

July 19, 2010

E-FILED

Ms. Sherrel Henry
Remedial Project Manager
U.S. Environmental Protection Agency
290 Broadway – 20th Floor
New York, New York 10007-1866

RECEIVED
NYSDEC - REGION 9

AUG 06 2010

✓ FOIL
REL UNREL

Re: Peter Cooper Markhams Site, Dayton, NY
May 2010 Post-Remedial Groundwater Monitoring
Monitoring & Maintenance Summary Report May 2010

Dear Ms. Henry:

On behalf of the cooperating Potentially Responsible Parties (cPRPs) for the above-referenced site, Benchmark Environmental Engineering & Science, PLLC, has prepared this letter report to transmit the results of the May 2010 post-remedial groundwater monitoring event at the Peter Cooper Markhams Site in Dayton, New York (see Figure 1). A monitoring and maintenance summary is also included in this report. The work was performed in accordance with our approved (June 2009) Post-Remedial Operation, Maintenance and Monitoring (OM&M) Plan. Groundwater and surface water monitoring requirements are presented in Table 1.

FIELD SAMPLING PROCEDURE

On May 28, 2010, Benchmark staff collected a round of static water level measurements in the seven monitoring wells shown on Figure 2; measurements and groundwater elevations are summarized in Table 2. Groundwater samples were collected from on-site monitoring wells MW-5S, MW-7S, MW-8S, and MW-9S; a surface water sample was collected from Wetland F.

The monitoring wells were sampled using a non-dedicated Mini-Typhoon® submersible pump and low-flow groundwater purging procedures. Field measurements for pH, Eh, specific conductance, temperature, turbidity, and visual/ olfactory observations were recorded and monitored for stabilization. Purging was considered complete when pH, specific conductivity, and temperature stabilized; and the turbidity measured below or stabilized above 50 NTU. Stability is defined as the variation between field measurements of 10 percent or less with no overall upward or downward trend in the measurements. Once the field parameters stabilized, groundwater samples were collected and analyzed for the parameters presented in Table 1. Immediately following groundwater sample collection, field measurements for pH, specific conductance, temperature, turbidity, Eh, and visual/olfactory observations were recorded. The submersible pump was decontaminated using Alconox and water following sample collection activities at each well.

The surface water sample from Wetland F was collected by slowly immersing a dedicated sample jar attached to a dipper handle into the water. The contents of the collection jar were then transferred to laboratory-supplied bottles for analysis.

Attachment 1 includes sample collection logs. All water samples were transferred to laboratory supplied, pre-preserved sample containers and transported under chain-of-custody command to Test America Laboratories, Inc. for analysis of total and soluble (soluble only collected if turbidity was above 50 NTU) metals, including arsenic, chromium, manganese, iron, and hexavalent chromium; as well as ammonia, nitrate, alkalinity, and total sulfide.

ANALYTICAL RESULTS

Attachment 2 includes the Test America analytical data package for the May 2010 sampling event. Compounds detected above method detection limits are shown on Table 3 with their associated sample concentrations. NYSDEC Groundwater Quality Standards and Guidance Values (GWQS/GV; TOGS 1.1.1, June 1998) are presented for comparison. Concentrations exceeding the GWQS/GV are highlighted.

The concentrations reported for the May 2010 sampling event of total arsenic, total chromium, and hexavalent chromium were non-detect or below GWQS/GV at all monitored locations. Iron concentrations were above GWQS/GV at monitoring locations MW-5S, MW-7S, and Wetland F. Manganese concentrations were above GWQS/GV at all monitoring locations except MW-7S, and MW-9S. Due to high turbidity in the sample collected from MW-7S a soluble metals sample was collected and filtered in the laboratory. Soluble metals were all reported as non-detect except chromium, manganese, and iron. Chromium and manganese were reported at concentrations well below their respective GWQSs. Soluble iron concentrations were above GWQSs.

Water quality parameter concentrations (i.e. ammonia, nitrate, alkalinity, & sulfide) were well within groundwater quality standards at most monitoring locations. However, nitrate concentrations in MW-9S slightly exceed NYSDEC class "GA" groundwater quality standards.

HISTORICAL DATA

Table 3 presents groundwater monitoring results for past monitoring events (i.e. April 2002; June 2009; December 2009, and May 2010), with concentrations for several key parameters, including ammonia, nitrate, total chromium, manganese, and iron. In general, the data indicate an overall decrease in total concentration for these parameters at each of the monitoring locations.

DATA QUALITY

Site-specific quality control (QC) sampling during each event included the collection of one blind duplicate sample (collected from MW-5S) and one matrix spike/matrix spike duplicate (MS/MSD) sample (collected from MW-9S) for total metal analysis only. In general, internal laboratory and site-specific QC samples indicate satisfactory analytical accuracy and precision.

GROUNDWATER ELEVATION DATA

Groundwater monitoring includes a round of static water level measurements from seven monitoring wells across the site. Table 2 includes groundwater elevation data for the 2010 monitoring year. An isopotential map representing the shallow groundwater was prepared from the May 28, 2010 depth-to-groundwater measurements and is presented as Figure 3. Based on those measurements, the inferred groundwater flow directions indicate that shallow groundwater migrates to the west towards wetland F, which is consistent with observations recorded during the site Remedial Investigation.

ANNUAL MAINTENANCE SUMMARY REPORT

Post remedial site inspections were performed during each groundwater monitoring event (June 2009, December 2009, and May 2010). Inspection reports indicated no irregularities or changes to the property access or security. The final cover system appears in good condition, with the gas vent monitoring system intact and operational.

Areas of the final cover system which did not establish vegetative growth during the remedial construction in 2008, were scarified and reseeded in September 2009. A field inspection during this monitoring period (May 2010) indicated a few bare spots on the cover system which did not establish vegetation from the September 2009 reseeded. These areas will be covered with additional topsoil and reseeded in September 2010.

ENVIRONMENTAL EASEMENT

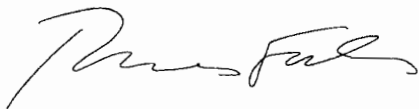
All aspects of the Environmental Easement remain unchanged. A copy of the New York State Department of Environmental Conservation Institutional and Engineering Certification Form is provided in Attachment 3 of this report.

CONCLUSIONS

The groundwater monitoring data from each monitoring event indicate no significant impact by leaching from the containment cell area into the water table. In addition, no toxic metals (arsenic, chromium, hexavalent chromium) were detected above their representative GWQS/GVs at any of the sample locations. Based on the favorable results and the overall decrease in concentrations of key parameters, Benchmark proposes to limit groundwater monitoring to one (1) annual event per year. Benchmark will continue to perform site inspections semi annually and perform site maintenance activities as warranted.

Please contact us if you have any questions or require additional information.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC



Thomas H. Forbes, P.E.
Project Manager

Att.

Cc: M. Joy
H. Killeen
K. McMahon
J. Wittenborn
M. Moore (NYSDEC)

File: 0021-003-500

TABLES

TABLE 1

MONITORING PROGRAM REQUIREMENTS

**May 2010 Monitoring Event
Peter Cooper Markhams Site
Dayton, New York**

Sample Location	Frequency	Parameters											
		DTW	Field ¹	Total Metals ²						Water Quality			
				As	Cr	Hex. Cr.	Mn	Fe	Ammonia	Nitrate	Alkalinity	T. Sulfide	
Groundwater													
MW-2SR (cross-gradient)	Semi-Annual	X											
MW-4S		X											
MW-5S		X	X	X	X	X	X		X	X	X	X	
MW-6S		X											
MW-7S		X	X	X	X	X	X		X	X	X	X	
MW-8S		X	X	X	X	X	X		X	X	X	X	
MW-9S (upgradient)		X	X	X	X	X		X	X	X	X	X	
Surface Water													
Wetland F (surface water)	Semi-Annual		X	X	X	X	X	X	X	X	X	X	
QA/QC Samples ³													
Blind Duplicate	Semi-Annual			X	X	X	X	X	X				
Matrix Spike				X	X	X	X	X					
Matrix Spike Duplicate				X	X	X	X	X					

Notes:

1. Field measurements include: pH, temperature, specific conductance, turbidity, Eh
2. If field measured turbidity is greater than 50 NTU, dissolved metals will also be collected.
3. QA/QC samples will be collected at a frequency of 1 per 20 for each matrix.
4. DTW = depth to water

