FORMER GASTOWN MGP SITE SITE NO. 915171

2008 LAB REPORTS FOR THE GROUNDWATER COLLECTION & TREATMENT SYSTEM

Lab reports are missing for August & November 2008.



ANALYTICAL REPORT

Job#: <u>A08-0975</u>

Project#: NY5A946109

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

Task: NYSDEC Spills - Gastown WWTP

Mr. Glenn May NYSDEC - Region 9 270 Michigan Ave Buffalo, NY 14203

CC: Mr. Charles B. Guzzetta

TestAmerica Laboratories Inc.

Brian J. Fischer For Project Manager

02/11/2008



TestAmerica Buffalo Current Certifications

As of 6/15/2007

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

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

SAMPLE SUMMARY

			SAMPI	ŒD	RECEIVI	⊡
LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE	TIME	DATE	TIME
A8097501	POST-CARBON		01/29/2008			
A8097502	PRE-CARBON	GW	01/29/2008	10:55	01/29/2008	12:50

METHODS SUMMARY

Job#: A08-0975

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

PARAMETER.		ALYTICAL METHOD
NYSDEC - SW8463 8260/5 ML	SW8463	8260
METHOD 8021 - VOLATILE ORGANICS - STARS	SW8463	8021
NYSDEC - METHOD 8270 Gastown	SW8463	8270
GASTOWN - METHOD 608 - P.P. PESTICIDES	CFR136	608PEST
Arsenic - Total	MCAWW	200.7
Calcium - Total	MCAWW	200.7
Iron - Total	MCAWW	200.7
Magnesium - Total	MCAWW	200.7
Manganese - Total	MCAWW	200.7
Potassium - Total	MCAWW	
Sodium - Total	MCAWW	200.7
Zinc - Total	MCAWW	200.7
Biochemical Oxygen Demand	SM20	405.1
Chloride	MCAWW	300.0
Cyanide - Total	MCAWW	335.2
Oil & Grease	MCAWW	1664
PH	SM20	
Sulfate	MCAWW	
Total Alkalinity	MCAWW	
Total Dissolved Solids	SM20	
Total Recoverable Phenolics	MCAWW	
Total Suspended Solids	SM20	160.2

References:

CFR136

Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, and Appendix A-C; 40 CFR Part 136, USEPA Office of Water.

MCAWW

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM20 "Standard Methods for the Examination of Water and Wastewater", 20th Edition.

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-0975

Project#: NY5A946109

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

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. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-0975

Sample Cooler(s) were received at the following temperature(s); 5.3 °C All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The analyte Indene was searched for as a tentatively identified compound (TIC's). Analyte was not found.

GC Extractable Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Brian J. Fischer Project Manager

21108

Dat A

Date: 02/11/2008 Time: 11:35:26

Dilution Log w/Code Information For Job A08-0975

8/17 Page:

Rept: AN1266R

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	<u>Code</u>
POST-CARBON	A8097501	8270	5.00	012
PRE-CARBON	A8097502	8021	200.00	800
PRE-CARBON	A8097502	8260	100.00	800
PRE-CARBON .	A8097502	Chloride	5.00	008
PRE-CARBON	A8097502	Sulfate	5.00	800
PRE-CARBON	A8097502	Total Alkalinity	5.00	800

Dilution Code Definition:

002 - sample matrix effects

003 - excessive foaming

004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other

Date: 02/11/2008

Requested Reporting Limits < Lab PQL

Time: 11:35:28

Page: 1 Rept: AN1520

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to lab MDL. It must be noted that results reported below lab standard quantitation limit (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	<u>Parameter</u>	<u>Unit</u>	Client RL	Lab <u>PQ</u> L	•
420.4	Total Recoverable Phenolics	MG/L	0.0050	0.010	



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NYSDEC NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC Spills - Gastown WWTP

11/17 Page: 1 Rept: AN1178

TestAmerica

Sample ID: POST-CARBON
Lab Sample ID: A8097501
Date Collected: 01/29/2008
Time Collected: 11:35

Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	
Parameter	Result	Flag	Limit	Units	Method	Analyzed	Analyst
NYSDEC - SW8463 8260/5 ML							
1,1,1-Trichloroethane	ND		5	UG/L	8260	02/06/2008 09:16	JLG
1,1,2,2-Tetrachloroethane	ND		5	UG/L	8260	02/06/2008 09:16	JLG
1,1,2-Trichloroethane	ND		5	UG/L	8260	02/06/2008 09:16	JLG
1,1-Dichloroethane	ND		5	UG/∟	8260	02/06/2008 09:16	JLG
1,1-Dichloroethene	ND		5	UG/L	8260	02/06/2008 09:16	JLG
1,2-Dichloroethane	ND		5 .	UG/L	8260	02/06/2008 09:16	JLG
1,2-Dichloroethene (Total)	ND		10	UG/L	8260	02/06/2008 09:16	JLG
1,2-Dichloropropane	ND		5	UG/L	8260	02/06/2008 09:16	JLG
2-Butanone	ND		25	UG/L	8260	02/06/2008 09:16	JLG
2-Hexanone	ND		25	UG/∟	8260	02/06/2008 09:16	JLG
4-Methyl-2-pentanone	ND		25	UĢ/L	8260	02/06/2008 09:16	
Acetone	ND		25	UG/L	8260	02/06/2008 09:16	
Benzene	ND		5	UG/L	8260	02/06/2008 09:16	
Bromodichloromethane	ND		5	UG/L	8260	02/06/2008 09:16	
Bromoform	ND		5	UG/L	8260	02/06/2008 09:16	
Bromomethane	ND		5	UG/L	8260	02/06/2008 09:16	JLG
Carbon Disulfide	ND		5	UG/L	8260	02/06/2008 09:16	JLG
Carbon Tetrachloride	ND		5	UG/L	8260	02/06/2008 09:16	JLG
Chlorobenzene	ND		5	υG/∟	8260	02/06/2008 09:16	JLG
Chloroethane	ND		5	UG/L	8260	02/06/2008 09:16	JLG
Chloroform	ND		5	UG/L	8260	02/06/2008 09:16	JLG
Chloromethane	ND		5	UG/L	8260	02/06/2008 09:16	JLG
cis-1,3-Dichloropropene	ND		5	UG/L	8260	02/06/2008 09:16	JLG
Dibromochloromethane	ND		5	UG/L	8260	02/06/2008 09:16	JLG
Ethylbenzene	ND		5	UG/L	8260	02/06/2008 09:16	JLG
Methylene chloride	ND		5	UG/L	8260	02/06/2008 09:16	JLG
Styrene	ND		5	∪G/L	8260	02/06/2008 09:16	JLG
Tetrachloroethene	ND		5	UG/L	8260	02/06/2008 09:16	JLG
Toluene	0.6	J	5	υG/∟	8260	02/06/2008 09:16	JLG
Total Xylenes	ND		15	UG/L	8260	02/06/2008 09:16	JLG
trans-1,3-Dichloropropene	ND		5	UG/L	8260	02/06/2008 09:16	JLG
Trichloroethene	ND		5	UG/L	8260	02/06/2008 09:16	JLG
Vinyl acetate	ND		25	UG/L	8260	02/06/2008 09:16	JLG
Vinyl chloride	2	J	5	∪g/L	8260	02/06/2008 09:16	JLG
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA				·		. ,	
1,2,4-Trimethylbenzene	ND		0.20	UG/L	8021	02/02/2008 14:05	LMW
1,3,5-Trimethylbenzene	ND		0.20	UG/L	8021	02/02/2008 14:05	LMW
Benzene	ND		0.20	UG/L	8021	02/02/2008 14:05	LM₩
Ethylbenzene	ND		0.20	υG/L	8021	02/02/2008 14:05	LMW
Isopropylbenzene	ND		0.20	UG/L	8021	02/02/2008 14:05	LMW
m-Xylene	ND		0.40	UG/L	8021	02/02/2008 14:05	LMW
Methyl-t-Butyl Ether (MTBE)	ND		0.40	υG/L	8021	02/02/2008 14:05	LMW
n-Butylbenzene	ND		0.40	υG/∟	8021	02/02/2008 14:05	LMW
n-Propylbenzene	ND		0.20	UG/L	8021	02/02/2008 14:05	LMW
o-Xylene	ND		0.20	UG/L	8021	02/02/2008 14:05	LMW
p-Cymene	ND		0.40	UG/L	8021	02/02/2008 14:05	LMW
p-Xylene	ND		0.40	UG/L	8021	02/02/2008 14:05	LMM.
sec-Butylbenzene	ND		0.40	UG/L	8021	02/02/2008 14:05	LMW
1 1 2 2	,,,,		0.40	۵0, ۵	JUL 1	52, 52, 2000 14:0J	FI.144

NYSDEC NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC Spills - Gastown WWTP

12/17 Page: 2 Rept: AN1178

Sample ID: POST-CARBON Lab Sample ID: A8097501 Date Collected: 01/29/2008 Time Collected: 11:35 Date Received: 01/29/2008 Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	_
Parameter	Result	Flag	Limit	Units	Method	Analyzed	Analyst
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
Toluene	ND		0.20	UG/∟	8021	02/02/2008 14:0	5 LMW
Total Xylenes	ND		0.60	UG/L	8021	02/02/2008 14:0	5 LMW
NYSDEC - GASTOWN WWTP LIST/8270 - W							
2-Methylnaphthalene	ND		47	UG/L	8270	01/31/2008 13:1) RM
Acenaphthene	ND		47	UG/L	8270	01/31/2008 13:1) RM
Acenaphthylene	ND		47	UG/∟	8270	01/31/2008 13:1) RM
Anthracene	ND		47	UG/L	8270	01/31/2008 13:1) RM
Benzo(a)anthracene	ND		47	UG/L	8270	01/31/2008 13:1) RM
Benzo(a)pyrene	ND		47	UG/L	8270	01/31/2008 13:1) RM
Benzo(b)fluoranthene	ND		47	UG/L	8270	01/31/2008 13:1) RM
Benzo(ghi)perylene	ND		47	UG/L	8270	01/31/2008 13:1) RM
Benzo(k)fluoranthene	ND		47	UG/L	8270	01/31/2008 13:1) RM
Biphenyl	ND		47	UG/L	8270	01/31/2008 13:1	
Bis(2-ethylhexyl) phthalate	ND		47	UG/L	8270	01/31/2008 13:1	
Carbazole	ND		47	UG/L	8270	01/31/2008 13:1	
Chrysene	ND		47	UG/L	8270	01/31/2008 13:1) RM
Dibenzo(a,h)anthracene	ND		47	UG/L	8270	01/31/2008 13:1	
Dibenzofuran	ND		47	UG/L	8270	01/31/2008 13:1	
Fluoranthene	ND		47	UG/L	8270	01/31/2008 13:1	
Fluorene	ND		47	UG/L	8270	01/31/2008 13:1	
Indene (TIC)	ND		47	UG/L	8270	01/31/2008 13:1	
Indeno(1,2,3-cd)pyrene	ND		47	UG/L	8270	01/31/2008 13:1	
Naphthalene	ND		47	UG/L	8270	01/31/2008 13:1	
Pentachlorophenol	ND		240	UG/L	8270	01/31/2008 13:1	
Phenanthrene	ND		47	UG/L	8270	01/31/2008 13:1	
Phenol	ND		240	UG/L	8270	01/31/2008 13:1	
Pyrene	ND		47	UG/L	8270	01/31/2008 13:1	
GASTOWN - AQUEOUS-CFR136 608 - P.P. PESTICIDE							
4,4'-DDD	ND		0.047	UG/L	608PEST	02/05/2008 15:2	5 тсн
4,4'-DDE	ND		0.047	UG/L	608PEST	02/05/2008 15:2	
4,4'-DDT	ND		0.047	UG/L	608PEST	02/05/2008 15:2	5 тсн
Aldrin	ND		0.047	UG/L	608PEST	02/05/2008 15:2	
alpha-внс	ND		0.047	UG/L	608PEST	02/05/2008 15:2	
beta-BHC	ND		0.047	UG/∟	608PEST	02/05/2008 15:2	
Chlordane	ND		0.47	UG/∟	608PEST	02/05/2008 15:2	
delta-BHC	ND		0.047	υσ/∟	608PEST	02/05/2008 15:2	
Dieldrin	ND		0.047	UG/∟	608PEST	02/05/2008 15:2	
Endosulfan I	ND		0.047	υG/L	608PEST	02/05/2008 15:2	
Endosulfan II	ND		0.047	υG/L	608PEST	02/05/2008 15:2	
Endosulfan Sulfate	ND		0.047	UG/∟	608PEST	02/05/2008 15:2	
Endrin	ND		0.047	UG/L	608PEST	02/05/2008 15:2	
Endrin aldehyde	0.040	ВЈ	0.047	UG/L	608PEST	02/05/2008 15:2	
gamma-BHC (Lindane)	ND		0.047	UG/L	608PEST	02/05/2008 15:20	
Heptachlor	ND		0.047	UG/L	608PEST	02/05/2008 15:20	
Heptachlor epoxide	ND		0.047	UG/L	608PEST	02/05/2008 15:20	
hopeached apoxide	ND		0.047	00/ L	COOFEST	02/05/2008 15:20	

Date: 02/11/2008 Time: 11:35:36

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC Spills - Gastown WWTP

13/17 Page:

Rept: AN1178

Sample ID: POST-CARBON Lab Sample ID: A8097501

Date Collected: 01/29/2008 Time Collected: 11:35

Date Received: 01/29/2008 Project No: NY5A946109 Client No: L10190

		Detection	Date/Time									
Parameter	<u>Result</u>	lag <u>Limit</u>	Units	Method	Analyzed	<u>Analyst</u>						
Metals Analysis												
Arsenic - Total	ND	10	UG/L	200.7	01/30/2008 22:21	AH						
Iron - Total	288	50.0	UG/L	200.7	01/30/2008 22:21	АН						
Manganese - Total	426	3.0	UG/L	200.7	01/30/2008 22:21	AH						
Zinc - Total	14.8	10	UG/L	200.7	01/30/2008 22:21	АН						
Wet Chemistry Analysis												
Biochemical Oxygen Demand	ND	2.0	MG/L	405.1	01/29/2008 18:00	TL						
Cyanide - Total	0.49	0.010	MG/L	335.2	02/05/2008 14:00	ERK						
Oil & Grease	ND	5.0	MG/L	1664	02/04/2008 14:00	RMM						
рH	7.8	0.50	S.U.	150.1	01/29/2008 18:31	WM						
Total Dissolved Solids	928	10	MG/L	160.1	01/29/2008 16:00	WM						
Total Recoverable Phenolics	ND	0.0050	MG/L	420.2	01/30/2008 21:28	RLG						
Total Suspended Solids	ND	4.0	MG/L	160.2	01/30/2008 21:00	WM						

NYSDEC NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC Spills - Gastown WWTP

14/17 Page: 4 Rept: AN1178

Sample ID: PRE-CARBON Lab Sample ID: A8097502 Date Collected: 01/29/2008 Time Collected: 10:55 Date Received: 01/29/2008 Project No: NY5A946109 Client No: L10190

