CDM

One General Motors Drive
Syracuse, New York 13206
tel: 315 434-3200
fax: 315 463-5100

August 7, 2009

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

Subject: Annual (2009) Groundwater Monitoring Report
Hudson (Water Street) Site, Hudson, New York

Dear Mr. Stucker:

CDM is pleased to submit this Annual (2009) *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 3, 2008, March 4, 2009 and June 2, 2009. Quarterly site inspections will continue for a five year period 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.

DNAPL Monitoring and Collection

Quarterly DNAPL monitoring took place over the last year on the following dates; December 3, 2008, March 4, 2009 and June 1, 2009. No DNAPL was recovered from any of the wells during any of these events. However, during all three quarters 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.

After the initial one year monitoring period the DNAPL program was evaluated. Due to no recovery of DNAPL over the last four monitoring periods the DNAPL monitoring program will be terminated.

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 1, 2009. The water level elevation (feet above mean sea level (amsl) ranged from 1.03 feet amsl at the Hudson River, to 7.67 feet amsl at CW-01A. The groundwater direction continues appears to remain in a south/southeast direction as shown on previous groundwater contour figures. 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, in 2012, the collected data will be evaluated to determine whether 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 and ethylbenzene 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 2009 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 detected at this well during the previous sampling event of June 2008 was not detected during the June 2009 event. Additionally, from the August 2007 to the June 2009 sampling event, benzene levels were reduced from 12 ug/L to 4.6 ug/L and ethylbenzene levels were reduced from 16 ug/L to 4.9 ug/L. MW-11 is located to the west of the brick warehouse, sampling and monitoring will continue at this location.

Since inception of the well monitoring, no DNAPL has been noted in any site well. Therefore, CDM recommends discontinuing the DNAPL quarterly monitoring at the site. The remaining 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 Maps

Notes:

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

0 1000 2000 3000 4000

APPROXIMATE SCALE

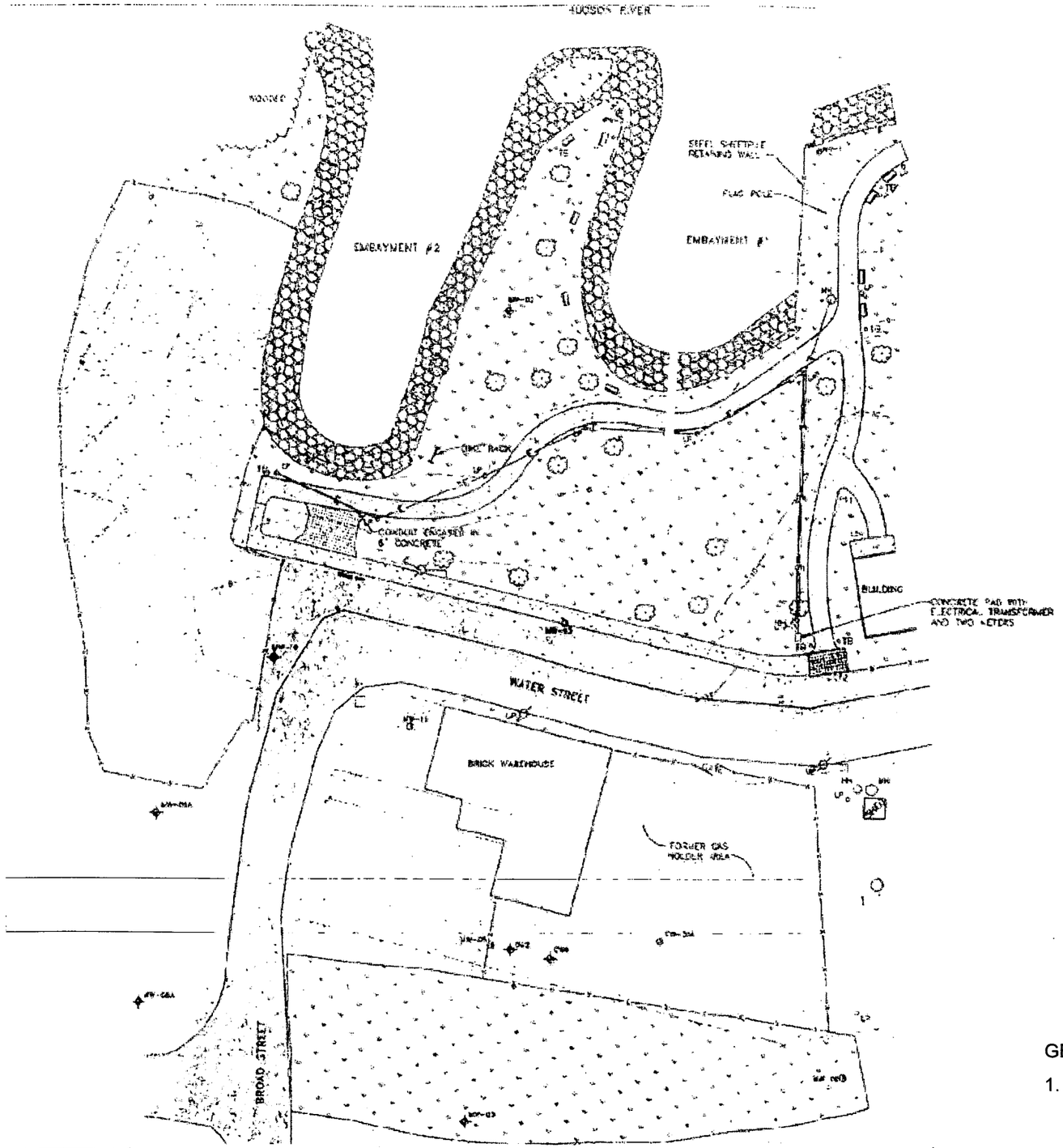
QUADRANGLE LOCATION

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
- GROUNDWATER WATER-LEVEL MONITORING WELL
- GROUNDWATER QUALITY MONITORING WELL
- NAPL COLLECTION/RECOVERY WELL
- BENCH
- TRASH BIN
- HANDHOLE
- MANHOLE
- UTILITY POLE
- LIGHT POLE

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

0 30' 60'
GRAPHIC SCALE

GENERAL NOTES:

1. BASE MAP TAKEN FROM OM&M PLAN PREPARED BY ARCADIS BBL.

NATIONAL GRID
HUDSON (WATER STREET)

POST REMEDIATION SITE CONDITIONS

CDM

Figure
2

Attachment B
Inspection and Monitoring Forms

National Grid
Water Street, Hudson, New York

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

Date: 6/1/09
Weather: Sunny 65°
Time In: 1300 Time Out: 1340

Well Information

		TOC	Other
Depth to Water:	(feet)	2.20	
Depth to Product:	(feet)		
Depth to Bottom:	(feet)	25.50	
Length of Water Column:	(feet)	23.30	
Volume of Water in Well:	(gal)	3.73	
Three Well Volumes:	(gal)	11.19	

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 [X]	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 [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)
1305	2.90	6.50	.991	96.2	3.02	15.15	.63	-153
1310	3.30	6.41	.989	76.1	0	14.83	.63	-160
1315	4.85	6.40	.985	50.6	0	14.90	.63	-162
1320	6.20	6.41	.983	35.2	0	14.94	.63	-163
1325	8.25	6.41	.980	25.4	0	14.88	.62	-163
1330	10.00	6.41	.980	23.2	0	14.85	.63	-164
1335	11.75	6.41	.978	24.6	0	14.79	.62	-164

Sampling Information:

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

Sample ID: MW-03-0609 Duplicate? Yes [ ] No [X]
Sample Time: 1335 MS/MSD? Yes [ ] No [X]

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

Comments/Notes: no odor no sheen

Laboratory: Test America, Amherst, New York

National Grid
Water Street, Hudson, New York

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

Date: 6/1/09
Weather: Sunny 65°
Time In: 1215 Time Out: 1255

Well Information

		TOC	Other
Depth to Water:	(feet)	5.92	
Depth to Product:	(feet)	—	
Depth to Bottom:	(feet)	28.10	
Length of Water Column:	(feet)	22.18	
Volume of Water in Well:	(gal)	3.55	
Three Well Volumes:	(gal)	10.65	