TABLE 2
SUMMARY OF GROUNDWATER ELEVATIONS

May 2010 Monitoring Event
Peter Cooper Markhams Site
Dayton, New York

Location	TOR Elevation (fmsl)	05/28/10	
		DTW (fbTOR)	GWE (fmsl)
MW-2SR	1313.33	7.30	1306.03
MW-4S	1313.11	9.17	1303.94
MW-5S	1302.70	3.47	1299.23
MW-6S	1315.47	13.67	1301.80
MW-7S	1312.82	12.19	1300.63
MW-8S	1304.10	4.67	1299.43
MW-9S	1314.13	5.65	1308.48

Notes:

1. DTW = depth to water
2. fbTOR = feet below top of riser
3. fmsl = feet above mean sea level
4. GWE = groundwater elevation
5. TOR = top of riser

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS ^{1,2}

May 2010 Monitoring Event
Peter Cooper Markhams Site
Dayton, New York

Parameter	Monitoring Location and Sample Collection Date																								GWQS ⁴														
	MW-5S ⁵						MW-7S						MW-8S						MW-9S							Wetland-F													
	04/25/02	06/19/09	12/30/09	05/28/10	04/24/02	06/19/09	12/30/09	05/28/10	04/23/02	06/19/09	12/30/09	05/28/10	04/23/02	06/19/09	12/30/09	05/28/10	04/23/02	06/19/09	12/30/09	05/28/10	06/19/09	12/30/09	05/28/10	06/19/09		12/30/09	05/28/10												
Field Measurements ³ :																																							
Sample No.	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final											
pH (units)	--	6.81	6.75	6.78	6.58	6.68	6.80	6.86	--	6.80	6.74	6.79	6.77	6.82	6.79	6.78	--	6.90	6.92	6.65	6.70	7.04	6.25	--	7.36	6.48	6.52	6.84	6.79	7.71	6.78	7.24	6.04	7.45	--				
Temperature (°C)	--	7.14	11.4	11.7	6.3	6.2	14.3	14.9	--	8.77	9.6	10.1	5.4	7.7	15.0	15.1	--	7.6	11.5	12.2	6.9	6.9	16.1	12.7	--	6.02	12.2	12.6	6.5	5.4	12.2	12.4	16.7	16.9	22.00	NA			
Sp. Conductance (mS)	--	822	1004	993	1099	1090	985	966	--	1959	1753	1754	1804	1799	1687	1785	--	755	754	764	767	767	653	635	--	540	337	337	369	369	402	299	416	426	571.8	NA			
Turbidity (NTU)	--	2	4.6	2.4	2.9	2.9	37	5.47	--	12.4	>1000	180	405	537	190	27	--	17	32	22	30	19	63	5.38	--	11.2	6.2	4	2.43	2.02	18.6	2.98	1.2	250	588	6.79	NA		
Eh (mV)	--	67.3	69	70	-29	-20	-38	21	--	170	-56	-62	-62	-64	-83	-114	--	4.6	80	81	7	15	21	41	--	1.8	93	90	52	56	4	50	3	-42	530	NA			
Wet Chemistry (mg/L):																																							
Alkalinity, Total	NA	NA	538	D	470	D	471	D	NA	NA	519	D	586	D	446	D	NA	291	D	285	D	300	D	300	D	NA	98.4	D	98.8	D	73.5	C	228	D	274	D	243	D	NA
Ammonia					0.047		ND				0.063		0.119		0.039	C	0.34	0.038		0.04		0.042		ND < 10			501		0.029		0.065		0.167		0.088		2		
Nitrate (as Nitrogen)	2.8		0.271		0.347		0.443	C									14.6	9.48	D	0.543		1.98		9.3			7.19	D	11.1	D	12.1	D	7.9	D			10		
Sulfide, Total	NA	NA							NA	NA							NA							NA		NA						0.173					0.05		
Total Inorganic Compounds (mg/L):																																							
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.025	
Chromium	ND	ND	0.0056										0.0055		0.0050		0.0046											0.0051					0.006				0.05		
Hexavalent Chromium	ND	ND																																			0.05		
Manganese	NA	NA	1.61		1.45		1.50		NA	NA	0.264		0.428		0.213		NA	19.6		1.54		2.34		0.004		NA	1.54		0.005		0.004		0.676		0.305		0.392	0.3	
Iron	NA	NA	0.108		0.128		0.508		NA	NA	104		83.3		17.8		NA	1.93				0.088		0.076		NA	0.322			0.076		0.647		6.14		0.715	0.3		
Soluble Inorganic Compounds (mg/L):																																							
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND						NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	ND	NA	NA	NA	0.025			
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005	P	0.005	P	0.0043		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0116	P	0.0272	P	NA	0.3		
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.206	P	0.186	P	0.193		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.104	P	0.089	P	NA	0.5		
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.8	CF6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5		

Notes:

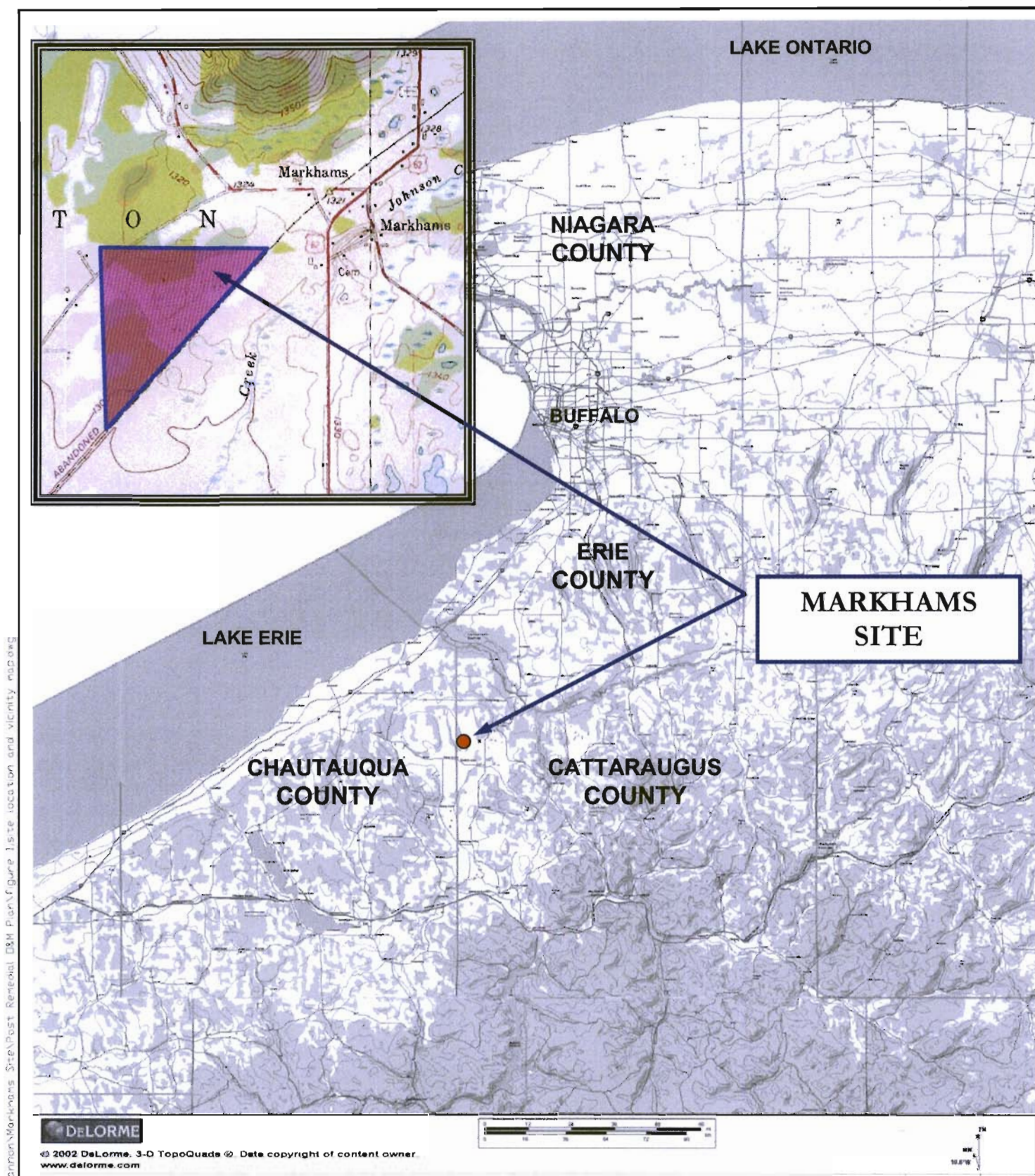
1. Only those compounds detected above the method detection limit at a minimum of one sample location are reported in this table.
2. Shaded and bolded values represent an exceedance of the GWQSGV.
3. Field measurements were collected immediately before and after groundwater sample collection.
4. NYSDEC Class "GA" Groundwater Quality Standards (GWQS) per 6 NYCRR Part 703
5. Site-specific QA/QC collected from MW-9S (MS/MSD) (May 2010).

