nationalgrid

Steven P. Stucker
Lead Engineer

July 26, 2010

Mr. Anthony Karwiel
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau C
625 Broadway
Albany, NY 12233-7013

Re: ***National Grid Hudson Water Street Site***
Hudson, New York
Annual (2010) Ground Water Monitoring Report

Dear Mr. Karwiel:

Attached for your information is the Annual (2010) Groundwater Monitoring Report detailing the annual ground water monitoring event and OM&M activities conducted from December 2009 through June 2010 at the National Grid Hudson (Water Street) Site. OM&M activities were conducted in accordance with the NYSDEC-approved OM&M Plan (BBL/ARCADIS, January 2007) and the *Static Water Level Evaluation and Ground Water Monitoring Program Recommendation Memorandum* letter (dated August 15, 2007).

If you have any questions related to this report or the OM&M program in general, please feel free to contact me at 315-428-5652.

Sincerely,

Matthew D. Millias for SPS

Steven P. Stucker
Lead Engineer
Environmental Department

Attachments

Cc: Matt Millias – CDM
Tim Beaumont – CDM

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Syracuse, New York 13206
tel: 315 434-3200
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July 26, 2010

Mr. Steven P. Stucker, P.G.
Lead Engineer
National Grid
300 Erie Boulevard West
Syracuse, New York 13202-4250

Subject: Annual (2010) Groundwater Monitoring Report
Hudson (Water Street) Site, Hudson, New York

Dear Mr. Stucker:

CDM is pleased to submit this Annual (2010) *Groundwater Monitoring Report* for the Hudson (Water Street) Site, Hudson, New York. This report includes the requirements associated with the operation, maintenance, and monitoring of the Remedial Action Plan (RA) at Operable Unit (OU) 1 of the Hudson (Water Street) Former Manufactured Gas Plant (MGP) Site located in Hudson, New York. Please refer to the Operation, Maintenance, and Monitoring Plan (OM&M Plan), January 2007 and the CDM memorandum dated July 30, 2007 for quarterly well monitoring, annual sampling, quarterly site inspection requirements, and associated detailed site conditions and groundwater flow pattern documentation.

Background

The Hudson (Water Street) Former Manufactured Gas Plant Site located in Hudson, New York is comprised of approximately two acres of land and is owned by National Grid (refer to Attachment A for Figure 1 - Location Map and Figure 2 – Post Remediation Site Conditions). The remedial action plan in place at the site was substantially completed in December 2006 and the OM&M Plan was finalized in January 2007 to provide a method for monitoring its effectiveness.

The objective of the post-construction groundwater monitoring task within the OM&M plan is to characterize post-remedy groundwater flow patterns and assess the quality of shallow groundwater as it leaves the site. Groundwater samples are analyzed for the presence and/or extent of benzene, toluene, ethylbenzene and total xylenes (BTEX) and naphthalene.

Site Inspections and General Maintenance

Site inspections were conducted on December 14, 2009, March 8, 2010 and June 2, 2010. Quarterly site inspections began on June 11, 2007 and will continue for a five year period ending June 2012 and will include inspection of the existing groundwater monitoring wells (MW-02,

MW-03, MW-05, MW-06, MW-07, MW-08A, MW-09A, MW-10, MW-11, OW-2, OW-4), the three existing DNAPL monitoring wells (RW-1, RW-2, CW-01A), security fencing, and other site features. To date, there have been no public complaints or comments noted by National Grid. The site inspection reports are included in Attachment B.

The site in general, including the surface cover areas, erosion controls, steel sheet pile retaining wall and trees, shrubs and other planting materials are in good condition. In November 2008, additional riprap was installed along the Hudson River bank (near RW-1) due to minor settlement and erosion. National Grid's OM&M contractor will continue to note additional settlement and/or erosion and it will be maintained to protect the integrity of the site. On May 20, 2010, ASPLUNDH Brush Control (subcontractor to CDM) added approximately 100 cubic yards of 6 inch rip-rap to repair eroded areas. Caution was taken to minimize distrurbance of the park's grassy area. Refer to Attachment E for a photo log.

DNAPL Monitoring and Collection

Quarterly DNAPL monitoring took place over the last year on the following dates; December 14, 2009, March 8, 2010 and June 2, 2010. No DNAPL was recovered from any of the wells during any of these events. However, during the last quarterly monitoring in June 2010, a slight odor was noted at monitoring well CW-01A. The DNAPL monitoring and collection reports are included in Attachment B.

As stated in the OM&M Plan, quarterly DNAPL monitoring was required for a period of at least one year for RW-1, RW-2, and CW-01A. If DNAPL was present, then the depth to the DNAPL surface from the top of the well casing was to be measured and recorded. DNAPL would be collected and disposed of off-site as necessary. If DNAPL does not accumulate in any of the wells at a thickness more than 0.1 foot within the first year or the rate of DNAPL production for each well does not exceed two gallons per year, with the rate measured over the period of one year, then the program will be completed.

Site Monitoring Wells

The site monitoring wells include: MW-02, MW-03, MW-05, MW-06, MW-07, MW-08A, MW-09A, MW-10, MW-11, OW-2, OW-4, CW-01A, RW-1 and RW-2. Only monitoring wells MW-03, MW-05, MW-06 and MW-11 were sampled for site constituents. Well locations are shown on the Site Plan in Attachment A.

Well Gauging

All wells listed in the section above, as well as the level of the Hudson River, were gauged prior to groundwater sampling on June 2, 2010. The water level elevation (feet above mean sea level (amsl) ranged from 1.49 feet amsl at the Hudson River, to 7.11 feet amsl at OW-4. The groundwater direction continues to remain in a south/southeast direction consistent with past groundwater elevation data. A summary of all static water level measurements collected at the site is included in Attachment B.

Groundwater Sampling

Groundwater samples were collected from monitoring wells MW-03, MW-05, MW-06 and MW-11. The wells were purged using a peristaltic pump. Field Measurements of pH, conductivity, turbidity, dissolved oxygen, temperature, total dissolved solids and oxidation-reduction potential were recorded using a Horiba water quality meter during sample collection. Samples were collected once field parameters had been stabilized. Well purging data is included in Attachment B.

Four aqueous samples and a field duplicate were processed for BTEX, and naphthalene by the USEPA SW486 method 8260B, with additional QC requirements of the NYSDEC ASP. A trip blank was also analyzed. The samples were sent to Test America (formerly Severn Trent Laboratories, Inc.) of Buffalo, New York in accordance with the NYSDEC Analytical Services Protocol. The chain-of-custody record is included in Attachment B.

After the initial five year monitoring period has been completed (June 2012), the collected data will be evaluated to determine whether or not the program should be continued, and/or if any modifications are necessary. According to the OM&M Plan, the program will be complete if it is demonstrated that chemicals of potential concern (COPC's) are not migrating offsite through the groundwater at concentrations higher than the New York State Ambient Water Quality Standards (NYSAWQS). The program may be discontinued if the concentrations of COPC's in samples collected are below the NYSAWQS for two consecutive years starting with the fourth year of the five year program. If the standards are not met at this time, then the program will be continued until concentrations of COPC are below the standards for two consecutive years.

Groundwater Analytical Results

There was no BTEX or naphthalene detected in the samples from monitoring wells MW-03, MW-05 and MW-06. However, benzene, ethylbenzene, xylene and naphthalene were detected in MW-11. Both benzene and ethlybenzene were detected above the NYSAWQS in monitoring well MW-11. Summarized laboratory results are included in Attachment C.

Data Validation

The analytical data report provided by Test America was sent to Data Validation Services of North Creek, New York for third party data validation. The primary objective of the data validation was to identify any questionable or invalid laboratory processes or data. The data validation company generated the Data Usability Summary Report (DUSR) from review of the summary form information, with review of sample raw data and limited review of the associated QC raw data, as required for the DUSR validation package.

The review completed by Data Validation Services stated that the field sample analyte values/reporting limits are usable as reported. The data validation report (with qualified laboratory report forms) is included in Attachment D.

Conclusions and Recommendations

The data collected from the June 2010 sampling event indicate that there are two contaminants of concern (benzene and ethylbenzene) at well MW-11 with benzene and ethylbenzene above the NYSAWQS. In addition, o-xylene, total xlyenes and naphthalene were also detected at this well. During the previous sampling events, benzene and ethylbenzene were detected, however xylenes and naphthalene have not been detected since 2007. In addition, the levels of benzene and ethylbene have increased from the previous sampling of June 2009; benzene 12 ug/l from 4.6 ug/l, and ethylbenzene 12 ug/l from 4.9 ug/l.