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)
1220	6.60	6.57	.731	92.6	4.32	12.93	.47	-179
1225	7.40	6.50	.714	70.2	0	12.62	.46	-183
1230	7.80	6.45	.709	37.4	0	12.98	.45	-180
1235	8.65	6.43	.709	25.6	0	12.62	.45	-177
1240	9.20	6.42	.707	15.2	0	12.60	.45	-175
1245	10.55	6.41	.704	12.4	0	12.62	.45	-174
1250	11.20	6.42	.705	10.2	0	12.62	.45	-173

Sampling Information:

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

Sample ID: MW-05-0609 Duplicate? Yes ☒ No ☐ FD-**0609** Shipped: Drop-off Syracuse Service Center ☐
Sample Time: 1250 MS/MSD? Yes ☐ No ☒ Fed-Ex ☒ UPS ☐

Comments/Notes: No odor no sheen

Laboratory: Test America
Amherst, New York

National Grid
Water Street, Hudson, New York

Sampling Personnel: Tim Beaumont
Date: 6/1/09
Job Number: 36380.70089
Weather: Sunny 62°
Well Id. MW-06
Time In: 1125 Time Out: 1210

Well Information

		TOC	Other
Depth to Water:	(feet)	5.48	
Depth to Product:	(feet)	—	
Depth to Bottom:	(feet)	26.10	
Length of Water Column:	(feet)	20.62	
Volume of Water in Well:	(gal)	3.30	
Three Well Volumes:	(gal)	9.90	

Well Type: Flushmount [ ] Stick-Up [X]
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)	↓ 150				
Duration of Pumping: (min)	30				
Total Volume Removed: (gal)	~ 1.5	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)
1130	6.40	6.01	1.16	67.4	1.24	13.32	.7	-142
1135	6.86	5.84	1.13	62.1	0	13.21	.7	-140
1140	7.12	5.88	1.08	59.6	0	13.20	.7	-134
1145	8.06	5.85	1.07	54.2	0	13.25	.7	-131
1150	9.15	5.86	1.05	52.6	0	13.26	.7	-130
1155	10.06	5.87	1.07	51.2	0	13.25	.7	-128
1200	11.11	5.88	1.06	49.6	0	13.27	.7	-127

Sampling Information:

USEPA SW-846 Method 8260 VOC's BTEX Including Naphthalene 9 - 40 mL vials Yes [X] No [ ]

Sample ID: MW-06-09 06
Sample Time: 1200
Duplicate? Yes [ ] No [X]
MS/MSD? Yes [X] No [ ]
Shipped: Drop-off Syracuse Service Center [X]
Fed-Ex [ ] UPS [ ]

Comments/Notes: no odor no sheen

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: 6/1/09
Weather: Sunny 65°
Time In: 1345 Time Out: 1430

Well Information

		TOC	Other
Depth to Water:	(feet)	2.77	
Depth to Product:	(feet)	—	
Depth to Bottom:	(feet)	8.10	
Length of Water Column:	(feet)	5.33	
Volume of Water in Well:	(gal)	.85	
Three Well Volumes:	(gal)	2.55	

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)	350			
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)
1350	2.80	6.27	1.39	62.4	0	14.56	.9	-96
1355	2.80	6.20	1.30	54.6	0	14.72	.8	-106
1400	2.80	6.17	1.23	49.7	0	14.89	.8	-110
1405	2.80	6.24	1.17	32.6	0	14.90	.7	-121
1410	2.80	6.24	1.16	28.2	.50	14.99	.7	-127
1415	2.80	6.28	1.15	25.9	.62	15.00	.7	-134
1420	2.80	6.27	1.13	21.2	0	15.00	.7	-139

Sampling Information:

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

Sample ID: MW-11-0609
Sample Time: 1420
Duplicate? Yes [ ] No [X]
MS/MSD? Yes [ ] No [X]

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

Comments/Notes: No Sheen Slight odor

Laboratory: Test America
Amherst, New York

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0907)