Definitions:

J = Estimated value
NA = Not analyzed
ND = Parameter was not detected above laboratory reporting limit.
D = Division required due to high concentration of target analyte(s).
P = Sample filtered in the laboratory
CF6 = Results confirmed by re-analysis.

FIGURES

FIGURE 1



726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-6599

SITE LOCATION AND VICINITY MAP

POST-REMEDIAL OPERATION & MAINTENANCE PLAN

PETER COOPER MARKHAMS SITE
DAYTON, NEW YORK

PROJECT NO.: 0021-003-400

DATE: JANUARY 2008

DRAFTED BY: AJZ

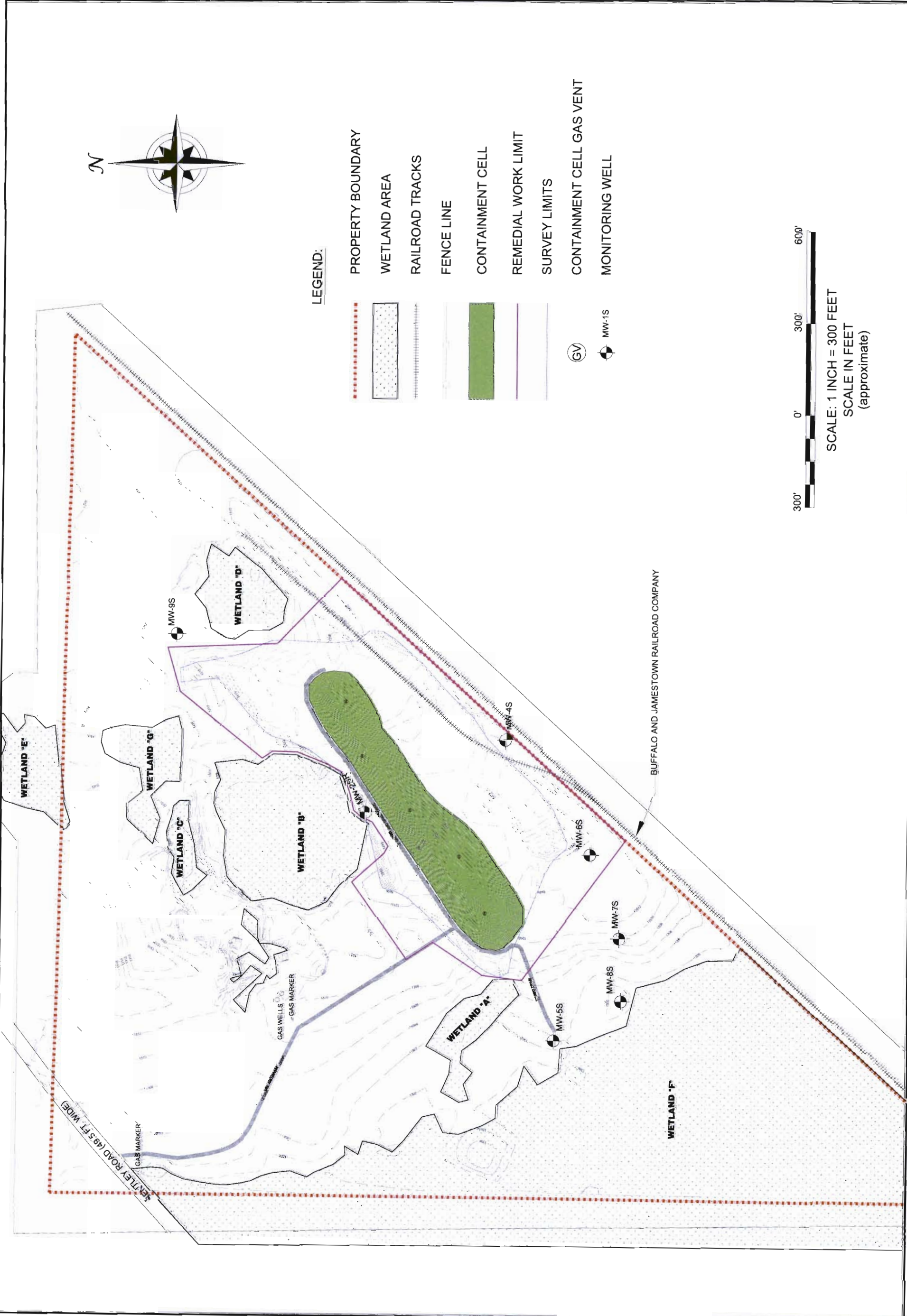
PREPARED FOR
RESPONDENTS FOR PETER COOPER MARKHAMS SITE

FIGURE 2

SITE PLAN
POST-REMEDIATION MONITORING
PETER COOPER MARKHAMS SUPERFUND SITE
DAYTON, NEW YORK
PREPARED FOR
CPRPs FOR PETER COOPER MARKHAMS

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0599

JOB NO.: 0021-003-500



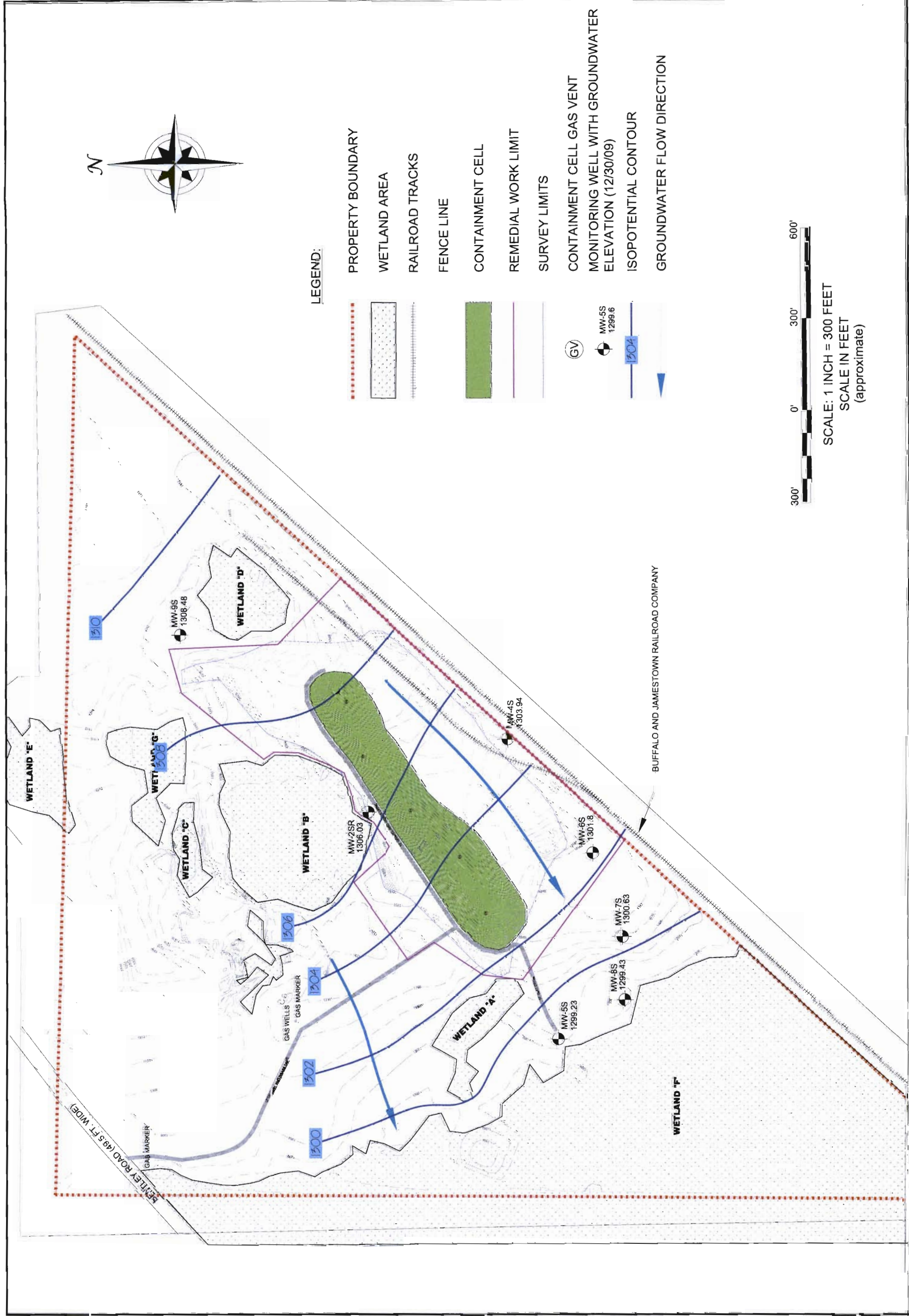


FIGURE 3

SITE PLAN & ISOPOTENTIAL MAP
FOR MAY 28, 2010
POST-REMEDIAL MONITORING
PETER COOPER MARKHAMS SUPERFUND SITE

DAYTON, NEW YORK

CPRs FOR PETER COOPER MARKHAMS

JOB NO.: 0021-003-500

BENCHMARK
ENGINEERING &
SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NEW YORK 14218
(716) 856-0599