Since inception of the well monitoring, no DNAPL has been noted in any site well.

It is recommended that the groundwater monitoring program and maintenance activities, as described in the OM&M Plan dated January 2007, will be continued.

If you have any questions relating to these sampling events or our recommendations, please do not hesitate to contact me at 315-434-3256.

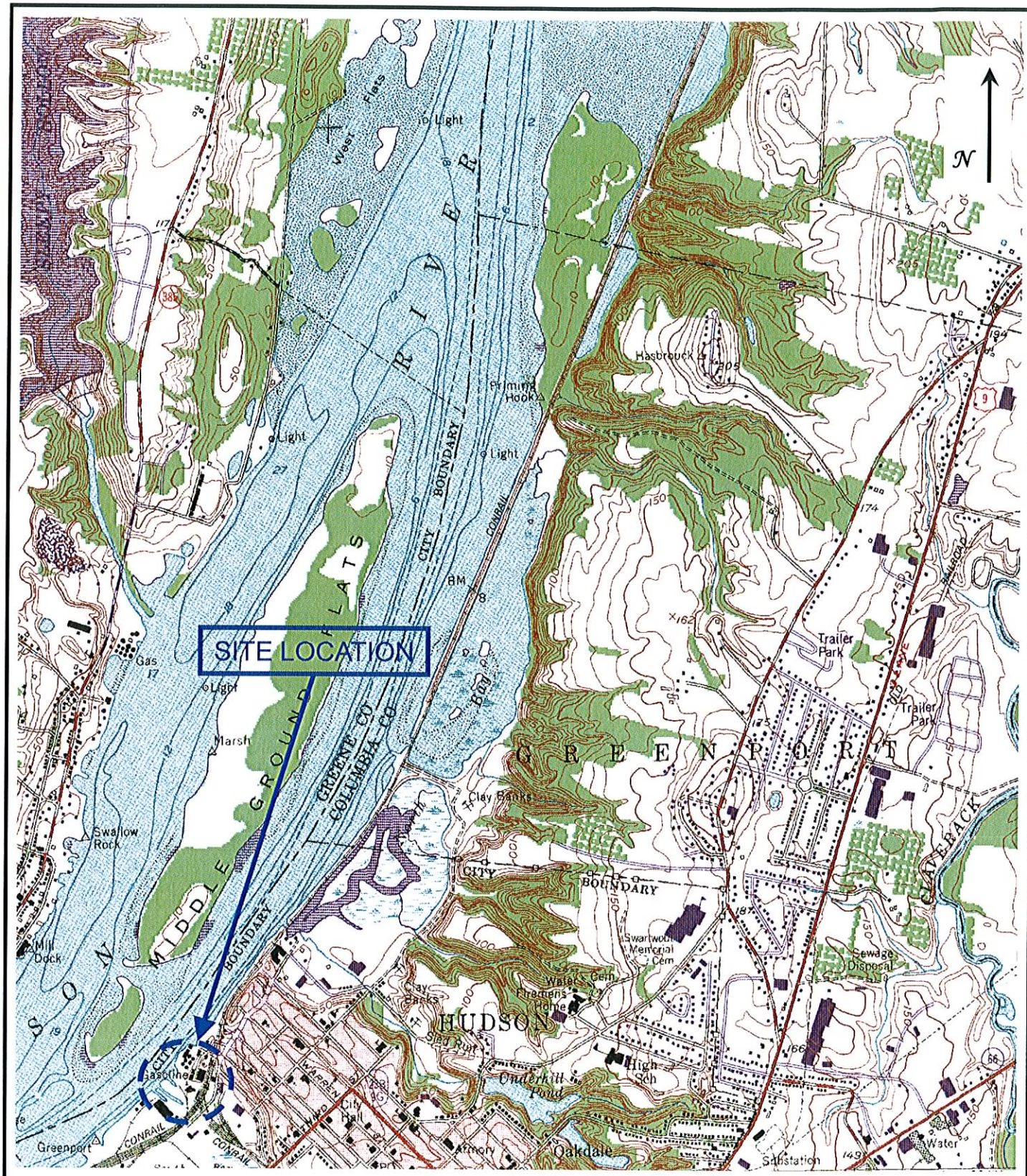
Very truly yours,

Matthew D. Millias

Matthew D. Millias, P.E.
Senior Project Manager
Camp Dresser & McKee

Cc: Tim Beaumont - CDM

Attachment A
Site Figures



Notes:

USGS Topo. Quad. Hudson North used to create base map.

0 1000 2000 3000 4000

APPROXIMATE SCALE

QUADRANGLE LOCATION

NATIONAL GRID
HUDSON (WATER STREET)

SITE LOCATION MAP

CDM

Figure 1

LEGEND:

- PROPERTY LINE
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- APPROXIMATE EDGE OF WATER (VARIES WITH TIDE)
- CHAIN-LINK FENCE
- IRON FENCE
- ELECTRICAL LINE
- RIPRAP
- CRUSHED STONE
- CONCRETE
- ASPHALT/PAVEMENT
- VEGETATED AREA
- STAMPED CONCRETE
- GRASSCRETE PAVING
- DECIDUOUS TREE
- MW-02 GROUNDWATER WATER-LEVEL MONITORING WELL
- MW-05 GROUNDWATER QUALITY MONITORING WELL
- RW-1 NAPL COLLECTION/RECOVERY WELL
- BENCH
- TB TRASH BIN
- HH HANDHOLE
- MH MANHOLE
- UP UTILITY POLE
- LP LIGHT POLE
- A' APPROXIMATE CROSS SECTION LOCATION

NOTE:

1. SURVEY DATA WAS OBTAINED FROM SURVEYS BY C.T. MALE ASSOCIATES, DATED AUGUST 23, 2005 AND NOVEMBER 15, 2005, DRAWING FILES E-ASBUILT.DWG AND W-ASBUILT.DWG, RESPECTIVELY.

NATIONAL GRID
HUDSON (WATER STREET)

POST REMEDIATION SITE CONDITIONS

CDM

Figure
2

SYR-85-BGP LJP KLS LAYER: ON=*, OFF=*REF*
F:\ACTIVE\~DWG\ACT\36851010\DWM\36851G06.DWG SAVED:1/8/2007 3:53 PM LAYOUT:Layout1 PAGESETUP:SYR-01.2B1 PENTABLE:PLTFULL.CTB PRINTED:1/8/2007 3:53 PM BY:KSARTORI
PROJECTNAME:
XREFS: IMAGES:
36851X00
36851X05
36851X06

Attachment B
Inspection and Monitoring Forms
Static Water Levels Summary

National Grid
Water Street-Operable Unit 1
Hudson, New York

Annual Groundwater Sampling
June 2, 2010

Well ID.	Sample?	Well Size	Well Material	Stickup-Flush	DTP	DTW	DTP	DTB	Sump ?	Comments
MW-02	No	2"	PVC	Flush		4.12		20.50	No	
MW-03	Yes	2"	PVC	Flush		2.00		25.50	No	
MW-05	Yes	2"	PVC	Stickup		5.76		28.10	No	
MW-06	Yes	2"	PVC	Stickup		5.62		26.10	Yes	
MW-07	No	2"	PVC	Stickup		5.11		24.55	Yes	
MW-08A	No	2"	PVC	Flush		3.75		25.85	No	
MW-09A	No	2"	PVC	Stickup		5.52		25.07	Yes	
MW-10	No	2"	PVC	Flush		2.94		28.70	Yes	
MW-11	Yes	2"	PVC	Flush		3.30		8.10	Yes	
OW-2	No	2"	PVC	Stickup		5.92		27.55	Yes	
OW-4	No	2"	PVC	Stickup		5.55		28.05	Yes	
Hudson River	No					3.80				Chiseled square adjacent to the 8th railing post on top of the sheetpile wall.
CW-01A	No	4"	Steel	Flush		3.02		30.90	Yes	Slight odor. Slight sheen on probe.
RW-1	No	4"	PVC	Flush		3.22		26.50	Yes	
RW-2	No	4"	PVC	Flush		3.35		22.35	Yes	