Client	Project Manager	Date	Chain of Custody Number
CDM	Matt Millias	6/1/09	388037
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
1 General Motors Drive	315 434 3256		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Syracuse / NY / 13206	Tim Beaumont		
Project Name and Location (State)	**Carrier/Waybill Number**		
NG Hudson Water St Hudson NY.	drop off Syracuse Service Center		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: 8260 BTEX	MS Analysis	Special Instructions/ Conditions of Receipt
MW-03-0609	6/1/09	1335		X						3			X		
MW-05-0609	6/1/09	1250		X						3			X		
MW-06-0609 MS/MSD	6/1/09	1200		X						9			X		
MW-11-0609	6/1/09	H20		X						3			X		
FD-0609	6/1/09	—		X						3			X		MW-05-0609
Trip blank	4/30/09	—		X						1			X		

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

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

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other SM

QC Requirements (Specify)
Cat B

	Date	Time		Date	Time
1. Relinquished By	6/3/09	1420	1. Received By	6/3/09	1420
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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

Date: 6/2/2009 Time: 1100

Technician: Beaumont Weather: Sunny 65°

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:

Steve Stucker on site for safety inspection.
Met with Asplundh at the site to discuss rip-rap repair options.
Arcadis has a labeled 55 gallon drum stored in the fenced in area.

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

Date: 3/4/2009 Time: 800

Technician: Beaumont Weather: Sunny 20°

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:

NG has stated they will maintain the rip-rap to protect the integrity of the site.
Arcadis has a labeled 55 gallon drum stored in the fenced in area.

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

Date: 12/3/2008 Time: 1000

Technician: Beaumont Weather: Partly Sunny 35°

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:

Had Asplundh install more small rip-rap stone in the area near RW-1 on November 11, 2008 .
Arcadis has a labeled 55 gallon drum stored in the fenced in area.

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

Quarterly Groundwater Levels
June 1, 2009

Well ID.	Sample?	Well Size	Well Material	Stickup-Flush	DTP	DTW	DTP	DTB	Sump ?	Comments
MW-02	No	2"	PVC	Flush		4.20		20.50	No	
MW-03	Yes	2"	PVC	Flush		2.20		25.50	No	
MW-05	Yes	2"	PVC	Stickup		5.92		28.10	No	
MW-06	Yes	2"	PVC	Stickup		5.48		26.10	Yes	
MW-07	No	2"	PVC	Stickup		4.89		24.55	Yes	
MW-08A	No	2"	PVC	Flush		3.61		25.85	No	
MW-09A	No	2"	PVC	Stickup		5.50		25.07	Yes	
MW-10	No	2"	PVC	Flush		2.97		28.70	Yes	
MW-11	Yes	2"	PVC	Flush		2.77		8.10	Yes	
OW-2	No	2"	PVC	Stickup		6.04		27.55	Yes	
OW-4	No	2"	PVC	Stickup		5.60		28.05	Yes	
Hudson River	No					4.26				Chiseled square adjacent to the 8th railing post on top of the sheetpile wall.
CW-01A	No	4"	Steel	Flush		2.00		30.90	Yes	slight odor
RW-1	No	4"	PVC	Flush		3.58		26.50	Yes	
RW-2	No	4"	PVC	Flush		3.77		22.35	Yes	

Purge water is stored in 2 labeled 5 gallon pails located inside the fenced in area.

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

Quarterly Groundwater Levels
March 4, 2009

Well ID.	Sample?	Well Size	Well Material	Stickup-Flush	DTP	DTW	DTP	DTB	Sump ?	Comments
MW-02	No	2"	PVC	Flush		5.56		20.50	No	
MW-03	No	2"	PVC	Flush		2.90		25.50	No	
MW-05	No	2"	PVC	Stickup		6.10		28.10	No	
MW-06	No	2"	PVC	Stickup		6.45		26.10	Yes	
MW-07	No	2"	PVC	Stickup		4.67		24.55	Yes	
MW-08A	No	2"	PVC	Flush		4.00		25.85	No	
MW-09A	No	2"	PVC	Stickup		6.18		25.07	Yes	
MW-10	No	2"	PVC	Flush		3.33		28.70	Yes	
MW-11	No	2"	PVC	Flush		2.40		8.10	Yes	
OW-2	No	2"	PVC	Stickup		6.25		27.55	Yes	
OW-4	No	2"	PVC	Stickup		5.90		28.05	Yes	
Hudson River	No					3.50				Chiseled square adjacent to the 8th railing post on top of the sheetpile wall.
CW-01A	No	4"	Steel	Flush		1.80		30.90	Yes	slight odor
RW-1	No	4"	PVC	Flush		3.98		26.50	Yes	
RW-2	No	4"	PVC	Flush		3.19		22.35	Yes	