ATTACHMENT 1

SAMPLE COLLECTION LOGS

GROUNDWATER FIELD FORM

Project Name: Peter Cooper Markhams Site Date: 5/28/2010
Location: Markhams Project No.: 0199-001-100 Field Team: RLD / TAB

Well No. MW-5S		Diameter (inches): 2"		Sample Date / Time: 5/28/2010 1020					
Product Depth (ftTOR): -		Water Column (ft):		DTW when sampled:					
DTW (static) (ftTOR): 3.47		One Well Volume (gal):		Purpose: ☐ Development ☐ Sample ☒ Purge & Sample					
Total Depth (ftTOR): 3.47		Total Volume Purged (gal): 0.5		Purge Method: Lowflow (mini monsoon)					
Time	Water Level (ftTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0 Initial			6.75	14.3	985	37		-38	clear
1026	3.55	.25	6.77	12.2	1028	24		-40	clear
1027	3.57	.50	6.78	15.6	1011	14.6		-40	clear
1029	3.57	.75	6.76	13.3	1004	7.26		-31	clear
1032	3.57	1	6.74	13.4	962	5.44		-0	clear
5									
6									
7									
8									
9									
10									
Sample Information:									
1035	S1	1.50	6.70	15.4	990	6.30		0	clear
1040	S2	2	6.86	17.7	966	5.47		21	clear

Well No. MW-7S		Diameter (inches): 2"		Sample Date / Time: 5/28/2010 1135					
Product Depth (ftTOR): -		Water Column (ft):		DTW when sampled:					
DTW (static) (ftTOR): 12.19		One Well Volume (gal):		Purpose: ☐ Development ☐ Sample ☒ Purge & Sample					
Total Depth (ftTOR): 18.47		Total Volume Purged (gal):		Purge Method: Lowflow (mini monsoon)					
Time	Water Level (ftTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0 Initial									
1146	12.81	1	6.79	15	1687	190		-83	TURBID
1149	12.81	1.25	6.72	12.9	1716	245		-93	" "
1150	12.92		6.70	11.8	1725	191		-93	" "
1151	12.97	1.40	6.69	12.1	1765	162		-92	" "
7									
8									
9									
10									
Sample Information:									
1153	S1	1.30	6.67	13.3	1728	99		-94	TURBID
1200	S2	2	6.78	15.1	1785	27		-114	clear

REMARKS: (LW) Dup collected at mw-5S
for mobile collected at mw-7S
SOL

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation	
Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria	
Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

GROUNDWATER FIELD FORM

Project Name: Peter Cooper Markhams Site Date: **5/28/2010**
Location: Markhams Project No.: 0199-001-100 Field Team: RLD / TAB

Well No. MW-8S			Diameter (inches): 2"			Sample Date / Time: 5/28/2010			
Product Depth (ft/TOR): -			Water Column (ft):			DTW when sampled:			
DTW (static) (ft/TOR): 4.67			One Well Volume (gal):			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (ft/TOR): 12.82			Total Volume Purged (gal):			Purge Method: Lowflow (mini monsoon)			
Time	Water Level (ft/TOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1121	0 Initial		7.04	16.1	653	6.7		+21	cloudy
1123	1 5.03	.25	6.88	14.1	643	3.3		+33	clear
1124	2 5.07	.40	6.59	13.1	631	14.7		+39	clear
1125	3 5.09	.75	6.42	12.2	633	7.91		+41	clear
	4								
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1127	S1 8.10	.85	6.73	12.7	635	5.38		+41	clear
1131	S2 8.07	2.00	6.25	14.3	647	3.75		+48	clear

Well No. MW-9S			Diameter (inches): 2"			Sample Date / Time: 5/28/2010 9:27			
Product Depth (ft/TOR): -			Water Column (ft):			DTW when sampled:			
DTW (static) (ft/TOR): 5.65			One Well Volume (gal):			Purpose: ☐ Development ☐ Sample ☒ Purge & Sample			
Total Depth (ft/TOR): 13.89			Total Volume Purged (gal):			Purge Method: Lowflow (mini monsoon)			
Time	Water Level (ft/TOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0935	0 Initial		7.71	12.2	402	18.6		+14	clear
	1 5.75	.35	7.39	11	356	19.5		+19	clear
0938	2 5.75	.50	6.89	11.3	317	9.38		+32	" "
0940	3 5.75	.75	6.75	11.9	315	8.58		+41	" "
0942	4 5.75	1	6.65	11.4	307	7.15		+46	clear
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
0943	S1 5.74	1.50	6.72	14.4	308	4.19		+48	clear
0952	S2	2.25	6.78	12.4	299	2.48		+50	clear

REMARKS: No MSD collected
for MW 9J

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

Note: All water level measurements are in feet, distance from top of riser.

PREPARED BY:



WATER SAMPLE COLLECTION LOG

wet land F
SAMPLE DESCRIPTION

PROJECT INFORMATION

Project Name: Peter Cooper MARKHAMS

Project No.: 0199-001-100

Client:

Location: MARKHAMS, NY

I.D.: wetland F

Matrix: ☒ SURFACE WATER ☐ STORM

☐ SEEP

☐ OTHER

SAMPLE INFORMATION

Date Collected: 5/28/10

Time Collected:

Date Shipped to Lab:

Collected By: RLD/JS

Sample Collection Method: ☒ DIRECT DIP
☐ POLY. DISP. BAILER

Sample Type: ☐ POINT ☐ GRAB

☐ COMPOSITE

☐ SS / POLY. DIPPER

☐ PERISTALTIC PUMP

☐ ISCO SAMPLER

☐ OTHER

SAMPLING INFORMATION

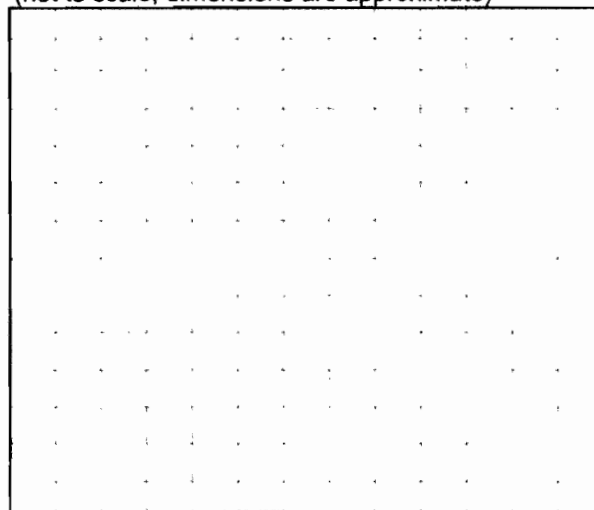
Weather: Sunny

Air Temperature: 75°F

LOCATION SKETCH

(not to scale, dimensions are approximate)

Parameter	First	Last	Units
pH	7.95		units
Temp.	22.46		°C
Cond.	679		mS
Turbidity	1530		NTU
Eh / ORP			mV
D.O.			ppm
Odor			olfactory
Appearance			visual



EXACT LOCATION (if applicable)

Northing (ft) Easting (ft) Surface Elevation (fmsl)

--	--	--

SAMPLE DESCRIPTION (appearance, olfactory): clear w/ slight Brown color

SAMPLE ANALYSIS (depth, laboratory analysis required):

ADDITIONAL REMARKS: Sample collected approx 40 yds west of mw-SS

PREPARED BY: RLD

DATE: 5/28/10

Field Inspection Report Post-Remedial Operation & Maintenance Plan

Property Name: Peter Cooper Markhams Site

Project No.: 0199-001-100

Client:

Property Address: Bentley Road

Dayton, NY 14041

Property ID: (Tax Assessment Map)

Section:

Block:

Lot(s):

Preparer's Name: R. Dubisz

Date/Time: 5/28/10- 14:00

CERTIFICATION

The results of this inspection were discussed with the Site Manager. Any corrective actions required have been identified and noted in this report, and a supplemental Corrective Action Form has been completed. Proper implementation of these corrective actions have been discussed with the Site Manager, agreed upon, and scheduled.

