



City of New York
Parks & Recreation

Adrian Benepe
Commissioner

The Arsenal
Central Park
New York, New York 10065

NYS DEC REGION 2
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2010 APR 21 AM 10:48

Capital Projects

Olmsted Center
Flushing Meadows Corona Park
Flushing, New York 11368

Thérèse Braddick
Deputy Commissioner

John J. Natoli, P.E., Chief Engineer
(718) 760-6725/john.natoli@parks.nyc.gov

Ms. Ioana Munteanu-Ramnic, P.E.
Environmental Engineer
NYS-DEC-Region 2
1 Hunter's Point Plaza
47-40 21st Street
Long Island City, NY 11101

April 16, 2010

Re: **SUBMITTAL OF REQUESTED INFORMATION**
ELMHURST PARK, QUEENS BOROUGH

Dear Ms. Munteanu-Ramnic,

The New York City Department of Parks and Recreation (DPR) hereby provides the New York State Department of Environmental Conservation (DEC) with information requested concerning the Elmhurst Park site in Queens. The four attachments are described as follows.

Attachment 1 – Laboratory data for the clean fill used for the cover material

Attachment 2 – Schematic design for the former KeySpan Gas Tank Site, Phase 2

Attachment 3 - Grading plan – North, dated 1/31/09

Attachment 4 – Grading plan, dated 7/28/09

Please call me at (718) 760-6725 should you have any questions.

Sincerely,

Marty Rowland, Ph.D., P.E.
Senior Project Manager for Site Remediation
New York City Department of Parks and Recreation
Capital Projects Division

cc: Nancy Prince, NYC-DPR Project Manager



MEMORANDUM

TO: HELEN OGRINZ / NANCY PRINCE

FROM: DINYAR MASTER..

DATE: 9/14/09

LOG NUMBER: 2009 / 943

CONTRACT NO: Q492-107M

THE CONSTRUCTION OF A PLAYGROUND & COMFORT STATION GAS TANK PARK LOCATED BETWEEN 7TH AVENUE & GRAND AVENUE OPPOSITE 79TH STREET, QUEENS

SUBJECT: TRANSMITTAL OF SHOP DRAWING, CATALOGUE CUTS, SAMPLES

Item No.	Description	Code	Date	Disposition	Date Ret. To Contr.
	Item 22 – Seven copies of Borrowed Fill (Complete submittal package)			Approved	9/17/09

Code: Please indicate if item is SD for Shop Drawing, CC for Catalogue Cut, or S for sample.

CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS IN THE FIELD. HE/SHE SHALL COORDINATE ALL WORK SHOWN ON THIS DRAWING WITH THAT OF OTHER CONTRACTORS, SUB-CONTRACTORS & TRADES. APPROVAL DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR FULL COMPLIANCE WITH THE CONTRACT DRAWINGS.

Please review with comments and return:

3 Copies to **Dinyar Master** - Construction Division

2 Copies to **Contractor**

Company Name, Address & Tel.#:..... **WILLIAM A. GROSS CONSTRUCTION ASSOCIATES**
 117 South 4th Street
 New Hyde Park, N.Y. 11040
 Tel: (516) 437-0909

 Return all approved Samples to **Dinyar Master**

Construction (3), Design (1), Contractor (2)

ITEM NO. 22

Submittal Package for Borrowed Fill Material

**PROJECT
ELMHURST GAS TANK PARK II
Q492-107M**

*Approved 9/17/09
N. P. ...*

Contents:

- NY Dirt Portfolio of Material
- Sieve Analysis
- Analytical Result for Material # 9030055
- Analytical Result for Material # 8100970
- Analysis of Analytical Data

APPENDIX A

NY DIRT PORTFOLIO

Specialty Back-fill Soil and Rock Products

This is a specialized portfolio and analysis, detailing certified clean "Virgin" back fill material that meets the following specifications:

- 1- DEC Soil Cleanup Objectives for (TAGM 4046)
- 2- DEC Soil Cleanup Objectives for Subpart 375-6:
"Remedial Program Soil Cleanup Objectives"

This Soil Material is the ideal product used for:

Housing Developments
Coastal Erosion
Coastal Rip Rap Stone
Decorative Landscaping
Oil Spill Absorption
Brownfield's

This binder will give you a breakdown of the site descriptions, chemical analysis, and a narrative indicating its purity.

Dr. James M. Cervino

New York Dirt

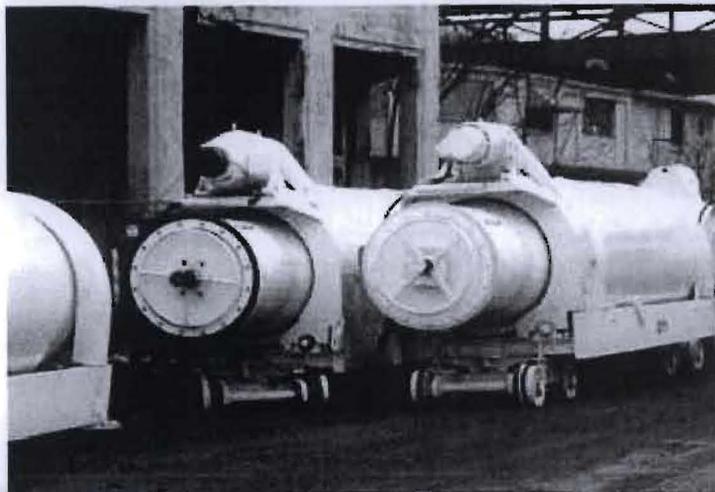
**New York Dirt
Contracting**

RESTORATION & CONSERVATION
ADVISEMENT GROUP LLC
OF NORTH EAST QUEENS

Dr. James Cervino
9-22 119th Street
College Point, NY
Phone: 917-602-5287
Email: jcervino@whio.edu

**East
Side
Access
Tunnel
Long
Island
City
Queens**





This is the excavation tunnel in the Long Island City East Side Access Tunnel. Point of entry is represented by the train tracks which extends 2 miles into the earth. The material is drilled or dynamited and brought out through this tunnel. Pulverized material is in the form of soil with varying sive sizes. Sive and chemical analysis is in the enclosed document. Soil material and large boulderous metamorphic stones are also available for coastal bulkheads and jetties to protect against shoreline erosion.