Purged water stored onsite in two labeled 5 gallons pails.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: TJB	Lab PM: Peggy Gray-Erdmann	Carrier Tracking No(s):	COC No: 05252010 16:59_1
Client Contact: Matthew Millias	Phone: 585 739 2368	E-Mail: peggy.gray-erdmann@testamericainc.com		Page: 1
Company: Camp Dresser & McKee - Syracuse, NY		Parameter(s) Requested		Job #:
Address: One General Motors Dr. STE 2	Due Date Requested:			
City: Syracuse	TAT Requested (Business Days) 10			
State, Zip: NY, 13206				
Phone: (315) 434-3256	PO #: 36380.70089			
Email: milliasmd@cdm.com	WO #: RTE1245			
Project Name: NG Hudson Water Street	Project #: 36380.70089			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Voas (including Naph thalene)	Total Number of containers	Special Instructions/Note:
			Preserv Cont Code:				A-V		
MW-03-0610	6/2/10	1020	G	W			3	3	
MW-05-0610	6/2/10	925	G	W			3	3	
MW-06-0610	6/2/10	830	G	W			3	3	
MW-06-0610MS	6/2/10	830	G	W			3	3	
MW-06-0610SD	6/2/10	830	G	W			3	3	
MW-11-0610	6/2/10	1110	G	W			3	3	
FD-0610	6/2/10	—	G	W			3	3	
Trip Blank	3/26/10	—		W			3	1	

Preservation Codes:
A=HCL Z=Z
B=NaOH
C=Zn Acetate
D=Nitric Acid
I=Ice
N=None
S=H2SO4
V=MCAA

Container Codes:
A=Amber T=Tedlar
G=Glass V=Vial
P=Poly/Plastic
S=Summa

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements: CAT B

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		6/2/10	CDM		6/2/10 17:10	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

National Grid
Water Street, Hudson, New York

Sampling Personnel: Tim Beaumont
Job Number: 36380.70089
Well Id. **MW-03**

Date: 6/2/10
Weather: Sunny 75°
Time In: 945 Time Out: 1030

Well Information

		TOC	Other
Depth to Water:	(feet)	2.00	
Depth to Product:	(feet)	–	
Depth to Bottom:	(feet)	25.50	
Length of Water Column:	(feet)	23.50	
Volume of Water in Well:	(gal)	3.76	
Three Well Volumes:	(gal)	11.28	

Well Type: Flushmount [X] Stick-Up [ ]
Well Locked: Yes [X] No [ ]
Measuring Point Marked: Yes [X] No [ ]
Well Material: PVC [X] SS [ ] Other:
Well Diameter: 1" [ ] 2" [X] Other:
Comments:

Purging Information

Purging Method:	Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]		
Tubing/Bailer Material:	Teflon [ ]	Stainless St. [ ]	Polyethylene [X]		
Sampling Method:	Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]		
Average Pumping Rate:	(ml/min)	200 ↓			
Duration of Pumping:	(min)	30			
Total Volume Removed:	(gal)	~ 2.0	Did well go dry?	Yes [ ]	No [X]

Horiba U-22 Water Quality Meter Used? Yes [X] No [ ]

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)
950	2.30	6.90	1.62	24.9	.66	16.05	1.7	-153
955	3.52	6.92	1.30	17.3	.49	16.13	1.5	-167
1000	4.61	6.88	1.25	15.6	0	16.22	1.3	-170
1005	5.96	6.87	1.26	14.1	0	16.25	1.3	-171
1010	7.00	6.87	1.24	12.6	0	16.30	1.3	-172
1015	8.04	6.87	1.24	11.8	0	16.28	1.3	-172
1020	9.10	6.88	1.24	10.6	0	16.25	1.2	-173

Sampling Information:

USEPA SW-846 Method 8260 VOC's BTEX Including Naphthalene 3 - 40 mL vials Yes [X] No [ ]

Sample ID: MW-03-0610
Sample Time: 1020
Duplicate? Yes [ ] No [X]
MS/MSD? Yes [ ] No [X]

Shipped: Drop-off Syracuse Service Center [X]
Fed-Ex [ ] UPS [ ]

Laboratory: Test America
Amherst, New York

Comments/Notes: No odor no sheen
Some orange bio growth.

National Grid
Water Street, Hudson, New York

Sampling Personnel: Tim Beaumont
Job Number: 36380.70089
Well Id. **MW-05**

Date: 6/2/10
Weather: Sunny 75°
Time In: 850 Time Out: 940

Well Information

		TOC	Other
Depth to Water:	(feet)	5.76	
Depth to Product:	(feet)	—	
Depth to Bottom:	(feet)	28.10	
Length of Water Column:	(feet)	22.34	
Volume of Water in Well:	(gal)	3.57	
Three Well Volumes:	(gal)	10.71	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other:
Well Diameter: 1" ☐ 2" ☒ Other:
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒		
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐		
Average Pumping Rate:	(ml/min)	~200 ↓			
Duration of Pumping:	(min)	30			
Total Volume Removed:	(gal)	~2.0	Did well go dry?	Yes ☐	No ☒

Horiba U-22 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)
855	7.10	6.82	.742	16.5	.90	14.72	1.0	-173
900	8.00	6.90	.740	15.9	0	14.43	.90	-176
905	8.72	6.95	.739	14.6	0	14.32	.90	-181
910	9.48	7.04	.739	13.0	0	14.21	.90	-187
915	10.11	7.05	.739	10.6	0	14.12	.90	-188
920	10.92	7.06	.738	9.4	0	14.02	.90	-187
925	11.60	7.05	.737	8.3	0	14.00	.89	-188

Sampling Information:

USEPA SW-846 Method 8260 VOC's BTEX Including Naphthalene 6 - 40 mL vials Yes ☒ No ☐

Sample ID: MW-05-0610 Duplicate? Yes ☒ No ☐ **FD-0610** Shipped: Drop-off Syracuse Service Center ☐
Sample Time: 925 MS/MSD? Yes ☐ No ☒ Fed-Ex ☒ UPS ☐

Comments/Notes: NO ODR NO Sheen
Some orange bio growth.

Laboratory: Test America
Amherst, New York

National Grid
Water Street, Hudson, New York

Sampling Personnel: Tim Beaumont
Job Number: 36380.70089
Well Id. **MW-06**

Date: 6/2/10
Weather: Sunny 75°
Time In: 745 Time Out: 845

Well Information

		TOC	Other
Depth to Water:	(feet)	5.62	
Depth to Product:	(feet)	—	
Depth to Bottom:	(feet)	26.10	
Length of Water Column:	(feet)	20.48	
Volume of Water in Well:	(gal)	3.28	
Three Well Volumes:	(gal)	9.84	

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Material: PVC ☒ SS ☐ Other: ____
Well Diameter: 1" ☐ 2" ☒ Other: ____
Comments:

Purging Information

Purging Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐
Tubing/Bailer Material:	Teflon ☐	Stainless St. ☐	Polyethylene ☒
Sampling Method:	Bailer ☐	Peristaltic ☒	Grundfos Pump ☐

Average Pumping Rate:	(ml/min)	~150
Duration of Pumping:	(min)	30
Total Volume Removed:	(gal)	~1.5

Did well go dry? Yes ☐ No ☒

Horiba U-22 Water Quality Meter Used? Yes ☒ No ☐

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)
800	6.95	6.12	1.05	52.6	0	13.81	1.0	-125
805	8.00	6.21	1.03	14.9	0	13.68	.8	-132
810	8.75	6.30	1.03	12.2	0	13.89	.8	-138
815	9.50	6.45	1.02	10.6	0	14.09	.8	-140
820	10.20	6.52	1.02	10.0	0	14.10	.8	-143
825	10.94	6.54	1.02	10.2	0	14.12	.8	-147
830	11.29	6.55	1.00	10.5	0	14.14	.8	-150

Sampling Information:

USEPA SW-846 Method 8260 VOC's BTEX Including Naphthalene 9 - 40 mL vials Yes ☒ No ☐

