-05		09080413-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	123	11.4	109	11.5

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Client Sample ID			G-1-5a-081009		G-2-1a-081009	
York Sample ID			09080413-05		09080413-06	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Solids	SM 2540B	%	87.6	1.0	87.0	1.0

Client Sample ID			G-2-2a-081009		G-2-3a-081009	
York Sample ID			09080413-07		09080413-08	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	175	11.1	125	11.5
Total Solids	SM 2540B	%	89.9	1.0	87.0	1.0

Client Sample ID			G-2-4a-081009		G-2-5a-081009	
York Sample ID			09080413-09		09080413-10	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	92.4	11.4	95.8	11.2
Total Solids	SM 2540B	%	87.8	1.0	88.9	1.0

Client Sample ID			G-4-1a-081009		G-4-1-081009	
York Sample ID			09080413-11		09080413-12	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	199	11.3	19.2	11.5
Total Solids	SM 2540B	%	88.7	1.0	86.7	1.0

Client Sample ID			G-4-3a-081009		G-4-3-081009	
York Sample ID			09080413-13		09080413-14	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	543	11.5	150	11.9
Total Solids	SM 2540B	%	87.0	1.0	83.9	1.0

Client Sample ID			G-4-1, 3-081009	
York Sample ID			09080413-15	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Metals, NJ Target List	SW846-6010	mg/kg	---	---
Aluminum			7570	1.14
Antimony			Not detected	1.14
Arsenic			5.90	1.14
Barium			124	1.14
Beryllium			Not detected	0.570
Cadmium			Not detected	0.570
Chromium			23.5	1.14
Cobalt			8.39	1.14
Copper			46.4	1.14
Lead			148	1.14

YORK

Client Sample ID			G-4-1, 3-081009	
York Sample ID			09080413-15	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Manganese			365	1.14
Nickel			18.8	1.14
Selenium			Not detected	1.14
Silver			Not detected	1.14
Thallium			Not detected	1.14
Vanadium			31.2	2.28
Zinc			137	2.28
Mercury	SW846-7471	mg/kG	Not detected	0.114
Pesticides, NJ Target List	SW846-3550B/8081	ug/Kg	---	---
4,4'-DDD			Not detected	18.2
4,4'-DDE			Not detected	18.2
4,4'-DDT			Not detected	18.2
Aldrin			Not detected	9.12
alpha Chlordane			Not detected	9.12
alpha-HCH (alpha-BHC)			Not detected	9.12
beta-HCH (beta-BHC)			Not detected	9.12
Dieldrin			Not detected	3.76
Endosulfan I			Not detected	9.12
Endosulfan II			Not detected	18.2
Endosulfan sulfate			Not detected	18.2
Endrin			Not detected	18.2
gamma Chlordane			Not detected	9.12
Heptachlor			Not detected	9.12
Heptachlor epoxide			Not detected	9.12
Lindane (gamma-BHC)			Not detected	9.12
Methoxychlor			Not detected	91.2
Toxaphene			Not detected	114
BNA, NJ target List	SW846-8270C	ug/Kg	---	---
1,1'-Biphenyl			Not detected	190
1,2,4-Trichlorobenzene			Not detected	190
1,2-Diphenylhydrazine			Not detected	190
2,4,5-Trichlorophenol			Not detected	190
2,4,6-Trichlorophenol			Not detected	190
2,4-Dichlorophenol			Not detected	190
2,4-Dimethyl phenol			Not detected	190
2,4-Dinitrophenol			Not detected	190
2,4-Dinitrotoluene			Not detected	190
2,6-Dinitrotoluene			Not detected	190
2-Chlorophenol			Not detected	190
2-Methylnaphthalene			Not detected	190
2-Methylphenol			Not detected	190
2-Nitroaniline			Not detected	190
3,3'-Dichlorobenzidine			Not detected	190
4,6-Dinitro-2-methylphenol			Not detected	190
4-Methylphenol			Not detected	190
Acenaphthene			Not detected	190
Acenaphthylene			350	190
Acetophenone			Not detected	190
Anthracene			200	190
Atrazine			Not detected	190
Benzaldehyde			Not detected	190

YORK

Client Sample ID			G-4-1, 3-081009	
York Sample ID			09080413-15	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Benzidine			Not detected	190
Benzo(a)anthracene			990	190
Benzo(a)pyrene			630	190
Benzo(b)fluoranthene			290	190
Benzo(ghi)perylene			Not detected	190
Benzo(k)fluoranthene			360	190
Bis(2-chloroethyl)ether			Not detected	190
Bis(2-chloroisopropyl)ether			Not detected	190
Bis(2-ethylhexyl)phthalate			Not detected	190
Butyl benzyl phthalate			Not detected	190
Caprolactam			Not detected	190
Carbazole			Not detected	190
Chrysene			880	190
Dibenz(a,h)anthracene			Not detected	190
Diethyl phthalate			Not detected	190
Di-n-butyl phthalate			Not detected	190
Di-n-octyl phthalate			Not detected	190
Fluoranthene			1600	190
Fluorene			190	190
Hexachloro-1,3-butadiene			Not detected	190
Hexachlorobenzene			Not detected	190
Hexachlorocyclopentadiene			Not detected	190
Hexachloroethane			Not detected	190
Indeno(1,2,3-cd)pyrene			Not detected	190
Isophorone			Not detected	190
Naphthalene			Not detected	190
Nitrobenzene			Not detected	190
N-Nitrosodimethylamine			Not detected	190
N-Nitrosodi-n-propylamine			Not detected	190
N-Nitrosodiphenylamine			Not detected	190
Pentachlorophenol			Not detected	190
Phenanthrene			700	190
Phenol			Not detected	190
Pyrene			1400	190
Volatiles, NJ Target List	SW846-8260	ug/kg	---	---
1,1,1-Trichloroethane			Not detected	5.70
1,1,2,2-Tetrachloroethane			Not detected	5.70
1,1,2-Trichloroethane			Not detected	5.70
1,1-Dichloroethane			Not detected	5.70
1,1-Dichloroethene			Not detected	5.70
1,2-Dibromo-3-chloropropane			Not detected	5.70
1,2-Dibromoethane			Not detected	5.70
1,2-Dichlorobenzene			Not detected	5.70
1,2-Dichloroethane			Not detected	5.70
1,2-Dichloropropane			Not detected	5.70
1,3-Dichlorobenzene			Not detected	5.70
1,4-Dichlorobenzene			Not detected	5.70
Acetone			Not detected	11.4
Acrolein			Not detected	1140
Acrylonitrile			Not detected	5.70
Benzene			Not detected	5.70

YORK

Client Sample ID			G-4-1, 3-081009	
York Sample ID			09080413-15	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Bromodichloromethane			Not detected	5.70
Bromoform			Not detected	5.70
Bromomethane			Not detected	5.70
Butanone			Not detected	5.70
Carbon disulfide			Not detected	5.70
Carbon tetrachloride			Not detected	5.70
Chlorobenzene			Not detected	5.70
Chloroethane			Not detected	5.70
Chloroform			Not detected	5.70
Chloromethane			Not detected	5.70
cis-1,2-Dichloroethene			Not detected	5.70
cis-1,3-Dichloropropene			Not detected	5.70
Dibromochloromethane			Not detected	5.70
Dichlorodifluoromethane			Not detected	5.70
Ethyl benzene			Not detected	5.70
Methyl acetate			Not detected	5.70
Methyl tert-butyl ether (MTBE)			6	5.70
Methylene chloride			Not detected	11.4
Styrene			Not detected	5.70
Tertiary butyl alcohol (TBA)			Not detected	1140
Tetrachloroethene			Not detected	5.70
Toluene			12	5.70
trans-1,2-Dichloroethene			Not detected	5.70
trans-1,3-Dichloropropene			Not detected	5.70
Trichloroethene			Not detected	5.70
Trichlorofluoromethane			Not detected	5.70
Vinyl chloride			Not detected	5.70
Xylenes, total			Not detected	11.4
PCB	SW846-3550B/8082	mg/Kg	---	---
PCB 1016			Not detected	0.0194
PCB 1221			Not detected	0.0194
PCB 1232			Not detected	0.0194
PCB 1242			Not detected	0.0194
PCB 1248			Not detected	0.0194
PCB 1254			Not detected	0.0194
PCB 1260			Not detected	0.0194
TCLP Metals, RCRA List	SW846-1311/6010	mg/L	---	---
TCLP Arsenic			Not detected	0.010
TCLP Barium			0.909	0.010
TCLP Cadmium			Not detected	0.005
TCLP Chromium			0.005	0.005
TCLP Lead			0.155	0.005
TCLP Selenium			Not detected	0.010
TCLP Silver			Not detected	0.005
TCLP Mercury	SW846-1311/7470	mg/L	Not detected	0.0005
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.00

YORK

Client Sample ID			G-4-1, 3-081009	
York Sample ID			09080413-15	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Hexavalent Chromium	SW846-7196A	mg/kg	Not detected	0.50
TCLP Copper	SW846-6010	mg/L	0.038	0.005
TCLP Nickel	SW846-6010	mg/L	0.056	0.005
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	103	11.4
Total Solids	SM 2540B	%	87.8	1.0
TCLP Zinc	SW846-6010	mg/L	1.70	0.005

Client Sample ID			G-6-1a-081009		G-6-2a-081009	
York Sample ID			09080413-16		09080413-17	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	258	11.2	198	11.2
Total Solids	SM 2540B	%	89.1	1.0	89.3	1.0

Client Sample ID			G-6-3a-081009		G-6-4a-081009	
York Sample ID			09080413-18		09080413-19	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	519	11.1	425	11.5
Total Solids	SM 2540B	%	89.9	1.0	86.8	1.0

Client Sample ID			G-6-5a-081009		G-4-4a-081009	
York Sample ID			09080413-20		09080413-21	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	431	11.3	181	11.4
Total Solids	SM 2540B	%	88.2	1.0	87.6	1.0

Client Sample ID			G-4-4-081009		G-4-5a-081009	
York Sample ID			09080413-22		09080413-23	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	173	11.0	354	11.1
Total Solids	SM 2540B	%	90.6	1.0	89.9	1.0

Client Sample ID			G-4-5-081009		G-4-2a-081009	
York Sample ID			09080413-24		09080413-25	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	330	11.2	424	11.9
Total Solids	SM 2540B	%	89.2	1.0	83.9	1.0

YORK

Client Sample ID			G-4-2-081009	
York Sample ID			09080413-26	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	377	11.2
Total Solids	SM 2540B	%	89.1	1.0