			Detection			Date/Time		
Parameter	Result	<u>Flag</u>	Limit	Units	Method	Analyzed	Analyst	
NYSDEC - SW8463 8260/5 ML								
1,1,1-Trichloroethane	ND		500	UG/L	8260	02/06/2008 18:15	TRB	
1,1,2,2-Tetrachloroethane	ND		500	ug/∟	8260	02/06/2008 18:15	TRB	
1,1,2-Trichloroethane	ND		500	υG/L	8260	02/06/2008 18:15	TRB	
1,1-Dichloroethane	ND		500	UG/L	8260	02/06/2008 18:15	TRB	
1,1-Dichloroethene	ND		500	UG/∟	8260	02/06/2008 18:15	TRB	
1,2-Dichloroethane	ND		500	UG/L	8260	02/06/2008 18:15	TRB	
1,2-Dichloroethene (Total)	ND		1000	UG/L	8260	02/06/2008 18:15	TRB	
1,2-Dichloropropane	ND		500	UG/L	8260	02/06/2008 18:15	TRB	
2-Butanone	ND		2500	UG/L	8260	02/06/2008 18:15	TRB	
2-Hexanone	ND		2500	UG/L	8260	02/06/2008 18:15		
4-Methyl-2-pentanone	ND		2500	UG/L	8260	02/06/2008 18:15		
Acetone	ND		2500	UG/L	8260	02/06/2008 18:15		
Benzene	5400		500	UG/L	8260	02/06/2008 18:15		
Bromodichloromethane	ND		500	UG/L	8260	02/06/2008 18:15		
Bromoform	ND		500	UG/L	8260	02/06/2008 18:15		
Bromomethane	ND		500	UG/L	8260	02/06/2008 18:15		
Carbon Disulfide	ND		500	UG/L	8260	02/06/2008 18:15		
Carbon Tetrachloride	ND		500	UG/L	8260	02/06/2008 18:15		
Chlorobenzene	ND		500	UG/L	8260	02/06/2008 18:15		
Chloroethane	ND		500	UG/L	8260	02/06/2008 18:15		
Chloroform	ND		500	UG/L	8260	02/06/2008 18:15		
Chloromethane	ND		500	UG/L	8260	02/06/2008 18:15	TRB	
cis-1,3-Dichloropropene	ND		500	UG/L	8260	02/06/2008 18:15		
Dibromochloromethane	ND		500	UG/L	8260	02/06/2008 18:15	TRB	
Ethylbenzene	290	J	500	UG/L	8260	02/06/2008 18:15		
Methylene chloride	110		500	UG/L	8260	02/06/2008 18:15		
·	130	J	500	UG/L	8260	02/06/2008 18:15		
Styrene		J		-				
Tetrachloroethene	ND		500	UG/L	8260	02/06/2008 18:15		
Total Valence	960		500	UG/L	8260	02/06/2008 18:15		
Total Xylenes	240	J	1500	UG/L	8260	02/06/2008 18:15		
trans-1,3-Dichloropropene	ND		500	UG/L	8260	02/06/2008 18:15	TRB	
Trichloroethene	ND		500	UG/L	8260	02/06/2008 18:15	TRB	
Vinyl acetate	ND		2500	UG/L	8260	02/06/2008 18:15	TRB	
Vinyl chloride	ND		500	υG/L	8260	02/06/2008 18:15	TRB	
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA								
1,2,4-Trimethylbenzene	ND		6.9	UG/L	8021	02/02/2008 16:43	LMW	
1,3,5-Trimethylbenzene	ND		5.9	UG/L	8021	02/02/2008 16:43	LMW	
Benzene	4300		4.7	UG/L	8021	02/02/2008 16:43		
Ethylbenzene	260		5.7	UG/L	8021	02/02/2008 16:43		
Isopropylbenzene	ND		5.4	UG/L	8021	02/02/2008 16:43		
m-Xylene	170	1	11	UG/L	8021	02/02/2008 16:43		
Methyl-t-Butyl Ether (MTBE)	ND		8.7	UG/L	8021	02/02/2008 16:43		
n-Butylk-enzene	ND		6.2	UG/L	8021	02/02/2008 16:43		
n-Propylbenzene	ND		5.7	UG/L	8021	02/02/2008 16:43	LMW	
o-Xylene	ND		5.4	UG/L	8021	02/02/2008 16:43	LMW	
p-Cymene	ND		5.9	UG/L	8021	02/02/2008 16:43	LMW	
p-Xylene	ND	1	11	UG/L	8021	02/02/2008 16:43	LMW	
E wy and	ITU	•	1.1	99) L	OOL I	02) 02) 2000 10:43	LMW	

Date: 02/11/2008 Time: 11:35:36

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT
NYSDEC Spills - Gastown WWTP

15/17 Page: 5 Rept: AN1178

Sample ID: PRE-CARBON
Lab Sample ID: A8097502
Date Collected: 01/29/2008

Time Collected: 10:55

Date Received: 01/29/2008 Project No: NY5A946109

Client No: L10190

			Detection			Date/Time	
Parameter	Result	Flag	Limit	<u>Units</u>	Me thod	Analyzed	Analyst
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA					•		
Toluene	840		7.1	UG/L	8021	02/02/2008 16:43	LMW
Total Xylenes	170		16	UG/L	8021	02/02/2008 16:43	LMW
Metals Analysis							
Calcium - Total	165000		500	UG/L	200.7	01/30/2008 22:38	AH
Iron - Total	607		50.0	UG/L	200.7	01/30/2008 22:38	AH
Magnesium - Total	77600		200	UG/L	200.7	01/30/2008 22:38	АН
Potassium - Total	4420		500	UG/L	200.7	01/31/2008 14:48	AH
Sodium - Total	75900		1000	UG/L	200.7	01/30/2008 22:38	АН
Wet Chemistry Analysis							
Chloride	137		2.5	MG/L	300.0	02/05/2008 08:56	AEG
Sulfate	182		10	MG/L	300.0	01/30/2008 12:41	AEG
Total Alkalinity	400		50.0	MG/L	310.2	01/30/2008 17:01	RLG

Chain of Custody Record



TAL-4142 (0907)																														
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City	State	Zip Code	Site	Contact				Lab	Cont	tact	_		-	T					lysis (Attach list if space is needed)											
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Turn Around Time Required 24 Hours 48 Hours 7 Days	N.	14 Days 🔲 21 Da	vs 🔲 C	Debor.					QC F	Requ	irem	ents	(Specil	fy)											<u> </u>				,	
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Chain of Custody Record



TAL-4142 (0907)																															
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City	State	Zip Code	Site Co	ntac	i i			Lat	Con	tact								A. mo	naly	alysis (Attach list if space is needed)											
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NYSDEC - GASTOW	JA C	÷		·													Ś	6						-			S-	ooial	Inotre	ationa/	
Contract/Purchase Order/Quote No.					٨	/atrix			7	Cont	taine erva	ers &	• \$ \$		Δ	Ň	SCUSS	OK.									Cor	nditio	ial Instructions/ tions of Receipt		
Sample I.D. No. and Description (Containers for each sample may be combined of		ine) Date	Time	ž.	Aqueous	Sec.		Unpres.		HN03	_		ZnAc/ NaOH		BOD	1	15	17.7													
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Possible Hazard Identification Non-Hazard	treitani	Poison B	Unknown			le Dispo		_ 	X 0	· ·					A 1			ш,		44	<u> </u>	(A fe	e ma	ay be an 1 r	asse	essed if	samp	les are	retaine	d	
Turn Around Time Required		**			<u> n:</u>	eturr re	CHE	<i>m</i> .						ecify)		uve r	or _	===		MOD	ins_	iong	er m	an i i	HOIR	(1)					—
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ANALYTICAL REPORT

Job#: <u>A08-2001</u>

Project#: NY5A946109

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

Task: NYSDEC Spills - Gastown WWIP

Mr. Glenn May NYSDEC - Region 9 270 Michigan Ave Buffalo, NY 14203

CC: Mr. Charles B. Guzzetta

TestAmerica Laboratories Inc.

Brian J. Fischer Project Manager

03/13/2008



TestAmerica Buffalo Current Certifications

As of 6/15/2007

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

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

SAMPLE SUMMARY

			SAMPI	LED	RECEIVI	\equiv D
LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE	TIME	DATE	TIME
A8200101	POST-CARBON	GM	02/28/2008	09:15	02/28/2008	11:16
A8200102	PRE-CARBON	GW	02/28/2008	09:15	02/28/2008	11:16

METHODS SUMMARY

Job#: <u>A08-2001</u>

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

PARAMETER	ANALYTICAL METHOD						
NYSDEC - SW8463 8260/5 ML	SW8463	8260					
METHOD 8021 - VOLATILE ORGANICS - STARS	SW8463	8021					
Calcium - Total Iron - Total	MCAWW MCAWW	200.7 200.7					
Magnesium - Total Potassium - Total	MCAWW MCAWW	•					
Sodium - Total	MCAWW						
Chloride Cyanide - Total pH Sulfate Total Alkalinity	MCAWW MCAWW SM20 MCAWW MCAWW	300.0					

References:

MCAWW	"Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Ma 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R 92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)	
SM20	'Standard Methods for the Examination of Water and Wastewater", 20t Edition.	h

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-2001

Project#: NY5A946109

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

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. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-2001

Sample Cooler(s) were received at the following temperature(s); $2.0~^{\circ}$ C All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Volatile Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Brian J. Fischer Project Manager

3-13-08

Date

Date: 03/13/2008 Time: 13:19:57 Dilution Log w/Code Information For Job A08-2001

7/12^{Page}:

Rept: AN1266R

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
PRE-CARBON	A8200102	Chloride	5.00	800
PRE-CARBON	A8200102	Sulfate	5.00	800
PRE-CARBON	A8200102	Total Alkalinity	7.00	800

Dilution Code Definition:

- 002 sample matrix effects
- 003 excessive foaming
- 004 high levels of non-target compounds
- 005 sample matrix resulted in method non-compliance for an Internal Standard
- 006 sample matrix resulted in method non-compliance for Surrogate
- 007 nature of the TCLP matrix
- 008 high concentration of target analyte(s)
- 009 sample turbidity
- 010 sample color
- 011 insufficient volume for lower dilution
- 012 sample viscosity
- 013 other



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U. Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit,
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

NYSDEC Spills - Gastown WWTP

9/12 Page: 1 Rept: AN1178

Sample ID: POST-CARBON Lab Sample ID: A8200101 Date Collected: 02/28/2008

Time Collected: 09:15

Date Received: 02/28/2008 Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	
Parameter	Result	Flag	<u>Lim</u> it _	<u>Units</u>	Method	Analyzed	Analys
NYSDEC - SW8463 8260/5 ML							
1,1,1-Trichloroethane	ND		5	UG/L	8260	03/12/2008 03:25	ND
1,1,2,2-Tetrachloroethane	ND		5	∪G/L	8260	03/12/2008 03:25	ND
1,1,2-Trichloroethane	ND		5	UG/L	8260	03/12/2008 03:25	ND
1,1-Dichloroethane	ND		5	UG/L	8260	03/12/2008 03:25	ND
1,1-Dichloroethene	ND		5	UG/L	8260	03/12/2008 03:25	ND
1,2-Dichloroethane	ND		5	∪G/L	8260	03/12/2008 03:25	ND
1,2-Dichloroethene (Total)	ND		10	UG/L	8260	03/12/2008 03:25	ND
1,2-Dichloropropane	ND		5	UG/L	8260	03/12/2008 03:25	ND
2-Butanone	ND		25	UG/L	8260	03/12/2008 03:25	ND
2-Hexanone	ND		25	UG/∟	8260	03/12/2008 03:25	ND
4-Methyl-2-pentanone	ND		25	UG/L	8260	03/12/2008 03:25	ND
Acetone	ND		25	UG/L	8260	03/12/2008 03:25	ND
Benzene	ND		5	UG/L	8260	03/12/2008 03:25	ND
Bromodichloromethane	ND		5	UG/L	8260	03/12/2008 03:25	ND
Bromoform	ND		5	UG/L	8260	03/12/2008 03:25	ND
Bromomethane	ND		5	UG/L	8260	03/12/2008 03:25	ND
Carbon Disulfide	ND		5	UG/L	8260	03/12/2008 03:25	ND
Carbon Tetrachloride	ND		5	UG/L	8260	03/12/2008 03:25	ND
Chlorobenzene	ND		5	UG/L	8260	03/12/2008 03:25	ND
Chloroethane	ND		5	UG/L	8260	03/12/2008 03:25	ND
Chloroform	ND		5	UG/L	8260	03/12/2008 03:25	ND
Chloromethane	ND		5	ug/L	8260	03/12/2008 03:25	ND
cis-1,3-Dichloropropene	ND		5	UG/L	8260	03/12/2008 03:25	ND
Dibromochloromethane	ND		5	UG/L	8260	03/12/2008 03:25	ND
Ethylbenzene	ND		5	UG/L	8260	03/12/2008 03:25	ND
Methylene chloride	ND		5	UG/L	8260	03/12/2008 03:25	ND
Styrene	ND		5	ug/L	8260	03/12/2008 03:25	ND
Tetrachloroethene	ND		5	ŲG/L	8260	03/12/2008 03:25	ND
Toluene	ND		5	UG/L	8260	03/12/2008 03:25	ND
Total Xylenes	ND		15	UG/L	8260	03/12/2008 03:25	ND
trans-1,3-Dichloropropene	ND		5	UG/L	8260	03/12/2008 03:25	ND
Trichloroethene	ND		5	UG/L	8260	03/12/2008 03:25	ND
Vinyl acetate	ND		25	UG/L	8260	03/12/2008 03:25	ND
Vinyl chloride	2	J	5	UG/L	8260	03/12/2008 03:25	ND
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
1,2,4-Trimethylbenzene	ND		0.20	UG/L	8021	03/05/2008 17:18	LMW
1,3,5-Trimethylbenzene	ND		0.20	UG/L	8021	03/05/2008 17:18	LMM
Benzene	ND		0.20	UG/L	8021	03/05/2008 17:18	LMM
Ethylbenzene	ND		0.20	UG/L	8021	03/05/2008 17:18	∟MW
Isopropylbenzene	ND		0.20	UG/L	8021	03/05/2008 17:18	LMM
m-Xylene	ND		0.40	UG/L	8021	03/05/2008 17:18	LMW
Methyl-t-Butyl Ether (MTBE)	ND		0.40	UG/L	8021	03/05/2008 17:18	∟M₩
n-Butylbenzene	ND		0.40	UG/L	8021	03/05/2008 17:18	LMW
n-Propy lbenzene	ND		0.20	UG/L	8021	03/05/2008 17:18	LMW
o-Xylene	ND		0.20	UG/L	8021	03/05/2008 17:18	LMW
p-Cymene	ND		0.40	UG/L	8021	03/05/2008 17:18	LMW
p-Xylene	ND		0.40	UG/L	8021	03/05/2008 17:18	LMW
•	ND			UG/L		03/05/2008 17:18	

Date: 03/13/2008 Time: 13:20:04

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

10/12 Page:

2 Rept: AN1178

NYSDEC Spills - Gastown WWTP

Sample ID: POST-CARBON 80

Date Received: 02/28/2008 Project No: NY5A946109

Client No: L10190

Lab	Sample ID:	A8200101
Date	Collected:	02/28/200
Time	Collected:	09:15

			Detection			Date/Time	
<u>Parameter</u>	Result	Flag	Limit	Units	<u>Me thod</u>	Analyzed	Analyst
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
Toluene	ND		0.20	UG/L	8021	03/05/2008 17:18	LMW
Total Xylenes	ND		0.60	UG/L	8021	03/05/2008 17:18	LMW
Metals Analysis							
Iron - Total	143		50.0	UG/L	200.7	03/03/2008 16:30	TWS
Wet Chemistry Analysis							
Cyanide - Total	0,34		0.010	MG/L	335.4	03/03/2008 11:13	ERK
рН	7.1		0	s.u.	4500-H+ B	02/29/2008 19:45	TL

Date: 03/13/2008 Time: 13:20:04

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC Spills - Gastown WWTP

Sample ID: PRE-CARBON Lab Sample ID: A8200102 Date Collected: 02/28/2008 Time Collected: 09:15

Date Received: 02/28/2008 Project No: NY5A946109

11/12 Page:

Rept: AN1178

Client No: L10190

		Detection	Date/Time						
Parameter	Result	lag <u>Li</u> mit	Units	Method	Analyzed	Analyst			
Metals Analysis									
Calcium - Total	166000	500	UG/L	200.7	03/03/2008 16:35	TWS			
Iron - Total	586	50.0	UG/L	200.7	03/03/2008 16:35	TWS			
Magnesium - Total	74400	200	UG/L	200.7	03/03/2008 16:35	TWS			
Potassium - Total	4460	500	UG/∟	200.7	03/03/2008 16:35	TWS			
Sodium - Total	76200	1000	UG/L	200.7	03/03/2008 16:35	TWS			
Wet Chemistry Analysis									
Chloride	140	2.5	MG/L	300.0	03/04/2008 15:37	AEG			
Sulfate	190	10	MG/∟	300.0	03/04/2008 15:37	AEG			
Total Alkalinity	546	70.0	MG/L	310.2	02/29/2008 17:20	RLG			