Preparer / Inspector: Rick Dubisz

Date: 5/28/10

Signature:

Next Scheduled Inspection Date: November 2010

Property Access

- | | | | |
|--|---|--|------------------------------|
| 1. Is the access road in need of repair? | ☐ yes | ☒ no | ☐ N/A |
| 2. Sufficient signage posted (No Trespassing)? | ☒ yes | ☐ no | ☐ N/A |
| 3. Has there been any noted or reported trespassing? | ☐ yes | ☒ no | ☐ N/A |

Please note any irregularities/ changes in site access and security:

Final Surface Cover / Vegetation

The integrity of the vegetative soil cover or other surface coverage (e.g., asphalt, concrete) over the entire Site must be maintained. The following documents the condition of the above.

1. Final Cover is in Place and in good condition? ☒ yes ☐ no ☐ N/A
Cover consists of (mainly): Wild Vegetative Grass Cover

- | | | | |
|---|------------------------------|--|---|
| 2. Evidence of erosion? | ☐ yes | ☒ no | ☐ N/A |
| 3. Cracks visible in pavement? | ☐ yes | ☐ no | ☒ N/A |
| 4. Evidence of distressed vegetation/turf? | ☐ yes | ☒ no | ☐ N/A |
| 5. Evidence of unintended traffic and/or rutting? | ☐ yes | ☒ no | ☐ N/A |
| 6. Evidence of uneven settlement and/or ponding? | ☐ yes | ☒ no | ☐ N/A |

Field Inspection Report Post-Remedial Operation & Maintenance Plan

Final Surface Cover / Vegetation

7. Damage to any surface coverage? ☒ yes ☐ no ☐ N/A

If yes to any question above, please provide more information below.

A few bare spots on the final cover system with no vegetative cover. Bare spots are approximately 10ft x 15 ft.

Gas Vent System Monitoring and Maintenance

Are there signs of stressed vegetation around gas vents? ☐ yes ☒ no ☐ N/A

Are the gas vents currently intact and operational? ☒ yes ☐ no ☐ N/A

Has regular maintenance and monitoring been documented and enclosed or referenced?
☒ yes ☐ no ☐ N/A

Groundwater Monitoring

Is there a plan in place and currently being followed? ☒ yes ☐ no ☐ N/A

Are the wells currently intact and operational? ☒ yes ☐ no ☐ N/A

When was the most recent sampling event report and submittal? Date: May 2010

When is the next projected sampling event? Date: May 2011

Property Use Changes / Site Development

Has the property usage changed, or site been redeveloped since the last inspection?
☐ yes ☒ no ☐ N/A

If yes, please list with date: _____

Field Inspection Report Post-Remedial Operation & Maintenance Plan

New Information

Has any new information been brought to the owner/engineer's attention regarding any and/or all engineering and institutional controls and their operation and effectiveness?

☐ yes

☒ no

☐ N/A

Comments: _____

This space for Notes and Comments

Please include the following Attachments:

1. Site Sketch
 2. Photographs
-

ATTACHMENT 2

TESTAMERICA LABORATORIES, INC.
SAMPLE DATA SUMMARY PACKAGE
MAY 2010

Analytical Report

Work Order: RTE1480

Project Description

Peter Cooper site

For:

Tom Forbes

Benchmark Environmental & Engineering Science

2558 Hamburg Turnpike, Suite 300

Lackawanna, NY 14218



Brian Fischer

Project Manager

Brian.Fischer@testamericainc.com

Wednesday, June 9, 2010

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exception to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project manager who has signed this report.

TestAmerica Buffalo Current Certifications

As of 04/16/2010

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA, NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP, SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania*	NELAP CWA, RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington*	NELAP CWA, RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA, RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTE1480

Project: Peter Cooper site
Project Number: TURN

Received: 05/28/10

Reported: 06/09/10 16:39

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Benchmark Environmental & Engineering Science
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Reported: 06/09/10 16:39

DATA QUALIFIERS AND DEFINITIONS

CF6	Results confirmed by reanalysis.
D08	Dilution required due to high concentration of target analyte(s)
M7	The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Benchmark Environmental & Engineering Science
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Work Order: RTE1480
Project: Peter Cooper site
Project Number: TURN

Received: 05/28/10
Reported: 06/09/10 16:39

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE1480-01 (MW-5S - Water)				Sampled: 05/28/10 10:35			Recvd: 05/28/10 16:20		
<u>Total Metals by SW 846 Series Methods</u>									
Iron	0.508		0.050	mg/L	1.00	06/03/10 05:33	DAN	10F0049	6010B
Manganese	1.50		0.0030	mg/L	1.00	06/03/10 05:33	DAN	10F0049	6010B
<u>General Chemistry Parameters</u>									
Alkalinity, Total	471	D08	100	mg/L	10.0	06/01/10 19:28	JFR	10F0095	310.2
Nitrate	0.443	CF6	0.050	mg/L-N	1.00	05/29/10 14:21	JME	10E2447	353.2
Sample ID: RTE1480-02 (MW-7S - Water)				Sampled: 05/28/10 11:53			Recvd: 05/28/10 16:20		
<u>Total Metals by SW 846 Series Methods</u>									
Chromium	0.0046		0.0040	mg/L	1.00	06/03/10 05:38	DAN	10F0049	6010B
Iron	17.8		0.050	mg/L	1.00	06/03/10 05:38	DAN	10F0049	6010B
Manganese	0.213		0.0030	mg/L	1.00	06/03/10 05:38	DAN	10F0049	6010B
<u>Dissolved Metals by SW 846 Series Methods</u>									
Chromium	0.0043		0.0040	mg/L	1.00	06/03/10 03:18	DAN	10F0045	6010B
Iron	10.8	CF6	0.050	mg/L	1.00	06/03/10 03:18	DAN	10F0045	6010B
Manganese	0.193		0.0030	mg/L	1.00	06/03/10 03:18	DAN	10F0045	6010B
<u>General Chemistry Parameters</u>									
Alkalinity, Total	446	D08	100	mg/L	10.0	06/01/10 19:28	JFR	10F0095	310.2
Ammonia as N	0.039	CF6	0.020	mg/L	1.00	06/03/10 08:56	jmm	10F0203	350.1
Sample ID: RTE1480-03 (MW-8S - Water)				Sampled: 05/28/10 11:27			Recvd: 05/28/10 16:20		
<u>Total Metals by SW 846 Series Methods</u>									
Iron	0.088		0.050	mg/L	1.00	06/03/10 05:43	DAN	10F0049	6010B
Manganese	2.34		0.0030	mg/L	1.00	06/03/10 05:43	DAN	10F0049	6010B
<u>General Chemistry Parameters</u>									
Alkalinity, Total	300	D08	50.0	mg/L	5.00	06/01/10 19:30	JFR	10F0095	310.2
Ammonia as N	0.042		0.020	mg/L	1.00	06/03/10 08:57	jmm	10F0203	350.1
Nitrate	1.98		0.050	mg/L-N	1.00	05/29/10 14:23	JME	10E2447	353.2
Sample ID: RTE1480-04 (MW-9S - Water)				Sampled: 05/28/10 09:43			Recvd: 05/28/10 16:20		
<u>Total Metals by SW 846 Series Methods</u>									
Iron	0.076		0.050	mg/L	1.00	06/03/10 05:48	DAN	10F0049	6010B
Manganese	0.0044		0.0030	mg/L	1.00	06/03/10 05:48	DAN	10F0049	6010B
<u>General Chemistry Parameters</u>									
Alkalinity, Total	73.5	CF6	10.0	mg/L	1.00	06/02/10 11:12	RJF	10F0146	310.2
Nitrate	12.1	D08	0.500	mg/L-N	10.0	05/29/10 14:50	JME	10E2447	353.2
Sample ID: RTE1480-07 (Wetland F - Water)				Sampled: 05/28/10 11:00			Recvd: 05/28/10 16:20		
<u>Total Metals by SW 846 Series Methods</u>									
Iron	0.715		0.050	mg/L	1.00	06/03/10 06:26	DAN	10F0049	6010B
Manganese	0.392		0.0030	mg/L	1.00	06/03/10 06:26	DAN	10F0049	6010B

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTE1480
Project: Peter Cooper site
Project Number: TURN