Client Sample ID			G-4-2, 4, 5-081009	
York Sample ID			09080413-27	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Metals, NJ Target List	SW846-6010	mg/kg	---	---
Aluminum			7120	1.15
Antimony			Not detected	1.15
Arsenic			5.27	1.15
Barium			124	1.15
Beryllium			Not detected	0.576
Cadmium			Not detected	0.576
Chromium			20.8	1.15
Cobalt			8.48	1.15
Copper			48.4	1.15
Lead			171	1.15
Manganese			344	1.15
Nickel			18.4	1.15
Selenium			Not detected	1.15
Silver			Not detected	1.15
Thallium			Not detected	1.15
Vanadium			29.5	2.31
Zinc			112	2.31
Mercury	SW846-7471	mg/kg	Not detected	0.115
Pesticides, NJ Target List	SW846-3550B/8081	ug/Kg	---	---
4,4'-DDD			Not detected	18.4
4,4'-DDE			Not detected	18.4
4,4'-DDT			29.4	18.4
Aldrin			Not detected	9.20
alpha Chlordane			Not detected	9.20
alpha-HCH (alpha-BHC)			Not detected	9.20
beta-HCH (beta-BHC)			Not detected	9.20
Dieldrin			Not detected	3.80
Endosulfan I			Not detected	9.20
Endosulfan II			Not detected	18.4
Endosulfan sulfate			Not detected	18.4
Endrin			Not detected	18.4
gamma Chlordane			Not detected	9.20
Heptachlor			Not detected	9.20
Heptachlor epoxide			Not detected	9.20
Lindane (gamma-BHC)			Not detected	9.20
Methoxychlor			Not detected	92.0
Toxaphene			Not detected	115
BNA, NJ target List	SW846-8270C	ug/Kg	---	---
1,1'-Biphenyl			Not detected	190
1,2,4-Trichlorobenzene			Not detected	190
1,2-Diphenylhydrazine			Not detected	190

YORK

Client Sample ID			G-4-2, 4, 5-081009	
York Sample ID			09080413-27	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
2,4,5-Trichlorophenol			Not detected	190
2,4,6-Trichlorophenol			Not detected	190
2,4-Dichlorophenol			Not detected	190
2,4-Dimethyl phenol			Not detected	190
2,4-Dinitrophenol			Not detected	190
2,4-Dinitrotoluene			Not detected	190
2,6-Dinitrotoluene			Not detected	190
2-Chlorophenol			Not detected	190
2-Methylnaphthalene			Not detected	190
2-Methylphenol			Not detected	190
2-Nitroaniline			Not detected	190
3,3'-Dichlorobenzidine			Not detected	190
4,6-Dinitro-2-methylphenol			Not detected	190
4-Methylphenol			Not detected	190
Acenaphthene			Not detected	190
Acenaphthylene			320	190
Acetophenone			Not detected	190
Anthracene			260	190
Atrazine			Not detected	190
Benzaldehyde			Not detected	190
Benzidine			Not detected	190
Benzo(a)anthracene			910	190
Benzo(a)pyrene			530	190
Benzo(b)fluoranthene			430	190
Benzo(ghi)perylene			Not detected	190
Benzo(k)fluoranthene			740	190
Bis(2-chloroethyl)ether			Not detected	190
Bis(2-chloroisopropyl)ether			Not detected	190
Bis(2-ethylhexyl)phthalate			Not detected	190
Butyl benzyl phthalate			Not detected	190
Caprolactam			Not detected	190
Carbazole			Not detected	190
Chrysene			820	190
Dibenz(a,h)anthracene			Not detected	190
Diethyl phthalate			Not detected	190
Di-n-butyl phthalate			Not detected	190
Di-n-octyl phthalate			Not detected	190
Fluoranthene			1400	190
Fluorene			Not detected	190
Hexachloro-1,3-butadiene			Not detected	190
Hexachlorobenzene			Not detected	190
Hexachlorocyclopentadiene			Not detected	190
Hexachloroethane			Not detected	190
Indeno(1,2,3-cd)pyrene			Not detected	190
Isophorone			Not detected	190
Naphthalene			Not detected	190
Nitrobenzene			Not detected	190
N-Nitrosodimethylamine			Not detected	190
N-Nitrosodi-n-propylamine			Not detected	190
N-Nitrosodiphenylamine			Not detected	190
Pentachlorophenol			Not detected	190

YORK

Client Sample ID			G-4-2, 4, 5-081009	
York Sample ID			09080413-27	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Phenanthrene			970	190
Phenol			Not detected	190
Pyrene			1300	190
Volatiles, NJ Target List	SW846-8260	ug/kg	---	---
1,1,1-Trichloroethane			Not detected	5.75
1,1,2,2-Tetrachloroethane			Not detected	5.75
1,1,2-Trichloroethane			Not detected	5.75
1,1-Dichloroethane			Not detected	5.75
1,1-Dichloroethene			Not detected	5.75
1,2-Dibromo-3-chloropropane			Not detected	5.75
1,2-Dibromoethane			Not detected	5.75
1,2-Dichlorobenzene			Not detected	5.75
1,2-Dichloroethane			Not detected	5.75
1,2-Dichloropropane			Not detected	5.75
1,3-Dichlorobenzene			Not detected	5.75
1,4-Dichlorobenzene			Not detected	5.75
Acetone			Not detected	11.5
Acrolein			Not detected	1150
Acrylonitrile			Not detected	5.75
Benzene			Not detected	5.75
Bromodichloromethane			Not detected	5.75
Bromoform			Not detected	5.75
Bromomethane			Not detected	5.75
Butanone			Not detected	5.75
Carbon disulfide			Not detected	5.75
Carbon tetrachloride			Not detected	5.75
Chlorobenzene			Not detected	5.75
Chloroethane			Not detected	5.75
Chloroform			Not detected	5.75
Chloromethane			Not detected	5.75
cis-1,2-Dichloroethene			Not detected	5.75
cis-1,3-Dichloropropene			Not detected	5.75
Dibromochloromethane			Not detected	5.75
Dichlorodifluoromethane			Not detected	5.75
Ethyl benzene			Not detected	5.75
Methyl acetate			Not detected	5.75
Methyl tert-butyl ether (MTBE)			Not detected	5.75
Methylene chloride			Not detected	11.5
Styrene			Not detected	5.75
Tertiary butyl alcohol (TBA)			Not detected	1150
Tetrachloroethene			Not detected	5.75
Toluene			Not detected	5.75
trans-1,2-Dichloroethene			Not detected	5.75
trans-1,3-Dichloropropene			Not detected	5.75
Trichloroethene			Not detected	5.75
Trichlorofluoromethane			Not detected	5.75
Vinyl chloride			Not detected	5.75
Xylenes, total			Not detected	11.5

YORK

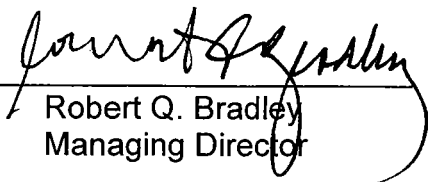
Client Sample ID			G-4-2, 4, 5-081009	
York Sample ID			09080413-27	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
PCB	SW846-3550B/8082	mg/Kg	---	---
PCB 1016			Not detected	0.0195
PCB 1221			Not detected	0.0195
PCB 1232			Not detected	0.0195
PCB 1242			Not detected	0.0195
PCB 1248			Not detected	0.0195
PCB 1254			Not detected	0.0195
PCB 1260			0.04	0.0195
TCLP Metals, RCRA List	SW846-1311/6010	mg/L	---	---
TCLP Arsenic			Not detected	0.010
TCLP Barium			0.869	0.010
TCLP Cadmium			Not detected	0.005
TCLP Chromium			Not detected	0.005
TCLP Lead			0.057	0.005
TCLP Selenium			Not detected	0.010
TCLP Silver			Not detected	0.005
TCLP Mercury	SW846-1311/7470	mg/L	Not detected	0.0005
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.00
Hexavalent Chromium	SW846-7196A	mg/kg	Not detected	0.50
TCLP Copper	SW846-6010	mg/L	0.024	0.005
TCLP Nickel	SW846-6010	mg/L	0.041	0.005
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	222	11.5
Total Solids	SM 2540B	%	86.7	1.0
TCLP Zinc	SW846-6010	mg/L	0.726	0.005

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 09080413

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____


Robert Q. Bradley
Managing Director

Date: 8/17/2009

YORK

YORK

ANALYTICAL LABORATORIES, INC.

120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of 3

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York Project No. 09080413

Client Information		Report To:		Invoice To:		Client Project ID		Turn-Around Time		Report Type/Deliverables			
HydroTech Environmental Corp Company: 1111 Fulton St Address: 2nd Floor, Brooklyn, NY 11238 Phone No: 718-636-0800 Contact Person: Timothy L. Cech E-Mail Address: tlo@hydrotech.com		Company: Same Address: Phone No: Attention: E-Mail Address:		Company: Same Address: Phone No: Attention: E-Mail Address:		909132 Purchase Order No. 3047		24 hr 48 hr 72 hr 5 Day Standard		Summary Results Only RCP Package ASP A Pkg Excel format EDD OTHER			
Matrix Codes S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		Volatiles 8260 full 624 STARS BTX MTBE TCL list TAGM CT RCP Arom. Halog. App. IX 8021B list		Semi-Vols. 8270 or 625 STARS BTX Acids Only PAH App. IX Site Spec. SPLP or TCLP TCLP list TCLP Herb Chlordane 608 Pest TCLP BNA		Metals RCRA8 PPI3 TAL CT15 Total Dissolved SPLP or TCLP Ind. Metals Hg, Pb, As, Cd Air VPH Air TICs Methane Se, Ti, Sb, Cu, Ni, Mn, Ag, etc. Helium		Full Lists Pri. Poll. TCL Ogrs TAL MetCN Full TCLP Full App. IX Part 360 Routine Part 360 Residue Part 360 Residue Part 360 Residue NYCDEP Sewer NYCDEP Sewer TACM		Miscellaneous Parameters Corrosivity Nitrate Nitrite TKN Tox Nitrogen Sieve Anal. Ammonia-N Chloride Phosphate TOX BUT/Lb. Aquatic Tox. Oil & Grease F.O.G. pH MBAS TPH-IR		Special Instructions Field Filtered Lab to Filter	
Choose Analyses Needed from the Menu Above and Enter Below													
Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below										
6-1-1a-081009	8/10/09	S	TPH DRO										
6-1-2a-081009													
6-2-3a-081009													
6-1-4a-081009													
6-1-5a-081009													
6-2-1a-081009													
6-2-2a-081009													
6-2-3a-081009													
6-2-4a-081009													
6-2-5a-081009													
Comments: Please send report to: [redacted]			Preservation: Check those Applicable: 4°C, Frozen, HCl, MeOH, HNO ₃ , 4°C, H ₂ SO ₄ , ZnAc, Ascorbic, NaOH, Other										
[redacted]			Samples Relinquished By: [redacted] Date/Time: 8/10/09 1600										
[redacted]			Samples Received By: [redacted] Date/Time: 8/10/09 1600										
[redacted]			Samples Relinquished By: [redacted] Date/Time: 8/11/09 2 PM										
[redacted]			Samples Received in LAB by: [redacted] Date/Time: 8/11/09										

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Field Chain-of-Custody Record

Page 2 of 3

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York Project No.