Sample ID: MW-06-0610
Sample Time: 830
Duplicate? Yes ☐ No ☒
MS/MSD? Yes ☒ No ☐

Shipped: Drop-off Syracuse Service Center ☒
Fed-Ex ☐ UPS ☐

Comments/Notes: no odor no sheen.
Some orange biogrowth

Laboratory: Test America
Amherst, New York

National Grid
Water Street, Hudson, New York

Sampling Personnel: Tim Beaumont
Job Number: 36380.70089
Well Id. **MW-11**

Date: 6/2/10
Weather: Sunny 75°
Time In: 1035 Time Out: 1115

Well Information

		TOC	Other
Depth to Water:	(feet)	3.30	
Depth to Product:	(feet)	—	
Depth to Bottom:	(feet)	8.10	
Length of Water Column:	(feet)	4.80	
Volume of Water in Well:	(gal)	.77	
Three Well Volumes:	(gal)	2.31	

Well Type: Flushmount [X] Stick-Up [ ]
Well Locked: Yes [X] No [ ]
Measuring Point Marked: Yes [X] No [ ]
Well Material: PVC [X] SS [ ] Other: ____
Well Diameter: 1" [ ] 2" [X] Other: ____
Comments:

Purging Information

Purging Method:	Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]		
Tubing/Bailer Material:	Teflon [ ]	Stainless St. [ ]	Polyethylene [X]		
Sampling Method:	Bailer [ ]	Peristaltic [X]	Grundfos Pump [ ]		
Average Pumping Rate:	(ml/min)	~300			
Duration of Pumping:	(min)	30			
Total Volume Removed:	(gal)	~3.0	Did well go dry?	Yes [ ]	No [X]

Horiba U-22 Water Quality Meter Used? Yes [X] No [ ]

Conversion Factors				
gal/ft. of water	1" ID	2" ID	4" ID	6" ID
	0.04	0.16	0.66	1.47
1 gallon=3.785L=3785mL=1337cu. feet				

Time	DTW (feet)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	TDS (g/L)	ORP (mV)
1040	3.38	6.79	1.42	22.4	.37	16.51	1.2	-97
1045	3.36	6.67	1.02	15.2	.10	16.57	.9	-102
1050	3.34	6.66	1.02	13.6	0	16.60	.9	-110
1055	3.34	6.66	1.03	12.1	0	16.62	.9	-118
1100	3.34	6.66	1.00	10.1	0	16.60	.9	-123
1105	3.34	6.67	1.00	7.5	0	16.59	.9	-128
1110	3.34	6.67	.99	5.6	0	16.55	.9	-130

Sampling Information:

USEPA SW-846 Method 8260 VOC's BTEX Including Naphthalene 3 - 40 mL vials Yes [X] No [ ]

Sample ID: MW-11-0610
Sample Time: 1110
Duplicate? Yes [ ] No [X]
MS/MSD? Yes [ ] No [X]

Shipped: Drop-off Syracuse Service Center [X]
Fed-Ex [ ] UPS [ ]

Comments/Notes: Slight odor, no sheen.

Laboratory: Test America
Amherst, New York

Site Inspection
Hudson-Water Street
Operable Unit 1
Hudson, New York

Date: 12/14/2009 Time: 8:00

Technician: Beaumont Weather: Partly Sunny 34°

Surface Cover Areas			
Excessive Settlement Observed	YES	NO	COMMENTS:
Cracks or Potholes Observed	YES	NO	
Depressions and/or Rutting Observed	YES	NO	
Exposed subbase materials Observed	YES	NO	

Erosion Controls (Rip-Rap or Sod)			
Exposed or damaged Geotextile layer(s) Observed	YES	NO	COMMENTS:
Excessive Settlement Observed	YES	NO	some rip rap settling along grassline.
Stressed Vegetation Observed	YES	NO	

Steel Sheetpile Retaining Wall			
Settlement of Wall	YES	NO	COMMENTS:
Subsidence or Cracking of Soils Behind the Wall	YES	NO	
Cracking or Separation of Wall Joints	YES	NO	

Trees, Shrubs and other Planting Materials			
Strong Growth Observed	YES	NO	COMMENTS:

Surface Water Quality					
Sheens Observed On:	Rip-Rap	NONE	MINOR	SIGNIFICANT	COMMENTS:
	Sheetpile Wall	NONE	MINOR	SIGNIFICANT	
	Other Water Surfaces	NONE	MINOR	SIGNIFICANT	

General Comments:

Ste has snow and ice from recent storm

Asplundh was scheduled to repair rip rap on 12/14/2009 but was postponed due to weather conditions along the rip rap.

Arcadis has a total of 21 labeled 55 gallon drums stored in the fenced in area.

Site Inspection
Hudson-Water Street
Operable Unit 1
Hudson, New York

Date: 3/8/2010
Technician: Beaumont

Time: 15:30
Weather: Sunny 50°

Surface Cover Areas			
Excessive Settlement Observed	YES	NO	COMMENTS:
Cracks or Potholes Observed	YES	NO	
Depressions and/or Rutting Observed	YES	NO	
Exposed subbase materials Observed	YES	NO	

Erosion Controls (Rip-Rap or Sod)			
Exposed or damaged Geotextile layer(s) Observed	YES	NO	COMMENTS:
Excessive Settlement Observed	YES	NO	some rip rap settling along grassline.
Stressed Vegetation Observed	YES	NO	

Steel Sheetpile Retaining Wall			
Settlement of Wall	YES	NO	COMMENTS:
Subsidence or Cracking of Soils Behind the Wall	YES	NO	
Cracking or Separation of Wall Joints	YES	NO	

Trees, Shrubs and other Planting Materials			
Strong Growth Observed	YES	NO	COMMENTS:

Surface Water Quality					
Sheens Observed On:	Rip-Rap	NONE	MINOR	SIGNIFICANT	COMMENTS:
	Sheetpile Wall	NONE	MINOR	SIGNIFICANT	
	Other Water Surfaces	NONE	MINOR	SIGNIFICANT	

General Comments:
Asplundh is still scheduled to repair rip rap when weather conditions allow.
There are storage trailer stored inside the fenced in area. They are contractors supplies for a remodeling project for the City.

Site Inspection
Hudson-Water Street
Operable Unit 1
Hudson, New York

Date: 6/2/2010 Time: 10:00

Technician: Beaumont Weather: Sunny 75°

Surface Cover Areas			
Excessive Settlement Observed	YES	NO	COMMENTS:
Cracks or Potholes Observed	YES	NO	
Depressions and/or Rutting Observed	YES	NO	
Exposed subbase materials Observed	YES	NO	

Erosion Controls (Rip-Rap or Sod)			
Exposed or damaged Geotextile layer(s) Observed	YES	NO	COMMENTS:
Excessive Settlement Observed	YES	NO	Asplundh repaired rip-rap on 5/20/2010.
Stressed Vegetation Observed	YES	NO	

Steel Sheetpile Retaining Wall			
Settlement of Wall	YES	NO	COMMENTS:
Subsidence or Cracking of Soils Behind the Wall	YES	NO	
Cracking or Separation of Wall Joints	YES	NO	

Trees, Shrubs and other Planting Materials			
Strong Growth Observed	YES	NO	COMMENTS:

Surface Water Quality					
Sheens Observed On:	Rip-Rap	NONE	MINOR	SIGNIFICANT	COMMENTS:
	Sheetpile Wall	NONE	MINOR	SIGNIFICANT	
	Other Water Surfaces	NONE	MINOR	SIGNIFICANT	

General Comments:

Asplundh repaired the rip rap around the lawn edge on 5/20/2010.

There are storage trailer stored inside the fenced in area. They are contractors supplies for a remodeling project for the City.