Received: 05/28/10
Reported: 06/09/10 16:39

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE1480-07 (Wetland F - Water) - cont.				Sampled: 05/28/10 11:00			Recvd: 05/28/10 16:20		
<u>General Chemistry Parameters</u>									
Alkalinity, Total	243	D08	50.0	mg/L	5.00	06/01/10 20:30	JFR	10F0095	310.2
Ammonia as N	0.088		0.020	mg/L	1.00	06/02/10 11:51	jmm	10F0109	350.1
Sample ID: RTE1480-08 (Blind Duplicate - Water)				Sampled: 05/28/10 10:00			Recvd: 05/28/10 16:20		
<u>Total Metals by SW 846 Series Methods</u>									
Iron	0.459		0.050	mg/L	1.00	06/03/10 06:31	DAN	10F0049	6010B
Manganese	1.51		0.0030	mg/L	1.00	06/03/10 06:31	DAN	10F0049	6010B

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Project: Peter Cooper site
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Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
MW-5S	RTE1480-01	Water	05/28/10 10:35	05/28/10 16:20	
MW-7S	RTE1480-02	Water	05/28/10 11:53	05/28/10 16:20	
MW-8S	RTE1480-03	Water	05/28/10 11:27	05/28/10 16:20	
MW-9S	RTE1480-04	Water	05/28/10 09:43	05/28/10 16:20	
Wetland F	RTE1480-07	Water	05/28/10 11:00	05/28/10 16:20	
Blind Duplicate	RTE1480-08	Water	05/28/10 10:00	05/28/10 16:20	

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE1480-01 (MW-5S - Water)				Sampled: 05/28/10 10:35			Recvd: 05/28/10 16:20		
Total Metals by SW 846 Series Methods									
Arsenic	ND		0.0100	mg/L	1.00	06/03/10 05:33	DAN	10F0049	6010B
Chromium	ND		0.0040	mg/L	1.00	06/03/10 05:33	DAN	10F0049	6010B
Iron	0.508		0.050	mg/L	1.00	06/03/10 05:33	DAN	10F0049	6010B
Manganese	1.50		0.0030	mg/L	1.00	06/03/10 05:33	DAN	10F0049	6010B
General Chemistry Parameters									
Alkalinity, Total	471	D08	100	mg/L	10.0	06/01/10 19:28	JFR	10F0095	310.2
Ammonia as N	ND		0.020	mg/L	1.00	06/02/10 11:45	jmm	10F0109	350.1
Chromium, Hexavalent	ND		0.0100	mg/L	1.00	05/28/10 21:24	RMB	10E2424	7196A
Nitrate	0.443	CF6	0.050	mg/L-N	1.00	05/29/10 14:21	JME	10E2447	353.2
Sulfide	ND		0.100	mg/L	1.00	06/02/10 10:30	RJF	10F0130	4500-S D

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE1480-02 (MW-7S - Water)					Sampled: 05/28/10 11:53		Recvd: 05/28/10 16:20		
<u>Total Metals by SW 846 Series Methods</u>									
Arsenic	ND		0.0100	mg/L	1.00	06/03/10 05:38	DAN	10F0049	6010B
Chromium	0.0046		0.0040	mg/L	1.00	06/03/10 05:38	DAN	10F0049	6010B
Iron	17.8		0.050	mg/L	1.00	06/03/10 05:38	DAN	10F0049	6010B
Manganese	0.213		0.0030	mg/L	1.00	06/03/10 05:38	DAN	10F0049	6010B
<u>Dissolved Metals by SW 846 Series Methods</u>									
Arsenic	ND		0.0100	mg/L	1.00	06/03/10 03:18	DAN	10F0045	6010B
Chromium	0.0043		0.0040	mg/L	1.00	06/03/10 03:18	DAN	10F0045	6010B
Iron	10.8	CF6	0.050	mg/L	1.00	06/03/10 03:18	DAN	10F0045	6010B
Manganese	0.193		0.0030	mg/L	1.00	06/03/10 03:18	DAN	10F0045	6010B
<u>General Chemistry Parameters</u>									
Alkalinity, Total	446	D08	100	mg/L	10.0	06/01/10 19:28	JFR	10F0095	310.2
Ammonia as N	0.039	CF6	0.020	mg/L	1.00	06/03/10 08:56	jmm	10F0203	350.1
Chromium, Hexavalent	ND		0.0100	mg/L	1.00	05/28/10 21:24	RMB	10E2424	7196A
Nitrate	ND		0.050	mg/L-N	1.00	05/29/10 14:22	JME	10E2447	353.2
Sulfide	ND		0.100	mg/L	1.00	06/02/10 10:30	RJF	10F0130	4500-S D

Benchmark Environmental & Engineering Science
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Work Order: RTE1480

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE1480-03 (MW-8S - Water)				Sampled: 05/28/10 11:27			Recvd: 05/28/10 16:20		
Total Metals by SW 846 Series Methods									
Arsenic	ND		0.0100	mg/L	1.00	06/03/10 05:43	DAN	10F0049	6010B
Chromium	ND		0.0040	mg/L	1.00	06/03/10 05:43	DAN	10F0049	6010B
Iron	0.088		0.050	mg/L	1.00	06/03/10 05:43	DAN	10F0049	6010B
Manganese	2.34		0.0030	mg/L	1.00	06/03/10 05:43	DAN	10F0049	6010B
General Chemistry Parameters									
Alkalinity, Total	300	D08	50.0	mg/L	5.00	06/01/10 19:30	JFR	10F0095	310.2
Ammonia as N	0.042		0.020	mg/L	1.00	06/03/10 08:57	jmm	10F0203	350.1
Chromium, Hexavalent	ND		0.0100	mg/L	1.00	05/28/10 21:24	RMB	10E2424	7196A
Nitrate	1.98		0.050	mg/L-N	1.00	05/29/10 14:23	JME	10E2447	353.2
Sulfide	ND		0.100	mg/L	1.00	06/02/10 10:30	RJF	10F0130	4500-S D

Benchmark Environmental & Engineering Science
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Work Order: RTE1480

Project: Peter Cooper site
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Received: 05/28/10
Reported: 06/09/10 16:39

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE1480-04 (MW-9S - Water)				Sampled: 05/28/10 09:43			Recvd: 05/28/10 16:20		
Total Metals by SW 846 Series Methods									
Arsenic	ND		0.0100	mg/L	1.00	06/03/10 05:48	DAN	10F0049	6010B
Chromium	ND		0.0040	mg/L	1.00	06/03/10 05:48	DAN	10F0049	6010B
Iron	0.076		0.050	mg/L	1.00	06/03/10 05:48	DAN	10F0049	6010B
Manganese	0.0044		0.0030	mg/L	1.00	06/03/10 05:48	DAN	10F0049	6010B
General Chemistry Parameters									
Alkalinity, Total	73.5	CF6	10.0	mg/L	1.00	06/02/10 11:12	RJF	10F0146	310.2
Ammonia as N	ND		0.020	mg/L	1.00	06/02/10 11:48	jmm	10F0109	350.1
Chromium, Hexavalent	ND		0.0100	mg/L	1.00	05/28/10 21:24	RMB	10E2424	7196A
Nitrate	12.1	D08	0.500	mg/L-N	10.0	05/29/10 14:50	JME	10E2447	353.2
Sulfide	ND		0.100	mg/L	1.00	06/02/10 10:30	RJF	10F0130	4500-S.D

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE1480-07 (Wetland F - Water)					Sampled: 05/28/10 11:00		Recvd: 05/28/10 16:20		
<u>Total Metals by SW 846 Series Methods</u>									
Arsenic	ND		0.0100	mg/L	1.00	06/03/10 06:26	DAN	10F0049	6010B
Chromium	ND		0.0040	mg/L	1.00	06/03/10 06:26	DAN	10F0049	6010B
Iron	0.715		0.050	mg/L	1.00	06/03/10 06:26	DAN	10F0049	6010B
Manganese	0.392		0.0030	mg/L	1.00	06/03/10 06:26	DAN	10F0049	6010B
<u>General Chemistry Parameters</u>									
Alkalinity, Total	243	D08	50.0	mg/L	5.00	06/01/10 20:30	JFR	10F0095	310.2
Ammonia as N	0.088		0.020	mg/L	1.00	06/02/10 11:51	jmm	10F0109	350.1
Chromium, Hexavalent	ND		0.0100	mg/L	1.00	05/28/10 21:24	RMB	10E2424	7196A
Nitrate	ND		0.050	mg/L-N	1.00	05/29/10 14:27	JME	10E2447	353.2
Sulfide	ND		0.100	mg/L	1.00	06/02/10 10:30	RJF	10F0130	4500-S D