090804/13

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Page 3 of 3

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York Project No. 09080413

[illegible]

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

**Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo**

Report Date: 8/19/2009
Re: Client Project ID: 909132
York Project No.: 09080411

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854

PA Reg. 68-04440



Report Date: 8/19/2009
Client Project ID: 909132
York Project No.: 09080411

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 08/12/09. The project was identified as your project "909132".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			G-5-4a-081109		G-5-4-081109	
York Sample ID			09080411-01		09080411-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	435	12.4	334	13.4
Total Solids	SM 2540B	%	80.3	1.0	74.9	1.0

Client Sample ID			G-5-5a-081109		G-5-5-081109	
York Sample ID			09080411-03		09080411-04	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	507	13.2	436	11.6
Total Solids	SM 2540B	%	75.5	1.0	85.9	1.0

YORK

Client Sample ID			G-5-4, 5-081109	
York Sample ID			09080411-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Metals, NJ Target List	SW846-6010	mg/kg	---	---
Aluminum			6130	1.16
Antimony			1.51	1.16
Arsenic			5.67	1.16
Barium			104	1.16
Beryllium			Not detected	0.580
Cadmium			Not detected	0.580
Chromium			22.1	1.16
Cobalt			9.39	1.16
Copper			75.5	1.16
Lead			152	1.16
Manganese			305	1.16
Nickel			22.2	1.16
Selenium			Not detected	1.16
Silver			Not detected	1.16
Thallium			Not detected	1.16
Vanadium			25.9	2.32
Zinc			94.1	2.32
Mercury	SW846-7471	mg/kG	Not detected	0.116
Pesticides, NJ Target List	SW846-3550B/8081	ug/Kg	---	---
4,4'-DDD			Not detected	18.6
4,4'-DDE			Not detected	18.6
4,4'-DDT			Not detected	18.6
Aldrin			Not detected	9.28
alpha Chlordane			Not detected	9.28
alpha-HCH (alpha-BHC)			Not detected	9.28
beta-HCH (beta-BHC)			Not detected	9.28
Dieldrin			Not detected	3.83
Endosulfan I			Not detected	9.28
Endosulfan II			Not detected	18.6
Endosulfan sulfate			Not detected	18.6
Endrin			Not detected	18.6
gamma Chlordane			Not detected	9.28
Heptachlor			Not detected	9.28
Heptachlor epoxide			Not detected	9.28
Lindane (gamma-BHC)			Not detected	9.28
Methoxychlor			Not detected	92.8
Toxaphene			Not detected	116
BNA, NJ target List	SW846-8270C	ug/Kg	---	---
1,1'-Biphenyl			Not detected	190
1,2,4-Trichlorobenzene			Not detected	190
1,2-Diphenylhydrazine			Not detected	190
2,4,5-Trichlorophenol			Not detected	190
2,4,6-Trichlorophenol			Not detected	190
2,4-Dichlorophenol			Not detected	190
2,4-Dimethyl phenol			Not detected	190
2,4-Dinitrophenol			Not detected	190
2,4-Dinitrotoluene			Not detected	190
2,6-Dinitrotoluene			Not detected	190
2-Chlorophenol			Not detected	190

YORK

Client Sample ID			G-5-4, 5-081109	
York Sample ID			09080411-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
2-Methylnaphthalene			Not detected	190
2-Methylphenol			Not detected	190
2-Nitroaniline			Not detected	190
3,3'-Dichlorobenzidine			Not detected	190
4,6-Dinitro-2-methylphenol			Not detected	190
4-Methylphenol			Not detected	190
Acenaphthene			Not detected	190
Acenaphthylene			290	190
Acetophenone			Not detected	190
Anthracene			260	190
Atrazine			Not detected	190
Benzaldehyde			Not detected	190
Benzidine			Not detected	190
Benzo(a)anthracene			870	190
Benzo(a)pyrene			480	190
Benzo(b)fluoranthene			330	190
Benzo(ghi)perylene			Not detected	190
Benzo(k)fluoranthene			410	190
Bis(2-chloroethyl)ether			Not detected	190
Bis(2-chloroisopropyl)ether			Not detected	190
Bis(2-ethylhexyl)phthalate			Not detected	190
Butyl benzyl phthalate			Not detected	190
Caprolactam			Not detected	190
Carbazole			Not detected	190
Chrysene			810	190
Dibenz(a,h)anthracene			Not detected	190
Diethyl phthalate			Not detected	190
Di-n-butyl phthalate			Not detected	190
Di-n-octyl phthalate			Not detected	190
Fluoranthene			1400	190
Fluorene			240	190
Hexachloro-1,3-butadiene			Not detected	190
Hexachlorobenzene			Not detected	190
Hexachlorocyclopentadiene			Not detected	190
Hexachloroethane			Not detected	190
Indeno(1,2,3-cd)pyrene			Not detected	190
Isophorone			Not detected	190
Naphthalene			Not detected	190
Nitrobenzene			Not detected	190
N-Nitrosodimethylamine			Not detected	190
N-Nitrosodi-n-propylamine			Not detected	190
N-Nitrosodiphenylamine			Not detected	190
Pentachlorophenol			Not detected	190
Phenanthrene			760	190
Phenol			Not detected	190
Pyrene			1400	190
Volatiles, NJ Target List	SW846-8260	ug/kg	---	---
1,1,1-Trichloroethane			Not detected	5.80
1,1,2,2-Tetrachloroethane			Not detected	5.80
1,1,2-Trichloroethane			Not detected	5.80
1,1-Dichloroethane			Not detected	5.80

YORK

Client Sample ID			G-5-4, 5-081109	
York Sample ID			09080411-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
1,1-Dichloroethene			Not detected	5.80
1,2-Dibromo-3-chloropropane			Not detected	5.80
1,2-Dibromoethane			Not detected	5.80
1,2-Dichlorobenzene			Not detected	5.80
1,2-Dichloroethane			Not detected	5.80
1,2-Dichloropropane			Not detected	5.80
1,3-Dichlorobenzene			Not detected	5.80
1,4-Dichlorobenzene			Not detected	5.80
Acetone			Not detected	11.6
Acrolein			Not detected	1160
Acrylonitrile			Not detected	5.80
Benzene			Not detected	5.80
Bromodichloromethane			Not detected	5.80
Bromoform			Not detected	5.80
Bromomethane			Not detected	5.80
Butanone			Not detected	5.80
Carbon disulfide			Not detected	5.80
Carbon tetrachloride			Not detected	5.80
Chlorobenzene			Not detected	5.80
Chloroethane			Not detected	5.80
Chloroform			Not detected	5.80
Chloromethane			Not detected	5.80
cis-1,2-Dichloroethene			Not detected	5.80
cis-1,3-Dichloropropene			Not detected	5.80
Dibromochloromethane			Not detected	5.80
Dichlorodifluoromethane			Not detected	5.80
Ethyl benzene			Not detected	5.80
Methyl acetate			Not detected	5.80
Methyl tert-butyl ether (MTBE)			Not detected	5.80
Methylene chloride			Not detected	11.6
Styrene			Not detected	5.80
Tertiary butyl alcohol (TBA)			Not detected	1160
Tetrachloroethene			Not detected	5.80
Toluene			Not detected	5.80
trans-1,2-Dichloroethene			Not detected	5.80
trans-1,3-Dichloropropene			Not detected	5.80
Trichloroethene			Not detected	5.80
Trichlorofluoromethane			Not detected	5.80
Vinyl chloride			Not detected	5.80
Xylenes, total			Not detected	11.6
PCB	SW846-3550B/8082	mg/Kg	---	---
PCB 1016			Not detected	0.0197
PCB 1221			Not detected	0.0197
PCB 1232			Not detected	0.0197
PCB 1242			Not detected	0.0197
PCB 1248			Not detected	0.0197
PCB 1254			Not detected	0.0197
PCB 1260			Not detected	0.0197

YORK

Client Sample ID			G-5-4, 5-081109	
York Sample ID			09080411-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
TCLP Metals, RCRA List	SW846-1311/6010	mg/L	---	---
TCLP Arsenic			Not detected	0.010
TCLP Barium			1.11	0.010
TCLP Cadmium			Not detected	0.005
TCLP Chromium			Not detected	0.005
TCLP Lead			1.37	0.005
TCLP Selenium			Not detected	0.010
TCLP Silver			Not detected	0.005
TCLP Mercury	SW846-1311/7470	mg/L	Not detected	0.0005
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.00
Hexavalent Chromium	SW846-7196A	mg/kg	Not detected	0.50
TCLP Copper	SW846-6010	mg/L	0.052	0.005
TCLP Nickel	SW846-6010	mg/L	0.048	0.005
TCLP Zinc	SW846-6010	mg/L	0.964	0.005
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	406	11.6
Total Solids	SM 2540B	%	86.2	1.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 09080411

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____

Robert Q. Bradley
Managing Director

Date: 8/19/2009

YORK

YORK

ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 09080911

Client Information Company: <u>Enviromental Corp</u> Address: <u>1111 Fulton St.</u> <u>2nd Floor, Brooklyn, NY 1238</u> Phone No: <u>718-636-0800</u> Contact Person: <u>Timothy Le</u> E-Mail Address: <u>tle@enviromental.com</u>	Report To: Company: <u>Same</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____	Invoice To: Company: <u>Same</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____	Client Project ID <u>909132</u>	Turn-Around Time 24 hr _____ 48 hr _____ 72 hr _____ 5 Day _____ Standard ☒	Purchase Order No. <u>3047</u>	Report Type/Deliverables Summary ☒ QA/QC Summary _____ RCP Package _____ ASP B Pkg _____ ASP A Pkg _____ Excel format _____ EDD _____ OTHER _____
---	---	--	---	--	--	--

Print Client and Lab info. All information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Anthony Varatta
Samples Collected/Authorized By (Signature)
Anthony Varatta (Larger)
(Name (printed))

Volatiles	Semi-Vols.	Metals	Misc. Org.	Full Lists	Miscellaneous Parameters	Special Instructions
8260 full 624 STARS BTEX MTBE TCL list TAGM CT RCP Arom. Halog. App. IX 8021B list	8270 or 625 STARS BTEX PAH TAGM CT RCP TCL list TICs App. IX SPL Por TCLP	RCRA8 PP13 TAL CT15 Total Dissolved SPL Por TCLP Indic. Metals Hg, Pb, As, Cd Cu, Ni, Be, Fe, Air TICs Se, Ti, Sb, Cu, Methane Na, Mn, As, etc. Helium	TPH GRO TPH DRO CT ETPH NY 310-13 TPH 418.1 Air TO14A Air TO15 Air STARS Hg, Pb, As, Cd Air TPH Cu, Ni, Be, Fe, Air TICs Se, Ti, Sb, Cu, Methane Na, Mn, As, etc. Helium	Fri. Poll. TCL Ogres TAL MetCN Full TCLP Full App. IX Part 360-Routine Part 360-Baseline Part 360-Expanded Part 360-Expanded NYCDEP Sewer NYSDDEC Sewer TAGM	Corrosivity Nitrate Nitrite TKN Total Nitrogen Ammonia-N BOD5 Chloride Phosphate BOD28 COD TSS Oil & Grease F.O.G. pH TDS TPH - IR	Field Filtered ☐ Lab to Filter ☐

Choose Analyses Needed from the Menu Above and Enter Below

Sample Identification	Date Sampled	Sample Matrix	Container Description(s)
G-5-4a-081109	8/11/09	S	1-402
G-5-4-081109			1-402
G-5-5a-081109			1-402
G-5-5-081109			1-402
G-5-4,5-081109			1-402-1-Bo: 1-vol

Comments <u>[Redacted]</u>	Preservation Check those Applicable 4°C ☒ HCl ☒ MeOH ☒ 4°C ☒ HNO ₃ ☒ 4°C ☒ H ₂ SO ₄ ☒ NaOH ☒ Other ☒	Temperature on Receipt <u>31°C</u>
	Samples Relinquished By <u>[Redacted]</u> Date/Time <u>8/11/09 1515</u>	Samples Received by LAB <u>[Redacted]</u> Date/Time <u>8/12/09</u>

10:30

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

**Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo**

Report Date: 8/19/2009
Re: Client Project ID: 909132
York Project No.: 09080475

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854

PA Reg. 68-04440



Report Date: 8/19/2009
Client Project ID: 909132
York Project No.: 09080475

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 08/13/09. The project was identified as your project "909132".