Chain of Custody Record



TAL-4142 (0907)																			_										
Client			Project	Mana	iger														,	7-28-08						Chain of Custody Number			
ART KOSKE															_								-0	<u>8</u>		388885			
Address			Telepho	one N	umber	(Area	Code	e)/Fax	Num	ber									Lá	ab Nu	ımbe	er				Pi	age [of _	1_
City	State	Zip Code	Site Co	ntact				Lab	Conta	ect				Т				Ana	alys	is (A	ttac	h lis	t if						
		}												-	- 6	1		mor	e sc	oaçe T	is r	eed	ed)	_					
Project Name and Location (State)		* · · · · · · · · · · · · · · · · · · ·	Carrier/	Wayl	oill Nur	nber									3														
MYSDEC - GASTOWA	L .														٤		- 1	l		প্	7						Specia	l Instruct	ons/
Contract/Purchase Order/Quote No.					Ма	trix						rs & tives			MCTR	3		4	J	5	- 1	1	マン				Conditi	ons of Re	ceipt
Sample I.D. No, and Description (Containers for each sample may be combined		line) Date	Time	Ąį	Aqueous	Soll		Unpres.	H2SO4	HNO3	HC.	NaOH	ZnAc/ NaOH		K	7	70	504	4	625	TC4	7.	+						
PRECARBON	t	Z-28-c8	9:15		×					X					×	×		_	_						_	<u> </u>		·	
Pre carbon	<u>ı_</u>	2-28-08	9:15		<u>×</u>	<u> </u>	_	×		_	_	_		\perp	_		×	×		_									
PLE CARBO	<u> </u>	S-26-08	9:15		×		_	×	4	\rightarrow	_	_		-	_			_	X.				_		_	-			
POST CART	30 <u>N</u>				X	_	-		-	\dashv	×	_		\dashv				_	_	×	×	_	<u> </u>		-			·	
POST CARB	0.1	হ-হ৪-০৪			<u> </u>		lacksquare	Х	_	_		_		_	_					!	_	X	_	-	_	-		·	
Post Carbo	4	2.28-68	9:15		×	\perp	<u> </u>			X	_			_	_	×								<u> </u>	_				
POST CARB	01	5-28-CE	9:15		×	-	-		_	_		Х		4				_					X	-	_	-		····	
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Possible Hazard Identification					ample			_		i		L	Ш			<u>. </u>	L	L		1	<u> </u>						ed if samples	are retained	
☐ Non-Hazard ☐ Flammable ☐ Ski	in Irritan	t 🔲 Poison B	Unknowi	η [Rete	ım To	Clier	ıt '	V D			<u> </u>				ive f	or _			Mon	ths	lon	ger t	han	1 mo	onth)			<u> </u>
Turn Around Time Required	-		-						QC I	Requ	uiren	nents	s (Spi	ecity)															
	X	14 Days 🔲 21 Day		ner					-																	—	Date	Time	
1. Relinquished by			Date	B-	08	Time []	:/(6	1. R	ecei	vea . 2	<u> </u>	1/		2	2							:				2/28/5	8 11	16
2. Relinquished By			Date			Time			2. B	ecei	ved .	Вý				:										1	Date -	Time	
3. Relinquished By			Date		 	Time			3. R	ecei	ved	Ву			_			`\						· _			Date	Time	·
			l						<u>L</u> .					/				\rightarrow										!	
Comments															? 	- 6)	,							·		
DISTRIBUTION: WHITE - Returned to Client	with Re	oort; CANARY - Stays	with the San	nple:	PINK -	Field	Сору								_		_												

2/12



ANALYTICAL REPORT

Job#: <u>A08-3176</u>

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

Task: NYSDEC - Gastown WWIP: Spill# 9213441

Mr. Glenn May NYSDEC - Region 9 270 Michigan Ave Buffalo, NY 14203

CC: Mr. Charles B. Guzzetta

TestAmerica Laboratories Inc.

Brian J. Fischer Project Manager

04/11/2008



TestAmerica Buffalo Current Certifications

As of 6/15/2007

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

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

SAMPLE SUMMARY

			SAMPLED		RECEIVED	
LAB SAMPLE ID	CLIENT SAMPLE ID_	<u>MATRIX</u>	DATE	TIME	DATE	TIME
A8317601	POST-CARBON				03/31/2008	
A8317602	PRE-CARBON	GW	03/31/2008	09:35	03/31/2008	10:30

METHODS SUMMARY

Job#: <u>A08-3176</u>

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

PARAMETER	ANALYTICAL METHOD		
NYSDEC - SW8463 8260/5 ML	SW8463 8260		
METHOD 8021 - VOLATILE ORGANICS - STARS	SW8463 8021		
Calcium - Total Iron - Total Magnesium - Total Potassium - Total Sodium - Total	MCAWW 200.7 MCAWW 200.7 MCAWW 200.7 MCAWW 200.7 MCAWW 200.7		
Chloride Cyanide - Total pH Sulfate Total Alkalinity	MCAWW 300.0 MCAWW 335.4 SM20 4500-H+ B MCAWW 300.0 MCAWW 310.2		

References:

MCAWW	"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar
	1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-
	92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM20 "Standard Methods for the Examination of Water and Wastewater", 20th Edition.

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-3176

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

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. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-3176

Sample Cooler(s) were received at the following temperature(s); 2.0 $^{\circ}$ C All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Volatile Data_

No deviations from protocol were encountered during the analytical procedures.

<u>Metals Data</u>

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Brian J. Fischer Project Manager

4-11-08

Date

Date: 04/11/2008 Time: 10:01:55

Dilution Log w/Code Information For Job A08-3176

5.00 008

Rept: AN1266R

Parameter (Inorganic)/Method (Organic) Dilution Code Client Sample ID <u>Lab Sample ID</u> Total Alkalinity PRE-CARBON A8317602

Dilution Code Definition:

002 - sample matrix effects

003 - excessive foaming

004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

Q10 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U. Indicates element was analyzed for, but not detected. Report with the detection limit value.

- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441

Date Received: 03/31/2008

Rept: AN1178

Sample ID: POST-CARBON
Lab Sample ID: A8317601
Date Collected: 03/31/2008
Time Collected: 09:35

Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	_
Parameter	Result	Flag	Limiț	Units	Method	Analyzed	Analys
NYSDEC - SW8463 8260/5 ML							
1,1,1-Trichloroethane	ND		5	UG/L	8260	04/08/2008 19:1	Q TRB
1,1,2,2-Tetrachloroethane	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
1,1,2-Trichloroethane	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
1,1-Dichloroethane	ND		5	UG/L	8260	04/08/2008 19:1	0 TRB
1,1-Dichloroethene	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
1,2-Dichloroethane	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
1,2-Dichloroethene (Total)	ND		10	UG/L	8260	04/08/2008 19:1	O TRB
1,2-Dichloropropane	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
2-Bu tanone	ND		25	UG/∟	8260	04/08/2008 19:1	O TRB
2-Hexanone	ND		25	UG/∟	8260	04/08/2008 19:1	O TRB
4-Methyl-2-pentanone	ND		25	UG/L	8260	04/08/2008 19:1	O TRB
Acetone	ND		25	UG/L	8260	04/08/2008 19:1	O TRB
Benzene	ND		5	UG/∟	8260	04/08/2008 19:1	O TRB
Bromodichloromethane	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
Bromoform	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
Bromomethane	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
Carbon Disulfide	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
Carbon Tetrachloride	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
Chlorobenzene	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
Chloroethane	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
Chloroform	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
Chloromethane	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
cis-1,3-Dichloropropene	ND		5	UG/L	8260	04/08/2008 19:1	O TRB
Dibromochloromethane	ND		5	UG/L	8260	04/08/2008 19:1	
Ethylbenzene	ND		5	UG/L	8260	04/08/2008 19:1	
Methylene chloride	ND		5	UG/L	8260	04/08/2008 19:1	
Styrene	ND		5	UG/L	8260	04/08/2008 19:1	
Tetrachloroethene	ND		5	UG/L	8260	04/08/2008 19:1	
Toluene	ND		5	UG/L	8260	04/08/2008 19:1	
Total Xylenes	ND		15	UG/L	8260	04/08/2008 19:1	
trans-1,3-Dichloropropene	ND		5	UG/L	8260	04/08/2008 19:1	
Trichloroethene	ND		5	UG/L	8260	04/08/2008 19:1	
Vinyl acetate	ND		25	∪G/L	8260	04/08/2008 19:1	
Vinyl chloride	4	j	5	UG/L	8260	04/08/2008 19:1	
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
1,2,4-Trimethylbenzene	ND		0.20	UG/L	8021	04/05/2008 13:2	
1,3,5-Trimethylbenzene	ND		0.20	UG/L	8021	04/05/2008 13:2	9 LMW
Benzene	ND		0.20	UG/L	8021	04/05/2008 13:2	9 LMW
Ethylbenzene	ND		0.20	UG/L	8021	04/05/2008 13:2	9 LMW
Isopropylbenzene	ND		0.20	UG/L	8021	04/05/2008 13:2	9 LMW
m-Xylene	ND		0.40	UG/L	8021	04/05/2008 13:2	9 LMW
Methyl-t-Butyl Ether (MTBE)	0.72		0.40	UG/L	8021	04/05/2008 13:2	9 LMW
n-Butylbenzene	ND		0.40	UG/L	8021	04/05/2008 13:2	
n-Propylbenzene	ND		0.20	UG/L	8021	04/05/2008 13:2	9 LMW
o-Xylene	ND		0.20	UG/L	8021	04/05/2008 13:2	
p-Cymene	ND		0.40	UG/L	8021	04/05/2008 13:2	9 LMW
p-Xylene	ND		0.40	UG/L	8021	04/05/2008 13:2	9 LMW
sec-Butylbenzene	ND		0.40	UG/L	8021	04/05/2008 13:2	9 ∟MW

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441 10/12 Page:

Rept: AN1178

Sample ID: POST-CARBON

Lab Sample ID: A8317601
Date Collected: O3/31/2008
Time Collected: O9:35

Date Received: 03/31/2008

Project No: NY5A946109 Client No: L10190

			Detection			Date/Ti	ne	
Parameter	Result	Flag	Limit	Units	Method	Analyz	ed	<u>Analyst</u>
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA								
Toluene	ND		0.20	UG/L	8021	04/05/2008	13:29	LMW
Total Xylenes	ND		0.60	UG/L	8021	04/05/2008	13:29	∟MW
Metals Analysis								
Iron - Total	85.3		50.0	UG/L	200.7	04/01/2008	19:45	АН
Wet Chemistry Analysis								
Cyanide - Total	0.21		0.010	MG/L	335.4	04/08/2008	12:39	ERK
На	7.7		0.50	s.v.	4500-H+ B	04/01/2008	10:36	KD

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441

11/12 Page:

Rept: AN1178

Sample ID: PRE-CARBON Lab Sample ID: A8317602

Date Collected: 03/31/2008 Time Collected: 09:35

Date Received: 03/31/2008

Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	
Parameter	Result	Flag	Limit	Units	Method	Analyzed	Analyst
Metals Analysis							
Calcium - Total	119000		500	UG/L	200.7	04/01/2008 19:50	АН
Iron - Total	254		50.0	UG/L	200.7	04/01/2008 19:50	АН
Magnesium - Total	44800		200	UG/L	200.7	04/01/2008 19:50	АН
Potassium - Total	4070		500	UG/L	200.7	04/01/2008 19:50	AH
Sodium - Total	54500		1000	UG/L	200.7	04/01/2008 19:50	АН
Wet Chemistry Analysis							
Chloride	2.3		0.50	MG/L	300.0	04/07/2008 14:45	AEG
Sulfate	20.2		2.0	MG/L	300.0	04/07/2008 14:45	AEG
Total Alkalinity	401		50.0	MG/L	310.2	04/05/2008 16:06	RLG

Chain of Custody Record



TAL-4142 (0907)																													
Client			Proje	ct Ma	nage	,							-				-	T	Date		_			 Chai	n of Cr	istody l	Number		
ART KOSKR			1																	3	7 i	_^	ن .		3 Q	3 5	66		
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Sample I.D. No. and Description (Containers for each sample may be combined or	one line)	Date	Time	Ą	Aqueous	Sed.	Soil .	Unpres.	H2SO4	HNO3	HC	VaOH	ZnAc/ NaOH		֡֞֞֞֜֞֜֞֜֞֜֞֜֞֜֞֜֞֜֞֜֞֜֞֜֞֜֞֜֞֜֞֜֞֜֞֜֞֜	٦,	7 4	TACK	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	7	U.	70							
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POST CARBON	4	3-31-08	9:35	_	ኦ						છ								X	X									_
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2/12



ANALYTICAL REPORT

Job#: A08-4623

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

Task: NYSDEC - Gastown WWIP: Spill# 9213441

Mr. Glenn May NYSDEC - Region 9 270 Michigan Ave Buffalo, NY 14203

CC: Mr. Charles B. Guzzetta

TestAmerica Laboratories Inc.

Brian J Fischer Project Manager

05/15/2008



TestAmerica Buffalo Current Certifications

As of 6/15/2007

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

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

SAMPLE SUMMARY

			SAMPI	ÆD	RECEIVI	3 D
LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE	TIME	DATE	TIME
A8462301	POST-CARBON	GW	04/28/2008	10:05	04/28/2008	11:05
A8462302	PRE-CARBON	GW	04/28/2008	09:55	04/28/2008	11:05

METHODS SUMMARY

Job#: <u>A08-4623</u>

Project#: NY5A946109

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

PARAMETER	ANALYTICAL METHOD
NYSDEC - SW8463 8260/5 ML	SW8463 8260
METHOD 8021 - VOLATILE ORGANICS - STARS	SW8463 8021
NYSDEC - METHOD 8270 Gastown	SW8463 8270
GASTOWN - METHOD 608 - P.P. PESTICIDES	CFR136 608PEST
Arsenic - Total Calcium - Total Iron - Total Magnesium - Total Manganese - Total Potassium - Total Sodium - Total Zinc - Total	MCAWW 200.7 MCAWW 200.7 MCAWW 200.7 MCAWW 200.7 MCAWW 200.7 MCAWW 200.7 MCAWW 200.7 MCAWW 200.7
Biochemical Oxygen Demand Chloride Cyanide - Total Oil & Grease pH Sulfate Sulfate Total Alkalinity Total Dissolved Solids Total Recoverable Phenolics Total Suspended Solids	SM20 5210B MCAWW 300.0 MCAWW 335.4 MCAWW 1664 SM20 4500-H+ B MCAWW 300.0 MCAWW 375.4 MCAWW 310.2 SM20 2540C MCAWW 420.4 SM20 2540D

References:

CFR136

Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, and Appendix A-C; 40 CFR Part 136, USEPA Office of Water.

MCAWW

"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM20 "Standard Methods for the Examination of Water and Wastewater", 20th Edition.

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: <u>A08-4623</u>

Project#: NY5A946109

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

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. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-4623

Sample Cooler(s) were received at the following temperature(s); $2.0~^{\circ}$ C All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Volatile Data_

For method 8021, Methyl-t-Butyl Ether exhibited positive bias and a % difference result greater than 15% in the continuing calibration verification shot on 5/1/08. No corrective action was taken, the field sample referencing this standard is non-detect for this analyte.

GC/MS Semivolatile Data

The spike recovery for Pentachlorophenol was above laboratory quality control limits in the Matrix Spike Blank A8B1424004. Since the result was biased high and the analyte was not detected in the sample, no corrective action was performed.

The analyte Indene was analyzed qualitatively using mass spectral searches to determine if the analyte is present. This analyte was not detected in the sample.

GC Extractable Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

Due to an extreme backlog, sample PRE-CARBON was analyzed for Sulfate by method D-519-90 rather than method 300.0.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Brian J. Fischer Project Manager

3-20-03

Date

Date: 05/15/2008 Time: 11:06:08 Dilution Log w/Code Information For Job A08-4623 8/19

Page:

Rept: AN1266R

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	<u>Dilution</u>	<u>Code</u>
PRE-CARBON	A8462302	8021	20.00	800
PRE-CARBON	A8462302	8260	10.00	800
PRE-CARBON	A8462302	Sulfate	5.00	800
PRE-CARBON	A8462302	Total Alkalinity	5.00	800
PRE-CARBON	A8462302DL	8021	50.00	800
PRE-CARBON	A8462302DL	8260	50.00	800

Dilution Code Definition:

002 - sample matrix effects

003 - excessive foaming

004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other

Date: 05/15/2008

Requested Reporting Limits < Lab PQL

Page:

Rept: AN1520

Time: 11:06:10

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to lab MDL. It must be noted that results reported below lab standard quantitation limit (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections

below the laboratory's PQL.