National Grid
Water Street-Operable Unit 1
Hudson, New York

Quarterly Groundwater Levels
December 14, 2009

Well ID.	Sample?	Well Size	Well Material	Stickup-Flush	DTP	DTW	DTP	DTB	Sump ?	Comments
MW-02	No	2"	PVC	Flush		4.18		20.50	No	
MW-03	Yes	2"	PVC	Flush		1.95		25.50	No	
MW-05	Yes	2"	PVC	Stickup		5.17		28.10	No	
MW-06	Yes	2"	PVC	Stickup		5.48		26.10	Yes	
MW-07	No	2"	PVC	Stickup		4.00		24.55	Yes	
MW-08A	No	2"	PVC	Flush		3.45		25.85	No	
MW-09A	No	2"	PVC	Stickup		5.38		25.07	Yes	
MW-10	No	2"	PVC	Flush		0.80		28.70	Yes	
MW-11	Yes	2"	PVC	Flush		1.92		8.10	Yes	
OW-2	No	2"	PVC	Stickup		5.35		27.55	Yes	
OW-4	No	2"	PVC	Stickup		5.06		28.05	Yes	
Hudson River	No					5.52				Chiseled square adjacent to the 8th railing post on top of the sheetpile wall.
CW-01A	No	4"	Steel	Flush		1.40		30.90	Yes	slight odor
RW-1	No	4"	PVC	Flush		5.14		26.50	Yes	
RW-2	No	4"	PVC	Flush		5.35		22.35	Yes	

National Grid
Water Street-Operable Unit 1
Hudson, New York

Quarterly Groundwater Levels
March 8, 2010

Well ID.	Sample?	Well Size	Well Material	Stickup-Flush	DTP	DTW	DTP	DTB	Sump ?	Comments
MW-02	No	2"	PVC	Flush		4.93		20.50	No	
MW-03	Yes	2"	PVC	Flush		2.30		25.50	No	
MW-05	Yes	2"	PVC	Stickup		5.65		28.10	No	
MW-06	Yes	2"	PVC	Stickup		6.06		26.10	Yes	
MW-07	No	2"	PVC	Stickup		3.75		24.55	Yes	
MW-08A	No	2"	PVC	Flush		3.05		25.85	No	
MW-09A	No	2"	PVC	Stickup		5.65		25.07	Yes	
MW-10	No	2"	PVC	Flush		2.92		28.70	Yes	
MW-11	Yes	2"	PVC	Flush		1.48		8.10	Yes	
OW-2	No	2"	PVC	Stickup		5.80		27.55	Yes	
OW-4	No	2"	PVC	Stickup		5.47		28.05	Yes	
Hudson River	No					6.10				Chiseled square adjacent to the 8th railing post on top of the sheetpile wall.
CW-01A	No	4"	Steel	Flush		1.00		30.90	Yes	slight odor
RW-1	No	4"	PVC	Flush		4.65		26.50	Yes	
RW-2	No	4"	PVC	Flush		5.76		22.35	Yes	

National Grid
Water Street-Operable Unit 1
Hudson, New York

Annual Groundwater Sampling
June 2, 2010

Well ID.	Sample?	Well Size	Well Material	Stickup-Flush	DTP	DTW	DTP	DTB	Sump ?	Comments
MW-02	No	2"	PVC	Flush		4.12		20.50	No	
MW-03	Yes	2"	PVC	Flush		2.00		25.50	No	
MW-05	Yes	2"	PVC	Stickup		5.76		28.10	No	
MW-06	Yes	2"	PVC	Stickup		5.62		26.10	Yes	
MW-07	No	2"	PVC	Stickup		5.11		24.55	Yes	
MW-08A	No	2"	PVC	Flush		3.75		25.85	No	
MW-09A	No	2"	PVC	Stickup		5.52		25.07	Yes	
MW-10	No	2"	PVC	Flush		2.94		28.70	Yes	
MW-11	Yes	2"	PVC	Flush		3.30		8.10	Yes	
OW-2	No	2"	PVC	Stickup		5.92		27.55	Yes	
OW-4	No	2"	PVC	Stickup		5.55		28.05	Yes	
Hudson River	No					3.80				Chiseled square adjacent to the 8th railing post on top of the sheetpile wall.
CW-01A	No	4"	Steel	Flush		3.02		30.90	Yes	Slight odor. Slight sheen on probe.
RW-1	No	4"	PVC	Flush		3.22		26.50	Yes	
RW-2	No	4"	PVC	Flush		3.35		22.35	Yes	

Purged water stored onsite in two labeled 5 gallons pails.

Hudson (Water Street)
Static Water Level Measurements

Well ID.	Top of Inner Casing (feet amsl)	Depth to Water (feet)																
		6/11/2007	6/20/2007	6/26/2007	7/24/2007	8/14/2007	8/19/2007	9/13/2007	12/1/2007	3/10/2008	6/10/2008	9/16/2008	12/3/2008	3/4/2009	6/1/2009	9/9/2009	12/14/2009	3/8/2010	6/2/2010
MW-02	6.10	4.37	4.15	5.15	4.31	4.14	4.33	4.38	4.87	4.78	4.33	4.40	4.74	5.56	4.20	4.18	4.35	4.93	4.12
MW-03	8.97	2.31	2.25	3.69	2.10	1.87	2.01	2.37	2.38	2.06	2.26	1.96	2.14	2.90	2.20	1.48	1.95	2.30	2.00
MW-05	12.57	5.90	5.60	6.87	5.75	5.55	5.70	5.67	5.45	5.58	5.69	5.09	5.18	6.10	5.92	4.94	5.17	5.65	5.76
MW-06	11.84	5.55	5.20	5.52	5.49	5.37	5.54	5.60	5.68	6.03	5.55	5.27	5.60	6.45	5.48	5.05	5.48	6.06	5.62
MW-07	8.94	5.10	4.85	5.08	5.40	5.38	5.55	5.29	4.18	2.85	5.10	4.53	4.02	4.67	4.89	4.27	4.00	3.75	5.11
MW-08A	6.36	3.47	2.90	3.85	3.74	3.62	3.84	3.75	3.48	2.84	3.56	3.42	3.45	4.00	3.61	3.60	3.45	3.05	3.75
MW-09A	8.40	5.48	5.25	5.56	5.29	5.15	5.15	5.27	5.55	5.54	5.45	5.23	5.60	6.18	5.50	5.23	5.38	5.65	5.52
MW-10	8.69	1.70	1.61	2.17	1.12	2.20	2.38	1.52	2.10	0.75	2.27	1.75	2.38	3.33	2.97	1.90	0.80	2.92	2.94
MW-11	9.57	2.80	2.81	3.12	2.94	3.36	3.53	2.77	2.42	0.86	2.75	2.35	1.82	2.40	2.77	2.86	1.92	1.48	3.30
OW-2	12.82	5.89	5.72	6.94	5.85	5.70	5.83	5.57	5.60	5.72	5.82	5.20	5.37	6.25	6.04	5.00	5.35	5.80	5.92
OW-4	12.66	5.52	5.33	6.00	5.48	5.34	5.50	5.42	5.28	5.35	5.45	4.96	5.14	5.90	5.60	4.77	5.06	5.47	5.55
Hudson River	5.29	4.45	3.10	4.75	4.80	6.15	4.00	5.50	6.03	5.80	2.90	3.72	6.16	3.50	4.26	4.68	5.52	6.10	3.80
CW-01A	9.67	2.12	n/a	n/a	n/a	n/a	n/a	1.65	2.00	0.78	1.70	1.65	1.41	1.80	2.00	2.27	1.40	1.00	3.02
RW-1	5.09	3.60	n/a	n/a	n/a	n/a	n/a	4.04	4.92	4.10	2.82	4.32	4.85	3.98	3.58	4.95	5.14	4.65	3.22
RW-2	4.96	4.00	n/a	n/a	n/a	n/a	n/a	4.11	5.50	5.10	2.56	4.18	5.62	3.19	3.77	4.48	5.35	5.76	3.35