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			G-5-1-081209		G-5-2-081209	
York Sample ID			09080475-01		09080475-02	
Matrix			SOIL		SOIL	
Parameter	Method	Units	Results	MDL	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	156	11.5	82.3	11.1
Total Solids	SM 2540B	%	86.8	1.0	89.9	1.0

Client Sample ID			G-5-3-081209	
York Sample ID			09080475-03	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	71.5	11.4
Total Solids	SM 2540B	%	87.8	1.0

YORK

Client Sample ID			G-5-1, 2, 3-081209	
York Sample ID			09080475-04	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Metals, NJ Target List	SW846-6010	mg/kg	---	---
Aluminum			8160	1.11
Antimony			Not detected	1.11
Arsenic			4.97	1.11
Barium			128	1.11
Beryllium			Not detected	0.557
Cadmium			Not detected	0.557
Chromium			24.5	1.11
Cobalt			9.65	1.11
Copper			44.7	1.11
Lead			138	1.11
Manganese			361	1.11
Nickel			21.3	1.11
Selenium			Not detected	1.11
Silver			Not detected	1.11
Thallium			Not detected	1.11
Vanadium			33.1	2.23
Zinc			97.3	2.23
Mercury	SW846-7471	mg/kG	Not detected	0.111
Pesticides, NJ Target List	SW846-3550B/8081	ug/Kg	---	---
4,4'-DDD			Not detected	21.4
4,4'-DDE			Not detected	21.4
4,4'-DDT			37.4	21.4
Aldrin			Not detected	10.7
alpha Chlordane			Not detected	10.7
alpha-HCH (alpha-BHC)			Not detected	10.7
beta-HCH (beta-BHC)			Not detected	10.7
Dieldrin			Not detected	4.42
Endosulfan I			Not detected	10.7
Endosulfan II			Not detected	21.4
Endosulfan sulfate			Not detected	21.4
Endrin			Not detected	21.4
gamma Chlordane			Not detected	10.7
Heptachlor			Not detected	10.7
Heptachlor epoxide			Not detected	10.7
Lindane (gamma-BHC)			Not detected	10.7
Methoxychlor			Not detected	107
Toxaphene			Not detected	134
BNA, NJ target List	SW846-8270C	ug/Kg	---	---
1,1'-Biphenyl			Not detected	180
1,2,4-Trichlorobenzene			Not detected	180
1,2-Diphenylhydrazine			Not detected	180
2,4,5-Trichlorophenol			Not detected	180
2,4,6-Trichlorophenol			Not detected	180
2,4-Dichlorophenol			Not detected	180
2,4-Dimethyl phenol			Not detected	180
2,4-Dinitrophenol			Not detected	180
2,4-Dinitrotoluene			Not detected	180
2,6-Dinitrotoluene			Not detected	180
2-Chlorophenol			Not detected	180

YORK

Client Sample ID			G-5-1, 2, 3-081209	
York Sample ID			09080475-04	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
2-Methylnaphthalene			Not detected	180
2-Methylphenol			Not detected	180
2-Nitroaniline			Not detected	180
3,3'-Dichlorobenzidine			Not detected	180
4,6-Dinitro-2-methylphenol			Not detected	180
4-Methylphenol			Not detected	180
Acenaphthene			Not detected	180
Acenaphthylene			Not detected	180
Acetophenone			Not detected	180
Anthracene			220	180
Atrazine			Not detected	180
Benzaldehyde			Not detected	180
Benzidine			Not detected	180
Benzo(a)anthracene			670	180
Benzo(a)pyrene			410	180
Benzo(b)fluoranthene			220	180
Benzo(ghi)perylene			Not detected	180
Benzo(k)fluoranthene			400	180
Bis(2-chloroethyl)ether			Not detected	180
Bis(2-chloroisopropyl)ether			Not detected	180
Bis(2-ethylhexyl)phthalate			Not detected	180
Butyl benzyl phthalate			Not detected	180
Caprolactam			Not detected	180
Carbazole			Not detected	180
Chrysene			510	180
Dibenz(a,h)anthracene			Not detected	180
Diethyl phthalate			Not detected	180
Di-n-butyl phthalate			Not detected	180
Di-n-octyl phthalate			Not detected	180
Fluoranthene			1000	180
Fluorene			Not detected	180
Hexachloro-1,3-butadiene			Not detected	180
Hexachlorobenzene			Not detected	180
Hexachlorocyclopentadiene			Not detected	180
Hexachloroethane			Not detected	180
Indeno(1,2,3-cd)pyrene			Not detected	180
Isophorone			Not detected	180
Naphthalene			Not detected	180
Nitrobenzene			Not detected	180
N-Nitrosodimethylamine			Not detected	180
N-Nitrosodi-n-propylamine			Not detected	180
N-Nitrosodiphenylamine			Not detected	180
Pentachlorophenol			Not detected	180
Phenanthrene			540	180
Phenol			Not detected	180
Pyrene			940	180
Volatiles, NJ Target List	SW846-8260	ug/kg	---	---
1,1,1-Trichloroethane			Not detected	11.1
1,1,2,2-Tetrachloroethane			Not detected	11.1
1,1,2-Trichloroethane			Not detected	11.1
1,1-Dichloroethane			Not detected	11.1

YORK

Client Sample ID			G-5-1, 2, 3-081209	
York Sample ID			09080475-04	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
1,1-Dichloroethene			Not detected	11.1
1,2-Dibromo-3-chloropropane			Not detected	11.1
1,2-Dibromoethane			Not detected	11.1
1,2-Dichlorobenzene			Not detected	11.1
1,2-Dichloroethane			Not detected	11.1
1,2-Dichloropropane			Not detected	11.1
1,3-Dichlorobenzene			Not detected	11.1
1,4-Dichlorobenzene			Not detected	11.1
Acetone			Not detected	22.3
Acrolein			Not detected	2230
Acrylonitrile			Not detected	11.1
Benzene			Not detected	11.1
Bromodichloromethane			Not detected	11.1
Bromoform			Not detected	11.1
Bromomethane			Not detected	11.1
Butanone			Not detected	11.1
Carbon disulfide			Not detected	11.1
Carbon tetrachloride			Not detected	11.1
Chlorobenzene			Not detected	11.1
Chloroethane			Not detected	11.1
Chloroform			Not detected	11.1
Chloromethane			Not detected	11.1
cis-1,2-Dichloroethene			Not detected	11.1
cis-1,3-Dichloropropene			Not detected	11.1
Dibromochloromethane			Not detected	11.1
Dichlorodifluoromethane			Not detected	11.1
Ethyl benzene			Not detected	11.1
Methyl acetate			Not detected	11.1
Methyl tert-butyl ether (MTBE)			Not detected	11.1
Methylene chloride			Not detected	22.3
Styrene			Not detected	11.1
Tertiary butyl alcohol (TBA)			Not detected	2230
Tetrachloroethene			Not detected	11.1
Toluene			Not detected	11.1
trans-1,2-Dichloroethene			Not detected	11.1
trans-1,3-Dichloropropene			Not detected	11.1
Trichloroethene			Not detected	11.1
Trichlorofluoromethane			Not detected	11.1
Vinyl chloride			Not detected	11.1
Xylenes, total			Not detected	22.3
PCB	SW846-3550B/8082	mg/Kg	---	---
PCB 1016			Not detected	0.0228
PCB 1221			Not detected	0.0228
PCB 1232			Not detected	0.0228
PCB 1242			Not detected	0.0228
PCB 1248			Not detected	0.0228
PCB 1254			Not detected	0.0228
PCB 1260			0.03	0.0228

YORK

Client Sample ID			G-5-1, 2, 3-081209	
York Sample ID			09080475-04	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
TCLP Metals, RCRA List	SW846-1311/6010	mg/L	---	---
TCLP Arsenic			Not detected	0.010
TCLP Barium			0.992	0.010
TCLP Cadmium			Not detected	0.005
TCLP Chromium			0.006	0.005
TCLP Lead			0.273	0.005
TCLP Selenium			Not detected	0.010
TCLP Silver			Not detected	0.005
TCLP Copper	SW846-6010	mg/L	0.077	0.005
TCLP Mercury	SW846-1311/7470	mg/L	Not detected	0.0005
TCLP Nickel	SW846-6010	mg/L	0.044	0.005
TCLP Zinc	SW846-6010	mg/L	1.01	0.005
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.11
Hexavalent Chromium	SW846-7196A	mg/kg	Not detected	0.56
Total Petroleum Hydrocarbons-DRO	SW846-8015B	mg/kg	74.4	11.1
Total Solids	SM 2540B	%	89.8	1.0

Client Sample ID			Site-081209	
York Sample ID			09080475-05	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Ignitability	SW846-1030P	---	Passed	---
Paint Filter Test	SW846-9095A	---	No free liquid	---
pH	EPA 150.1	units	9.03	---
Reactivity-Cyanide	SW846 Ch. 7.3.3	mg/kg	Not detected	0.25
Reactivity-Sulfide	SW846 Ch. 7.3.4	mg/kg	Not detected	15
Total Solids	SM 2540B	%	88.0	1.0

Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Notes for York Project No. 09080475

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____

Robert Q. Bradley
Managing Director

Date: 8/19/2009

YORK

Page 1 of 1

York Project No. Q9080475

[illegible]



26 NORTH MALL • PLAINVIEW, NY 11803
(516) 293-2191 • FAX (516) 293-3152
E-Mail: Info@SouthMallLabs.com
Website: www.SouthMallLabs.com

August 20, 2009

Analytical Results

Hydro Tech Environmental
2171 Jericho Turnpike Suite 345
Commack, NY 11725

Att: Adam Dicresio

Sample Description: Water - 123 East 98 St., Brooklyn, NY, MW1-081409 - 08/14/09 08:40
Sample Collected By: Client
Purchase Order: 3129
Date Samples Received: 08/14/09 15:30
Lab ID Number: 0908076-01

Sample Qualifier(s):

<u>Analyte</u>	<u>Results</u>	<u>Qual</u>	<u>Units</u>	<u>RL</u>	<u>Analyzed</u>	<u>By</u>	<u>Method</u>
Hexavalent Chromium	<0.050		mg/L	0.050	08/14/09 21:12	HT	SM 3500-Cr D

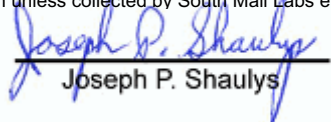
References & Qualifiers

EPA - 40 Code of Federal Regulations, Part 136, October 26, 1984.
SW - SW 846 3rd Edition.
SM - Standard Methods for the Examination of Water and Wastewater, 18th edition.
LT - Lachat Method Manual, "Methods List for Automated Ion Analyzers", February 2004.