<u>Method</u>	Parameter	<u>Unit</u>	Client RL	Lab POL
420.4	Total Recoverable Phenolics	MG/L	0.0050	0.010



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441 11/19

Page: 1 Rept: AN1178

Sample ID: POST-CARBON
Lab Sample ID: A8462301
Date Collected: 04/28/2008
Time Collected: 10:05

Date Received: 04/28/2008 Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	
Parameter	Result	Flag	Limit	Units	Method	Analyzed	Analyst
NYSDEC - SW8463 8260/5 ML							
1,1,1-Trichloroethane	ND		5	UG/L	8260	05/08/2008 17:10	LH
1,1,2,2-Tetrachloroethane	ND		5	UG/L	8260	05/08/2008 17:10	LH
1,1,2-Trichloroethane	ND		5	UG/L	8260	05/08/2008 17:10	LH
1,1-Dichloroethane	ND		5	UG/L	8260	05/08/2008 17:10	LH
1,1-Dichloroethene	ND		5	UG/L	8260	05/08/2008 17:10	LH
1,2-Dichloroethane	ND		5	UG/L	8260	05/08/2008 17:10	LH
1,2-Dichloroethene (Total)	ND		10	UG/L	8260	05/08/2008 17:10	LH
1,2-Dichloropropane	ND		5	UG/L	8260	05/08/2008 17:10	LH
2-Butanone	ND		25	UG/L	8260	05/08/2008 17:10	LH
2-Hexanone	ND		25	UG/L	8260	05/08/2008 17:10	LH
4-Methyl-2-pentanone	ND		25	UG/L	8260	05/08/2008 17:10	LH
Acetone	ND		25	UG/L	8260	05/08/2008 17:10	LH
Benzene	ND		5	UG/L	8260	05/08/2008 17:10	LH
Bromodichloromethane	ND		5	UG/L	8260	05/08/2008 17:10	LH
Bromoform	ND		5	UG/L	8260	05/08/2008 17:10	LH
Bromome thane	ND		5	UG/∟	8260	05/08/2008 17:10	LH
Carbon Disulfide	ND		5	υG/L	8260	05/08/2008 17:10	LH
Carbon Tetrachloride	ND		5	UG/L	8260	05/08/2008 17:10	LH
Chlorobenzene	ND		5	UG/L	8260	05/08/2008 17:10	LH
Chloroethane	ND		5	UG/L	8260	05/08/2008 17:10	LH
Chloroform	ND		5	UG/∟	8260	05/08/2008 17:10	LH
Chloromethane	ND		5	UG/L	8260	05/08/2008 17:10	LH
cis-1,3-Dichloropropene	ND		5	UG/L	8260	05/08/2008 17:10	LH
Dibromochloromethane	ND		5	UG/L	8260	05/08/2008 17:10	LH
Ethylbenzene	ND		5	UG/L	8260	05/08/2008 17:10	LH
Methylene chloride	ND		5	UG/L	8260	05/08/2008 17:10	LH
Styrene	ND		5	UG/L	8260	05/08/2008 17:10	LH
Tetrachloroethene	ND		5	UG/L	8260	05/08/2008 17:10	LH
Toluene	ND		5	UG/L	8260	05/08/2008 17:10	LH
Total Xylenes	ND		15	UG/L	8260	05/08/2008 17:10	LH
trans-1,3-Dichloropropene	ND		5	UG/L	8260	05/08/2008 17:10	
Trichloroethene	ND		5	UG/L	8260	05/08/2008 17:10	
Vinyl acetate	ND		25	UG/L	8260	05/08/2008 17:10	LH
Vinyl chloride	3	J	5	UG/L	8260	05/08/2008 17:10	LH
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
1,2,4-Trimethylbenzene	ND		0.20	UG/L	8021	04/29/2008 18:31	
1,3,5-Trimethylbenzene	ND		0.20	UG/L	8021	04/29/2008 18:31	∟M₩
Benzene	ND		0.20	UG/L	8021	04/29/2008 18:31	
Ethylbenzene	ND		0.20	UG/∟	8021	04/29/2008 18:31	LM₩
Isopropylbenzene	ND		0.20	UG/L	8021	04/29/2008 18:31	
m-Xylene	ND		0.40	UG/L	8021	04/29/2008 18:31	LMW
Methyl-t-Butyl Ether (MTBE)	1.0		0.40	UG/L	8021	04/29/2008 18:31	
n-Butylbenzene	ND		0.40	UG/L	8021	04/29/2008 18:31	
n-Propylbenzene	ND		0.20	UG/L	8021	04/29/2008 18:31	LMW
o-Xylene	ND		0.20	UG/L	8021	04/29/2008 18:31	LMW
p-Cymene	ND		0.40	UG/L	8021	04/29/2008 18:31	LMW
p-Xylene	ND		0.40	UG/L	8021	04/29/2008 18:31	LMM
sec-Butylbenzene	ND		0.40	UG/L	8021	04/29/2008 18:31	LMW

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441

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Sample ID: POST-CARBON Lab Sample ID: A8462301 Date Collected: 04/28/2008 Time Collected: 10:05 Date Received: 04/28/2008 Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	-
Parameter	Result	Flag	Limit	Units	Method	Analyzed	Analys
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
Toluene	ND		0.20	UG/L	8021	04/29/2008 18:31	
Total Xylenes	ND		0.60	UG/L	8021	04/29/2008 18:31	LMW
NYSDEC - GASTOWN WWTP LIST/8270 - W							
2-Methylnaphthalene	ND		9.4	ug/∟	8270	04/30/2008 11:38	B MD
Acenaphthene	ND		9.4	UG/L	8270	04/30/2008 11:38	MD.
Acenaphthylene	ND		9.4	UG/L	8270	04/30/2008 11:38	3 MD
Anthracene	ND		9.4	υG/L	8270	04/30/2008 11:38	B MD
Benzo(a)anthracene	ND		9.4	UG/L	8270	04/30/2008 11:38	MD 8
Benzo(a)pyrene	ND		9.4	UG/L	8270	04/30/2008 11:38	B MD
Benzo(b)fluoranthene	ND		9.4	UG/L	8270	04/30/2008 11:38	3 MD
Benzo(ghi)perylene	ND		9.4	UG/L	8270	04/30/2008 11:38	B MD
Benzo(k)fluoranthene	ND		9.4	UG/L	8270	04/30/2008 11:38	B MD
Biphenyl	ND		9.4	UG/∟	8270	04/30/2008 11:38	3 MD
Bis(2-ethylhexyl) phthalate	ND		9.4	UG/L	8270	04/30/2008 11:38	B MD
Carbazole	ND		9.4	UG/L	8270	04/30/2008 11:38	MD.
Chrysene	ND		9.4	UG/L	8270	04/30/2008 11:38	MD
Dibenzo(a,h)anthracene	ND		9.4	UG/L	8270	04/30/2008 11:38	MD MD
Dibenzofuran	ND		9.4	UG/L	8270	04/30/2008 11:38	MD.
Fluoranthene	ND		9.4	UG/L	8270	04/30/2008 11:38	MD.
Fluorene	ND		9.4	UG/L	8270	04/30/2008 11:38	MD.
Indene (TIC)	ND		9.4	UG/L	8270	04/30/2008 11:38	MD
Indeno(1,2,3-cd)pyrene	ND		9.4	UG/∟	8270	04/30/2008 11:38	
Naphthalene	ND		9.4	UG/L	8270	04/30/2008 11:38	
Pentachlorophenol	ND		47	UG/L	8270	04/30/2008 11:38	
Phenanthrene	ND		9.4	UG/L	8270	04/30/2008 11:38	
Phenol	ND		47	UG/L	8270	04/30/2008 11:38	
Pyrene	ND		9.4	UG/L	8270	04/30/2008 11:38	MD
GASTOWN - AQUEOUS-CFR136 608 - P.P. PESTICIDE							
4,4'-DDD	ND		0.047	UG/L	608PEST	05/03/2008 00:11	тсн
4,4'-DDE	ND		0,047	ue/∟	608PEST	05/03/2008 00:11	TCH
4,4'-DDT	ND		0.047	UG/L	608PEST	05/03/2008 00:11	тсн
Aldrin	ND		0.047	UG/L	608PEST	05/03/2008 00:11	тсн
a lpha-BHC	ND		0.047	UG/L	608PEST	05/03/2008 00:11	тсн
beta-BHC	ND		0.047	UG/L	608PEST	05/03/2008 00:11	тсн
Chlordane	ND		0.47	UG/L	608PEST	05/03/2008 00:11	тсн
delta-BHC	ND		0.047	UG/L	608PEST	05/03/2008 00:11	тсн
Dieldrin	ND		0.047	UG/L	608PEST	05/03/2008 00:11	
Endosulfan I	ND		0.047	UG/L	608PEST	05/03/2008 00:11	
Endosulfan II	ND		0.047	UG/L	608PEST	05/03/2008 00:11	
Endosulfan Sulfate	ND		0.047	UG/L	608PEST	05/03/2008 00:11	
Endrin	ND		0.047	υG/L	608PEST	05/03/2008 00:11	
Endrin aldehyde	ND		0.047	UG/L	608PEST	05/03/2008 00:11	
gamma-BHC (Lindane)	ND		0.047	UG/L	608PEST	05/03/2008 00:11	
Heptachlor	ND		0.047	UG/L	608PEST	05/03/2008 00:11	
Heptachlor epoxide	ND		0.047	UG/L	608PEST	05/03/2008 00:11	
Toxaphene	ND		0.94	UG/L	608PEST	05/03/2008 00:11	

Date: 05/15/2008 Time: 11:06:20

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441 13/19

Page: 3 Rept: AN1178

Sample ID: POST-CARBON Lab Sample ID: A8462301

Date Collected: 04/28/2008 Time Collected: 10:05 Date Received: 04/28/2008 Project No: NY5A946109 Client No: L10190

		Detection			Date/Tim	e	
Parameter	Result Flag	<u>Limit</u>	Units	Method	Analyze	d	Analyst
Metals Analysis							
Arsenic - Total	ND	10	UG/L	200.7	04/29/2008	14:01	AH
Iron - Total	160	50.0	UG/∟	200.7	04/29/2008	14:01	AH
Manganese - Total	270	3.0	UG/L	200.7	04/29/2008	14:01	AH
Zinc - Total	11.2	10	UG/L	200.7	04/29/2008	14:01	АН
Wet Chemistry Analysis							
Biochemical Oxygen Demand	ND	2.0	MG/L	5210B	04/29/2008	15:45	TL
Cyanide - Total	0.33	0.010	MG/L	335.4	05/01/2008	08:31	ERK
Oil & Grease	ND	5.0	MG/L	1664	05/01/2008	10:30	RMM
рН	7.5	0.50	s.u.	4500-H+ B	04/29/2008	21:52	WM
Total Dissolved Solids	746	10	MG/L	2540c	04/30/2008	11:00	JM
Total Recoverable Phenolics	ND	0.0050	MG/L	420.4	05/07/2008	23:22	RLG
Total Suspended Solids	ND	4.0	MG/L	2540D	04/30/2008	18:00	WM

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441

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Page: 4 Rept: AN1178

Sample ID: PRE-CARBON
Lab Sample ID: A8462302
Date Collected: 04/28/2008
Time Collected: 09:55

Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	-
Parameter	Result	Flag	Limit	Units	Me thod	Analyzed	Analyst
NYSDEC - SW8463 8260/5 ML							
1,1,1-Trichloroethane	ND		50	UG/L	8260	05/09/2008 07:06	ND
1,1,2,2-Tetrachloroethane	ND		50	UG/L	8260	05/09/2008 07:06	ND
1,1,2-Trichloroethane	ND		50	UG/L	8260	05/09/2008 07:06	ND
1,1-Dichloroethane	ND		50	UG/L	8260	05/09/2008 07:06	ND
1,1-Dichloroethene	ND		50	UG/L	8260	05/09/2008 07:06	ND
1,2-Dichloroethane	ND		50	UG/L	8260	05/09/2008 07:06	ND
1,2-Dichloroethene (Total)	ND		100	UG/L	8260	05/09/2008 07:06	
1,2-Dichloropropane	ND		50	UG/L	8260	05/09/2008 07:06	
2-Butanone	ND		250	UG/L	8260	05/09/2008 07:06	
2-Hexanone	ND		250	UG/L	8260	05/09/2008 07:06	
4-Methyl-2-pentanone	ND		250	UG/L	8260	05/09/2008 07:06	
Acetone	ND		250	UG/∟	8260	05/09/2008 07:06	
Benzene	2000	Ε	50	UG/L	8260	05/09/2008 07:06	
Bromodichloromethane	ND		50	UG/L	8260	05/09/2008 07:06	
Bromoform	ND		50	UG/L	8260	05/09/2008 07:06	
Bromomethane	ND		50	UG/L	8260	05/09/2008 07:06	
Carbon Disulfide	ND		50	UG/L	8260	05/09/2008 07:06	
Carbon Tetrachloride	ND		50	UG/L	8260	05/09/2008 07:06	
Chlorobenzene	ND		50	UG/L	8260	05/09/2008 07:06	
Chloroethane	ND		50	UG/L	8260	05/09/2008 07:06	
Chloroform	ND		50	UG/L	8260	05/09/2008 07:06	
Chloromethane	ND		50	UG/L	8260	05/09/2008 07:06	
cis-1,3-Dichloropropene	ND		50	UG/L	8260	05/09/2008 07:06	
Dibromochloromethane	ND		50	UG/L	8260	05/09/2008 07:06	
Ethylbenzene	120		50	UG/L	8260	05/09/2008 07:06	
Methylene chloride	ND		50	UG/L	8260	05/09/2008 07:06	
Styrene	68		50	UG/L	8260	05/09/2008 07:06	
Tetrachloroethene	ND		50	UG/L	8260	05/09/2008 07:06	
Toluene	380		50	UG/L	8260	05/09/2008 07:06	
Total Xylenes	130	J	150	UG/L	8260	05/09/2008 07:06	
trans-1,3-Dichloropropene	ND	•	50	UG/L	8260	05/09/2008 07:06	
Trichloroethene	ND		50	UG/L	8260	05/09/2008 07:06	
Vinyl acetate	ND		250	UG/L	8260	05/09/2008 07:06	ND
Vinyl chloride	ND		50	UG/L	8260	05/09/2008 07:06	
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
1,2,4-Trimethylbenzene	10		0.69	UG/L	8021	04/30/2008 13:55	LMW
1,3,5-Trimethylbenzene	ND		0.59	UG/L	8021	04/30/2008 13:55	
Benzene	1600	E	0.47	UG/L	8021	04/30/2008 13:55	
Ethylbenzene	100		0.57	UG/L	8021	04/30/2008 13:55	
Isopropylbenzene	ND		0.54	UG/L	8021	04/30/2008 13:55	
m-Xylene	79	1	1.1	∪G/L	8021	04/30/2008 13:55	
Methyl-t-Butyl Ether (MTBE)	ND		0.87	UG/L	8021	04/30/2008 13:55	
n-Butylbenzene	ND		0.62	UG/L	8021	04/30/2008 13:55	
n-Propy lbenzene	ND		0.57	UG/L	8021	04/30/2008 13:55	LMW
o-Xylene	130		0.54	UG/L	8021	04/30/2008 13:55	LMW
	ND		0.59	UG/L	8021	04/30/2008 13:55	LMW
p-Cymene	NU		0.07	V 0, L	OULI	04) 20) 2000 12:33	
p-Cymene p-Xylene	ND ND	1	1.1	UG/L	8021	04/30/2008 13:55	LMW

Date: 05/15/2008 Time: 11:06:20

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441 15/19 Page:

Rept: AN1178

Sample ID: PRE-CARBON
Lab Sample ID: A8462302
Date Collected: 04/28/2008

Time Collected: 09:55

Date Received: 04/28/2008 Project No: NY5A946109 Client No: L10190

			Detection			Date/Time-	<u> </u>
Parameter	Result	Flag	Limit	Units	Method	Analyzed	Analyst
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
Toluene	330		0.71	UG/L	8021	04/30/2008 13	:55 LMW
Total Xylenes	210		1.6	UG/L	8021	04/30/2008 13	:55 LMW
Metals Analysis							
Calcium - Total	121000		500	UG/L	200.7	04/29/2008 14	:06 AH
Iron - Total	712		50.0	UG/L	200.7	04/29/2008 14	:06 AH
Magnesium - Total	52500		200	UG/L	200.7	04/29/2008 14	:06 AH
Potassium - Total	3440		500	UG/L	200.7	04/29/2008 14	:06 AH
Sodium - Total	46900		1000	ne\r	200.7	04/29/2008 14	:06 AH
Wet Chemistry Analysis							
Chloride	89.1		0.50	MG/L	300.0	05/02/2008 11	53 RJP
Sulfate	153		10	MG/L	375.4	05/13/2008 13	39 LRM
Total Alkalinity	230		50.0	MG/L	310.2	05/01/2008 21	:57 RLG

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441

16/19

Page: 6 Rept: AN1178

Sample ID: PRE-CARBON
Lab Sample ID: A8462302DL
Date Collected: 04/28/2008
Time Collected: 09:55

Date Received: 04/28/2008 Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	-
Parameter	Result	<u>Flag</u>	Limit	Units	Method	Analyzed	Analys
NYSDEC - SW8463 8260/5 ML							
1,1,1-Trichloroethane	ND		250	UG/L	8260	05/09/2008 12:44	LH LH
1,1,2,2-Tetrachloroethane	ND		250	UG/L	8260	05/09/2008 12:44	+ LH
1,1,2-Trichloroethane	ND		250	υG/L	8260	05/09/2008 12:44	LH
1,1-Dichloroethane	ND		250	UG/∟	8260	05/09/2008 12:44	LH LH
1,1-Dichloroethene	ND		250	UG/L	8260	05/09/2008 12:44	LH
1,2-Dichloroethane	ND		250	ue/∟	8260	05/09/2008 12:44	LH LH
1,2-Dichloroethene (Total)	ND		500	UG/L	8260	05/09/2008 12:44	LH LH
1,2-Dichloropropane	ND		250	UG/∟	8260	05/09/2008 12:44	LH LH
2-Butanone	ND		1200	∪G/L	8260	05/09/2008 12:44	LH
2-Hexanone	ND		1200	UG/∟	8260	05/09/2008 12:44	LH LH
4-Methyl-2-pentanone	ND		1200	υG/L	8260	05/09/2008 12:44	LH
Acetone	ND		1200	UG/∟	8260	05/09/2008 12:44	LH
Benzene	2100	D	250	UG/L	8260	05/09/2008 12:44	LH LH
Bromodichloromethane	ND		250	UG/L	8260	05/09/2008 12:44	LH
Bromoform	ND		250	UG/L	8260	05/09/2008 12:44	LH
Bromomethane	ND		250	UG/L	8260	05/09/2008 12:44	LH
Carbon Disulfide	ND		250	UG/L	8260	05/09/2008 12:44	LH
Carbon Tetrachloride	ND		250	UG/L	8260	05/09/2008 12:44	LH
Chlorobenzene	ND		250	UG/L	8260	05/09/2008 12:44	LH
Chloroethane	ND		250	UG/L	8260	05/09/2008 12:44	LH
Chloroform	ND		250	UG/L	8260	05/09/2008 12:44	LH
Chloromethane	ND		250	UG/L	8260	05/09/2008 12:44	LH
cis-1,3-Dichloropropene	ND		250	UG/L	8260	05/09/2008 12:44	LH
Dibromochloromethane	ND		250	UG/L	8260	05/09/2008 12:44	LH .
Ethylbenzene	120	DJ	250	UG/L	8260	05/09/2008 12:44	LH .
Methylene chloride	ND		250	UG/∟	8260	05/09/2008 12:44	LH
Styrene	73	DJ	250	ne\Γ	8260	05/09/2008 12:44	LH .
Tetrachloroethene	ND		250	UG/L	8260	05/09/2008 12:44	LH LH
Toluene	380	D	250	UG/L	8260	05/09/2008 12:44	LH
Total Xylenes	140	DJ	750	ue/∟	8260	05/09/2008 12:44	LH .
trans-1,3-Dichloropropene	ND		250	UG/L	8260	05/09/2008 12:44	LH LH
Trichloroethene	ND		250	UG/∟	8260	05/09/2008 12:44	LH
Vinyl acetate	ND		1200	UG/∟	8260	05/09/2008 12:44	LH
Vinyl chloride	ND		250	UG/L	8260	05/09/2008 12:44	LH .
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
1,2,4-Trimethylbenzene	ND		1.7	UG/L	8021	05/01/2008 17:54	
1,3,5-Trimethylbenzene	ND		1.5	UG/L	8021	05/01/2008 17:54	
Benzene	1900	D	1.2	UG/L	8021	05/01/2008 17:54	
Ethylbenzene	110	D	1.4	UG/L	8021	05/01/2008 17:54	
Isopropylbenzene	ND		1.4	UG/L	8021	05/01/2008 17:54	
m-Xylene	82	1D	2.7	UG/L	8021	05/01/2008 17:54	
Methyl-t-Butyl Ether (MTBE)	ND		2.2	UG/L	8021	05/01/2008 17:54	
n-Butylbenzene	ND		1.5	UG/L	8021	05/01/2008 17:54	
n-Propylbenzene	ND		1.4	UG/L	8021	05/01/2008 17:54	
o-Xylene	ND		1.4	UG/L	8021	05/01/2008 17:54	
p-Cymene	ND		1.5	UG/L	8021	05/01/2008 17:54	
p-Xylene	ND	1	2.7	UG/L	8021	05/01/2008 17:54	LMW
sec-Butylbenzene	10	D	1.0	UG/L	8021	05/01/2008 17:54	LMW

Date: 05/15/2008 Time: 11:06:20

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT
NYSDEC - Gastown WWTP: Spill# 9213441

17/19

Page: 7 Rept: AN1178

Sample ID: PRE-CARBON
Lab Sample ID: A8462302DL
Date Collected: 04/28/2008
Time Collected: 09:55

Date Received: 04/28/2008 Project No: NY5A946109

Client No: L10190

			Detection			Date/Time	
<u>Parameter</u>	Result	<u>Flag</u>	Limit	<u>Units</u>	Method	Analyzed	<u>Analyst</u>
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
Toluene	340	D	1.8	UG/L	8021	05/01/2008 17:54	LMM
Total Xylenes	82	D	4.0	UG/∟	8021	05/01/2008 17:54	LMW

Chain of Custody Record



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Chain of Custody Record



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ANALYTICAL REPORT

Job#: <u>A08-6050</u>

Project#: NY5A946109

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT
Task: NYSDEC - Gastown WWTP: Spill# 9213441

Mr. Glenn May NYSDEC - Region 9 270 Michigan Ave Buffalo, NY 14203

CC: Mr. Charles B. Guzzetta

TestAmerica Laboratories Inc.

Brian J. Fischer Project Manager

06/11/2008



TestAmerica Buffalo Current Certifications

As of 6/15/2007

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

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

SAMPLE SUMMARY

			SAMPLED RECET				
LAB SAMPLE ID	CLIENT SAMPLE ID_	MATRIX	DATE	TIME	<u>DATE</u>	TIME	
A8605001	POST-CARBON		05/29/2008				
A8605002	PRE-CARBON	GW	05/29/2008	09:05	05/29/2008	09:45	

METHODS SUMMARY

Job#: <u>A08-6050</u>

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

	ΑN	ALYTICAL
PARAMETER	_	METHOD
NYSDEC - SW8463 8260/5 ML	SW8463	8260
METHOD 8021 - VOLATILE ORGANICS - STARS	SW8463	8021
Calcium - Total	MCAWW	200.7
Iron - Total	MCAWW	200.7
Magnesium - Total	MCAWW	200.7
Potassium - Total	MCAWW	200.7
Sodium - Total	MCAWW	200.7
Chloride	MCAWW	300.0
Cyanide - Total	MCAWW	335.4
Hq	SM20	4500-H+ B
Sulfate	MCAWW	300.0
Total Alkalinity	MCAWW	310.2

References:

MCAWW	"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar
	1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-
	92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM20 "Standard Methods for the Examination of Water and Wastewater", 20th Edition.

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-6050

Project#: NY5A946109

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

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. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-6050

Sample Cooler(s) were received at the following temperature(s); 5.4 °C All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Volatile Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

The analyte Iron was detected in the Method Blank (A8B1615002) at a level above the project established reporting limit. However, sample PRE-CARBON had a level of Iron greater than ten times that of the Method Blank value, therefore, no corrective action was necessary.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Brian J. Frscher Project Manager

6-12-08

Date

Date: 06/11/2008 Time: 17:18:39 Dilution Log w/Code Information For Job A08-6050 7/12

Page:

Rept: AN1266R

<u>Client Sample ID</u>	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	<u>Dilution</u>	<u>Code</u>
PRE-CARBON	A8605002	Chloride	2.00	800
PRE-CARBON	A8605002	Sulfate	2.00	800
PRE-CARBON	A8605002	Total Alkalinity	8.00	800

Dilution Code Definition:

002 - sample matrix effects

003 - excessive foaming

004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences,
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT
NYSDEC - Gastown WWTP: Spill# 9213441

9/12 Page:

Rept: AN1178

Sample ID: POST-CARBON
Lab Sample ID: A8605001
Date Collected: 05/29/2008
Time Collected: 09:05

Date Received: 05/29/2008 Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	
Panamatan	Result	Flag	Limit	Units	Method	Analyzed	Analyst
Parameter NYSDEC - SW8463 8260/5 ML	Resuct		Limit	Offics	ne chou	<u> </u>	<u>/#10 C/3 C</u>
1,1,1-Trichloroethane	ND		5	UG/L	8260	06/08/2008 22:13	RJ
1,1,2,2-Tetrachloroethane	ND		5	UG/L	8260	06/08/2008 22:13	RJ
1,1,2-Trichloroethane	ND		5	UG/L	8260	06/08/2008 22:13	RJ
• •	ND		5	UG/L	8260	06/08/2008 22:13	RJ
1,1-Dichloroethane 1,1-Dichloroethene	ND		5	UG/L	8260	06/08/2008 22:13	RJ
·	ND		5	UG/L	8260	06/08/2008 22:13	RJ
1,2-Dichloroethane 1,2-Dichloroethene (Total)	ND		10	UG/L	8260	06/08/2008 22:13	RJ
•	ND ND		5	UG/L	8260	06/08/2008 22:13	RJ
1,2-Dichloropropane	ND ND		25	UG/L	8260	06/08/2008 22:13	RJ
2-Butanone	ND ND		25	VG/L	8260	06/08/2008 22:13	RJ
2-Hexanone	ND ND		25	UG/L	8260	06/08/2008 22:13	RJ
4-Methyl-2-pentanone	ND ND		25	UG/L	8260	06/08/2008 22:13	RJ
Acetone	ND		5	UG/L	8260	06/08/2008 22:13	RJ
Benzene Bromodichloromethane	ND		5	UG/L	8260	06/08/2008 22:13	RJ
	ND		5	UG/L	8260	06/08/2008 22:13	RJ
Bromoform	ND		5	UG/L	8260 8260	06/08/2008 22:13	RJ
Bromome thane	ND		5	UG/L	8260	06/08/2008 22:13	RJ
Carbon Disulfide	ND		5	UG/L	8260	06/08/2008 22:13	RJ
Carbon Tetrachloride			5	UG/L	8260	06/08/2008 22:13	RJ
Chlorobenzene	ND		5	UG/L	8260	06/08/2008 22:13	RJ
Chloroethane	ND		, 5	UG/L	8260	06/08/2008 22:13	RJ
Chloroform	ND ND		5	υG/L	8260	06/08/2008 22:13	RJ
Chloromethane			5	UG/L	8260	06/08/2008 22:13	RJ
cis-1,3-Dichloropropene	ND		5	UG/L	8260	06/08/2008 22:13	RJ
Dibromoch Lorome thane	ND		5	UG/L	8260	06/08/2008 22:13	RJ
Ethylbenzene	ND		5	UG/L	8260	06/08/2008 22:13	RJ
Methylene chloride	ND		5	UG/L	8260	06/08/2008 22:13	RJ
Styrene	ND		5	UG/L	8260	06/08/2008 22:13	RJ
Tetrachloroethene	ND		5	UG/L	8260	06/08/2008 22:13	RJ
Toluene	ND		15	UG/L		06/08/2008 22:13	RJ
Total Xylenes	ND		5	UG/L	8260 8260	06/08/2008 22:13	RJ
trans-1,3-Dichloropropene	ND		5	UG/L	8260 8260	06/08/2008 22:13	RJ
Trichloroethene	ND		25	UG/L	8260	06/08/2008 22:13	RJ
Vinyl acetate	ND		5	UG/L	8260 8260	06/08/2008 22:13	RJ
Vinyl chloride	4	J	,	00/ L	0200	00/00/2000 22:13	KJ
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
1,2,4-Trimethylbenzene	ND		0.20	UG/L	8021	06/05/2008 14:09	LMW
1,3,5-Trimethylbenzene	ND		0.20	UG/L	8021	06/05/2008 14:09	LMW
Benzene	ND		0.20	UG/L	8021	06/05/2008 14:09	LMW
Ethylbenzene	ND		0.20	ŲG/L	8021	06/05/2008 14:09	LMW
Isopropylbenzene	ND		0.20	UG/L	8021	06/05/2008 14:09	LMW
m-Xylene	ND		0.40	UG/L	8021	06/05/2008 14:09	LMW
Methyl-t-Butyl Ether (MTBE)	1.4		0.40	UG/L	8021	06/05/2008 14:09	LMW
n-Butylbenzene	ND		0.40	UG/L	8021	06/05/2008 14:09	LMW
n-Propylbenzene	ND		0.20	UG/L	8021	06/05/2008 14:09	LMW
o-Xylene	ND		0.20	UG/∟	8021	06/05/2008 14:09	LM₩
p-Cymene	ND		0.40	UG/L	8021	06/05/2008 14:09	LMW
p-Xylene	ND		0.40	UG/L	8021	06/05/2008 14:09	LMW
sec-Butylbenzene	ND		0.40	UG/L	8021	06/05/2008 14:09	LMW

Date: 06/11/2008 Time: 17:18:46 NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441 10/12 Page:

Page: 2 Rept: AN1178

Sample ID: POST-CARBON
Lab Sample ID: A8605001
Date Collected: 05/29/2008
Time Collected: 09:05

Date Received: 05/29/2008 Project No: NY5A946109 Client No: L10190

Parameter	Detection				——Date/Time——			
	Result	Flag	Limit	Units	Method	Analyzed	Analyst	
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA								
Toluene	ND		0.20	UG/L	8021	06/05/2008 14:	09 LMW	
Total Xylenes	ND		0.60	UG/L	8021	06/05/2008 14:	09 LMW	
Metals Analysis								
Iron - Total	193		50.0	UG/L	200.7	06/03/2008 14:	13 AH	
Wet Chemistry Analysis								
Cyanide - Total	0.40		0.010	MG/L	335.4	05/31/2008 09:	41 ERK	
рН	7.7		0.50	s.U.	4500-H+ B	05/29/2008 19:	45 WM	

Date: 06/11/2008 Time: 17:18:46 NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

NYSDEC - Gastown WWTP: Spill# 9213441

11/12

Page:

Rept: AN1178

Sample ID: PRE-CARBON
Lab Sample ID: A8605002
Date Collected: 05/29/2008
Time Collected: 09:05

Date Received: 05/29/2008 Project No: NY5A946109 Client No: L10190

			Date/Time									
Parameter	Result	Flag	Detection Limit	Units	Method	Analyzed	Analyst					
Metals Analysis												
Calcium - Total	172000		500	UG/L	200.7	05/31/2008 04:11	T₩S					
Iron - Total	13600		50.0	UG/L	200.7	05/31/2008 04:11	TWS					
Magnesium - Total	90800		200	UG/L	200.7	05/31/2008 04:11	TWS					
Potassium - Total	5630		500	UG/L	200.7	05/31/2008 04:11	TWS					
Sodium - Total	77800		1000	UG/L	200.7	05/31/2008 04:11	TWS					
Wet Chemistry Analysis												
Chloride	142		1.0	MG/L	300.0	06/04/2008 12:13	BWM					
Sulfate	185		4.0	MG/L	300.0	06/04/2008 12:13	BWM					
Total Alkalinity	573		80.0	MG/L	310.2	05/30/2008 16:15	RLG					