Benchmark Environmental & Engineering Science
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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTE1480-08 (Blind Duplicate - Water)					Sampled: 05/28/10 10:00			Recvd: 05/28/10 16:20	
<u>Total Metals by SW 846 Series Methods</u>									
Arsenic	ND		0.0100	mg/L	1.00	06/03/10 06:31	DAN	10F0049	6010B
Chromium	ND		0.0040	mg/L	1.00	06/03/10 06:31	DAN	10F0049	6010B
Iron	0.459		0.050	mg/L	1.00	06/03/10 06:31	DAN	10F0049	6010B
Manganese	1.51		0.0030	mg/L	1.00	06/03/10 06:31	DAN	10F0049	6010B

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SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
Dissolved Metals by SW 846 Series Methods									
6010B	10F0045	RTE1480-02	50.00	mL	50.00	mL	06/02/10 08:20	KCW	3005A
General Chemistry Parameters									
310.2	10F0095	RTE1480-01	2.00	mL	2.00	mL	06/01/10 17:40	JFR	Alkalinity
310.2	10F0095	RTE1480-02	2.00	mL	2.00	mL	06/01/10 17:40	JFR	Alkalinity
310.2	10F0095	RTE1480-03	2.00	mL	2.00	mL	06/01/10 17:40	JFR	Alkalinity
310.2	10F0095	RTE1480-07	2.00	mL	2.00	mL	06/01/10 17:40	JFR	Alkalinity
310.2	10F0146	RTE1480-04	2.00	mL	2.00	mL	06/02/10 08:27	RJF	No Prep Alkalinity
350.1	10F0109	RTE1480-01	5.00	mL	5.00	mL	06/02/10 07:57	JMM	No prep Ammonia
350.1	10F0109	RTE1480-04	5.00	mL	5.00	mL	06/02/10 07:57	JMM	No prep Ammonia
350.1	10F0109	RTE1480-07	5.00	mL	5.00	mL	06/02/10 07:57	JMM	No prep Ammonia
350.1	10F0203	RTE1480-02	5.00	mL	5.00	mL	06/03/10 08:00	JMM	No prep Ammonia
350.1	10F0203	RTE1480-03	5.00	mL	5.00	mL	06/03/10 08:00	JMM	No prep Ammonia
353.2	10E2447	RTE1480-01	5.00	mL	5.00	mL	05/29/10 14:17	JME	No prep Nitrate
353.2	10E2447	RTE1480-02	5.00	mL	5.00	mL	05/29/10 14:17	JME	No prep Nitrate
353.2	10E2447	RTE1480-03	5.00	mL	5.00	mL	05/29/10 14:17	JME	No prep Nitrate
353.2	10E2447	RTE1480-04	5.00	mL	5.00	mL	05/29/10 14:17	JME	No prep Nitrate
353.2	10E2447	RTE1480-07	5.00	mL	5.00	mL	05/29/10 14:17	JME	No prep Nitrate
4500-S D	10F0130	RTE1480-01	25.00	mL	25.00	mL	06/02/10 10:30	RJF	No prep Sulfide
4500-S D	10F0130	RTE1480-02	25.00	mL	25.00	mL	06/02/10 10:30	RJF	No prep Sulfide
4500-S D	10F0130	RTE1480-03	25.00	mL	25.00	mL	06/02/10 10:30	RJF	No prep Sulfide
4500-S D	10F0130	RTE1480-04	25.00	mL	25.00	mL	06/02/10 10:30	RJF	No prep Sulfide
4500-S D	10F0130	RTE1480-07	25.00	mL	25.00	mL	06/02/10 10:30	RJF	No prep Sulfide
7196A	10E2424	RTE1480-01	25.00	mL	25.00	mL	05/28/10 21:00	RMB	Hex Digestion
7196A	10E2424	RTE1480-02	25.00	mL	25.00	mL	05/28/10 21:00	RMB	Hex Digestion
7196A	10E2424	RTE1480-03	25.00	mL	25.00	mL	05/28/10 21:00	RMB	Hex Digestion
7196A	10E2424	RTE1480-04	25.00	mL	25.00	mL	05/28/10 21:00	RMB	Hex Digestion
7196A	10E2424	RTE1480-07	25.00	mL	25.00	mL	05/28/10 21:00	RMB	Hex Digestion
Total Metals by SW 846 Series Methods									
6010B	10F0049	RTE1480-01	50.00	mL	50.00	mL	06/02/10 08:20	KCW	3005A
6010B	10F0049	RTE1480-02	50.00	mL	50.00	mL	06/02/10 08:20	KCW	3005A
6010B	10F0049	RTE1480-03	50.00	mL	50.00	mL	06/02/10 08:20	KCW	3005A
6010B	10F0049	RTE1480-04	50.00	mL	50.00	mL	06/02/10 08:20	KCW	3005A
6010B	10F0049	RTE1480-07	50.00	mL	50.00	mL	06/02/10 08:20	KCW	3005A
6010B	10F0049	RTE1480-08	50.00	mL	50.00	mL	06/02/10 08:20	KCW	3005A

Benchmark Environmental & Engineering Science
2558 Hamburg Turnpike, Suite 300
Lackawanna, NY 14218

Work Order: RTE1480

Project: Peter Cooper site
Project Number: TURN

Received: 05/28/10
Reported: 06/09/10 16:39

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods										

Blank Analyzed: 06/03/10 (Lab Number:10F0049-BLK1, Batch: 10F0049)

Arsenic			0.0100	mg/L	ND					
Chromium			0.0040	mg/L	ND					
Iron			0.050	mg/L	ND					
Manganese			0.0030	mg/L	ND					

LCS Analyzed: 06/03/10 (Lab Number:10F0049-BS1, Batch: 10F0049)

Arsenic		0.200	0.0100	mg/L	0.210	105	80-120			
Chromium		0.200	0.0100	mg/L	0.209	104	80-120			
Iron		10.0	0.100	mg/L	10.1	101	80-120			
Manganese		0.200	0.0150	mg/L	0.209	104	80-120			

Matrix Spike Analyzed: 06/03/10 (Lab Number:10F0049-MS1, Batch: 10F0049)

QC Source Sample: RTE1480-04

Arsenic	ND	0.200	0.0100	mg/L	0.214	107	75-125			
Chromium	ND	0.200	0.0100	mg/L	0.202	101	75-125			
Iron	0.0759	10.0	0.100	mg/L	9.92	98	75-125			
Manganese	0.00441	0.200	0.0150	mg/L	0.208	102	75-125			

Matrix Spike Dup Analyzed: 06/03/10 (Lab Number:10F0049-MSD1, Batch: 10F0049)

QC Source Sample: RTE1480-04

Arsenic	ND	0.200	0.0100	mg/L	0.209	105	75-125	2	20	
Chromium	ND	0.200	0.0100	mg/L	0.202	101	75-125	0.1	20	
Iron	0.0759	10.0	0.100	mg/L	9.91	98	75-125	0.09	20	
Manganese	0.00441	0.200	0.0150	mg/L	0.208	102	75-125	0.4	20	

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Lackawanna, NY 14218

Work Order: RTE1480

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Project Number: TURN

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Reported: 06/09/10 16:39

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Dissolved Metals by SW 846 Series Methods										

Blank Analyzed: 06/03/10 (Lab Number:10F0045-BLK1, Batch: 10F0045)

Arsenic			0.0100	mg/L	ND					
Chromium			0.0040	mg/L	ND					
Iron			0.050	mg/L	ND					
Manganese			0.0030	mg/L	ND					

LCS Analyzed: 06/03/10 (Lab Number:10F0045-BS1, Batch: 10F0045)

Arsenic	0.200	0.0100	mg/L	0.205	102	80-120				
Chromium	0.200	0.0100	mg/L	0.204	102	80-120				
Iron	10.0	0.100	mg/L	9.98	100	80-120				
Manganese	0.200	0.0100	mg/L	0.206	103	80-120				

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Lackawanna, NY 14218

Work Order: RTE1480
Project: Peter Cooper site
Project Number: TURN

Received: 05/28/10
Reported: 06/09/10 16:39

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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General Chemistry Parameters

Blank Analyzed: 05/28/10 (Lab Number:10E2424-BLK1, Batch: 10E2424)

Chromium, Hexavalent			0.0100	mg/L	ND					
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LCS Analyzed: 05/28/10 (Lab Number:10E2424-BS1, Batch: 10E2424)

Chromium, Hexavalent		0.0500	0.0100	mg/L	0.0503	101	85-115			
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Duplicate Analyzed: 05/28/10 (Lab Number:10E2424-DUP1, Batch: 10E2424)