New York State ELAP Laboratory ID #10950/EPA Laboratory ID #NY01292/New Jersey DEP Laboratory ID #NY006

All results are based on the sample "As Received" by the laboratory and no endorsement of the sample integrity prior to sample receipt is implied or given unless collected by South Mall Labs employees. Report must be reproduced in its entirety.

Laboratory Director:


Joseph P. Shaulys





26 NORTH MALL • PLAINVIEW, NY 11803
(516) 293-2191 • FAX (516) 293-3152
E-Mail: Info@SouthMallLabs.com
Website: www.SouthMallLabs.com

August 20, 2009

Analytical Results

Hydro Tech Environmental
2171 Jericho Turnpike Suite 345
Commack, NY 11725

Att: Adam Dicresio

Sample Description: Water - 123 East 98 St., Brooklyn, NY, MW3-081409 - 08/14/09 12:00
Sample Collected By: Client
Purchase Order: 3129
Date Samples Received: 08/14/09 15:30
Lab ID Number: 0908076-02

Sample Qualifier(s):

<u>Analyte</u>	<u>Results</u>	<u>Qual</u>	<u>Units</u>	<u>RL</u>	<u>Analyzed</u>	<u>By</u>	<u>Method</u>
Hexavalent Chromium	<0.050		mg/L	0.050	08/14/09 21:12	HT	SM 3500-Cr D

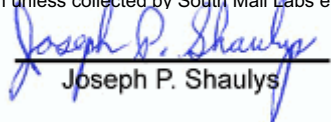
References & Qualifiers

EPA - 40 Code of Federal Regulations, Part 136, October 26, 1984.
SW - SW 846 3rd Edition.
SM - Standard Methods for the Examination of Water and Wastewater, 18th edition.
LT - Lachat Method Manual, "Methods List for Automated Ion Analyzers", February 2004.

New York State ELAP Laboratory ID #10950/EPA Laboratory ID #NY01292/New Jersey DEP Laboratory ID #NY006

All results are based on the sample "As Received" by the laboratory and no endorsement of the sample integrity prior to sample receipt is implied or given unless collected by South Mall Labs employees. Report must be reproduced in its entirety.

Laboratory Director:


Joseph P. Shaulys



YORK
ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

**Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo**

Report Date: 8/21/2009
Re: Client Project ID: 909132
York Project No.: 09080524

CT License No. PH-0723

New York License No. 10854

New Jersey License No. CT-005

PA Reg. 68-04440



Report Date: 8/21/2009
Client Project ID: 909132
York Project No.: 09080524

Hydro Tech Environmental
1111 Fulton Street
2nd Floor
Brooklyn, NY 11238
Attention: Timothy Lo

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on 08/17/09. The project was identified as your project "909132".

The analysis was conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the NELAC acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All the analyses met the method and laboratory standard operating procedure requirements except as indicated under the Notes section of this report, or as indicated by any data flags, the meaning of which is explained in the attachment to this report, if applicable.

The results of the analyses, which are all reported on an as-received basis unless otherwise noted, are summarized in the following table(s).

Analysis Results

Client Sample ID			MW1-081409				
Collection Date			08/14/09				
York Sample ID			09080524-01				
Matrix			WATER				
Parameter	Method	Units	Results	MDL	Analysis Date	Analysis Time	Analyst
PCBs, Pri. Poll. List	EPA 608	ug/L	---	---	08/20/09	15:14	JW
PCB 1016			Not detected	0.05	08/20/09	15:14	JW
PCB 1221			Not detected	0.05	08/20/09	15:14	JW
PCB 1232			Not detected	0.05	08/20/09	15:14	JW
PCB 1242			Not detected	0.05	08/20/09	15:14	JW
PCB 1248			Not detected	0.05	08/20/09	15:14	JW
PCB 1254			Not detected	0.05	08/20/09	15:14	JW
PCB 1260			Not detected	0.05	08/20/09	15:14	JW
Semi-Volatile Organics	EPA 625	ug/L	---	---	08/20/09	09:41	SR
1,2,4-Trichlorobenzene			Not detected	5.25	08/20/09	09:41	SR
Naphthalene			Not detected	5.25	08/20/09	09:41	SR

Client Sample ID			MW1-081409				
Collection Date			08/14/09				
York Sample ID			09080524-01				
Matrix			WATER				
Parameter	Method	Units	Results	MDL	Analysis Date	Analysis Time	Analyst
Volatiles, NYCDEP Target List	EPA 624	ug/L	---	---	08/19/09	11:11	SS
1,1,1-Trichloroethane			Not detected	5	08/19/09	11:11	SS
1,4-Dichlorobenzene			Not detected	5	08/19/09	11:11	SS
Benzene			1	1	08/19/09	11:11	SS
Carbon tetrachloride			Not detected	5	08/19/09	11:11	SS
Chloroform			Not detected	5	08/19/09	11:11	SS
Ethylbenzene			Not detected	5	08/19/09	11:11	SS
MTBE			Not detected	5	08/19/09	11:11	SS
Tetrachloroethylene			Not detected	5	08/19/09	11:11	SS
Toluene			Not detected	5	08/19/09	11:11	SS
Xylenes, total			Not detected	5	08/19/09	11:11	SS
Metals, Target Analyte List (TAL)	EPA 200.7	ug/L	---	---	08/19/09	11:23	MW
Aluminum			63.7	5.0	08/19/09	11:23	MW
Antimony			Not detected	5.0	08/19/09	11:23	MW
Arsenic			22.8	10.0	08/19/09	11:23	MW
Barium			103	10.0	08/19/09	11:23	MW
Beryllium			Not detected	1.0	08/19/09	11:23	MW
Cadmium			Not detected	3.0	08/19/09	11:23	MW
Calcium			146000	20.0	08/19/09	11:23	MW
Chromium			Not detected	5.0	08/19/09	11:23	MW
Cobalt			Not detected	5.0	08/19/09	11:23	MW
Copper			Not detected	5.0	08/19/09	11:23	MW
Iron			6600	5.0	08/19/09	11:23	MW
Lead			Not detected	3.0	08/19/09	11:23	MW
Magnesium			15900	10.0	08/19/09	11:23	MW
Manganese			755	5.0	08/19/09	11:23	MW
Nickel			Not detected	5.0	08/19/09	11:23	MW
Potassium			61900	30.0	08/19/09	11:23	MW
Selenium			Not detected	10.0	08/19/09	11:23	MW
Silver			Not detected	5.0	08/19/09	11:23	MW
Sodium			117000	50.0	08/19/09	11:23	MW
Thallium			Not detected	10.0	08/19/09	11:23	MW
Vanadium			Not detected	10.0	08/19/09	11:23	MW
Zinc			Not detected	20.0	08/19/09	11:23	MW
Mercury	EPA 245.1	mg/L	Not detected	0.0002	08/20/09	12:15	AA
Semi-Volatiles, BNA TCL List	sw846-8270	ug/L	---	---	08/20/09	09:41	SR
1,2,4-Trichlorobenzene			Not detected	5.2	08/20/09	09:41	SR
1,2-Dichlorobenzene			Not detected	5.2	08/20/09	09:41	SR
1,3-Dichlorobenzene			Not detected	5.2	08/20/09	09:41	SR
1,4-Dichlorobenzene			Not detected	5.2	08/20/09	09:41	SR
2,4,5-Trichlorophenol			Not detected	5.2	08/20/09	09:41	SR
2,4,6-Trichlorophenol			Not detected	5.2	08/20/09	09:41	SR
2,4-Dichlorophenol			Not detected	5.2	08/20/09	09:41	SR
2,4-Dimethylphenol			Not detected	5.2	08/20/09	09:41	SR
2,4-Dinitrophenol			Not detected	5.2	08/20/09	09:41	SR
2,4-Dinitrotoluene			Not detected	5.2	08/20/09	09:41	SR
2,6-Dinitrotoluene			Not detected	5.2	08/20/09	09:41	SR