Material is transported over from the access tunnel and stored on Queens Street, 450 yards from the East Side Access Tunnel.



Soil material and large boulderous metamorphic stones are also available for coastal bulkheads and jetties to protect against shoreline erosion. Material is taken from the pile and then trucked to any location in the 5 Boroughs.

APPENDIX B

SIEVE ANALYSIS



INDEPENDENT TESTING LABORATORIES, INC.

"SERVING INDUSTRY WORLDWIDE SINCE 1976"

129-11 18th Avenue - College Point, N.Y. 11356

(718) 961-8530 Fax (718) 762-1334 E-mail: testing@itllabs.com

SOIL WASH SIEVE ANALYSIS REPORT

Project: 9-22 119th Street College Point N.Y.

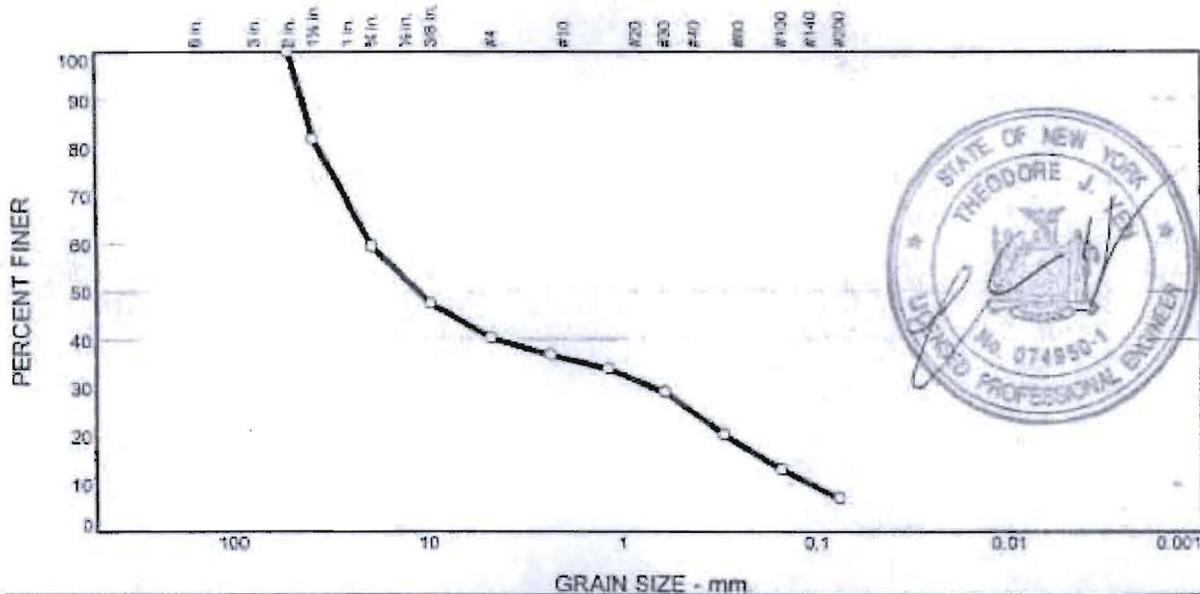
Project No.: D-1220

Client: Restoration Conservation & N.Y. Dirt

Sample Number: 1

Location: EASTSIDE ACCESS LLC

Date: 5-28-09



% Cobbles	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	40.5	19.2	4.3	11.4	17.7	6.9	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2	100.0		
1.5	81.7		
3/4	59.5		
3/8	47.4		
#4	40.3		
#8	36.7		
#16	33.8		
#30	29.0		
#50	20.2		
#100	12.9		
#200	6.9		

Material Description		
PL=	<u>Atterberg Limits</u> LL=	PI=
D ₈₅ = 40.1104	Coefficients D ₆₀ = 19.3716	D ₅₀ = 11.0551
D ₃₀ = 0.6930	D ₁₅ = 0.1833	D ₁₀ = 0.1075
C _u = 180.24	C _c = 0.23	
USCS=	<u>Classification</u> AASHTO=	
Remarks		

* (no specification provided)

Figure

ALL REPORTS ARE THE CONFIDENTIAL PROPERTY OF OUR CLIENTS AND THE INFORMATION CONTAINED HEREIN MAY NOT BE PUBLISHED OR REPRODUCED WITHOUT OUR WRITTEN APPROVAL.

APPENDIX C

LAB ANALYTICAL DATA
w/ ANALYSIS

RESTORATION & CONSERVATION ADVISEMENT
GROUP LLC
OF NORTH EAST QUEENS

Dr. James M. Cervino
e-mail: jcervino@whoi.edu
Phone: 917-620-5287

Documentation from Restoration & Conservation AdviseMENT Group LLC of North East Queens.

This certification cannot be used or transferred between parties without permission of Dr. Cervino and New York Dirt.

Tampering with this document is illegal and punishable by State & City law.

Attention New York Dirt;

March 11th, 2009

Restoration & Conservation AdviseMENT Group (RCAG) confirms my technical analysis of the "mole rock" or pure metamorphic rock, located at the East Side Access Tunnel in Queens needed for certification/approvals from the School Construction Authority, and the New York State DEC.