Well ID.	Top of Inner Casing (feet amsl)	Water Level Elevation (feet amsl)																	
		6/11/2007	6/20/2007	6/26/2007	7/24/2007	8/14/2007	8/19/2007	9/13/2007	12/1/2007	3/10/2008	6/10/2008	9/16/2008	12/3/2008	3/4/2009	6/1/2009	9/9/2009	12/14/2009	3/8/2010	6/2/2010
MW-02	6.10	1.73	1.95	0.95	1.79	1.96	1.77	1.72	1.23	1.32	1.77	1.70	1.36	0.54	1.90	1.92	1.75	1.17	1.98
MW-03	8.97	6.66	6.72	5.28	6.87	7.10	6.96	6.60	6.59	6.91	6.71	7.01	6.83	6.07	6.77	7.49	7.02	6.67	6.97
MW-05	12.57	6.67	6.97	5.70	6.82	7.02	6.87	6.90	7.12	6.99	6.88	7.48	7.39	6.47	6.65	7.63	7.40	6.92	6.81
MW-06	11.84	6.29	6.64	6.32	6.35	6.47	6.30	6.24	6.16	5.81	6.29	6.57	6.24	5.39	6.36	6.79	6.36	5.78	6.22
MW-07	8.94	3.84	4.09	3.86	3.54	3.56	3.39	3.65	4.76	6.09	3.84	4.41	4.92	4.27	4.05	4.67	4.94	5.19	3.83
MW-08A	6.36	2.89	3.46	2.51	2.62	2.74	2.52	2.61	2.88	3.52	2.80	2.94	2.91	2.36	2.75	2.76	2.91	3.31	2.61
MW-09A	8.40	2.92	3.15	2.84	3.11	3.25	3.25	3.13	2.85	2.86	2.95	3.17	2.80	2.22	2.90	3.17	3.02	2.75	2.88
MW-10	8.69	6.99	7.08	6.52	7.57	6.49	6.31	7.17	6.59	7.94	6.42	6.94	6.31	5.36	5.72	6.79	7.89	5.77	5.75
MW-11	9.57	6.77	6.76	6.45	6.63	6.21	6.04	6.80	7.15	8.71	6.82	7.22	7.75	7.17	6.80	6.71	7.65	8.09	6.27
OW-2	12.82	6.93	7.10	5.88	6.97	7.12	6.99	7.25	7.22	7.10	7.00	7.62	7.45	6.57	6.78	7.82	7.47	7.02	6.90
OW-4	12.66	7.14	7.33	6.66	7.18	7.32	7.16	7.24	7.38	7.31	7.21	7.70	7.52	6.76	7.06	7.89	7.60	7.19	7.11
Hudson River	5.29	0.84	2.19	0.54	0.49	-0.86	1.29	-0.21	-0.74	-0.51	2.39	1.57	-0.87	1.79	1.03	0.61	-0.23	-0.81	1.49
CW-01A	9.67	7.55	n/a	n/a	n/a	n/a	n/a	8.02	7.67	8.89	7.97	8.02	8.26	7.87	7.67	7.40	8.27	8.67	6.65
RW-1	5.09	1.49	n/a	n/a	n/a	n/a	n/a	1.05	0.17	0.99	2.27	0.77	0.24	1.11	1.51	0.14	-0.05	0.44	1.87
RW-2	4.96	0.96	n/a	n/a	n/a	n/a	n/a	0.85	-0.54	-0.14	2.40	0.78	-0.66	1.77	1.19	0.48	-0.39	-0.80	1.61

Notes:
Estimated elevation; well paved over during surveying but uncovered presently and can be monitored.
amsl Above Mean Sea Level

Hudson Water Street
Hudson, New York

Well Id.	DTP	DTW	DTP	DTB	Thickness	Amount Recovered	Comments
CW-01A		1.40		30.90	0	0	
RW-1		5.14		26.50	0	0	
RW-2		5.35		22.35	0	0	

Comments:

Hudson Water Street
Hudson, New York

Well Id.	DTP	DTW	DTP	DTB	Thickness	Amount Recovered	Comments
CW-01A		1.00		30.90	0	0	
RW-1		4.65		26.50	0	0	
RW-2		5.76		22.35	0	0	

Comments:

Hudson Water Street
Hudson, New York

Well Id.	DTP	DTW	DTP	DTB	Thickness	Amount Recovered	Comments
CW-01A		3.02		30.90	0	0	Slight odor. Slight sheen on probe.
RW-1		3.22		26.50	0	0	
RW-2		3.35		22.35	0	0	

Comments:

Attachment C
Groundwater Analytical Data Summary

National Grid
Hudson (Water Street)
Hudson, New York

Analytical Data Summary

Compound	NYSAWQS (ug/L)	June 2010 Event (ug/L)			
		MW-03	MW-05	MW-06	MW-11
Benzene	1	ND	ND	ND	**12**
Toluene	5	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	**12**
o-Xylene	-	ND	ND	ND	4.6
m/p-Xylenes	-	ND	ND	ND	ND
Xylene (total)	5	ND	ND	ND	4.6
Naphthalene	10	ND	ND	ND	2.6

ND - Not Detected
NYSAWQS - New York State Aqueous Water Quality Standards
Bolded numbers exceed the NYSAWQS

National Grid
Hudson (Water Street)
Hudson, New York

Analytical Data Summary

Compound	NYSAWQS (ug/L)	June 2009 Event (ug/L)			
		MW-03	MW-05	MW-06	MW-11
Benzene	1	ND	ND	ND	**4.6**
Toluene	5	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	**4.9**
o-Xylene	-	ND	ND	ND	ND
m/p-Xylenes	-	ND	ND	ND	ND
Xylene (total)	5	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND

ND - Not Detected
NYSAWQS - New York State Aqueous Water Quality Standards
Bolded numbers exceed the NYSAWQS

National Grid
Hudson (Water Street)
Hudson, New York

Analytical Data Summary

Compound	NYSAWQS (ug/L)	June 2008 Event (ug/L)			
		MW-03	MW-05	MW-06	MW-11
Benzene	1	ND	ND	ND	**3.8**
Toluene	5	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	**8**
o-Xylene	-	ND	ND	ND	2.4
m/p-Xylenes	-	ND	ND	ND	ND
Xylene (total)	5	ND	ND	ND	ND
Naphthalene	10	ND	ND	ND	ND

ND - Not Detected
NYSAWQS - New York State Aqueous Water Quality Standards
Bolded numbers exceed the NYSAWQS

National Grid
Hudson (Water Street)
Hudson, New York

Analytical Data Summary

Compound	NYSAWQS (ug/L)	August 2007 Event (ug/L)				
		MW-03	MW-05	MW-06	MW-07	MW-11
Benzene	1	ND	ND	ND	ND	**12**
Toluene	5	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	**16**
o-Xylene	-	ND	ND	ND	ND	6.8
m/p-Xylenes	-	ND	ND	ND	ND	ND
Xylene (total)	5	ND	ND	ND	ND	**7.5**
Naphthalene	10	ND	ND	ND	ND	5.1

ND - Not Detected
NYSAWQS - New York State Aqueous Water Quality Standards
Bolded numbers exceed the NYSAWQS

Attachment D
Data Validation Report

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
Facsimile 518-251-4428

July 1, 2009

Karen Whalen
CDM
One General Motors Dr. Suite 2
Syracuse, NY 13206

RE: **D**ata **U**sability **S**ummary **R**eport for NMPC-Hudson-Water St site
TAL-Buffalo Job No. RTF0440

Dear Ms. Whalen:

Review has been completed for the data package generated by TestAmerica Laboratories, Inc. that pertains to samples collected June 2, 2010 at the NMPC Hudson Water St. site. Four aqueous samples and a field duplicate were processed for BTEX, and naphthalene by the USEPA SW846 method 8260B, with additional QC requirements of the NYSDEC ASP. A trip blank was also analyzed.

The data packages submitted contain full deliverables for validation, but this usability report is generated from review of the summary form information, with review of sample raw data, and limited review of associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, using guidance from the NMPC generic QAPP, USEPA Region 2 validation SOPs, the USEPA National Functional Guidelines for Data Review, and professional judgment, as affects the usability of the data. The following items were reviewed:

* Laboratory Narrative Discussion
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Field Duplicate Correlations
* Preparation/Calibration Blanks
* Control Spike/Laboratory Control Samples
* CalibrationStandard Responses
* Instrumental Tunes
* Instrument IDLs
* Sample Quantitation and Identification

The items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review.

In summary, field sample analyte values/reporting limits are usable as reported.

Copies of the laboratory case narratives and the sample identification summary forms are attached to this text, and should be reviewed in conjunction with this report. Also included with this narrative are laboratory sample results forms.

BTEX by EPA 8260B/NYSDEC ASP

Sample holding times were met and instrumental tunes are within acceptance ranges. Surrogate and internal standard recoveries are within required limits. Calibrations standards show acceptable responses.

The matrix spikes of MW-06-0610 show acceptable accuracy and precision for benzene, toluene, and xylenes. Naphthalene was not evaluated in the matrix spikes or spiked control. Blind field duplicate correlations of MW-05-0610 were within guidance limits.

Blanks show no contamination, although the trip blank was filled more than two months before sample collection. The results for that trip blank have been rejected. Only one sample shows detections, and those results should be used with the consideration that the possibility of external contamination contribution has not been thoroughly evaluated.

Chain-of-Custody

Release entries pertaining to an interim transfer are not present on the custody.