Chain of Custody Record



TAL-4142 (0907)																														
Client			Pro	iect Ma	anage	r													D	Date							of Custo			
ART KOSKE																			5			<u>- د</u>	8			392	26	<u>92 </u>		
Address			Tele	Telephone Number (Area Code)/Fax Number Lab Nu								Lab Number						Page		i	of	ı .								
City Sta	ite .	Zip Code	Site	Conta	ct				Lab	Cont	act							An	alys re st	alysis (Attach list if re space is needed)						•				
Project Name and Location (State)			Can	rier/Wa	aybill l	Numb	er								٦ ,						N									
NYSDEC - GASTOWN Contract/Purchase Order/Quote No.															13					ব	VC:3S	ŀ				1	Spe	cial I	nstructio	ns/
Contract/Purchase Order/Quote No.		-			-	Matri	ix						rs & tives		\$ C. X.	W.		7	¥	70.4	- 1		マン						s of Red	
Sample I.D. No. and Description (Containers for each sample may be combined on	one lin	ne) Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HC.	NaOH	NaOH	1		つつ	50	7746	SAS	727	Y	7							
PRE CARBO.	<u>د</u>	5-29-08	9:0	5	X						X				×	×														
PRE CARBON	1	5-29-08	9:00	5	×				×		_		\perp		_	_	x	Х		_						_				
PRE CARBON		5-29-08	9:00	5	X		Ш		*				\perp						X		_					-				
POST CARBON		5-29-08	9:05	-	<u> </u>							メ								×	×	_								
POST CARBO	<u>ال</u>	5-29-08	9:05		×				×							<u> </u>						X								
POST CARBON	4	5-29-08	9:00	5	X						×					X														
POST CARBO	عمر	5-29-08	9:0	5	×					\dashv			×	_	_					4	1	_	x		_					
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Possible Hazard Identification		,	<u> </u>	-1	Samp	ole Dis	sposa	i	1	1							<u> </u>	<u> </u>			1	1								
☐ Non-Hazard ☐ Flammable ☐ Skin Ir	rritant	Poison B	Unkne	own		leturn	ToC	lient					y Lab		Arci	hive I	or _			Monti				ay be a an 1 m			sample 	s are	retained 	
Turn Around Time Required 24 Hours 48 Hours 7 Days	1 14	4 Days 🔲 21 Day	. П	Other					1	oc i	Requ	uirem	ents	(Speci	fy)															
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2-Relinquished By		<u> </u>	Dat		, -U		me	٦-		2. R				<u> </u>	سمس	_										Date		<i>X</i>	Time	J
3. Relinquished By		<u> </u>	Dat	е		Tic	me			3. R	ecei	ved E	3 <i>y</i>													Date			Time	<u></u>
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Comments																		(5	_	4	•	` <	<u> </u>						
DISTRIBUTION: WHITE - Returned to Client with	Repor	rt; CANARY - Stays	vith the S	ample	: PIN	K - Fi	eld C	ору						-						•										



ANALYTICAL REPORT

Job#: A08-7741

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

Task: NYSDEC - Gastown WWIP: Spill# 9213441

Mr. Glenn May NYSDEC - Region 9 270 Michigan Ave Buffalo, NY 14203

CC: Mr. Charles B. Guzzetta

TestAmerica Laboratories Inc.

FOR Project Manager

07/14/2008



TestAmerica Buffalo Current Certifications

As of 6/15/2007

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

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

SAMPLE SUMMARY

			SAMPI	ĿED	RECEIV	<u>:</u> D
LAB SAMPLE ID	CLIENT SAMPLE ID_	MATRIX	DATE	TIME	DATE	TIME
A8774101	POST-CARBON	GW	06/30/2008	09:15	06/30/2008	10:40
A8774102	PRE-CARBON	GW	06/30/2008	09:15	06/30/2008	10:40

METHODS SUMMARY

Job#: <u>A08-7741</u>

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

	AN	ALYTICAL						
PARAMETER	METHOD							
NYSDEC - SW8463 8260/5 ML	SW8463	8260						
METHOD 8021 - VOLATILE ORGANICS - STARS	SW8463	8021						
Calcium - Total Iron - Total Magnesium - Total Potassium - Total Sodium - Total	MCAWW MCAWW MCAWW MCAWW MCAWW	200.7						
Chloride Cyanide - Total pH Sulfate Total Alkalinity	MCAWW MCAWW SM20 MCAWW MCAWW	300.0 335.4 4500-H+ B 300.0 310.2						

<u>References:</u>

MCAWW	"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar
	1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-
	92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM20 "Standard Methods for the Examination of Water and Wastewater", 20th Edition.

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-7741

Project#: NY5A946109

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

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. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-7741

Sample Cooler(s) were received at the following temperature(s); 10.0 °C Samples were received at a temperature of 10°C. However, ice was present in the cooler and as the samples were collected the same day, it was not possible for the samples to cool to 4°C prior to receipt. There is no impact on the data.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Volatile Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

FOR

Brian K Fischer Project Manager

7 1408

Date

Date: 07/14/2008 Time: 11:04:54

Dilution Log w/Code Information For Job A08-7741

7/12 Page:

Rept: AN1266R

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
PRE-CARBON	A8774102	Chloride	10.00	800
PRE-CARBON	A8774102	Sulfate	5.00	800
PRE-CARBON	A8774102	Total Alkalinity	6.00	800

Dilution Code Definition:

- 002 sample matrix effects
- 003 excessive foaming
- 004 high levels of non-target compounds
- 005 sample matrix resulted in method non-compliance for an Internal Standard
- 006 sample matrix resulted in method non-compliance for Surrogate
- 007 nature of the TCLP matrix
- 008 high concentration of target analyte(s)
- 009 sample turbidity
- 010 sample color
- 011 insufficient volume for lower dilution
- 012 sample viscosity
- 013 other



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- ¹ Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit,
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441

> Date Received: 06/30/2008 Project No: NY5A946109 Client No: L10190

> > Site No:

Rept: AN1178

Lab Sample ID: A8774101
Date Collected: 06/30/2008
Time Collected: 09:15

Sample ID: POST-CARBON

NYSDEC - SW8463 8260/5 ML 1,1,1-Trichloroethane 1,1,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane ND 1,2-Dichloropropane ND 2-Butanone	Flag	Detection Limit 5 5 5 5 5 5 10	Units UG/L UG/L UG/L UG/L UG/L	8260 8260 8260 8260	O7/10/2008 12:09 07/10/2008 12:09 07/10/2008 12:09	
NYSDEC - SW8463 8260/5 ML 1,1,1-Trichloroethane 1,1,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane ND 1,2-Dichloropropane ND 2-Butanone	Flag _	5 5 5 5 5	UG/L UG/L UG/L UG/L UG/L	8260 8260 8260 8260	07/10/2008 12:09 07/10/2008 12:09	DHC
1,1,1-Trichloroethane ND 1,1,2-Tetrachloroethane ND 1,1,2-Trichloroethane ND 1,1-Dichloroethane ND 1,1-Dichloroethane ND 1,2-Dichloroethane ND 1,2-Dichloroethane ND 1,2-Dichloroethane ND 1,2-Dichloropropane ND 2-Butanone ND		5 5 5 5	UG/L UG/L UG/L UG/L	8260 8260 8260	07/10/2008 12:09	
1,1,2,2-Tetrachloroethane ND 1,1,2-Trichloroethane ND 1,1-Dichloroethane ND 1,1-Dichloroethene ND 1,2-Dichloroethane ND 1,2-Dichloroethane ND 1,2-Dichloroethene (Total) ND 1,2-Dichloropropane ND 2-Butanone ND		5 5 5 5	UG/L UG/L UG/L UG/L	8260 8260 8260	07/10/2008 12:09	
1,1,2-Trichloroethane ND 1,1-Dichloroethane ND 1,1-Dichloroethene ND 1,2-Dichloroethane ND 1,2-Dichloroethene (Total) ND 1,2-Dichloropropane ND 2-Butanone ND		5 5 5	UG/L UG/L UG/L	8260 8260		DHC
1,1-Dichloroethane 1,1-Dichloroethene ND 1,2-Dichloroethane ND 1,2-Dichloroethene (Total) ND 1,2-Dichloropropane ND 2-Butanone ND		5 5 5	UG/L UG/L	8260	07/10/2008 12:09	
1,1-Dichloroethene ND 1,2-Dichloroethene ND 1,2-Dichloroethene (Total) ND 1,2-Dichloropropane ND 2-Butanone ND		5	UG/L			
1,2-Dichloroethane ND 1,2-Dichloroethene (Total) ND 1,2-Dichloropropane ND 2-Butanone ND		5			07/10/2008 12:09	
1,2-Dichloroethene (Total) ND 1,2-Dichloropropane ND 2-Butanone ND			ue I.	8260	07/10/2008 12:09	
1,2-Dichloropropane ND 2-Butanone ND		10	UG/L	8260	07/10/2008 12:09	
2-Butanone ND			UG/L	8260	07/10/2008 12:09	
		5	UG/L	8260	07/10/2008 12:09	
		25	∪G/L	8260	07/10/2008 12:09	
2-Hexanone ND		25	UG/L	8260	07/10/2008 12:09	DHC
4-Methyl-2-pentanone ND		25	UG/L	8260	07/10/2008 12:09	DHC
Acetone		25	UG/L	8260	07/10/2008 12:09	DHC
Benzene 2	J	5	UG/L	8260	07/10/2008 12:09	DHC
Bromodichloromethane ND		5	UG/L	8260	07/10/2008 12:09	DHC
Bromoform ND		5	UG/L	8260	07/10/2008 12:09	DHC
Bromomethane 2	J	5	UG/L	8260	07/10/2008 12:09	DHC
Carbon Disulfide ND		5	UG/L	8260	07/10/2008 12:09	DHC
Carbon Tetrachloride ND		5	UG/L	8260	07/10/2008 12:09	DHC
Chlorobenzene		5	UG/L	8260	07/10/2008 12:09	DHC
Chloroethane		5	UG/L	8260	07/10/2008 12:09	DHC
Chloroform ND		5	UG/L	8260	07/10/2008 12:09	DHC
Chloromethane ND		5	UG/L	8260	07/10/2008 12:09	DHC
cis-1,3-Dichloropropene ND		5	UG/L	8260	07/10/2008 12:09	DHC
Dibromochloromethane ND		5	ug/L	8260	07/10/2008 12:09	DHC
Ethylbenzene ND		5	UG/L	8260	07/10/2008 12:09	DHC
Methylene chloride ND		5	UG/L	8260	07/10/2008 12:09	DHC
Styrene		5	∪G/L	8260	07/10/2008 12:09	DHC
Tetrachloroethene ND		5	UG/L	8260	07/10/2008 12:09	DHC
Toluene ND		5	UG/L	8260	07/10/2008 12:09	DHC
Total Xylenes ND		15	UG/L	8260	07/10/2008 12:09	DHC
trans-1,3-Dichloropropene ND		5	UG/L	8260	07/10/2008 12:09	DHC
Trichloroethene ND		5	UG/L	8260	07/10/2008 12:09	DHC
Vinyl acetate ND		25	UG/L	8260	07/10/2008 12:09	DHC
Vinyl chloride 3 J	J	5	UG/L	8260	07/10/2008 12:09	DHC
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA						
1,2,4-Trimethylbenzene ND		0.20	UG/L	8021	07/02/2008 12:22	TMF
1,3,5-Trimethylbenzene ND		0.20	UG/L	8021	07/02/2008 12:22	TMF
Benzene 1.9		0.20	UG/L	8021	07/02/2008 12:22	TMF
Ethylbenzene ND		0.20	UG/L	8021	07/02/2008 12:22	TMF
Isopropy lbenzene ND		0.20	UG/L	8021	07/02/2008 12:22	TMF
m-Xylene ND		0.40	UG/L	8021	07/02/2008 12:22	TMF
Methyi-t-Butyi Ether (MTBE) 1.9		0.40	UG/L	8021	07/02/2008 12:22	TMF
n-Butylbenzene ND		0.40	UG/L	8021	07/02/2008 12:22	TMF
n-Propylbenzene ND		0.20	UG/L	8021	07/02/2008 12:22	TMF
o-Xylene ND		0.20	UG/L	8021	07/02/2008 12:22	TMF
p-Cymene ND		0.40	UG/L	8021	07/02/2008 12:22	TMF
p-Xylene ND		0.40	UG/L	8021	07/02/2008 12:22	TMF
sec-Butylbenzene ND		0.40	UG/L	8021	07/02/2008 12:22	TMF

TestAmerica

Date: 07/14/2008 Time: 11:05:01 NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441 10/12 Page:

Rept: AN1178

Sample ID: POST-CARBON

Lab Sample ID: A8774101
Date Collected: 06/30/2008

Time Collected: 09:15

Date Received: 06/30/2008

Project No: NY5A946109

Client No: L10190

			Detection			Date/Tim	ne	-
Parameter	Result	Flag	Limit	Units	Method	Analyze	ed	Analyst
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA								
Toluene	ND		0.20	UG/L	8021	07/02/2008	12:22	TMF
Total Xylenes	ND		0.60	UG/L	8021	07/02/2008	12:22	TMF
Metals Analysis								
Iron - Total	157		50.0	UG/L	200.7	07/03/2008	03:41	SW
Wet Chemistry Analysis								
Cyanide - Total	0.34		0.010	MG/L	335.4	07/03/2008	12:21	ERK
рН	7.2		0	s.u.	4500-H+ E	06/30/2008	16:00	RK

Date: 07/14/2008 Time: 11:05:01 NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT
NYSDEC - Gastown WWTP: Spill# 9213441

11/12 Page:

Rept: AN1178

Sample ID: PRE-CARBON

Lab Sample ID: A8774102
Date Collected: 06/30/2008

Time Collected: 09:15

Date Received: 06/30/2008 Project No: NY5A946109

Client No: L10190

				Date/Time								
Parameter	Result	Flag	Limit	Units	Method	Analyzed	Analyst					
Metals Analysis												
Calcium - Total	153000		500	UG/L	200.7	07/03/2008 03:46	SW					
Iron - Total	3930		50.0	UG/L	200.7	07/03/2008 03:46	sw					
Magnesium - Total	74000		200	UG/L	200.7	07/03/2008 03:46	SW					
Potassium - Total	5700		500	UG/L	200.7	07/03/2008 03:46	SW					
Sodium - Total	75500		1000	UG/L	200.7	07/03/2008 03:46	SW					
Wet Chemistry Analysis												
Chloride	148		5.0	MG/L	300.0	07/09/2008 11:43	AEG					
Sulfate	160		10	MG/∟	300.0	07/02/2008 11:47	AEG					
Total Alkalinity	331		60.0	MG/L	310.2	07/07/2008 19:22	KD					

Chain of Custody Record



TAL-4142 (0907)																									•				
ART KOSKE			Projec	ct Mar	nager		·	-									•	- 1	Date 6-	. 3.	~~			T	Chain of Co	ustody N	lumber 3 7		_
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City	State	Zip Code	Site C	ontac	t			Lat	b Con	tact									ysis (Attach list if space is needed)				<u> </u>						
Project Name and Location (State) NYS DEC - GAS TO	س۸		Carrie	r/Way	bill N u	imbei	r .	1						١,	Ş				₹07	4					Special Instru		instruc	tructions/	
Contract/Purchase Order/Quote No.					М	atrix					taine erva					2	7	Y	1			て					ns of R		
Sample I.D. No. and Description (Containers for each sample may be combined		ine) Date	Time	Aft	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HC!	NaOH	NaOH	1	3	با ت	40	727	SAS	75	PH	7							
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Possible Hazard Identification Non-Hazard Flammable Ski	n Irritanl	Poison 8	Unknowi		ample Ret		osal o Clier	nt .	(] Arc	hive	For .	<u> </u>		Mon	ths			ay be a an 1 m		sed if sam	ples are	retained	-	
24 Hours	K :	4 Days 🔲 21 Days										,	(Spec	ify)															
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3. Relinquished By			Date			Time	!		3. F	ecei	ved B	y	•••										•		Date		Time		— !
Comments		·		•	1											<u> </u>	-		_								1		

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

1000 SAVE MAY



ANALYTICAL REPORT

Job#: <u>A08-9201</u>

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

Task: NYSDEC - Gastown WWTP: Spill# 9213441

Mr. Glenn May NYSDEC - Region 9 270 Michigan Ave Buffalo, NY 14203

CC: Mr. Charles B. Guzzetta

TestAmerica Laboratories Inc.