I hereby certify that the material tested by York Analytical meets the certification criteria published by New York State DEC (see web-site) of DEC Part 375-6 and TAGM 4046 requirements, accessible at the following websites, respectively:

<http://www.dec.ny.gov/regs/15507.html>

<http://www.dec.ny.gov/regulations/2612.html>

DEC Part 375-6 analysis was conducted on this material for pesticides and herbicides. DEC 375-6 is a more sensitive testing threshold with regards to MDL, or the Maximum Daily Limit, than the original DEC TAGM 4046 testing threshold. Examining the attached York Technical Report, it is evident that the MDL of 4,4'-DDD, for example, is 1.6 using DEC 375-6, where as if TAGM 4046 was employed the MDL would be 16, as seen on previous York Technical Reports. Since the presence of pesticides and herbicides is detrimental in even minute quantities, this DEC 375-6 analysis provides the most conclusive results because of this sensitivity.

**** TAGM 4046 for all other chemicals is equally sensitive****

Thank You.

Dr James M. Cervino

RESTORATION & CONSERVATION ADVISEMENT GROUP
LLC
OF NORTH EAST QUEENS

Dr. James M. Cervino
9-22 119th street
College Point, NY
e-mail: jcervino@whoi.edu phone: 917-620-5287

*Certification of the Source & Analysis Conducted by Dr. James M. Cervino is
classified as Pure Metamorphic volcanic rock or stone.*

*This analysis cannot be used or transferred between parties without permission of Dr. Cervino and
New York Dirt.*

Tampering with this document is illegal and punishable by State & City law.

March 11th 2009

**SAMPLE ID: #09030055-01 for the East Side Access Tunnel in Long Island City Queens
DEPTH 130 feet is dated to be approximately 1 million years old.**

*NOTE: The York Environmental Analysis Sample collection date was respectively taken on March 3rd 2009 &
received to York Analytical, it is the report that was written on March 11, 2009.*

This letter confirms that samples collected from the Eastside Access Extension Tunnel (*Queens
to Manhattan*) 29-85 Northern Blvd. Long Island City, Block #403 Lot #1 meet the strict
requirements of the DEC TAGM #4046 CRITERIA.

<http://www.dec.ny.gov/regulations/2612.html>

This letter confirms that samples collected from the Eastside Access Extension Tunnel (*Queens
to Manhattan*) 29-85 Northern Blvd. Long Island City, Block #403 Lot #1 meet the strict
requirements of the DEC 375-6 CRITERIA with regards to Pesticides and Herbicides.

<http://www.dec.ny.gov/regs/15507.html>

Page 6 of 6 of the York Project No. 09030055-01 :

The following tests for Hexavaent Cr+6 show a non-detected (see Attachment Hex Cr6+). These
data indicate that all environmental standards pass the NY State DEC and NJDEP criteria levels.

Included in this page, is a breakdown of "any chemical signatures showing values" and the
comparative analysis against the DEC #4046 criteria objectives.

Page 2 of 6 of the York Project No. 09030055-01: The chemical signature for Aluminum is
10800 mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background
is 33,000 ppm or Mg/kg thereby passing DEC standards.

Page 2 of 6 of the York Project No. 09030055-01: The chemical signature for Arsenic is 1.15
mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 7.5
of SB ppm or Mg/kg thereby passing DEC standards.

Page 3 of 6 of the York Project No. 09030055-01: The chemical signature for Barium is 115
mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 300
ppm or Mg/kg thereby passing DEC standards.

Page 3 of 6 of the York Project No. 09030055-01: The chemical signature for Calcium is 4610 mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 130-35000 or SB ppm or Mg/kg thereby passing DEC standards.

Page 3 of 6 of the York Project No. 09030055-01: The chemical signature for Chromium is 12.5 mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 1.5-40 ppm or Mg/kg thereby passing DEC standards. CLEAN UP OBJECTIVE IS 10 OR SB***. This material is naturally occurring in the soil and not of a hazardous nature that falls under EPA and RCRA.

Page 3 of 6 of the York Project No. 08100970-A: The chemical signature for Cobalt is 13.2 mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 2.5-60 mg/kg ppm or 30-SB ppm or Mg/kg as a clean-up objective, thereby passing DEC standards.

Page 3 of 6 of the York Project No. 09030055-01: The chemical signature for Copper is 41.0 mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 1.5-50 mg/kg ppm or 50-SB ppm or Mg/kg as a clean-up objective, thereby passing DEC standards. This material is naturally occurring in the soil and not of a hazardous nature that falls under EPA and RCRA.

Page 3 of 6 of the York Project No. 09030055-01: The chemical signature for Iron is 12,600 mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 2000-550,000 mg/kg ppm or 2000-SB ppm or Mg/kg as a clean-up objective, thereby passing DEC standards.

Page 3 of 6 of the York Project No. 09030055-01: The chemical signature for Lead is 1.18 mg/kg or PPM respectively. ***Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.

Page 3 of 6 of the York Project No. 09030055-01: The chemical signature for Magnesium is 9,870 mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 100-5000 mg/kg ppm or SB ppm or Mg/kg as a clean-up objective, thereby passing DEC standards.

Page 3 of 6 of the York Project No. 09030055-01: The chemical signature for Manganese is 496 mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 50-5000 mg/kg ppm or SB ppm or Mg/kg as a clean-up objective, thereby passing DEC standards.

Page 3 of 6 of the York Project No. 09030055-01: The chemical signature for Nickel is 22.2 mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 0.5-25 mg/kg ppm or 13-SB Mg/kg as a clean-up objective, thereby passing DEC standards. This material is naturally occurring in the soil and not of a hazardous nature that falls under EPA and RCRA.