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

Quarterly Groundwater Levels
December 3, 2008

Well ID.	Sample?	Well Size	Well Material	Stickup-Flush	DTP	DTW	DTP	DTB	Sump ?	Comments
MW-02	No	2"	PVC	Flush		4.74		20.50	No	
MW-03	No	2"	PVC	Flush		2.14		25.50	No	
MW-05	No	2"	PVC	Stickup		5.18		28.10	No	
MW-06	No	2"	PVC	Stickup		5.60		26.10	Yes	
MW-07	No	2"	PVC	Stickup		4.02		24.55	Yes	
MW-08A	No	2"	PVC	Flush		3.45		25.85	No	
MW-09A	No	2"	PVC	Stickup		5.60		25.07	Yes	
MW-10	No	2"	PVC	Flush		2.38		28.70	Yes	
MW-11	No	2"	PVC	Flush		1.82		8.10	Yes	
OW-2	No	2"	PVC	Stickup		5.37		27.55	Yes	
OW-4	No	2"	PVC	Stickup		5.14		28.05	Yes	
Hudson River	No					6.16				Chiseled square adjacent to the 8th railing post on top of the sheetpile wall.
CW-01A	No	4"	Steel	Flush		1.41		30.90	Yes	slight odor
RW-1	No	4"	PVC	Flush		4.85		26.50	Yes	
RW-2	No	4"	PVC	Flush		5.62		22.35	Yes	

Hudson (Water Street)
Static Water Level Measurements

Well ID.	Top of Inner Casing (feet amsl)	Depth to Water (feet)														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	8/16/2008	12/3/2008	3/4/2009	6/1/2009	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
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	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
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	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
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	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
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	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
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	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
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	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
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	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
MW-10	[redacted]	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	8.99	7.08	6.52	7.57	6.49	6.31	7.17	6.59	7.84	6.42	6.94	6.31	5.36	5.72
MW-11	9.57	2.80	2.81	3.12	2.94	3.36	3.53	2.77	2.42	0.88	2.75	2.35	1.82	2.40	2.77	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
OW-2	12.62	5.69	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	6.93	7.10	5.68	6.97	7.12	6.99	7.25	7.22	7.10	7.00	7.62	7.45	6.57	6.78
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	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
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	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
CW-01A	9.67	2.12	n/a	n/a	n/a	n/a	n/a	1.65	2.00	0.76	1.70	1.65	1.41	1.80	2.00	7.55	n/a	n/a	n/a	n/a	n/a	8.02	7.67	8.89	7.97	8.02	6.26	7.87	7.67
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	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
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	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

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

Attachment C
Laboratory Data Summary

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

Attachment D
Data Validation Report

Data Validation Services

120 Cobble Creek Road RO. Box 208
North Creek, NY 12853

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

July 17, 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. RSF0161

Dear Ms. Whalen:

Review has been completed for the data package generated by TestAmerica Laboratories, Inc. that pertains to samples collected June 1, 2009 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

Field 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-06-0609 show acceptable accuracy and precision. Blind field duplicate correlations of MW-05-0609 were also with within guidance limits.

Blanks show no contamination, although the results of the trip blank are not usable due to the fact it was filled more than a month before sample collection. Only one project sample shows target analyte detections. It should be noted that full evaluation for external contamination has not been made.