Brian J.\Fischer Projeqt Manager

08/13/2008



TestAmerica Buffalo Current Certifications

As of 6/15/2007

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

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

SAMPLE SUMMARY

						SAMP	LED	RECEIVI	ŒD
LAB SAMP	LE II	CLIENT	SAMPLE	ID	<u>MATRIX</u>	DATE	TIME	DATE	<u>TIME</u>
A89201	01	POST-CARI	BON		GW	07/30/2008	15:10	07/30/2008	16:20
A89201	02	PRE-CARBO	NC		GW	07/30/2008	15:20	07/30/2008	16:20

METHODS SUMMARY

Job#: <u>A08-9201</u>

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

PARAMETER		ALYTICAL METHOD
NYSDEC - SW8463 8260/5 ML	SW8463	8260
METHOD 8021 - VOLATILE ORGANICS - STARS	SW8463	8021
NYSDEC - METHOD 8270 Gastown	SW8463	8270
GASTOWN - METHOD 608 - P.P. PESTICIDES	CFR136	608PEST
Arsenic - Total	MCAWW	200.7
Calcium - Total	MCAWW	200.7
Iron - Total	MCAWW	200.7
Magnesium - Total	MCAWW	200.7
Manganese - Total	MCAWW	200.7
Potassium - Total	MCAWW	200.7
Sodium - Total	MCAWW	200.7
Zinc - Total	MCAWW	200.7
Biochemical Oxygen Demand	SM20	5210B
Chloride	MCAWW	300.0
Cyanide - Total	MCAWW	335.4
Oil & Grease	MCAWW	1664
рн	SM20	4500-H+ B
Sulfate	MCAWW	300.0
Total Alkalinity	MCAWW	310,2
Total Dissolved Solids	SM20	
Total Recoverable Phenolics	MCAWW	
Total Suspended Solids	SM20	2540D

References:

CFR136 Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, and Appendix A-C; 40 CFR Part 136, USEPA Office

of Water.

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar

1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-

92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM20 "Standard Methods for the Examination of Water and Wastewater", 20th Edition.

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: <u>A08-9201</u>

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

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. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-9201

Sample Cooler(s) were received at the following temperature(s); 4.8 °C All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Volatile Data

For method 8021, the recoveries of several compounds in sample PRE-CARBON Matrix Spike and Matrix Spike Duplicate exceeded QC limits. The Matrix Spike Blank recoveries are compliant.

GC/MS Semivolatile Data

The analyte Indene was searched for as tentatively identified compounds (TIC's) and not found.

GC Extractable Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Brian J. Fischer Project Manager

8-13-08

Date

Date: 08/13/2008 Time: 10:31:38

Dilution Log w/Code Information For Job A08-9201

8/18 Page:

Rept: AN1266R

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	<u>Code</u>
PRE-CARBON	A8920102	8021	100.00	800
PRE-CARBON	A8920102	8260	50.00	800
PRE-CARBON	A8920102	Chloride	5.00	800
PRE-CARBON	A8920102	Sulfate	5.00	800
PRE-CARBON	A8920102	Total Alkalinity	5.00	800
PRE-CARBON	A8920102DL	8260	100.00	008
PRE-CARBON	A8920102MS	8021	100.00	800
PRE-CARBON	A8920102SD	8021	100.00	800

Dilution Code Definition:

002 - sample matrix effects

003 - excessive foaming

004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other

Date: 08/13/2008 Time: 10:31:40

Requested Reporting Limits < Lab PQL

Page:

1 Rept: AN1520

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to lab MDL. It must be noted that results reported below lab standard quantitation limit (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Parameter	<u>Unit</u>	Client RL	Lab <u>POL</u>
420.4	Total Recoverable Phenolics	MG/L	0.0050	0.010



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441 11/18 Page: 1 Rept: AN1178

Sample ID: POST-CARBON Lab Sample ID: A8920101

Time Collected: 15:10

Date Collected: 07/30/2008

Project No: NY5A946109 Client No: L10190

			Detection			Date/Time		
Parameter	Result	Flag	Limit	Units	Method	Analyzed	<u> </u>	Analys
NYSDEC - SW8463 8260/5 ML								
1,1,1-Trichloroethane	ND		5	UG/L	8260	08/09/2008 1		DHC
1,1,2,2-Tetrachloroethane	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
1,1,2-Trichloroethane	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
1,1-Dichloroethane	ND		5	UG/L	8260	08/09/2008		DHC
1,1-Dichloroethene	ND		5	UG/L	8260	08/09/2008	18:27	DHC
1,2-Dichloroethane	ND		5	UG/L	8260	08/09/2008 1		DHC
1,2-Dichloroethene (Total)	ND		10	UG/L	8260	08/09/2008 1		DHC
1,2-Dichloropropane	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
2-Butanone	ND		25	UG/L	8260	08/09/2008 1	18:27	DHC
2-Hexanone	ND		25	UG/L	8260	08/09/2008 1	18:27	DHC
4-Methyl-2-pentanone	ND		25	UG/L	8260	08/09/2008 1	18:27	DHC
Acetone	ND		25	UG/L	8260	08/09/2008 1	18:27	DHC
Benzene	8		5	UG/L	8260	08/09/2008 1	18:27	DHC
Bromodichloromethane	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Bromoform	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Bromomethane	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Carbon Disulfide	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Carbon Tetrachloride	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Chlorobenzene	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Chloroethane	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Chloroform	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Chloromethane	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
cis-1,3-Dichloropropene	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Dibromochloromethane	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Ethylbenzene	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Methylene chloride	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Styrene	ND		5	UG/∟	8260	08/09/2008 1	18:27	DHC
Tetrachloroethene	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Toluene	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Total Xylenes	ND		15	UG/L	8260	08/09/2008 1	18:27	DHC
trans-1,3-Dichloropropene	ND		5	UG/∟	8260	08/09/2008 1	18:27	DHC
Trichloroethene	ND		5	UG/L	8260	08/09/2008 1	18:27	DHC
Vinyl acetate	ND		25	UG/L	8260	08/09/2008 1	18:27	DHC
Vinyl chloride	3	J	5	V6/∟	8260	08/09/2008 1	18:27	DHC
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA								
1,2,4-Trimethylbenzene	ND		0.20	UG/L	8021	08/03/2008 1		TMF
1,3,5-Trimethylbenzene	ND		0.20	UG/L	8021	08/03/2008 1		TMF
Benzene	9.2		0.20	UG/L	8021	08/03/2008 1		
Ethylbenzene	ND		0.20	UG/L	8021	08/03/2008 1	13:34	TMF
Isopropylbenzene	ND		0.20	UG/L	8021	08/03/2008 1	13:34	TMF
m-Xylene	ND		0.40	ug/L	8021	08/03/2008 1	13:34	TMF
Methyl-t-Butyl Ether (MTBE)	2.2		0.40	UG/L	8021	08/03/2008 1		
n-Butylbenzene	ND		0.40	UG/L	8021	08/03/2008 1		
n-Propylbenzene	ND		0.20	UG/L	8021	08/03/2008 1		
o-Xylene	ND		0.20	ne/r	8021	08/03/2008 1		
p-Cymene	ND		0.40	UG/L	8021	08/03/2008 1	13:34	TMF
p-Xylene	ND		0.40	UG/L	8021	08/03/2008 1	13:34	TMF
sec-Butylbenzene	ND		0.40	UG/L	8021	08/03/2008 1		TMF

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441 12/18 Page:

Rept: AN1178

Sample ID: POST-CARBON
Lab Sample ID: A8920101
Date Collected: 07/30/2008
Time Collected: 15:10

Date Received: 07/30/2008 Project No: NY5A946109 Client No: L10190

Result	Flag	Detection			Date/Time	•
Result	Flag					
		Limit	Units	Method	Analyzed	Analys
ND		0.20	UG/L	8021	08/03/2008 13:34	
ND		0.60	UG/L	8021	08/03/2008 13:34	4 TMF
ND		9.5	UG/L	8270	08/02/2008 20:51	l JLG
ND		9.5	UG/L	8270	08/02/2008 20:51	l JLG
ND		9.5	UG/L	8270	08/02/2008 20:51	l J L G
ND		9.5	UG/L	8270	08/02/2008 20:51) JLG
ND		9.5	UG/L	8270	08/02/2008 20:51	l JLG
ND		9.5	UG/L	8270	08/02/2008 20:51	l JLG
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NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441 [3/18 Page:

Rept: AN1178

Sample ID: POST-CARBON Lab Sample ID: A8920101

Date Collected: 07/30/2008 Time Collected: 15:10 Date Received: 07/30/2008 Project No: NY5A946109 Client No: L10190

			Detection			Date/Tir	ne	
Parameter	Result	Flag	Limit	Units	Method	Analyz	ed	<u>Analyst</u>
Metals Analysis								
Arsenic - Total	ND		10	UG/∟	200.7	08/01/2008	15:17	AH
Iron - Total	213		50.0	UG/L	200.7	08/01/2008	15:17	AH
Manganese - Total	261		3.0	UG/L	200.7	08/01/2008	15:17	AH
Zinc - Total	15.0		10	UG/L	200.7	08/01/2008	15:17	AH
Wet Chemistry Analysis								
Biochemical Oxygen Demand	ND		2.0	MG/L	5210B	07/30/2008	16:44	RK
Cyanide - Total	0.49		0.010	MG/L	335.4	08/05/2008	10:44	ERK
Oil & Grease	ND		5.0	MG/L	1664	07/31/2008	08:24	EJS
PΗ	7.0		0.50	s.u.	4500-H+ B	07/30/2008	22:00	TL
Total Dissolved Solids	1050		10	MG/L	2540c	07/31/2008	19:00	WM
Total Recoverable Phenolics	0.0089		0.0050	MG/L	420.4	08/07/2008	16:34	RLG
Total Suspended Solids	ND		4.0	MG/∟	2540D	07/31/2008	10:00	JM

Sample ID: PRE-CARBON

Lab Sample ID: A8920102

Time Collected: 15:20

Date Collected: 07/30/2008

NYSDEC REGION 9 REMEDIATION/SPILL

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441

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Date Received: 07/30/2008 Project No: NY5A946109 Client No: L10190

14/18 Page:

Rept: AN1178

Site No:

			Detection			Date/Time	•
Parameter	Result	Flag	Limi <u>t</u>	Units	Method	Analyzed	Analys
NYSDEC - SW8463 8260/5 ML							
1,1,1-Trichloroethane	ND		250	UG/L	8260	08/09/2008 18:50	
1,1,2,2-Tetrachloroethane	ND		250	UG/L	8260	08/09/2008 18:50	
1,1,2-Trichloroethane	ND		250	UG/L	8260	08/09/2008 18:50	
1,1-Dichloroethane	ND		250	UG/L	8260	08/09/2008 18:50	
1,1-Dichloroethene	ND		250	UG/L	8260	08/09/2008 18:50	
1,2-Dichloroethane	ND		250	UG/L	8260	08/09/2008 18:50	
1,2-Dichloroethene (Total)	ND		500	UG/L	8260	08/09/2008 18:50	
1,2-Dichloropropane	ND		250	UG/L	8260	08/09/2008 18:50	
2-Butanone	ND		1200	UG/L	8260	08/09/2008 18:50	
2-Hexanone	ND		1200	UG/L	8260	08/09/2008 18:50	
4-Methyl-2-pentanone	ND		1200	UG/L	8260	08/09/2008 18:50	
Acetone	ND		1200	UG/L	8260	08/09/2008 18:50	DHC
Benzene	5400	E	250	UG/L	8260	08/09/2008 18:50	DHC
Bromodichloromethane	ND		250	UG/L	8260	08/09/2008 18:50	DHC
Bromoform	ND		250	UG/L	8260	08/09/2008 18:50	DHC
Bromomethane	ND		250	UG/L	8260	08/09/2008 18:50	DHC
Carbon Disulfide	ND		250	UG/L	8260	08/09/2008 18:50	DHC
Carbon Tetrachloride	ND		250	UG/L	8260	08/09/2008 18:50	DHC
Chlorobenzene	ND		250	UG/L	8260	08/09/2008 18:50	DHC
Chloroethane	NĐ		250	UG/L	8260	08/09/2008 18:50	DHC
Chloroform	ND		250	UG/L	8260	08/09/2008 18:50	DHC
Chloromethane	ND		250	UG/L	8260	08/09/2008 18:50	DHC
cis-1,3-Dichloropropene	ND		250	UG/L	8260	08/09/2008 18:50	DHC
Dibromochloromethane	ND		250	UG/L	8260	08/09/2008 18:50	DHC
Ethylbenzene	180	J	250	UG/L	8260	08/09/2008 18:50	DHC
Methylene chloride	ND		250	UG/L	8260	08/09/2008 18:50	DHC
Styrene	52	J	250	UG/L	8260	08/09/2008 18:50	DHC
Tetrachloroethene	ND		250	UG/L	8260	08/09/2008 18:50	DHC
Toluene	850		250	UG/L	8260	08/09/2008 18:50	DHC
Total Xylenes	280	J	750	UG/L	8260	08/09/2008 18:50	DHC
trans-1,3-Dichloropropene	ND		250	UG/L	8260	08/09/2008 18:50	DHC
Trichloroethene	ND		250	UG/L	8260	08/09/2008 18:50	DHC
Vinyl acetate	ND		1200	UG/L	8260	08/09/2008 18:50	DHC
Vinyl chloride	ND		250	UG/L	8260	08/09/2008 18:50	DHC
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
1,2,4-Trimethylbenzene	ND		3.5	UG/L	8021	08/03/2008 11:36	
1,3,5-Trimethylbenzene	ND		3.0	UG/L	8021	08/03/2008 11:36	
Benzene	5000		2.3	UG/L	8021	08/03/2008 11:36	
Ethylbenzene	160		2.9	UG/L	8021	08/03/2008 11:36	
Isopropylbenzene	ND		2.7	UG/L	8021	08/03/2008 11:36	
m-Xylene	160	1	5.4	UG/L	8021	08/03/2008 11:36	
Methyl-t-Butyl Ether (MTBE)	ND		4.4	UG/L	8021	08/03/2008 11:36	
n-Butylbenzene	ND		3.1	UG/L	8021	08/03/2008 11:36	
n-Propylbenzene	ND		2.8	UG/L	8021	08/03/2008 11:36	
o-Xylene	160		2.7	UG/L	8021	08/03/2008 11:36	
p-Cymene	ND		3.0	UG/L	8021	08/03/2008 11:36	
p-Xylene	ND	1	5.4	UG/L	8021	08/03/2008 11:36	TMF
sec-Butylbenzene	ND		2.0	UG/L	8021	08/03/2008 11:36	TMF

TestAmerica

Date: 08/13/2008 Time: 10:31:49 NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441 15/18 Page:

Rept: AN1178

Sample ID: PRE-CARBON Lab Sample ID: A8920102

Date Collected: 07/30/2008 Time Collected: 15:20 Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	•
Parameter	Result	Flag	Limit	Units	Method	Analyzed	Analyst
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
Toluene	780		3.6	UG/L	8021	08/03/2008 11:36	TMF
Total Xylenes	330		8.1	UG/∟	8021	08/03/2008 11:36	TMF
Metals Analysis							
Calcium - Total	137000		500	UG/L	200.7	08/01/2008 15:23	AH
Iron - Total	1090		50.0	UG/L	200.7	08/01/2008 15:23	AH
Magnesium - Total	75000		200	UG/L	200.7	08/01/2008 15:23	AH
Potassium - Total	4850		500	UG/L	200.7	08/01/2008 15:23	AH
Sodium - Total	74000		1000	UG/L	200.7	08/01/2008 15:23	АН
Wet Chemistry Analysis							
Chloride	136		2.5	MG/L	300.0	08/04/2008 10:00	BWM
Sulfate	167		10	MG/L	300.0	08/04/2008 10:00	BWM
Total Alkalinity	451		50.0	MG/L	310.2	07/31/2008 18:07	RLG