Page 3 of 6 of the York Project No. 09030055-01: The chemical signature for Potassium is 8,060 mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 8,500-43,000 mg/kg ppm or SB ppm or mg/kg as a clean-up objective, thereby passing DEC standards.

Page 3 of 6 of the York Project No. 09030055-01: The chemical signature for sodium is 343 mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 6,000-8,000 mg/kg ppm or SB ppm or Mg/kg as a clean-up objective, thereby passing DEC standards.

Page 3 of 6 of the York Project No. 09030055-01: The chemical signature for Vanadium is 30.2 mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 1-300 mg/kg ppm or SB ppm or 150 or SB Mg/kg as a clean-up objective, thereby passing DEC standards.

Page 3 of 6 of the York Project No. 09030055-01: The chemical signature for Zinc is 30.2 mg/kg or PPM respectively. The DEC criteria of TAGM 4046 Eastern USA Background is 9-50 mg/kg ppm or 20ppm or SB Mg/kg as a clean-up objective, thereby passing DEC standards.

SUMMARY OF FINDINGS

Soil data submitted on 3-2-2009 demonstrates detectable chemical contamination restricted to the Heavy Metal grouping provided by the New York State Department of Environmental Conservation (NY DEC). Comparison of this data to the DEC's TAGM 4046 soil concentration limits reveal that the majority of the chemical signatures were at a non-detection level. For those components found at a detectable level, all fall within or below eastern USA background levels, which basically PASSES the NY DEC TAGM#4046 criteria.

Technical and Administrative Guidance Memorandums (TAGMs) are established by DEC's Department of Environmental Remediation. TAGM 4046 sets cleanup objectives specific to soil matrices, so as to promote chemical levels that prevent detrimental effects on human health and seepage into groundwater. The attached tables show a direct comparison between TAGM 4046 limits and the current site analysis, where the last column entitled *Results of multicomponent analysis* refers to **SAMPLE ID: #09030055-01**. The following provides a summary of the information provided in Tables 1-4.

VOLATILE ORGANIC COMPOUNDS (VOCs) AND SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)

Samples were analyzed using EPA Method 8260 Volatile Organic Compounds by Gas Chromatography/Mass Spectroscopy (GC/MS) and EPA Method 8270 Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectroscopy (GC/MS). All 59 VOCs and 67 SVOCs were analyzed. All VOCs investigated in these samples provided to YORK are not present at detectable levels.

PAGE 2 of 6

POLYCHLORINATED BIPHENOLS (PCBs)

The York Technical Analysis Report shows all PCBs were investigated by EPA Method 8082 Polychlorinated Biphenyls by Gas Chromatography, and concentrations reveal non-detectable levels.

PAGE 5 through 6

The York Technical Analysis Report shows recommended soil cleanup objectives for Volatile Organic Contaminants (VOCs) as listed in TAGM 4046. Of these VOCs, data is lacking for benzoic acid, 2-butanone, 1,1-dichloroethene, 1,2-Dichloroethene (trans), 4-methyl-2-pentanone, and trichloroethene. Of the other 26 contaminants, all were found to be at non-detectable limits.

PAGE 4 through 6

The York Technical Analysis Report shows recommended soil cleanup objectives for Semi-Volatile Organic Contaminants (SVOCs) as listed in TAGM 4046. All 44 contaminants were found to be at non-detectable limits.

PAGE 2 of 6

The York Technical Analysis Report shows recommended soil cleanup objectives for Organic Pesticide Herbicides and PCBs as listed in DEC 375-6. Of these compounds, data is lacking for 2,4-D, Dibenzo-P-dioxins, silvex, and 2,4,5-T. All the listed contaminants were found to be at non-detectable limits.

Thank You,

Dr. James M. Cervino

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

**Restoration & Conservation
Advisement Group & NY Dirt
9-22 119th Street
College Point, NY 11356
Attention: Dr. James Cervino**

Report Date: 3/5/2009

Re: Client Project ID: Eastside Access Long Island City
York Project No.: 09030055

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854



Report Date: 3/5/2009
 Client Project ID: Eastside Access Long Island City
 York Project No.: 09030055

Restoration & Conservation
 Advisement Group & New York Dirt
 9-22 119th Street
 College Point, NY 11356
 Attention: Dr. James Cervino

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 03/02/09. The project was identified as your project "Eastside Access Long Island City".

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			S1/Eastside Access LIC Queens NY	
York Sample ID			09030055-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
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			Not detected	0.017
PCB 1260			Not detected	0.017
Herbicides, NY TAGM list	EPA SW846-8151	ug/kg	---	---
2,4,5-T			Not detected	100
2,4,5-TP (Silvex)			Not detected	100
2,4-D			Not detected	100
Metals, Target Analyte List (TAL)	SW846-6010	mg/kg	---	---
Aluminum			10800	1.00
Antimony			Not detected	1.00
Arsenic			1.15	1.00