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 QUALIFIER DEFINITIONS

DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the national qualifiers assigned to results in the data review process. If the Regions choose to use additional qualifiers, a complete explanation of those qualifiers should accompany the data review.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N - The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an anaiyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

CLIENT and LABORATORY SAMPLE IDs and CASE NARRATIVES

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

Work Order: RSF0161

Project: Water Street
Project Number: CMP-DRSR

Received: 06/04/09
Reported: 06/22/09 14:10

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
MW-03-0609	RSF0161-01	Water	06/01/09 13:35	06/04/09 09:00	
MW-05-0609	RSF0161-02	Water	06/01/09 12:50	06/04/09 09:00	
MW-06-0609	RSF0161-03	Water	06/01/09 12:00	06/04/09 09:00	
MW-11-0609	RSF0161-06	Water	06/01/09 14:20	06/04/09 09:00	
FD-0609	RSF0161-07	Water	06/01/09	06/04/09 09:00	
TRIP BLANK	RSF0161-08	Water	06/01/09	06/04/09 09:00	

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

Work Order: RSF0161

Project: Water Street
Project Number: CMP-DRSR

Received: 06/04/09
Reported: 06/22/09 14:10

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.

QUALIFIED SAMPLE RESULTS FORMS

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Work Order: RSF0161

Project: Water Street
Project Number: CMP-DRSR

Received: 06/04/09
Reported: 06/22/09 14:10

Sample Summary

Sample identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
MW-03-0609	RSF0161-01	Water	06/01/09 13:35	06/04/09 09:00	
MW-05-0609	RSF0161-02	Water	06/01/09 12:50	06/04/09 09:00	
MW-06-0609	RSF0161-03	Water	06/01/09 12:00	06/04/09 09:00	
MW-11-0609	RSF0161-06	Water	06/01/09 14:20	06/04/09 09:00	
FD-0609	RSF0161-07	Water	06/01/09	06/04/09 09:00	
TRIP BLANK	RSF0161-08	Water	06/01/09	06/04/09 09:00	

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

Work Order: RSF0161

Project: Water Street
Project Number: CMP-DRSR

Received: 06/04/09
Reported: 06/22/09 14:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0161-01 (MW-03-0609 - Water)					**Sampled: 06/01/09 13:35**	**Recvd : 06/04/09 09:00**			
Volatile Organic Compounds by EPA 8260B									
Benzene	ND		1.0	ug/L	1.00	06/08/09 11:28	TRB	9F08021	8260B
Ethylbenzene	ND		1.0	ug/L	1.00	06/08/09 11:28	TRB	9F08021	8260B
m-Xylene & p-Xylene	ND		2.0	ug/L	1.00	06/08/09 11:28	TRB	9F08021	8260B
Naphthalene	ND		1.0	ug/L	1.00	06/08/09 11:28	TRB	9F08021	8260B
o-Xylene	ND		1.0	ug/L	1.00	06/08/09 11:28	TRB	9F08021	8260B
Toluene	ND		1.0	ug/L	1.00	06/08/09 11:28	TRB	9F08021	8260B
Xylenes, total	ND		2.0	ug/L	1.00	06/08/09 11:28	TRB	9F08021	8260B
1,2-Dichloroethane-d4	*117 %*		*Surr Limits: (66-137%)*			*06/08/09 11:28*	*TRB*	*9F08021*	*8260B*
4-Bromofluorobenzene	*108 %*		*Surr Limits: (73-120%)*			*06/08/09 11:28*	*TRB*	*9F08021*	*8260B*
Toluene-d8	*114 %*		*Surr Limits: (71-126%)*			*06/08/09 11:28*	*TRB*	*9F08021*	*8260B*

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

Work Order: RSF0161

Project: Water Street
Project Number: CMP-DRSR

Received: 06/04/09
Reported: 06/22/09 14:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0161-02 (MW-05-0609 - Water)					**Sampled: 06/01/09 12:50**	**Recvd : 06/04/09 09:00**			
Volatile Organic Compounds by EPA 8260B									
Benzene	ND		1.0	ug/L	1.00	06/08/09 11:51	TRB	9F08021	8260B
Ethylbenzene	ND		1.0	ug/L	1.00	06/08/09 11:51	TRB	9F08021	8260B
m-Xylene & p-Xylene	ND		2.0	ug/L	1.00	06/08/09 11:51	TRB	9F08021	8260B
Naphthalene	ND		1.0	ug/L	1.00	06/08/09 11:51	TRB	9F08021	8260B
o-Xylene	ND		1.0	ug/L	1.00	06/08/09 11:51	TRB	9F08021	8260B
Toluene	ND		1.0	ug/L	1.00	06/08/09 11:51	TRB	9F08021	8260B
Xylenes, total	ND		2.0	ug/L	1.00	06/08/09 11:51	TRB	9F08021	8260B
1,2-Dichloroethane-d4	*120 %*		*Surr Limits: (66-137%)*			*06/08/09 11:51*	*TRB*	*9F08021*	*8260B*
4-Bromofluorobenzene	*110 %*		*Surr Limits: (73-120%)*			*06/08/09 11:51*	*TRB*	*9F08021*	*8260B*
Toluene-d8	*118 %*		*Surr Limits: (71-126%)*			*06/08/09 11:51*	*TRB*	*9F08021*	*8260B*