Client Sample ID			MW1-081409				
Collection Date			08/14/09				
York Sample ID			09080524-01				
Matrix			WATER				
Parameter	Method	Units	Results	MDL	Analysis Date	Analysis Time	Analyst
2-Chloronaphthalene			Not detected	5.2	08/20/09	09:41	SR
2-Chlorophenol			Not detected	5.2	08/20/09	09:41	SR
2-Methylnaphthalene			Not detected	5.2	08/20/09	09:41	SR
2-Methylphenol			Not detected	5.2	08/20/09	09:41	SR
2-Nitroaniline			Not detected	5.2	08/20/09	09:41	SR
2-Nitrophenol			Not detected	5.2	08/20/09	09:41	SR
3,3'-Dichlorobenzidine			Not detected	5.2	08/20/09	09:41	SR
3-Nitroaniline			Not detected	5.2	08/20/09	09:41	SR
4,6-Dinitro-2-methylphenol			Not detected	5.2	08/20/09	09:41	SR
4-Bromophenyl-phenylether			Not detected	5.2	08/20/09	09:41	SR
4-Chloro-3-methylphenol			Not detected	5.2	08/20/09	09:41	SR
4-Chloroaniline			Not detected	5.2	08/20/09	09:41	SR
4-Chlorophenyl-phenylether			Not detected	5.2	08/20/09	09:41	SR
4-Methylphenol			Not detected	5.2	08/20/09	09:41	SR
4-Nitroaniline			Not detected	5.2	08/20/09	09:41	SR
4-Nitrophenol			Not detected	5.2	08/20/09	09:41	SR
Acenaphthene			Not detected	5.2	08/20/09	09:41	SR
Acenaphthylene			Not detected	5.2	08/20/09	09:41	SR
Anthracene			Not detected	5.2	08/20/09	09:41	SR
Benzo(a)anthracene			Not detected	5.2	08/20/09	09:41	SR
Benzo(a)pyrene			Not detected	5.2	08/20/09	09:41	SR
Benzo(b)fluoranthene			Not detected	5.2	08/20/09	09:41	SR
Benzo(g,h,i)perylene			Not detected	5.2	08/20/09	09:41	SR
Benzo(k)fluoranthene			Not detected	5.2	08/20/09	09:41	SR
Benzoic acid			Not detected	5.2	08/20/09	09:41	SR
Benzyl alcohol			Not detected	5.2	08/20/09	09:41	SR
bis(2-Chloroethoxy)methane			Not detected	5.2	08/20/09	09:41	SR
bis(2-Chloroethyl)ether			Not detected	5.2	08/20/09	09:41	SR
bis(2-Chloroisopropyl)ether			Not detected	5.2	08/20/09	09:41	SR
bis(2-Ethylhexyl)phthalate			Not detected	5.2	08/20/09	09:41	SR
Butylbenzylphthalate			Not detected	5.2	08/20/09	09:41	SR
Chrysene			Not detected	5.2	08/20/09	09:41	SR
Dibenz(a,h)anthracene			Not detected	5.2	08/20/09	09:41	SR
Dibenzofuran			Not detected	5.2	08/20/09	09:41	SR
Diethylphthalate			Not detected	5.2	08/20/09	09:41	SR
Dimethylphthalate			Not detected	5.2	08/20/09	09:41	SR
Di-n-butylphthalate			Not detected	5.2	08/20/09	09:41	SR
Di-n-Octylphthalate			Not detected	5.2	08/20/09	09:41	SR
Fluoranthene			Not detected	5.2	08/20/09	09:41	SR
Fluorene			Not detected	5.2	08/20/09	09:41	SR
Hexachlorobenzene			Not detected	5.2	08/20/09	09:41	SR
Hexachlorobutadiene			Not detected	5.2	08/20/09	09:41	SR
Hexachlorocyclopentadiene			Not detected	5.2	08/20/09	09:41	SR

Client Sample ID			MW1-081409				
Collection Date			08/14/09				
York Sample ID			09080524-01				
Matrix			WATER				
Parameter	Method	Units	Results	MDL	Analysis Date	Analysis Time	Analyst
Hexachloroethane			Not detected	5.2	08/20/09	09:41	SR
Indeno(1,2,3-cd)pyrene			Not detected	5.2	08/20/09	09:41	SR
Isophorone			Not detected	5.2	08/20/09	09:41	SR
Naphthalene			Not detected	5.2	08/20/09	09:41	SR
Nitrobenzene			Not detected	5.2	08/20/09	09:41	SR
n-Nitroso-di-n-propylamine			Not detected	5.2	08/20/09	09:41	SR
n-Nitrosodiphenylamine			Not detected	5.2	08/20/09	09:41	SR
Pentachlorophenol			Not detected	5.2	08/20/09	09:41	SR
Phenanthrene			Not detected	5.2	08/20/09	09:41	SR
Phenol			Not detected	5.2	08/20/09	09:41	SR
Pyrene			Not detected	5.2	08/20/09	09:41	SR
Volatiles, Target Cmpd. List (TCL)	SW846-8260	ug/L	---	---	08/19/09	11:11	SS
1,1,1-Trichloroethane			Not detected	5.0	08/19/09	11:11	SS
1,1,2,2-Tetrachloroethane			Not detected	5.0	08/19/09	11:11	SS
1,1,2-Trichloroethane			Not detected	5.0	08/19/09	11:11	SS
1,1,2-Trichlorotrifluoroethane (Freon 113)			Not detected	5.0	08/19/09	11:11	SS
1,1-Dichloroethane			Not detected	5.0	08/19/09	11:11	SS
1,1-Dichloroethene			Not detected	5.0	08/19/09	11:11	SS
1,2,4-Trichlorobenzene			Not detected	5.0	08/19/09	11:11	SS
1,2-Dibromo-3-Chloropropane			Not detected	5.0	08/19/09	11:11	SS
1,2-Dibromoethane (ethylene dibromide)			Not detected	5.0	08/19/09	11:11	SS
1,2-Dichlorobenzene			Not detected	5.0	08/19/09	11:11	SS
1,2-Dichloroethane			Not detected	5.0	08/19/09	11:11	SS
1,2-Dichloroethylene (cis-)			Not detected	5.0	08/19/09	11:11	SS
1,2-Dichloroethylene(trans-)			Not detected	5.0	08/19/09	11:11	SS
1,2-Dichloropropane			Not detected	5.0	08/19/09	11:11	SS
1,3-Dichlorobenzene			Not detected	5.0	08/19/09	11:11	SS
1,4-Dichlorobenzene			Not detected	5.0	08/19/09	11:11	SS
2-Butanone			Not detected	5.0	08/19/09	11:11	SS
2-Hexanone			Not detected	5.0	08/19/09	11:11	SS
4-Methyl-2-pentanone			Not detected	5.0	08/19/09	11:11	SS
Acetone			Not detected	5.0	08/19/09	11:11	SS
Benzene			Not detected	5.0	08/19/09	11:11	SS
Bromodichloromethane			Not detected	5.0	08/19/09	11:11	SS
Bromoform			Not detected	5.0	08/19/09	11:11	SS
Bromomethane			Not detected	5.0	08/19/09	11:11	SS
Carbon disulfide			Not detected	5.0	08/19/09	11:11	SS
Carbon tetrachloride			Not detected	5.0	08/19/09	11:11	SS
Chlorobenzene			Not detected	5.0	08/19/09	11:11	SS
Chloroethane			Not detected	5.0	08/19/09	11:11	SS
Chloroform			Not detected	5.0	08/19/09	11:11	SS
Chloromethane			Not detected	5.0	08/19/09	11:11	SS

YORK

Client Sample ID			MW1-081409				
Collection Date			08/14/09				
York Sample ID			09080524-01				
Matrix			WATER				
Parameter	Method	Units	Results	MDL	Analysis Date	Analysis Time	Analyst
cis-1,3-Dichloropropene			Not detected	5.0	08/19/09	11:11	SS
Dibromochloromethane			Not detected	5.0	08/19/09	11:11	SS
Dichlorodifluoromethane			Not detected	5.0	08/19/09	11:11	SS
Ethylbenzene			Not detected	5.0	08/19/09	11:11	SS
Isopropylbenzene (Cumene)			Not detected	5.0	08/19/09	11:11	SS
Methyl tert-butyl Ether (MTBE)			Not detected	5.0	08/19/09	11:11	SS
Methylene chloride			Not detected	5.0	08/19/09	11:11	SS
Styrene			Not detected	5.0	08/19/09	11:11	SS
Tetrachloroethene			Not detected	5.0	08/19/09	11:11	SS
Toluene			Not detected	5.0	08/19/09	11:11	SS
trans-1,3- Dichloropropene			Not detected	5.0	08/19/09	11:11	SS
Trichloroethene			Not detected	5.0	08/19/09	11:11	SS
Trichlorofluoromethane			Not detected	5.0	08/19/09	11:11	SS
Vinyl chloride			Not detected	5.0	08/19/09	11:11	SS
Xylenes (total)			Not detected	5.0	08/19/09	11:11	SS
BOD (5-day), Carbonaceous	SM5210B	mg/L	Not detected	1.0	08/23/09	15:53	PAM
Chloride	EPA300/ SW9056	mg/L	128	0.5	08/18/09	16:24	SC
Flashpoint	ASTM D93	Degrees F	>200	---	08/19/09	14:54	MZ
Nitrite + Nitrate Nitrogen	SW846- 9065/E300m	mg/L	Not detected	0.01	08/18/09	16:24	SC
Non-Polar Material	EPA 1664A	mg/L	Not detected	1.5	08/21/09	11:10	AS
pH	SM 4500-H+ B	units	7.88	---	08/17/09	16:11	MZ
Phenols, Total	EPA 420.1	mg/L	Not detected	0.05	08/21/09	12:01	AS
Total Kjeldahl Nitrogen	SM 4500-NorgB	mg/L	4.44	0.10	08/21/09	13:54	SC
Total Nitrogen	SM 4500N	mg/L	4.44	0.1	08/21/09	13:54	SC
Total Solids	SM 2540B	mg/L	1088	0.5	08/18/09	16:09	AA
Total Suspended Solids	SM 2540D	mg/L	24.0	0.5	08/18/09	15:33	AA

Client Sample ID			MW3-081409				
Collection Date			08/14/09				
York Sample ID			09080524-02				
Matrix			WATER				
Parameter	Method	Units	Results	MDL	Analysis Date	Analysis Time	Analyst
PCBs, Pri. Poll. List	EPA 608	ug/L	---	---	08/21/09	08:56	SR
PCB 1016			0.202	0.05	08/21/09	08:56	SR
PCB 1221			Not detected	0.05	08/21/09	08:56	SR
PCB 1232			Not detected	0.05	08/21/09	08:56	SR
PCB 1242			Not detected	0.05	08/21/09	08:56	SR
PCB 1248			Not detected	0.05	08/21/09	08:56	SR
PCB 1254			Not detected	0.05	08/21/09	08:56	SR
PCB 1260			Not detected	0.05	08/21/09	08:56	SR
Semi-Volatile Organics	EPA 625	ug/L	---	---	08/20/09	09:41	SR
1,2,4-Trichlorobenzene			Not detected	5.40	08/20/09	09:41	SR
Naphthalene			Not detected	5.40	08/20/09	09:41	SR