YORK

Client Sample ID			S1/Eastside Access LIC Queens NY	
York Sample ID			09030055-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Barium			115	1.00
Beryllium			Not detected	0.500
Cadmium			Not detected	0.500
Calcium			4610	2.00
Chromium			12.5	0.500
Cobalt			13.2	1.00
Copper			35.8	1.00
Iron			12600	1.00
Lead			1.18	1.00
Magnesium			9870	2.00
Manganese			496	1.00
Nickel			22.2	1.00
Potassium			8060	3.00
Selenium			Not detected	1.00
Silver			Not detected	1.00
Sodium			343	5.00
Thallium			Not detected	1.00
Vanadium			30.2	2.00
Zinc			67.9	2.00
Mercury	SW846-7471	mg/kG	Not detected	0.10
Pesticides, NY TAGM List	SW846-3550B/8081	ug/Kg	---	---
4,4'-DDD			Not detected	1.6
4,4'-DDE			Not detected	1.6
4,4'-DDT			Not detected	1.6
Aldrin			Not detected	0.8
alpha-BHC			Not detected	0.8
beta-BHC			Not detected	0.8
Chlordane, Total			Not detected	2.0
delta-BHC			Not detected	0.8
Dieldrin			Not detected	0.33
Endosulfan I			Not detected	0.8
Endosulfan II			Not detected	1.6
Endosulfan sulfate			Not detected	1.6
Endrin			Not detected	1.6
Endrin aldehyde			Not detected	1.6
Endrin ketone			Not detected	1.6
gamma-BHC (Lindane)			Not detected	0.8
gamma-Chlordane			Not detected	0.8
Heptachlor			Not detected	0.8
Heptachlor epoxide			Not detected	0.8
Methoxychlor			Not detected	8.0
Mitotane			Not detected	1.6
Parathion			Not detected	1.6
Toxaphene			Not detected	20
BNA, NY TAGM List	SW846-8270C	ug/Kg	---	---
1,2,4-Trichlorobenzene			Not detected	165
1,2-Dichlorobenzene			Not detected	165
1,3-Dichlorobenzene			Not detected	165
1,4-Dichlorobenzene			Not detected	165
2,4,5-Trichlorophenol			Not detected	165
2,4,6-Trichlorophenol			Not detected	165

YORK

Client Sample ID			S1/Eastside Access LIC Queens NY	
York Sample ID			09030055-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
2,4-Dichlorophenol			Not detected	165
2,4-Dimethylphenol			Not detected	165
2,4-Dinitrophenol			Not detected	165
2,4-Dinitrotoluene			Not detected	165
2,6-Dinitrotoluene			Not detected	165
2-Chloronaphthalene			Not detected	165
2-Chlorophenol			Not detected	165
2-Methylnaphthalene			Not detected	165
2-Methylphenol			Not detected	165
2-Nitroaniline			Not detected	165
2-Nitrophenol			Not detected	165
3,3'-Dichlorobenzidine			Not detected	165
3-Methylphenol			Not detected	165
3-Nitroaniline			Not detected	165
4,6-Dinitro-2-methylphenol			Not detected	165
4-Bromophenyl phenyl ether			Not detected	165
4-Chloro-3-methyl phenol			Not detected	165
4-Chloroaniline			Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165
4-Methylphenol			Not detected	165
4-Nitroaniline			Not detected	165
4-Nitrophenol			Not detected	165
Acenaphthene			Not detected	165
Acenaphthylene			Not detected	165
Aniline			Not detected	165
Anthracene			Not detected	165
Benzidine			Not detected	165
Benzo(a)anthracene			Not detected	165
Benzo(a)pyrene			Not detected	165
Benzo(b)fluoranthene			Not detected	165
Benzo(g,h,i)perylene			Not detected	165
Benzo(k)fluoranthene			Not detected	165
Benzoic acid			Not detected	165
Benzyl alcohol			Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165
Bis(2-chloroethyl)ether			Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165
Butyl benzyl phthalate			Not detected	165
Chrysene			Not detected	165
Dibenz(a,h)anthracene			Not detected	165
Dibenzofuran			Not detected	165
Diethylphthalate			Not detected	165
Dimethylphthalate			Not detected	165
Di-n-butylphthalate			Not detected	165
Di-n-octylphthalate			Not detected	165
Fluoranthene			Not detected	165
Fluorene			Not detected	165
Hexachlorobenzene			Not detected	165
Hexachlorobutadiene			Not detected	165
Hexachlorocyclopentadiene			Not detected	165

YORK

Client Sample ID			S1/Eastside Access LIC Queens NY	
York Sample ID			09030055-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Hexachloroethane			Not detected	165
Indeno(1,2,3-cd)pyrene			Not detected	165
Isophorone			Not detected	165
Naphthalene			Not detected	165
Nitrobenzene			Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165
N-Nitrosodiphenylamine			Not detected	165
Pentachlorophenol			Not detected	165
Phenanthrene			Not detected	165
Phenol			Not detected	165
Pyrene			Not detected	165
Pyridine			Not detected	165
Volatiles, NY TAGM List	SW846-8260	ug/Kg	---	---
1,1,1,2-Tetrachloroethane			Not detected	10
1,1,1-Trichloroethane			Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10
1,1,2-Trichloro-1,2,2-trifluoroethane			Not detected	10
1,1,2-Trichloroethane			Not detected	10
1,1-Dichloroethane			Not detected	10
1,1-Dichloroethylene			Not detected	10
1,1-Dichloropropylene			Not detected	10
1,2,3-Trichlorobenzene			Not detected	10
1,2,3-Trichloropropane			Not detected	10
1,2,4-Trichlorobenzene			Not detected	10
1,2,4-Trimethylbenzene			Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10
1,2-Dibromoethane			Not detected	10
1,2-Dichlorobenzene			Not detected	10
1,2-Dichloroethane			Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10
1,2-Dichloropropane			Not detected	10
1,3,5-Trimethylbenzene			Not detected	10
1,3-Dichlorobenzene			Not detected	10
1,3-Dichloropropane			Not detected	10
1,4-Dichlorobenzene			Not detected	10
2,2-Dichloropropane			Not detected	10
2-Butanone (MEK)			Not detected	20
2-Chlorotoluene			Not detected	10
2-Hexanone			Not detected	20
4-Chlorotoluene			Not detected	10
Acetone			Not detected	20
Benzene			Not detected	10
Bromobenzene			Not detected	10
Bromochloromethane			Not detected	10
Bromodichloromethane			Not detected	10
Bromoform			Not detected	10
Bromomethane			Not detected	10
Carbon disulfide			Not detected	10
Carbon tetrachloride			Not detected	10
Chlorobenzene			Not detected	10
Chloroethane			Not detected	10