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

Work Order: RSF0161

Project: Water Street
Project Number: CMP-DRSR

Received: 06/04/09
Reported: 06/22/09 14:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0161-03 (MW-06-0609 - Water)					**Sampled: 06/01/09 12:00**	**Recvd : 06/04/09 09:00**			
Volatile Organic Compounds by EPA 8260B									
Benzene	ND		1.0	ug/L	1.00	06/08/09 12:15	TRB	9F08021	8260B
Ethylbenzene	ND		1.0	ug/L	1.00	06/08/09 12:15	TRB	9F08021	8260B
m-Xylene & p-Xylene	ND		2.0	ug/L	1.00	06/08/09 12:15	TRB	9F08021	8260B
Naphthalene	ND		1.0	ug/L	1.00	06/08/09 12:15	TRB	9F08021	8260B
o-Xylene	ND		1.0	ug/L	1.00	06/08/09 12:15	TRB	9F08021	8260B
Toluene	ND		1.0	ug/L	1.00	06/08/09 12:15	TRB	9F08021	8260B
Xylenes, total	ND		2.0	ug/L	1.00	06/08/09 12:15	TRB	9F08021	8260B
1,2-Dichloroethane-d4	*118 %*		*Surr Limits: (66-137%)*			*06/08/09 12:15*	*TRB*	*9F08021*	*8260B*
4-Bromofluorobenzene	*108 %*		*Surr Limits: (73-120%)*			*06/08/09 12:15*	*TRB*	*9F08021*	*8260B*
Toluene-d8	*113 %*		*Surr Limits: (71-126%)*			*06/08/09 12:15*	*TRB*	*9F08021*	*8260B*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Work Order: RSF0161

Project: Water Street
Project Number: CMP-DRSR

Received: 06/04/09
Reported: 06/22/09 14:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0161-06 (MW-11-0609 - Water)						**Sampled: 06/01/09 14:20Recvd : 06/04/09 09:00**			
Volatile Organic Compounds by EPA 8260B									
Benzene	4.6		1.0	ug/L	1.00	06/08/09 13:25	TRB	9F08021	8260B
Ethylbenzene	4.9		1.0	ug/L	1.00	06/08/09 13:25	TRB	9F08021	8260B
m-Xylene & p-Xylene	ND		2.0	ug/L	1.00	06/08/09 13:25	TRB	9F08021	8260B
Naphthalene	ND		1.0	ug/L	1.00	06/08/09 13:25	TRB	9F08021	8260B
o-Xylene	ND		1.0	ug/L	1.00	06/08/09 13:25	TRB	9F08021	8260B
Toluene	ND		1.0	ug/L	1.00	06/08/09 13:25	TRB	9F08021	8260B
Xylenes, total	ND		2.0	ug/L	1.00	06/08/09 13:25	TRB	9F08021	8260B
1,2-Dichloroethane-d4	*117 %*		*Surr Limits: (66-137%)*			*06/08/09 13:25*	*TRB*	*9F08021*	*8260B*
4-Bromofluorobenzene	*110 %*		*Surr Limits: (73-120%)*			*06/08/09 13:25*	*TRB*	*9F08021*	*8260B*
Toluene-d8	*114 %*		*Surr Limits: (71-126%)*			*06/08/09 13:25*	*TRB*	*9F08021*	*8260B*