Client Sample ID			MW3-081409				
Collection Date			08/14/09				
York Sample ID			09080524-02				
Matrix			WATER				
Parameter	Method	Units	Results	MDL	Analysis Date	Analysis Time	Analyst
Volatiles, NYCDEP Target List	EPA 624	ug/L	---	---	08/19/09	11:11	SS
1,1,1-Trichloroethane			Not detected	5	08/19/09	11:11	SS
1,4-Dichlorobenzene			Not detected	5	08/19/09	11:11	SS
Benzene			Not detected	1	08/19/09	11:11	SS
Carbon tetrachloride			Not detected	5	08/19/09	11:11	SS
Chloroform			Not detected	5	08/19/09	11:11	SS
Ethylbenzene			Not detected	5	08/19/09	11:11	SS
MTBE			Not detected	5	08/19/09	11:11	SS
Tetrachloroethylene			Not detected	5	08/19/09	11:11	SS
Toluene			Not detected	5	08/19/09	11:11	SS
Xylenes, total			Not detected	5	08/19/09	11:11	SS
Metals, Target Analyte List (TAL)	EPA 200.7	ug/L	---	---	08/19/09	11:23	MW
Aluminum			208	5.0	08/19/09	11:23	MW
Antimony			Not detected	5.0	08/19/09	11:23	MW
Arsenic			25.8	10.0	08/19/09	11:23	MW
Barium			48.2	10.0	08/19/09	11:23	MW
Beryllium			Not detected	1.0	08/19/09	11:23	MW
Cadmium			Not detected	3.0	08/19/09	11:23	MW
Calcium			146000	20.0	08/19/09	11:23	MW
Chromium			Not detected	5.0	08/19/09	11:23	MW
Cobalt			Not detected	5.0	08/19/09	11:23	MW
Copper			7.0	5.0	08/19/09	11:23	MW
Iron			151	5.0	08/19/09	11:23	MW
Lead			3.6	3.0	08/19/09	11:23	MW
Magnesium			27500	10.0	08/19/09	11:23	MW
Manganese			34.7	5.0	08/19/09	11:23	MW
Nickel			Not detected	5.0	08/19/09	11:23	MW
Potassium			30900	30.0	08/19/09	11:23	MW
Selenium			Not detected	10.0	08/19/09	11:23	MW
Silver			Not detected	5.0	08/19/09	11:23	MW
Sodium			368000	50.0	08/19/09	11:23	MW
Thallium			Not detected	10.0	08/19/09	11:23	MW
Vanadium			Not detected	10.0	08/19/09	11:23	MW
Zinc			Not detected	20.0	08/19/09	11:23	MW
Mercury	EPA 245.1	mg/L	Not detected	0.0002	08/20/09	12:15	AA
Semi-Volatiles, BNA TCL List	sw846-8270	ug/L	---	---	08/20/09	09:41	SR
1,2,4-Trichlorobenzene			Not detected	5.4	08/20/09	09:41	SR
1,2-Dichlorobenzene			Not detected	5.4	08/20/09	09:41	SR
1,3-Dichlorobenzene			Not detected	5.4	08/20/09	09:41	SR
1,4-Dichlorobenzene			Not detected	5.4	08/20/09	09:41	SR
2,4,5-Trichlorophenol			Not detected	5.4	08/20/09	09:41	SR
2,4,6-Trichlorophenol			Not detected	5.4	08/20/09	09:41	SR
2,4-Dichlorophenol			Not detected	5.4	08/20/09	09:41	SR
2,4-Dimethylphenol			Not detected	5.4	08/20/09	09:41	SR
2,4-Dinitrophenol			Not detected	5.4	08/20/09	09:41	SR
2,4-Dinitrotoluene			Not detected	5.4	08/20/09	09:41	SR

YORK

Client Sample ID			MW3-081409				
Collection Date			08/14/09				
York Sample ID			09080524-02				
Matrix			WATER				
Parameter	Method	Units	Results	MDL	Analysis Date	Analysis Time	Analyst
2,6-Dinitrotoluene			Not detected	5.4	08/20/09	09:41	SR
2-Chloronaphthalene			Not detected	5.4	08/20/09	09:41	SR
2-Chlorophenol			Not detected	5.4	08/20/09	09:41	SR
2-Methylnaphthalene			Not detected	5.4	08/20/09	09:41	SR
2-Methylphenol			Not detected	5.4	08/20/09	09:41	SR
2-Nitroaniline			Not detected	5.4	08/20/09	09:41	SR
2-Nitrophenol			Not detected	5.4	08/20/09	09:41	SR
3,3'-Dichlorobenzidine			Not detected	5.4	08/20/09	09:41	SR
3-Nitroaniline			Not detected	5.4	08/20/09	09:41	SR
4,6-Dinitro-2-methylphenol			Not detected	5.4	08/20/09	09:41	SR
4-Bromophenyl-phenylether			Not detected	5.4	08/20/09	09:41	SR
4-Chloro-3-methylphenol			Not detected	5.4	08/20/09	09:41	SR
4-Chloroaniline			Not detected	5.4	08/20/09	09:41	SR
4-Chlorophenyl-phenylether			Not detected	5.4	08/20/09	09:41	SR
4-Methylphenol			Not detected	5.4	08/20/09	09:41	SR
4-Nitroaniline			Not detected	5.4	08/20/09	09:41	SR
4-Nitrophenol			Not detected	5.4	08/20/09	09:41	SR
Acenaphthene			Not detected	5.4	08/20/09	09:41	SR
Acenaphthylene			Not detected	5.4	08/20/09	09:41	SR
Anthracene			Not detected	5.4	08/20/09	09:41	SR
Benzo(a)anthracene			Not detected	5.4	08/20/09	09:41	SR
Benzo(a)pyrene			Not detected	5.4	08/20/09	09:41	SR
Benzo(b)fluoranthene			Not detected	5.4	08/20/09	09:41	SR
Benzo(g,h,i)perylene			Not detected	5.4	08/20/09	09:41	SR
Benzo(k)fluoranthene			Not detected	5.4	08/20/09	09:41	SR
Benzoic acid			Not detected	5.4	08/20/09	09:41	SR
Benzyl alcohol			Not detected	5.4	08/20/09	09:41	SR
bis(2-Chloroethoxy)methane			Not detected	5.4	08/20/09	09:41	SR
bis(2-Chloroethyl)ether			Not detected	5.4	08/20/09	09:41	SR
bis(2-Chloroisopropyl)ether			Not detected	5.4	08/20/09	09:41	SR
bis(2-Ethylhexyl)phthalate			Not detected	5.4	08/20/09	09:41	SR
Butylbenzylphthalate			Not detected	5.4	08/20/09	09:41	SR
Chrysene			Not detected	5.4	08/20/09	09:41	SR
Dibenz(a,h)anthracene			Not detected	5.4	08/20/09	09:41	SR
Dibenzofuran			Not detected	5.4	08/20/09	09:41	SR
Diethylphthalate			Not detected	5.4	08/20/09	09:41	SR
Dimethylphthalate			Not detected	5.4	08/20/09	09:41	SR
Di-n-butylphthalate			Not detected	5.4	08/20/09	09:41	SR
Di-n-Octylphthalate			Not detected	5.4	08/20/09	09:41	SR
Fluoranthene			Not detected	5.4	08/20/09	09:41	SR
Fluorene			Not detected	5.4	08/20/09	09:41	SR
Hexachlorobenzene			Not detected	5.4	08/20/09	09:41	SR
Hexachlorobutadiene			Not detected	5.4	08/20/09	09:41	SR

Client Sample ID			MW3-081409				
Collection Date			08/14/09				
York Sample ID			09080524-02				
Matrix			WATER				
Parameter	Method	Units	Results	MDL	Analysis Date	Analysis Time	Analyst
Hexachlorocyclopentadiene			Not detected	5.4	08/20/09	09:41	SR
Hexachloroethane			Not detected	5.4	08/20/09	09:41	SR
Indeno(1,2,3-cd)pyrene			Not detected	5.4	08/20/09	09:41	SR
Isophorone			Not detected	5.4	08/20/09	09:41	SR
Naphthalene			Not detected	5.4	08/20/09	09:41	SR
Nitrobenzene			Not detected	5.4	08/20/09	09:41	SR
n-Nitroso-di-n-propylamine			Not detected	5.4	08/20/09	09:41	SR
n-Nitrosodiphenylamine			Not detected	5.4	08/20/09	09:41	SR
Pentachlorophenol			Not detected	5.4	08/20/09	09:41	SR
Phenanthrene			Not detected	5.4	08/20/09	09:41	SR
Phenol			Not detected	5.4	08/20/09	09:41	SR
Pyrene			Not detected	5.4	08/20/09	09:41	SR
Volatiles, Target Cmpd. List (TCL)	SW846-8260	ug/L	---	---	08/19/09	11:11	SS
1,1,1-Trichloroethane			Not detected	5.0	08/19/09	11:11	SS
1,1,2,2-Tetrachloroethane			Not detected	5.0	08/19/09	11:11	SS
1,1,2-Trichloroethane			Not detected	5.0	08/19/09	11:11	SS
1,1,2-Trichlorotrifluoroethane (Freon 113)			Not detected	5.0	08/19/09	11:11	SS
1,1-Dichloroethane			Not detected	5.0	08/19/09	11:11	SS
1,1-Dichloroethene			Not detected	5.0	08/19/09	11:11	SS
1,2,4-Trichlorobenzene			Not detected	5.0	08/19/09	11:11	SS
1,2-Dibromo-3-Chloropropane			Not detected	5.0	08/19/09	11:11	SS
1,2-Dibromoethane (ethylene dibromide)			Not detected	5.0	08/19/09	11:11	SS
1,2-Dichlorobenzene			Not detected	5.0	08/19/09	11:11	SS
1,2-Dichloroethane			Not detected	5.0	08/19/09	11:11	SS
1,2-Dichloroethylene (cis-)			Not detected	5.0	08/19/09	11:11	SS
1,2-Dichloroethylene(trans-)			Not detected	5.0	08/19/09	11:11	SS
1,2-Dichloropropane			Not detected	5.0	08/19/09	11:11	SS
1,3-Dichlorobenzene			Not detected	5.0	08/19/09	11:11	SS
1,4-Dichlorobenzene			Not detected	5.0	08/19/09	11:11	SS
2-Butanone			Not detected	5.0	08/19/09	11:11	SS
2-Hexanone			Not detected	5.0	08/19/09	11:11	SS
4-Methyl-2-pentanone			Not detected	5.0	08/19/09	11:11	SS
Acetone			Not detected	5.0	08/19/09	11:11	SS
Benzene			Not detected	5.0	08/19/09	11:11	SS
Bromodichloromethane			Not detected	5.0	08/19/09	11:11	SS
Bromoform			Not detected	5.0	08/19/09	11:11	SS
Bromomethane			Not detected	5.0	08/19/09	11:11	SS
Carbon disulfide			Not detected	5.0	08/19/09	11:11	SS
Carbon tetrachloride			Not detected	5.0	08/19/09	11:11	SS
Chlorobenzene			Not detected	5.0	08/19/09	11:11	SS