YORK

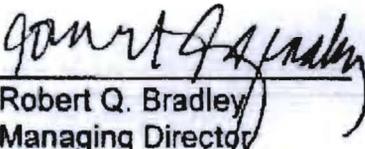
Client Sample ID			S1/Eastside Access LIC Queens NY	
York Sample ID			09030055-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Chloroform			Not detected	10
Chloromethane			Not detected	10
cis-1,3-Dichloropropylene			Not detected	10
Dibromochloromethane			Not detected	10
Dibromomethane			Not detected	10
Dichlorodifluoromethane			Not detected	10
Ethylbenzene			Not detected	10
Hexachlorobutadiene			Not detected	10
Isopropylbenzene			Not detected	10
Methyl isobutyl ketone (MIBK)			Not detected	20
Methylene chloride			Not detected	10
MTBE			Not detected	10
Naphthalene			Not detected	10
n-Butylbenzene			Not detected	10
n-Propylbenzene			Not detected	10
o-Xylene			Not detected	10
p- & m-Xylenes			Not detected	10
p-Isopropyltoluene			Not detected	10
sec-Butylbenzene			Not detected	10
Styrene			Not detected	10
tert-Butylbenzene			Not detected	10
Tetrachloroethylene			Not detected	10
Toluene			Not detected	10
trans-1,3-Dichloropropylene			Not detected	10
Trichloroethylene			Not detected	10
Trichlorofluoromethane			Not detected	10
Vinyl chloride			Not detected	10
Acrylonitrile	SW846-8260	ug/kg	Not detected	10
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.00
Hexavalent Chromium	SW846-7196A	mg/kg	Not detected	0.50

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. 09030055

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: 3/5/2009

YORK

YORK

ANALYTICAL LABORATORIES, INC.

120 RESEARCH DRIVE
STRATFORD, CT 06615

(203) 325-1371 FAX (203) 357-0166

EASTSIDE ACCESS TUNNEL / Field Chain-of-Custody Record *Queen N.Y.*

Page ___ of ___

York Project No.: *09030055*

Company Name <i>RESTORATION & CONSERVATION ADVICEMENT</i>	Report to: <i>DR JIM CERVINO</i>	Invoice to: <i>CERVINO + N.Y. DIRT</i>	Project ID/No. <i>EASTSIDE ACCESS LONG ISLAND CITY</i>	Samples Collected by (signature) <i>[Signature]</i>
				Name (printed) <i>DR JAMES CERVINO</i>

Sample No.	Location/ID	Date Sampled	Sample Matrix				Analyses Requested	Container Desc.
			Water	Soil	Air	Other		
<i>S1</i>	<i>EASTSIDE ACCESS LONG ISLAND CITY NEW YORK QUEENS N.Y.</i>						<i>TAGM 40%# PART 365</i>	

Temperature upon receipt at Lab <i>3.9 °C</i>	Chain-of-Custody Record
Samples Relinquished by <i>[Signature]</i>	Samples received by <i>[Signature]</i>
Samples Relinquished by <i>[Signature]</i>	Samples received in LAB by <i>[Signature]</i>
Date/Time	Date/Time <i>3-2-09 9:20AM</i>
Date/Time	Date/Time <i>3/2/09</i>

Comments/Special Instructions
ON FRONT SHEET: RESTORATION ADVICEMENT GROUP + N.Y. DIRT

Turn-Around Time Requested - Specify Date Expected if RUSH Requested. DATE DUE FOR RUSH:
7 STANDARD RUSH(Define)

YORK

ANALYTICAL LABORATORIES, INC.

120 RESEARCH DRIVE

STRATFORD, CT 06615

(203) 325-1371 Fax (203) 357-0166

EASTSIDE ACCESS TUNNEL / Field Chain-of-Custody Record *Queens N.Y.*

Page ___ of ___

York Project No.: *09030055*

Company Name <i>RESTORATION & CONSERVATION ADVISEMENT</i>	Report to: <i>DR JIM CERVINO</i>	Invoice to: <i>CERVINO + N.Y. DIRT</i>	Project ID/No. <i>EAST SIDE ACCESS LONG ISLAND CITY</i>	<i>[Signature]</i> Samples Collected by (signature)
				<i>DR JAMES CERVINO</i> Name (printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix				Analyses Requested	Container Desc.
			Water	Soil	Air	Other		
<i>S1</i>	<i>EASTSIDE ACCESS LONG ISLAND CITY NEW YORK QUEENS N.Y.</i>						<i>TAGM 40%# PART 365 375 (uses Pest Lo Extraction) also needs Cr+6 and acrylonitrile</i>	

Temperature upon receipt at Lab <i>3.9 °C</i>	Chain-of-Custody Record		<i>3-2-09 9:20AM</i>
<i>[Signature]</i> Samples Relinquished by	Date/Time	<i>[Signature]</i> Samples received by	Date/Time
<i>[Signature]</i> Samples Relinquished by	Date/Time	<i>[Signature]</i> Samples received in LAB by	Date/Time <i>3/2/09</i>

Comments/Special Instructions <i>ON FRONTSHEET: RESTORATION ADVISEMENT GROUP + N.Y. DIRT</i>	Turn-Around Time Requested - Specify Date Expected if RUSH Requested. DATE DUE FOR RUSH: <i>7</i> STANDARD RUSH(Define)
--	---

YORK

ANALYTICAL LABORATORIES, INC.