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

Work Order: RSF0161

Project: Water Street
Project Number: CMP-DRSR

Received: 06/04/09
Reported: 06/22/09 14:10

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	9F08021	RSF0161-01	5.00	mL	5.00	mL	06/08/09 10:43	TWS	5030B MS
8260B	9F08021	RSF0161-02	5.00	mL	5.00	mL	06/08/09 10:43	TWS	5030B MS
8260B	9F08021	RSF0161-03	5.00	mL	5.00	mL	06/08/09 10:43	TWS	5030B MS
8260B	9F08021	RSF0161-06	5.00	mL	5.00	mL	06/08/09 10:43	TWS	5030B MS
8260B	9F08021	RSF0161-07	5.00	mL	5.00	mL	06/08/09 10:43	TWS	5030B MS
8260B	9F08021	RSF0161-08	5.00	mL	5.00	mL	06/08/09 10:43	TWS	5030B MS

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

Work Order: RSF0161

Project: Water Street
Project Number: CMP-DRSR

Received: 06/04/09
Reported: 06/22/09 14:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0161-07 (FD-0609 - Water)					**Sampled: 06/01/09**			**Recvd: 06/04/09 09:00**	
Volatile Organic Compounds by EPA 8260B									
Benzene	ND		1.0	ug/L	1.00	06/08/09 13:48	TRB	9F08021	8260B
Ethylbenzene	ND		1.0	ug/L	1.00	06/08/09 13:48	TRB	9F08021	8260B
m-Xylene & p-Xylene	ND		2.0	ug/L	1.00	06/08/09 13:48	TRB	9F08021	8260B
Naphthalene	ND		1.0	ug/L	1.00	06/08/09 13:48	TRB	9F08021	8260B
o-Xylene	ND		1.0	ug/L	1.00	06/08/09 13:48	TRB	9F08021	8260B
Toluene	ND		1.0	ug/L	1.00	06/08/09 13:48	TRB	9F08021	8260B
Xylenes, total	ND		2.0	ug/L	1.00	06/08/09 13:48	TRB	9F08021	8260B
1,2-Dichloroethane-d4	*116 %*		*Surr Limits: (66-137%)*			*06/08/09 13:48*	*TRB*	*9F08021*	*8260B*
4-Bromofluorobenzene	*107 %*		*Surr Limits: (73-120%)*			*06/08/09 13:48*	*TRB*	*9F08021*	*8260B*
Toluene-d8	*114 %*		*Surr Limits: (71-126%)*			*06/08/09 13:48*	*TRB*	*9F08021*	*8260B*

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

Work Order: RSF0161

Project: Water Street
Project Number: CMP-DRSR

Received: 06/04/09
Reported: 06/22/09 14:10

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSF0161-08 (TRIP BLANK - Water)					**Sampled: 06/01/09**			**Recvd: 06/04/09 09:00**	
Volatile Organic Compounds by EPA 8260B									
Benzene	~~ND~~		1.0	ug/L	1.00	06/08/09 14:11	TRB	9F08021	8260B
Ethylbenzene	ND		1.0	ug/L	1.00	06/08/09 14:11	TRB	9F08021	8260B
m-Xylene & p-Xylene	ND		2.0	ug/L	1.00	06/08/09 14:11	TRB	9F08021	8260B
Naphthalene	ND		1.0	ug/L	1.00	06/08/09 14:11	TRB	9F08021	8260B
o-Xylene	ND		1.0	ug/L	1.00	06/08/09 14:11	TRB	9F08021	8260B
Toluene	ND		1.0	ug/L	1.00	06/08/09 14:11	TRB	9F08021	8260B
Xylenes, total	~~ND~~		2.0	ug/L	1.00	06/08/09 14:11	TRB	9F08021	8260B
1,2-Dichloroethane-d4	*116 %*		*Surr Limits: (66-137%)*			*06/08/09 14:11*	*TRB*	*9F08021*	*8260B*
4-Bromofluorobenzene	*107 %*		*Surr Limits: (73-120%)*			*06/08/09 14:11*	*TRB*	*9F08021*	*8260B*
Toluene-d8	*113 %*		*Surr Limits: (71-126%)*			*06/08/09 14:11*	*TRB*	*9F08021*	*8260B*