Client Sample ID			MW3-081409				
Collection Date			08/14/09				
York Sample ID			09080524-02				
Matrix			WATER				
Parameter	Method	Units	Results	MDL	Analysis Date	Analysis Time	Analyst
Chloroethane			Not detected	5.0	08/19/09	11:11	SS
Chloroform			Not detected	5.0	08/19/09	11:11	SS
Chloromethane			Not detected	5.0	08/19/09	11:11	SS
cis-1,3-Dichloropropene			Not detected	5.0	08/19/09	11:11	SS
Dibromochloromethane			Not detected	5.0	08/19/09	11:11	SS
Dichlorodifluoromethane			Not detected	5.0	08/19/09	11:11	SS
Ethylbenzene			Not detected	5.0	08/19/09	11:11	SS
Isopropylbenzene (Cumene)			Not detected	5.0	08/19/09	11:11	SS
Methyl tert-butyl Ether (MTBE)			Not detected	5.0	08/19/09	11:11	SS
Methylene chloride			Not detected	5.0	08/19/09	11:11	SS
Styrene			Not detected	5.0	08/19/09	11:11	SS
Tetrachloroethene			Not detected	5.0	08/19/09	11:11	SS
Toluene			Not detected	5.0	08/19/09	11:11	SS
trans-1,3-Dichloropropene			Not detected	5.0	08/19/09	11:11	SS
Trichloroethene			Not detected	5.0	08/19/09	11:11	SS
Trichlorofluoromethane			Not detected	5.0	08/19/09	11:11	SS
Vinyl chloride			Not detected	5.0	08/19/09	11:11	SS
Xylenes (total)			Not detected	5.0	08/19/09	11:11	SS
BOD (5-day), Carbonaceous	SM5210B	mg/L	Not detected	1.0	08/23/09	15:53	PAM
Chloride	EPA300/SW905 6	mg/L	517	5.0	08/20/09	16:58	SC
Flashpoint	ASTM D93	Degrees F	>200	---	08/19/09	14:54	MZ
Nitrite + Nitrate Nitrogen	SW846-9065/E300m	mg/L	5.90	0.01	08/19/09	23:53	SC
Non-Polar Material	EPA 1664A	mg/L	Not detected	1.5	08/21/09	11:10	AS
pH	SM 4500-H+ B	units	8.50	---	08/17/09	16:11	MZ
Phenols, Total	EPA 420.1	mg/L	Not detected	0.05	08/21/09	12:01	AS
Total Kjeldahl Nitrogen	SM 4500-NorgB	mg/L	0.48	0.10	08/21/09	13:54	SC
Total Nitrogen	SM 4500N	mg/L	6.38	0.1	08/21/09	13:54	SC
Total Solids	SM 2540B	mg/L	1826	0.5	08/18/09	16:09	AA
Total Suspended Solids	SM 2540D	mg/L	21.0	0.5	08/18/09	15:33	AA

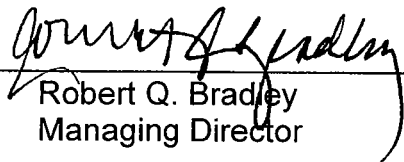
Units Key: For Waters/Liquids: mg/L = ppm ; ug/L = ppb For Soils/Solids: mg/kg = ppm ; ug/kg = ppb

Report Date: 8/21/2009
Client Project ID: 909132
York Project No.: 09080524

Notes for York Project No. 09080524

1. The MDL (Minimum Detectable Limit) reported is adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. This MDL is the REPORTING LIMIT and is based upon the lowest standard utilized for calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation. CBOD₅ was received out of hold time.
6. All analyses conducted met method or Laboratory SOP requirements.
7. It is noted that no analyses reported herein were subcontracted to another laboratory.

Approved By: _____


Robert Q. Bradley
Managing Director

Date: 8/21/2009

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 09080524

Client Information Company: <u>Hydro Tech Environmental Corp</u> Address: <u>1111 Fulton St.</u> <u>2nd Floor, Brooklyn, NY 11238</u> Phone No. <u>(718) 636-0800</u> Contact Person: <u>Timothy Lo</u> <u>Hydro Tech Environmental Corp</u> E-Mail Address: _____		Report To: Company: <u>Samp</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: <u>Samp</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Client Project ID <u>909132</u> Purchase Order No. <u>3047</u>		Turn-Around Time 24 hr _____ 48 hr _____ 72 hr _____ 5 Day _____ Standard ☒		Report Type/Deliverables Summary Results Only ☒ QA/QC Summary _____ RCP Package _____ ASP B Pkg _____ ASP A Pkg _____ Excel format _____ EDD _____ OTHER _____	
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Print Clearly and Legibly. All Information must be complete.
Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)
Ryan Mandelbach (Langan)
Name (printed)

Volatiles	Semi-Volatiles	Metals	Misc. Org.	Full Lists	Miscellaneous Parameters	Special Instructions
8260 full 624 STARS BTEX MTBE TCL list TAGM CT RCP Arom. Halog. App. IX 8021B list	TICs Site Spec. SPLP or TCLP Benzene Nassau Co. Suffolk Co. Ketones Xylenes TCDF list TICs 524.2 502.2 SPLP or TCLP TCLP BNA 1608 PCB	RCRA 8 PP13 TAL CT15 Total Dissolved SPLP or TCLP Indio Metals Hg, Pb, As, Cd Cr, Ni, Be, Fe Se, Ti, Sb, Cu, Methane As, Mn, Ar, Ag, Hg	TPH GRO TPH DRO CT ETPH NY 310-13 TPH 418.1 Air TO14A Air TO15 Air STARS Air VPH Air TCA Methane Helium	Pri. Poll. TCL Organics TAL MacCN Full TCLP Full App. IX Part 360 Residue Part 360 Residue Part 360 Residue Part 360 Residue NYCDEP Sewer NYCDEP Sewer TAGM	Conductivity Nitrate Nitrite TKN Cyanide-T Cyanide-A Total Nitrogen Ammonia-N BOD5 Chloride Phosphate BOD28 COD Total Phos. Aqueous Tox. F.O.G. Total Solids pH TDS MBAS TPH-IR	Field Filtered ☐ Lab to Filter ☐

Choose Analyses Needed from the Menu Above and Enter Below

Sample Identification	Date Sampled	Sample Matrix	TCL List	ATCL	Other	Container Description(s)
MW1-081409	8/14/09 0840	GW	TCL			NYCDEP 2-11 Amber
MW3-081409	8/14/09 1200	GW	TCL			NYCDEP 1-1 Amber w/ H ₂ O ₂
						1-1 plastic
						1-500ml plastic
						1-250ml plastic
						Note: Please SPP attached for NYCDEP parameters
						1-250 ml amber w/ H ₂ O ₂
						2-40 ml w/ H ₂ O ₂
						(2 SETS)

Comments <u>Please send a copy of this report to:</u> <u>Susan Gorman (Langan)</u> <u>Hydro Tech Environmental Corp</u> <u>1111 Fulton St.</u> <u>2nd Floor, Brooklyn, NY 11238</u> <u>(718) 636-0800</u> <u>Hydro Tech Environmental Corp</u> <u>Hydro Tech Environmental Corp</u>	Preservation Check those Applicable 4°C _____ Frozen _____ MeOH _____ HCl _____	4°C _____ HNO ₃ _____ 4°C _____ H ₂ O ₂ _____	4°C _____ H ₂ SO ₄ _____ ZnAc _____ Ascorbic _____ Other _____	Temperature on Receipt <u>4.2 °C</u>	
	Samples Relinquished By <u>Timothy Lo</u> Date/Time <u>8/14/09</u>	Samples Relinquished By <u>Timothy Lo</u> Date/Time <u>8/14/09</u>	Samples Received By <u>Timothy Lo</u> Date/Time <u>8/14/09 1250pm</u>	Samples Received in LAB by <u>Timothy Lo</u> Date/Time <u>8/17/09 1800</u>	
	Samples Relinquished By Date/Time	Samples Relinquished By Date/Time	Samples Received in LAB by Date/Time	Samples Received in LAB by Date/Time	

09080524

TABLE A
LIMITATIONS FOR EFFLUENT TO SANITARY OR COMBINED SEWERS

Parameter ¹	Daily Limit	Units	Sample Type	Monthly Limit
Non-polar material ²	50	mg/l	Instantaneous	—
pH	5-12	SU's	Instantaneous	—
Temperature	< 150	Degree F	Instantaneous	—
Flash Point	> 140	Degree F	Instantaneous	—
Cadmium	2 0.69	mg/l mg/l	Instantaneous Composite	— —
Chromium (VI)	5	mg/l	Instantaneous	—
Copper	5	mg/l	Instantaneous	—
Lead	2	mg/l	Instantaneous	—
Mercury	0.05	mg/l	Instantaneous	—
Nickel	3	mg/l	Instantaneous	—
Zinc	5	mg/l	Instantaneous	—
Benzene	134	ppb	Instantaneous	57
Carbontetrachloride	—	—	Composite	—
Chloroform	—	—	Composite	—
1,4 Dichlorobenzene	—	—	Composite	—
Ethylbenzene	380	ppb	Instantaneous	142
MTBE (Methyl-Tert-Butyl-Ether)	50	ppb	Instantaneous	—
Naphthalene	47	ppb	Composite	19
Phenol	—	—	Composite	—
Tetrachloroethylene (Perc)	20	ppb	Instantaneous	—
Toluene	74	ppb	Instantaneous	28
1,2,4 Trichlorobenzene	—	—	Composite	—
1,1,1 Trichloroethane	—	—	Composite	—
Xylenes (Total)	74	ppb	Instantaneous	28
PCB's (Total) ³	1	ppb	Composite	—
Total Suspended Solids (TSS)	350 ⁴	mg/l	Instantaneous	—
CBOD ⁵	—	—	Composite	—
Chloride ⁵	—	—	Instantaneous	—
Total Nitrogen ⁵	—	—	Composite	—
Total Solids ⁵	—	—	Instantaneous	—
Other				

- All handling and preservation of collected samples and laboratory analyses of samples shall be performed in accordance with 40 C.F.R. pt. 136. If 40 C.F.R. pt. 136 does not cover the pollutant in question, the handling, preservation, and analysis must be performed in accordance with the latest edition of "Standard Methods for the Examination of Water and Wastewater." All analyses shall be performed using a detection level less than the lowest applicable regulatory discharge limit. If a parameter does not have a limit, then the detection level is defined as the least of the Practical Quantitation Limits identified in NYSDEC's Analytical Detectability and Quantitation Guidelines for Selected Environmental Parameters, December 1988.
- Analysis for *non-polar materials* must be done by EPA method 1664 Rev. A. Non-Polar Material shall mean that portion of the oil and grease that is not eliminated from a solution containing N-Hexane, or any other extraction solvent the EPA shall prescribe, by silica gel absorption.
- Analysis for PCB's is required if *both* conditions listed below are met:
 - if proposed discharge $\geq 10,000$ gpd;
 - if duration of a discharge > 10 days.

Analysis for PCB's must be done by EPA method 608 with MDL= ≤ 65 ppt. PCB's (total) is the sum of PCB-1242 (Arochlor 1242), PCB-1254 (Arochlor 1254), PCB-1221 (Arochlor 1221), PCB-1232 (Arochlor 1232), PCB-1248 (Arochlor 1248), PCB-1260 (Arochlor 1260) and PCB-1016 (Arochlor 1016).

- For discharge $\geq 10,000$ gpd, the TSS limit is 350 mg/l. For discharge $< 10,000$ gpd, the limit is determined on a case by case basis.
- Analysis for Carbonaceous Biochemical Oxygen Demand (CBOD), Chloride, Total Solids and Total Nitrogen are required if proposed discharge $\geq 10,000$ gpd. Total Nitrogen = Total Kjeldahl Nitrogen (TKN) + Nitrite (NO₂) + Nitrate (NO₃).