Technical Report

prepared for:

**Restoration & Conservation
Advisement Group
9-22 119th Street
College Point, NY 11356
Attention: James Cervino**

Report Date: 11/5/2008

Re: Client Project ID: Eastside Access

York Project No.: 08100970 A

CT License No. PH-0723

New Jersey License No. CT-005

New York License No. 10854



Report Date: 11/5/2008
 Client Project ID: Eastside Access
 York Project No.: 08100970 A

Restoration & Conservation
 Advisement Group
 9-22 119th Street
 College Point, NY 11356
 Attention: James Cervino

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 10/29/08. The project was identified as your project "Eastside Access".

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			S-1	
York Sample ID			08100970-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
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			Not detected	0.017
PCB 1260			Not detected	0.017
Herbicides, NY TAGM list	EPA SW846-8151	ug/kg	---	---
2,4,5-T			Not detected	100
2,4,5-TP (Silvex)			Not detected	100
2,4-D			Not detected	100
Metals, Target Analyte List (TAL)	SW846-6010	mg/kg	---	---
Aluminum			17500	1.00
Antimony			Not detected	1.00
Arsenic			2.90	1.00
Barium			172	1.00

YORK

Client Sample ID			S-1	
York Sample ID			08100970-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Beryllium			Not detected	0.500
Cadmium			Not detected	0.500
Calcium			1680	2.00
Chromium			36.6	0.500
Cobalt			20.3	1.00
Copper			41.0	1.00
Iron			25400	1.00
Lead			4.04	1.00
Magnesium			10300	2.00
Manganese			131	1.00
Nickel			38.0	1.00
Potassium			3280	3.00
Selenium			Not detected	1.00
Silver			Not detected	1.00
Sodium			390	5.00
Thallium			Not detected	1.00
Vanadium			56.8	2.00
Zinc			95.4	2.00
Mercury	SW846-7471	mg/kg	Not detected	0.10
Pesticides, NY TAGM 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-BHC			Not detected	8.00
beta-BHC			Not detected	8.00
Chlordane, Total			Not detected	20.0
delta-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
Endrin aldehyde			Not detected	16.0
Endrin ketone			Not detected	16.0
gamma-BHC (Lindane)			Not detected	8.00
gamma-Chlordane			Not detected	8.00
Heptachlor			Not detected	8.00
Heptachlor epoxide			Not detected	8.00
Methoxychlor			Not detected	80.0
Mitotane			Not detected	16.0
Parathion			Not detected	16.0
Toxaphene			Not detected	200
BNA, NY TAGM List	SW846-8270C	ug/Kg	---	---
1,2,4-Trichlorobenzene			Not detected	165
1,2-Dichlorobenzene			Not detected	165
1,3-Dichlorobenzene			Not detected	165
1,4-Dichlorobenzene			Not detected	165
2,4,5-Trichlorophenol			Not detected	165
2,4,6-Trichlorophenol			Not detected	165
2,4-Dichlorophenol			Not detected	165

YORK

Client Sample ID			S-1	
York Sample ID			08100970-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
2,4-Dimethylphenol			Not detected	165
2,4-Dinitrophenol			Not detected	165
2,4-Dinitrotoluene			Not detected	165
2,6-Dinitrotoluene			Not detected	165
2-Chloronaphthalene			Not detected	165
2-Chlorophenol			Not detected	165
2-Methylnaphthalene			Not detected	165
2-Methylphenol			Not detected	165
2-Nitroaniline			Not detected	165
2-Nitrophenol			Not detected	165
3,3'-Dichlorobenzidine			Not detected	165
3-Methylphenol			Not detected	165
3-Nitroaniline			Not detected	165
4,6-Dinitro-2-methylphenol			Not detected	165
4-Bromophenyl phenyl ether			Not detected	165
4-Chloro-3-methyl phenol			Not detected	165
4-Chloroaniline			Not detected	165
4-Chlorophenyl phenyl ether			Not detected	165
4-Methylphenol			Not detected	165
4-Nitroaniline			Not detected	165
4-Nitrophenol			Not detected	165
Acenaphthene			Not detected	165
Acenaphthylene			Not detected	165
Aniline			Not detected	165
Anthracene			Not detected	165
Benzidine			Not detected	165
Benzo(a)anthracene			Not detected	165
Benzo(a)pyrene			Not detected	165
Benzo(b)fluoranthene			Not detected	165
Benzo(g,h,i)perylene			Not detected	165
Benzo(k)fluoranthene			Not detected	165
Benzoic acid			Not detected	165
Benzyl alcohol			Not detected	165
Bis(2-chloroethoxy)methane			Not detected	165
Bis(2-chloroethyl)ether			Not detected	165
Bis(2-chloroisopropyl)ether			Not detected	165
Bis(2-ethylhexyl)phthalate			Not detected	165
Butyl benzyl phthalate			Not detected	165
Chrysene			Not detected	165
Dibenz(a,h)anthracene			Not detected	165
Dibenzofuran			Not detected	165
Diethylphthalate			Not detected	165
Dimethylphthalate			Not detected	165
Di-n-butylphthalate			Not detected	165
Di-n-octylphthalate			Not detected	165
Fluoranthene			Not detected	165
Fluorene			Not detected	165
Hexachlorobenzene			Not detected	165
Hexachlorobutadiene			Not detected	165
Hexachlorocyclopentadiene			Not detected	165
Hexachloroethane			Not detected	165