Data Package Completeness

Although required of the laboratory deliverables, raw data are not identified with the client ID.

The laboratory case narrative is generic, and does not specifically address the project particulars.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs and CASE NARRATIVE

Camp Dresser & McKee - Syracuse, NY
One General Motors Dr. STE 2
Syracuse, NY 13206

Work Order: RTF0440

Project: Water Street
Project Number: CMP-DRSR

Received: 06/03/10
Reported: 06/15/10 13:47

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
MW-03-0610	RTF0440-01	Water	06/02/10 10:20	06/03/10 08:45	
MW-05-0610	RTF0440-02	Water	06/02/10 09:25	06/03/10 08:45	
MW-06-0610	RTF0440-03	Water	06/02/10 08:30	06/03/10 08:45	
MW-11-0610	RTF0440-06	Water	06/02/10 11:10	06/03/10 08:45	
FD-0610	RTF0440-07	Water	06/02/10	06/03/10 08:45	
TRIP BLANK	RTF0440-08	Water	06/02/10	06/03/10 08:45	

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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.

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

SAMPLE RESULTS FORMS

Camp Dresser & McKee - Syracuse, NY
One General Motors Dr. STE 2
Syracuse, NY 13206

Work Order: RTF0440

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Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
MW-03-0610	RTF0440-01	Water	06/02/10 10:20	06/03/10 08:45	
MW-05-0610	RTF0440-02	Water	06/02/10 09:25	06/03/10 08:45	
MW-06-0610	RTF0440-03	Water	06/02/10 08:30	06/03/10 08:45	
MW-11-0610	RTF0440-06	Water	06/02/10 11:10	06/03/10 08:45	
FD-0610	RTF0440-07	Water	06/02/10	06/03/10 08:45	
TRIP BLANK	RTF0440-08	Water	06/02/10	06/03/10 08:45	

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTF0440-01 (MW-03-0610 - Water)					**Sampled: 06/02/10 10:20**		**Recvd: 06/03/10 08:45**		
Volatile Organic Compounds by EPA 8260B									
Benzene	ND		1.0	ug/L	1.00	06/10/10 17:41	DHC	10F0859	8260B
Ethylbenzene	ND		1.0	ug/L	1.00	06/10/10 17:41	DHC	10F0859	8260B
m-Xylene & p-Xylene	ND		2.0	ug/L	1.00	06/10/10 17:41	DHC	10F0859	8260B
Naphthalene	ND		1.0	ug/L	1.00	06/10/10 17:41	DHC	10F0859	8260B
o-Xylene	ND		1.0	ug/L	1.00	06/10/10 17:41	DHC	10F0859	8260B
Toluene	ND		1.0	ug/L	1.00	06/10/10 17:41	DHC	10F0859	8260B
Xylenes, total	ND		2.0	ug/L	1.00	06/10/10 17:41	DHC	10F0859	8260B
1,2-Dichloroethane-d4	*116 %*		*Surr Limits: (66-137%)*			*06/10/10 17:41*	*DHC*	*10F0859*	*8260B*
4-Bromofluorobenzene	*94 %*		*Surr Limits: (73-120%)*			*06/10/10 17:41*	*DHC*	*10F0859*	*8260B*
Toluene-d8	*104 %*		*Surr Limits: (71-126%)*			*06/10/10 17:41*	*DHC*	*10F0859*	*8260B*

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTF0440-02 (MW-05-0610 - Water)					**Sampled: 06/02/10 09:25**		**Recvd: 06/03/10 08:45**		
Volatile Organic Compounds by EPA 8260B									
Benzene	ND		1.0	ug/L	1.00	06/10/10 18:02	DHC	10F0859	8260B
Ethylbenzene	ND		1.0	ug/L	1.00	06/10/10 18:02	DHC	10F0859	8260B
m-Xylene & p-Xylene	ND		2.0	ug/L	1.00	06/10/10 18:02	DHC	10F0859	8260B
Naphthalene	ND		1.0	ug/L	1.00	06/10/10 18:02	DHC	10F0859	8260B
o-Xylene	ND		1.0	ug/L	1.00	06/10/10 18:02	DHC	10F0859	8260B
Toluene	ND		1.0	ug/L	1.00	06/10/10 18:02	DHC	10F0859	8260B
Xylenes, total	ND		2.0	ug/L	1.00	06/10/10 18:02	DHC	10F0859	8260B
1,2-Dichloroethane-d4	*112 %*		*Surr Limits: (66-137%)*			*06/10/10 18:02*	*DHC*	*10F0859*	*8260B*
4-Bromofluorobenzene	*91 %*		*Surr Limits: (73-120%)*			*06/10/10 18:02*	*DHC*	*10F0859*	*8260B*
Toluene-d8	*101 %*		*Surr Limits: (71-126%)*			*06/10/10 18:02*	*DHC*	*10F0859*	*8260B*

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTF0440-03 (MW-06-0610 - Water)					**Sampled: 06/02/10 08:30**		**Recvd: 06/03/10 08:45**		
Volatile Organic Compounds by EPA 8260B									
Benzene	ND		1.0	ug/L	1.00	06/10/10 18:24	DHC	10F0859	8260B
Ethylbenzene	ND		1.0	ug/L	1.00	06/10/10 18:24	DHC	10F0859	8260B
m-Xylene & p-Xylene	ND		2.0	ug/L	1.00	06/10/10 18:24	DHC	10F0859	8260B
Naphthalene	ND		1.0	ug/L	1.00	06/10/10 18:24	DHC	10F0859	8260B
o-Xylene	ND		1.0	ug/L	1.00	06/10/10 18:24	DHC	10F0859	8260B
Toluene	ND		1.0	ug/L	1.00	06/10/10 18:24	DHC	10F0859	8260B
Xylenes, total	ND		2.0	ug/L	1.00	06/10/10 18:24	DHC	10F0859	8260B
1,2-Dichloroethane-d4	*107 %*		*Surr Limits: (66-137%)*			*06/10/10 18:24*	*DHC*	*10F0859*	*8260B*
4-Bromofluorobenzene	*88 %*		*Surr Limits: (73-120%)*			*06/10/10 18:24*	*DHC*	*10F0859*	*8260B*
Toluene-d8	*97 %*		*Surr Limits: (71-126%)*			*06/10/10 18:24*	*DHC*	*10F0859*	*8260B*

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTF0440-06 (MW-11-0610 - Water)					**Sampled: 06/02/10 11:10**		**Recvd: 06/03/10 08:45**		
Volatile Organic Compounds by EPA 8260B									
Benzene	**12**		1.0	ug/L	1.00	06/10/10 19:30	DHC	10F0859	8260B
Ethylbenzene	**12**		1.0	ug/L	1.00	06/10/10 19:30	DHC	10F0859	8260B
m-Xylene & p-Xylene	ND		2.0	ug/L	1.00	06/10/10 19:30	DHC	10F0859	8260B
Naphthalene	**2.6**		1.0	ug/L	1.00	06/10/10 19:30	DHC	10F0859	8260B
o-Xylene	**4.6**		1.0	ug/L	1.00	06/10/10 19:30	DHC	10F0859	8260B
Toluene	ND		1.0	ug/L	1.00	06/10/10 19:30	DHC	10F0859	8260B
Xylenes, total	**4.6**		2.0	ug/L	1.00	06/10/10 19:30	DHC	10F0859	8260B
1,2-Dichloroethane-d4	*109 %*		*Surr Limits: (66-137%)*			*06/10/10 19:30*	*DHC*	*10F0859*	*8260B*
4-Bromofluorobenzene	*98 %*		*Surr Limits: (73-120%)*			*06/10/10 19:30*	*DHC*	*10F0859*	*8260B*
Toluene-d8	*106 %*		*Surr Limits: (71-126%)*			*06/10/10 19:30*	*DHC*	*10F0859*	*8260B*