QC Source Sample: RTE1480-04

Chromium, Hexavalent	ND		0.0100	mg/L	ND				15	
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Matrix Spike Analyzed: 05/28/10 (Lab Number:10E2424-MS1, Batch: 10E2424)

QC Source Sample: RTE1480-04

Chromium, Hexavalent	ND	0.0500	0.0100	mg/L	0.0464	93	85-115			
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General Chemistry Parameters

Blank Analyzed: 05/29/10 (Lab Number:10E2447-BLK1, Batch: 10E2447)

Nitrate			0.050	mg/L-N	ND					
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LCS Analyzed: 05/29/10 (Lab Number:10E2447-BS1, Batch: 10E2447)

Nitrate		1.50	0.050	mg/L-N	1.43	96	90-110			
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Matrix Spike Analyzed: 05/29/10 (Lab Number:10E2447-MS1, Batch: 10E2447)

QC Source Sample: RTE1480-04

Nitrate	12.1	10.0	0.500	mg/L-N	23.7	116	77-123			D08
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Matrix Spike Dup Analyzed: 05/29/10 (Lab Number:10E2447-MSD1, Batch: 10E2447)

QC Source Sample: RTE1480-04

Nitrate	12.1	10.0	0.500	mg/L-N	23.9	118	77-123	0.7	20	D08
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General Chemistry Parameters

Blank Analyzed: 06/01/10 (Lab Number:10F0095-BLK1, Batch: 10F0095)

Alkalinity, Total			10.0	mg/L	ND					
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LCS Analyzed: 06/01/10 (Lab Number:10F0095-BS1, Batch: 10F0095)

Alkalinity, Total		50.0	10.0	mg/L	47.0	94	90-110			
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General Chemistry Parameters

Blank Analyzed: 06/02/10 (Lab Number:10F0109-BLK1, Batch: 10F0109)

Ammonia as N			0.020	mg/L	ND					
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LCS Analyzed: 06/02/10 (Lab Number:10F0109-BS1, Batch: 10F0109)

Ammonia as N		0.750	0.020	mg/L	0.789	105	90-110			
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Project: Peter Cooper site
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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
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General Chemistry Parameters

Matrix Spike Analyzed: 06/02/10 (Lab Number:10F0109-MS1, Batch: 10F0109)

QC Source Sample: RTE1480-04

Ammonia as N	0.0180	0.200	0.020	mg/L	0.221	101	54-150			
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Matrix Spike Dup Analyzed: 06/02/10 (Lab Number:10F0109-MSD1, Batch: 10F0109)

QC Source Sample: RTE1480-04

Ammonia as N	0.0180	0.200	0.020	mg/L	0.222	102	54-150	0.9	20	
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General Chemistry Parameters

Blank Analyzed: 06/02/10 (Lab Number:10F0130-BLK1, Batch: 10F0130)

Sulfide			0.100	mg/L	ND					
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LCS Analyzed: 06/02/10 (Lab Number:10F0130-BS1, Batch: 10F0130)

Sulfide		0.750	0.100	mg/L	0.796	106	90-110			
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Matrix Spike Analyzed: 06/02/10 (Lab Number:10F0130-MS1, Batch: 10F0130)

QC Source Sample: RTE1480-04

Sulfide	ND	0.500	0.100	mg/L	0.581	116	90-110			M7
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Matrix Spike Dup Analyzed: 06/02/10 (Lab Number:10F0130-MSD1, Batch: 10F0130)

QC Source Sample: RTE1480-04

Sulfide	ND	0.500	0.100	mg/L	0.585	117	90-110	0.7	20	M7
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General Chemistry Parameters

Blank Analyzed: 06/02/10 (Lab Number:10F0146-BLK1, Batch: 10F0146)

Alkalinity, Total			10.0	mg/L	ND					
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LCS Analyzed: 06/02/10 (Lab Number:10F0146-BS1, Batch: 10F0146)

Alkalinity, Total		50.0	10.0	mg/L	54.4	109	90-110			
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Matrix Spike Analyzed: 06/02/10 (Lab Number:10F0146-MS4, Batch: 10F0146)

QC Source Sample: RTE1480-04

Alkalinity, Total	73.5	20.0	10.0	mg/L	96.9	117	22-128			
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Matrix Spike Dup Analyzed: 06/02/10 (Lab Number:10F0146-MSD4, Batch: 10F0146)

QC Source Sample: RTE1480-04

Alkalinity, Total	73.5	20.0	10.0	mg/L	96.7	116	22-128	0.2	20	
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General Chemistry Parameters

Blank Analyzed: 06/03/10 (Lab Number:10F0203-BLK1, Batch: 10F0203)

Ammonia as N			0.020	mg/L	ND					
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LCS Analyzed: 06/03/10 (Lab Number:10F0203-BS1, Batch: 10F0203)

TestAmerica Buffalo - 10 Hazelwood Drive Amherst, NY 14228 tel 716-691-2600 fax 716-691-7991

www.testamericainc.com

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2558 Hamburg Turnpike, Suite 300
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Work Order: RTE1480
Project: Peter Cooper site
Project Number: TURN

Received: 05/28/10
Reported: 06/09/10 16:39

LABORATORY QC DATA

Analyte	Source Result	Spike Level	MRL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters										

LCS Analyzed: 06/03/10 (Lab Number:10F0203-BS1, Batch: 10F0203)

Ammonia as N	0.750	0.100	mg/L	0.796	106	90-110
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ATTACHMENT 3

NYSDEC INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORM



Enclosure 1
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details	Box 1
Site No. N/A	
Site Name Peter Cooper Markhams Superfund Site	
Site Address: Bentley Road	Zip Code: 14041
City/Town: Dayton	
County: Cattaraugus	
Current Use: Vacant	
Intended Use: Undeveloped	

Verification of Site Details	Box 2	
	YES	NO
1. Are the Site Details above, correct?	x	
If NO, are changes handwritten above or included on a separate sheet?		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment since the initial/last certification?		x
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?		
3. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property since the initial/last certification?		x
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?		
4. Has a change-of-use occurred since the initial/last certification?		x
If YES, is documentation or evidence that documentation has been previously submitted included with this certification?		
5. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), has any new information revealed that assumptions made in the Qualitative Exposure Assessment for offsite contamination are no longer valid?		x
If YES, is the new information or evidence that new information has been previously submitted included with this Certification?		
6. For non-significant-threat Brownfield Cleanup Program Sites subject to ECL 27-1415.7(c), are the assumptions in the Qualitative Exposure Assessment still valid (must be certified every five years) ?		x

SITE NO. **N/A**

Box 3

Description of Institutional Control Certification

	<u>YES</u>	<u>NO</u>
1. Compliance with the Site Management Plan (SMP) for the implemented remedy:	x	
2. The groundwater beneath the Site is not used as a potable water source or for any other use without prior written permission of the Department:	x	
3. Groundwater monitoring as specified in the SMP:	x	
4. Operation and maintenance of the ASD system as specified in the SMP:		N/A

Description of Engineering Control Certification

Box 4

	<u>YES</u>	<u>NO</u>
1. Maintenance of the cover systems over the Site:	x	

Control Certification Statement

For each Institutional or Engineering control listed above, I certify by checking "Yes" that all of the following statements are true:

- (a) the Institutional Control and/or Engineering Control employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (d) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control.
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

IC/EC CERTIFICATIONS
SITE NO. N/A

Box 5

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 2 & 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Thomas Forbes at 2558 Hamburg Turnpike, Lackawanna, NY 14218
print name print business address

am certifying as ~~Owner~~ Remedial Party representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.


Signature of Owner or Remedial Party Rendering Certification

7-19-10

Date

Box 6

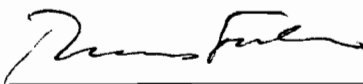
QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) SIGNATURE

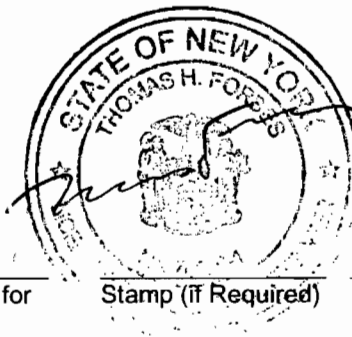
I certify that all information and statements in Box 4 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Thomas H. Forbes at 2558 Hamburg Turnpike Lackawanna, New York 14218

am certifying as a Qualified Environmental Professional for the Peter Cooper Markhams Superfund Site

(Owner or Remedial Party) for the Site named in the Site Details Section of this form.


Signature of Qualified Environmental Professional, for
the Owner or Remedial Party, Rendering
Certification



Stamp (if Required)

7-19-10
Date