YORK

Client Sample ID			S-1	
York Sample ID			08100970-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Indeno(1,2,3-cd)pyrene			Not detected	165
Isophorone			Not detected	165
Naphthalene			Not detected	165
Nitrobenzene			Not detected	165
N-Nitrosodi-n-propylamine			Not detected	165
N-Nitrosodiphenylamine			Not detected	165
Pentachlorophenol			Not detected	165
Phenanthrene			Not detected	165
Phenol			Not detected	165
Pyrene			Not detected	165
Pyridine			Not detected	165
Volatiles, NY TAGM List	SW846-8260	ug/Kg	---	---
1,1,1,2-Tetrachloroethane			Not detected	10
1,1,1-Trichloroethane			Not detected	10
1,1,2,2-Tetrachloroethane			Not detected	10
1,1,2-Trichloro-1,2,2-trifluoroethane			Not detected	10
1,1,2-Trichloroethane			Not detected	10
1,1-Dichloroethane			Not detected	10
1,1-Dichloroethylene			Not detected	10
1,1-Dichloropropylene			Not detected	10
1,2,3-Trichlorobenzene			Not detected	10
1,2,3-Trichloropropane			Not detected	10
1,2,4-Trichlorobenzene			Not detected	10
1,2,4-Trimethylbenzene			Not detected	10
1,2-Dibromo-3-chloropropane			Not detected	10
1,2-Dibromoethane			Not detected	10
1,2-Dichlorobenzene			Not detected	10
1,2-Dichloroethane			Not detected	10
1,2-Dichloroethylene (Total)			Not detected	10
1,2-Dichloropropane			Not detected	10
1,3,5-Trimethylbenzene			Not detected	10
1,3-Dichlorobenzene			Not detected	10
1,3-Dichloropropane			Not detected	10
1,4-Dichlorobenzene			Not detected	10
2,2-Dichloropropane			Not detected	10
2-Butanone (MEK)			Not detected	20
2-Chlorotoluene			Not detected	10
2-Hexanone			Not detected	20
4-Chlorotoluene			Not detected	10
Acetone			Not detected	20
Benzene			Not detected	10
Bromobenzene			Not detected	10
Bromochloromethane			Not detected	10
Bromodichloromethane			Not detected	10
Bromoform			Not detected	10
Bromomethane			Not detected	10
Carbon disulfide			Not detected	10
Carbon tetrachloride			Not detected	10
Chlorobenzene			Not detected	10
Chloroethane			Not detected	10
Chloroform			Not detected	10

YORK

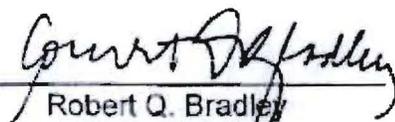
Client Sample ID			S-1	
York Sample ID			08100970-01	
Matrix			SOIL	
Parameter	Method	Units	Results	MDL
Chloromethane			Not detected	10
cis-1,3-Dichloropropylene			Not detected	10
Dibromochloromethane			Not detected	10
Dibromomethane			Not detected	10
Dichlorodifluoromethane			Not detected	10
Ethylbenzene			Not detected	10
Hexachlorobutadiene			Not detected	10
Isopropylbenzene			Not detected	10
Methyl isobutyl ketone (MIBK)			Not detected	20
Methylene chloride			Not detected	10
MTBE			Not detected	10
Naphthalene			Not detected	10
n-Butylbenzene			Not detected	10
n-Propylbenzene			Not detected	10
o-Xylene			Not detected	10
p- & m-Xylenes			Not detected	10
p-Isopropyltoluene			Not detected	10
sec-Butylbenzene			Not detected	10
Styrene			Not detected	10
tert-Butylbenzene			Not detected	10
Tetrachloroethylene			Not detected	10
Toluene			Not detected	10
trans-1,3-Dichloropropylene			Not detected	10
Trichloroethylene			Not detected	10
Trichlorofluoromethane			Not detected	10
Vinyl chloride			Not detected	10
Cyanide, Total	SW 9013A/9010C	mg/kg	Not detected	1.00

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. 08100970 A

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: 11/5/2008

YORK

YORK

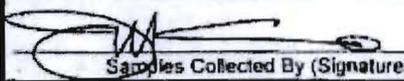
ANALYTICAL LABORATORIES, INC.

Field Chain-of-Custody Record

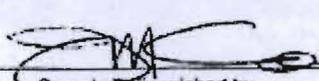
Page 1 of 2

130 RESEARCH DRIVE STRATFORD, CT 06615
TEL (203) 329-1371 FAX (203) 367-0166

08100970

Company Name RESTORATION & CONSERVATION ADVISEMENT GROUP LLC	Report To: DR. JAMES M CERUINO	Invoice To: JMCeruno	Project ID/No. EASTSIDE ACCESS EXT. TUNNEL, QUEENS NEW YORK DIRT	 Samples Collected By (Signature)
				DR. JAMES M CERUINO Name (Printed)

Sample No.	Location/ID	Date Sampled	Sample Matrix				ANALYSES REQUESTED	Container Description(s)
			Water	Soil	Air	OTHER		
S-1		Oct, 28 2008		X			(FULL TAGM # 4046) PEST, HERB, PCB+Hg ⁺	2 80Z 2 80Z JAK

Chain-of-Custody Record		 10/27/2008 Sample Relinquished by Date/Time		James Ceruno 10-27-2008 Sample Received by Date/Time	
Bottles Relinquished from Lab by Date/Time		Sample Relinquished by Date/Time		Sample Received in LAB by 10/29/08 Date/Time	
Bottles Received in Field by Date/Time		Sample Relinquished by Date/Time		Sample Received in LAB by 10/29/08 Date/Time	

Comments/Special Instructions: SIVE + MOISTURE @ FULL TAGM # 4046 VOL + 5 VOL + PEST + HERB + Metals

Turn-Around Time: 3.7c
 Standard RUSH(define) _____