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTF0440-07 (FD-0610 - Water)					**Sampled: 06/02/10**			**Recvd: 06/03/10 08:45**	
Volatile Organic Compounds by EPA 8260B									
Benzene	ND		1.0	ug/L	1.00	06/10/10 19:52	DHC	10F0859	8260B
Ethylbenzene	ND		1.0	ug/L	1.00	06/10/10 19:52	DHC	10F0859	8260B
m-Xylene & p-Xylene	ND		2.0	ug/L	1.00	06/10/10 19:52	DHC	10F0859	8260B
Naphthalene	ND		1.0	ug/L	1.00	06/10/10 19:52	DHC	10F0859	8260B
o-Xylene	ND		1.0	ug/L	1.00	06/10/10 19:52	DHC	10F0859	8260B
Toluene	ND		1.0	ug/L	1.00	06/10/10 19:52	DHC	10F0859	8260B
Xylenes, total	ND		2.0	ug/L	1.00	06/10/10 19:52	DHC	10F0859	8260B
1,2-Dichloroethane-d4	*108 %*		*Surr Limits: (66-137%)*			*06/10/10 19:52*	*DHC*	*10F0859*	*8260B*
4-Bromofluorobenzene	*89 %*		*Surr Limits: (73-120%)*			*06/10/10 19:52*	*DHC*	*10F0859*	*8260B*
Toluene-d8	*98 %*		*Surr Limits: (71-126%)*			*06/10/10 19:52*	*DHC*	*10F0859*	*8260B*

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RTF0440-08 (TRIP BLANK - Water)					**Sampled: 06/02/10**			**Recvd: 06/03/10 08:45**	
Volatile Organic Compounds by EPA 8260B									
Benzene	ND		1.0	ug/L	1.00	06/10/10 20:14	DHC	10F0859	8260B
Ethylbenzene	ND		1.0	ug/L	1.00	06/10/10 20:14	DHC	10F0859	8260B
m-Xylene & p-Xylene	ND		2.0	ug/L	1.00	06/10/10 20:14	DHC	10F0859	8260B
Naphthalene	ND		1.0	ug/L	1.00	06/10/10 20:14	DHC	10F0859	8260B
o-Xylene	ND		1.0	ug/L	1.00	06/10/10 20:14	DHC	10F0859	8260B
Toluene	ND		1.0	ug/L	1.00	06/10/10 20:14	DHC	10F0859	8260B
Xylenes, total	ND		2.0	ug/L	1.00	06/10/10 20:14	DHC	10F0859	8260B
1,2-Dichloroethane-d4	*108 %*		*Surr Limits: (66-137%)*			*06/10/10 20:14*	*DHC*	*10F0859*	*8260B*
4-Bromofluorobenzene	*89 %*		*Surr Limits: (73-120%)*			*06/10/10 20:14*	*DHC*	*10F0859*	*8260B*
Toluene-d8	*102 %*		*Surr Limits: (71-126%)*			*06/10/10 20:14*	*DHC*	*10F0859*	*8260B*

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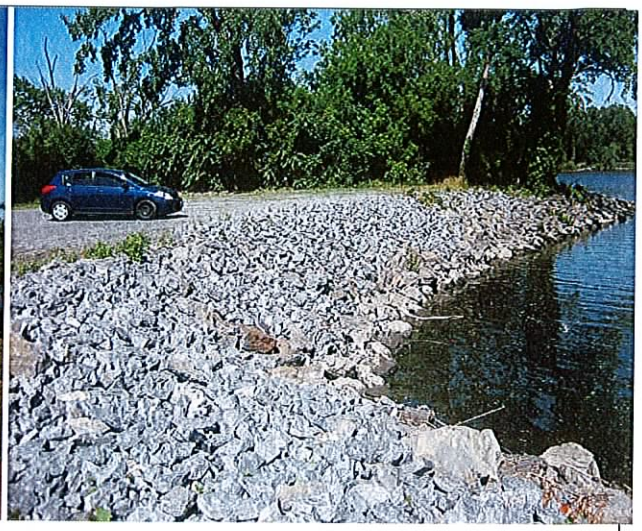
SAMPLE EXTRACTION DATA

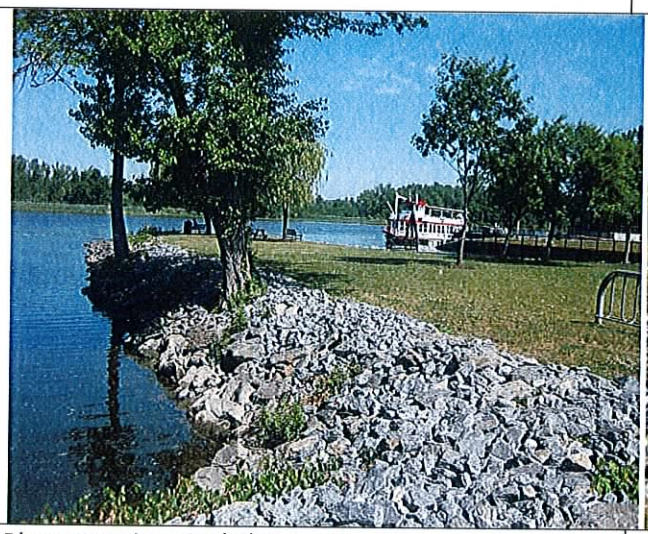
Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
Volatile Organic Compounds by EPA 8260B									
8260B	10F0859	RTF0440-01	5.00	mL	5.00	mL	06/10/10 10:07	DHC	5030B MS
8260B	10F0859	RTF0440-02	5.00	mL	5.00	mL	06/10/10 10:07	DHC	5030B MS
8260B	10F0859	RTF0440-03	5.00	mL	5.00	mL	06/10/10 10:07	DHC	5030B MS
8260B	10F0859	RTF0440-06	5.00	mL	5.00	mL	06/10/10 10:07	DHC	5030B MS
8260B	10F0859	RTF0440-07	5.00	mL	5.00	mL	06/10/10 10:07	DHC	5030B MS
8260B	10F0859	RTF0440-08	5.00	mL	5.00	mL	06/10/10 10:07	DHC	5030B MS

Attachment E
Photolog

Photo#01 dated 6/2/10 looking NW

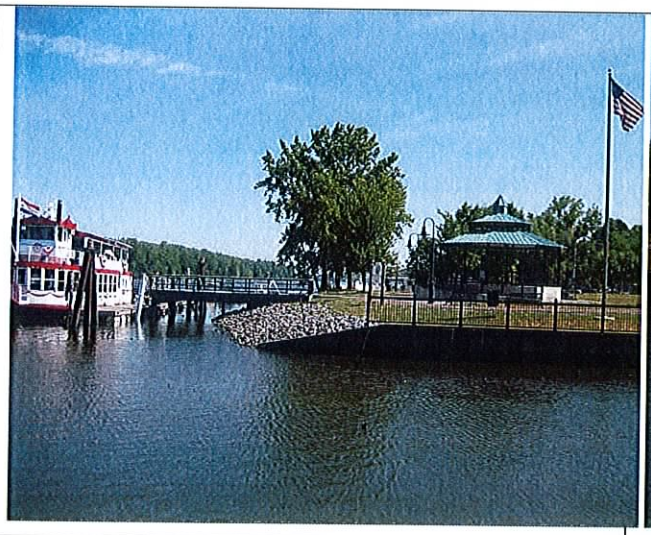


Photo#02 dated 6/2/10 looking W



Photo#03 dated 6/2/10 looking N

Photo#04 dated 6/2/10 looking SE



Photo#05 dated 6/2/10 looking SE

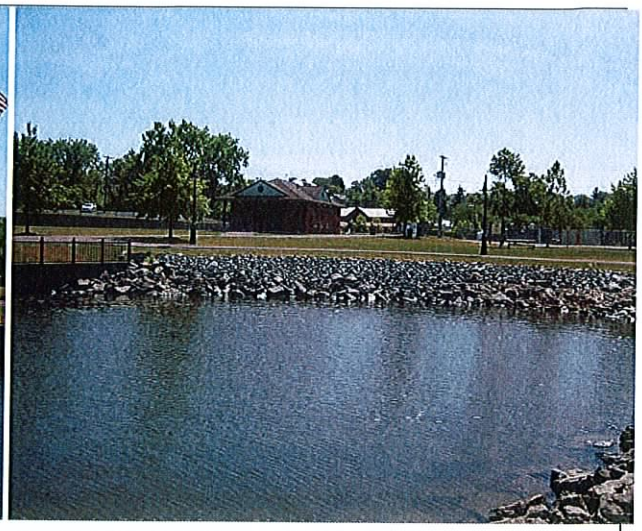


Photo #06 dated 6/2/10 looking S

Photo#07 dated 6/2/10 looking SW

Photo#08 dated 6/2/10 looking S