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441 16/18 Page:

Rept: AN1178

Sample ID: PRE-CARBON
Lab Sample ID: A8920102DL
Date Collected: 07/30/2008
Time Collected: 15:20

Date Received: 07/30/2008 Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	
Parameter	Result	Flag	Limit	<u>Units</u>	Method	Analyzed	Analyst
NYSDEC - SW8463 8260/5 ML							
1,1,1-Trichloroethane	ND		500	UG/L	8260	08/10/2008 16:53	ND
1,1,2,2-Tetrachloroethane	ND		500	UG/L	8260	08/10/2008 16:53	ND
1,1,2-Trichloroethane	ND		500	UG/L	8260	08/10/2008 16:53	ND
1,1-Dichloroethane	ND		500	UG/L	8260	08/10/2008 16:53	ND
1,1-Dichloroethene	ND		500	UG/L	8260	08/10/2008 16:53	ND
1,2-Dichloroethane	ND		500	UG/L	8260	08/10/2008 16:53	ND
1,2-Dichloroethene (Total)	ND		1000	UG/L	8260	08/10/2008 16:53	ND
1,2-Dichloropropane	ND		500	UG/L	8260	08/10/2008 16:53	ND
2-Butanone	ND		2500	UG/L	8260	08/10/2008 16:53	ND
2-Hexanone	ND		2500	UG/L	8260	08/10/2008 16:53	ND
4-Methyl-2-pentanone	ND		2500	UG/L	8260	08/10/2008 16:53	ND
Acetone	ND		2500	UG/L	8260	08/10/2008 16:53	ND
Benzene	6000	D	500	UG/L	8260	08/10/2008 16:53	NĐ
Bromodichloromethane	ND		500	UG/L	8260	08/10/2008 16:53	ND
Bromoform	ND		500	UG/L	8260	08/10/2008 16:53	ND
Bromome thane	ND		500	UG/L	8260	08/10/2008 16:53	ND
Carbon Disulfide	ND		500	UG/L	8260	08/10/2008 16:53	ND
Carbon Tetrachloride	ND		500	UG/L	8260	08/10/2008 16:53	ND
Chlorobenzene	ND		500	UG/L	8260	08/10/2008 16:53	ND
Chloroethane	ND		500	UG/L	8260	08/10/2008 16:53	ND
Chloroform	ND		500	UG/L	8260	08/10/2008 16:53	ND
Chloromethane	ND		500	UG/L	8260	08/10/2008 16:53	ND
cis-1,3-Dichloropropene	ND		500	UG/L	8260	08/10/2008 16:53	ND
Dibromochloromethane	ND		500	UG/L	8260	08/10/2008 16:53	ND
Ethylbenzene	180	DJ	500	UG/L	8260	08/10/2008 16:53	
Methylene chloride	ND		500	UG/L	8260	08/10/2008 16:53	ND
Styrene	57	DJ	500	UG/L	8260	08/10/2008 16:53	ND
Tetrachloroethene	ND		500	UG/∟	8260	08/10/2008 16:53	ND
Toluene	870	D	500	UG/L	8260	08/10/2008 16:53	ND
Total Xylenes	300	DJ	1500	UG/L	8260	08/10/2008 16:53	
trans-1,3-Dichloropropene	ND		500	UG/L	8260	08/10/2008 16:53	ND
Trichloroethene	ND		500	UG/L	8260	08/10/2008 16:53	
Vinyl acetate	ND		2500	UG/L	8260	08/10/2008 16:53	
Vinyl chloride	ND		500	UG/L	8260	08/10/2008 16:53	ND

Chain of Custody Record



TAL-4142 (0907)																														
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Chain of Custody Record



STL-4124 (0901)			• -			_																	:					
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ANALYTICAL REPORT

Job#: <u>A08-A870</u>

Project#: NY5A946109

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

Task: NYSDEC - Gastown WWIP: Spill# 9213441

Mr. Glenn May NYSDEC - Region 9 270 Michigan Ave Buffalo, NY 14203

CC: Mr. Charles B. Guzzetta

TestAmerica Laboratories Inc.

Brian J\ Fischer Project\Manager

09/18/2008



TestAmerica Buffalo Current Certifications

As of 6/15/2007

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

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

SAMPLE SUMMARY

			SAMPI	ED	RECEIVI	⊡
LAB SAMPLE ID	CLIENT SAMPLE ID_	MATRIX	DATE	TIME	DATE	TIME
A8A87001	POST-CARBON	GW	09/05/2008	14:35	09/05/2008	15:15
A8A87002	PRE-CARBON	GW	09/05/2008	14:30	09/05/2008	15:15

METHODS SUMMARY

Job#: <u>A08-A870</u>

Project#: NY5A946109 Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

	ANALYTICAL		
PARAMETER		METHOD	
NYSDEC - SW8463 8260/5 ML	SW8463	8260	
METHOD 8021 - VOLATILE ORGANICS - STARS	SW8463	8021	
Calcium - Total Iron - Total Magnesium - Total Potassium - Total Sodium - Total	MCAWW MCAWW MCAWW MCAWW MCAWW	200.7	
Chloride Cyanide - Total pH Sulfate Total Alkalinity	MCAWW MCAWW SM20 MCAWW MCAWW	4500-H+ B 300.0	

References:

MCAWW	"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)
SM20	"Standard Methods for the Examination of Water and Wastewater", 20th Edition.
SW8463	"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-A870

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

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. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-A870

Sample Cooler(s) were received at the following temperature(s); 2.0 °C All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Volatile Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

The Iron value obtained for sample POST-CARBON was inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis was provided in this data package.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Brian J. Fischer Project Manager

9-13-01

Date

Dilution Log w/Code Information For Job AO8-A870 7/13

Page: 1 Rept: AN1266R

Client Sample ID Lab Sample ID Parameter (Inorganic)/Method (Organic) <u>Dilution</u> <u>Code</u> 8021 POST-CARBON A8A87001 5.00 008 POST-CARBON A8A87001DL 8260 2.00 008 PRE-CARBON A8A87002 Chloride 5.00 008 PRE-CARBON A8A87002 Sulfate 5.00 008 PRE-CARBON A8A87002 Total Alkalinity 10.00 008

Dilution Code Definition:

002 - sample matrix effects

003 - excessive foaming

004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NYSDEC NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

9/13 NYSDEC - Gastown WWTP: Spill# 9213441

> Date Received: 09/05/2008 Project No: NY5A946109 Client No: L10190

> > Site No:

Page:

Rept: AN1178

TestAmerica

Sample ID: POST-CARBON Lab Sample ID: A8A87001 Date Collected: 09/05/2008 Time Collected: 14:35

			Detection			Date/Time	•
Parameter	Result	Flag	Limit	Units_	Method	Analyzed	Analys
NYSDEC - SW8463 8260/5 ML						-	
1,1,1-Trichloroethane	ND		5	UG/L	8260	09/15/2008 19:40	LH
1,1,2,2-Tetrachloroethane	ND		5	UG/L	8260	09/15/2008 19:40	LH
1,1,2-Trichloroethane	ND		5	UG/L	8260	09/15/2008 19:40	LH
1,1-Dichloroethane	ND		5	UG/L	8260	09/15/2008 19:40	
1,1-Dichloroethene	ND		5	UG/L	8260	09/15/2008 19:40	
1,2-Dichloroethane	ND		5	UG/∟	8260	09/15/2008 19:40	LH
1,2-Dichloroethene (Total)	2	J	10	UG/L	8260	09/15/2008 19:40	LH
1,2-Dichloropropane	ND		5	UG/L	8260	09/15/2008 19:40	LH
2~Butanone	ND		25	UG/L	8260	09/15/2008 19:40	LH
2-Hexanone	ND		25	UG/L	8260	09/15/2008 19:40	
4-Methyl-2-pentanone	ND		25	UG/L	8260	09/15/2008 19:40	
Acetone	ND		25	UG/L	8260	09/15/2008 19:40	
Benzene	140	E	5	UG/L	8260	09/15/2008 19:40	
Bromodichloromethane	ND		5	UG/L	8260	09/15/2008 19:40	
Bromoform	ND		5	υG/L	8260	09/15/2008 19:40	
Bromomethane	ND		5	UG/L	8260	09/15/2008 19:40	
Carbon Disulfide	ND		5	UG/L	8260	09/15/2008 19:40	
Carbon Tetrachloride	ND		5	UG/L	8260	09/15/2008 19:40	
Chlorobenzene	ND		5	UG/L	8260	09/15/2008 19:40	
Chloroethane	ND		5	UG/L	8260	09/15/2008 19:40	
Chloroform	0.4	J	5	UG/L	8260	09/15/2008 19:40	
Chloromethane	ND		5	UG/L	8260	09/15/2008 19:40	
cis-1,3-Dichloropropene	ND		5	υG/∟	8260	09/15/2008 19:40	
Dibromochloromethane	ND		5	UG/L	8260	09/15/2008 19:40	
Ethylbenzene	ND		5	UG/∟	8260	09/15/2008 19:40	
Methylene chloride	ND		5	UG/L	8260	09/15/2008 19:40	
Styrene	ND		5	UG/L	8260	09/15/2008 19:40	
Tetrachloroethene	ND		5	UG/L	8260	09/15/2008 19:40	
Toluene	ND		5	UG/L	8260	09/15/2008 19:40	
Total Xylenes	ND		15	UG/L	8260	09/15/2008 19:40	
trans-1,3-Dichloropropene	ND		5	UG/L	8260	09/15/2008 19:40	
Trichloroethene	ND		5	UG/∟	8260	09/15/2008 19:40	
Vinyl acetate	ND		25	UG/L	8260	09/15/2008 19:40	
Vinyl chloride	3	J	5	UG/∟	8260	09/15/2008 19:40	
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
1,2,4-Trimethylbenzene	ND		0.20	UG/L	8021	09/08/2008 15:57	TMF
1,3,5-Trimethylbenzene	ND		0.20	UG/L	8021	09/08/2008 15:57	TMF
Benzene	110		0.20	UG/L	8021	09/08/2008 15:57	TMF
Ethylbenzene	ND		0.20	UG/L	8021	09/08/2008 15:57	TMF
Isopropylbenzene	ND		0.20	UG/L	8021	09/08/2008 15:57	TMF
m-Xylene	ND		0.40	UG/∟	8021	09/08/2008 15:57	TMF
Methyl-t-Butyl Ether (MTBE)	ND		0.40	UG/L	8021	09/08/2008 15:57	TMF
n-Butylbenzene	ND		0.40	UG/L	8021	09/08/2008 15:57	TMF
n-Propylbenzene	ND		0.20	UG/L	8021	09/08/2008 15:57	TMF
o-Xylene	ND		0.20	UG/L	8021	09/08/2008 15:57	TMF
p-Cymene	ND		0.40	UG/L	8021	09/08/2008 15:57	TMF
p-Xylene	ND		0.40	UG/L	8021	09/08/2008 15:57	TMF
sec-Butylbenzene	ND		0.40	UG/L	8021	09/08/2008 15:57	TMF

NYSDEC

10/13

Page: 2 Rept: AN1178

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441

Sample ID: POST-CARBON Lab Sample ID: A8A87001 Date Collected: 09/05/2008

Time Collected: 14:35

Date Received: 09/05/2008 Project No: NY5A946109 Client No: L10190

A STATE OF THE PARTY OF THE PAR							
			Detection			Date/Time	
Parameter	Result	<u>Flag</u>	Limit	<u>Units</u>	<u>Method</u>	Analyzed	<u>Analyst</u>
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
Toluene	ND		0.20	UG/L	8021	09/08/2008 15:57	' TMF
Total Xylenes	ND		0.60	UG/L	8021	09/08/2008 15:53	TMF
Metals Analysis							
Iron - Total	1080		50.0	UG/L	200.7	09/09/2008 21:2	5 AH
Wet Chemistry Analysis							
Cyanide - Total	0.47		0.010	MG/L	335.4	09/13/2008 09:25	JM
рН	7.1		0.50	s.u.	4500-H+ B	09/05/2008 20:10) RJP

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT
NYSDEC - Gastown WWTP: Spill# 9213441

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Page: 3 Rept: AN1178

Sample ID: POST-CARBON
Lab Sample ID: A8A87001DL
Date Collected: 09/05/2008
Time Collected: 14:35

Date Received: 09/05/2008 Project No: NY5A946109 Client No: L10190

				Detection			Date/Time	
1,1,1-Trichloroethane	Parameter	Result	Flag	Limit	Units	Method	Analyzed	Analyst
1,1,2,2-Tetrachloroethane	NYSDEC - SW8463 8260/5 ML							
1,1,2-Trichloroethane	1,1,1-Trichloroethane	ND		10	UG/L	8260	09/16/2008 01:07	CDC
1,1-Dichloroethane	1,1,2,2-Tetrachloroethane	ND		10	UG/L	8260	09/16/2008 01:07	CDC
1,1-Dichloroethane	1,1,2-Trichloroethane	ND		10	UG/∟	8260	09/16/2008 01:07	CDC
1,2-Dichloroethane	1,1-Dichloroethane	ND		10	UG/∟	8260	09/16/2008 01:07	CDC
1,2-Dichloroethene (Total) 2 DJ 20 Ue/L 8260 09/16/2008 01:07 CDC 1,2-Dichloropropane ND 10 Ue/L 8260 09/16/2008 01:07 CDC C	1,1-Dichloroethene	ND		10	UG/L	8260	09/16/2008 01:07	CDC
1,2-Dichloropropane	1,2-Dichloroethane	ND		10	UG/L	8260	09/16/2008 01:07	CDC
2-Butanone ND	1,2-Dichloroethene (Total)	2	DJ	20	UG/L	8260	09/16/2008 01:07	CDC
2-Hexanone	1,2-Dichloropropane	ND		10	UG/L	8260	09/16/2008 01:07	CDC
4-Methyl-2-pentanone ND 50 Ug/L 8260 09/16/2008 01:07 CDC Acetone ND 50 Ug/L 8260 09/16/2008 01:07 CDC Benzene 140 D 10 Ug/L 8260 09/16/2008 01:07 CDC Bromodichloromethane ND 10 Ug/L 8260 09/16/2008 01:07 CDC Bromomethane ND 10 Ug/L 8260 09/16/2008 01:07 CDC Bromomethane ND 10 Ug/L 8260 09/16/2008 01:07 CDC Carbon Disulfide ND 10 Ug/L 8260 09/16/2008 01:07 CDC Carbon Tetrachloride ND 10 Ug/L 8260 09/16/2008 01:07 CDC Chlorobenzene ND 10 Ug/L 8260 09/16/2008 01:07 CDC Chlorobenzene ND 10 Ug/L 8260 09/16/2008	2-Butanone	ND		50	UG/L	8260	09/16/2008 01:07	CDC
Acetone	2-Hexanone	ND		50	UG/L	8260	09/16/2008 01:07	CDC
Benzene	4-Methyl-2-pentanone	ND		50	UG/L	8260	09/16/2008 01:07	CDC
Bromodichloromethane ND 10 Ug/L 8260 09/16/2008 01:07 CDC Bromoform ND 10 UG/L 8260 09/16/2008 01:07 CDC Bromomethane ND 10 Ug/L 8260 09/16/2008 01:07 CDC Carbon Disulfide ND 10 Ug/L 8260 09/16/2008 01:07 CDC Carbon Tetrachloride ND 10 Ug/L 8260 09/16/2008 01:07 CDC Chlorobenzene ND 10 Ug/L 8260 09/16/2008 01:07 CDC Chloroethane ND 10 Ug/L 8260 09/16/2008 01:07 CDC Chloromethane ND 10 Ug/L 8260 09/16/2008 01:07 CDC Chloromethane ND 10 Ug/L 8260 09/16/2008 01:07 CDC Cis-1,3-Dichloropropene ND 10 Ug/L 8260 09/16/2008 01:07 CDC Ethylbenzene ND 10 Ug/L 8260 <t< td=""><td>Acetone</td><td>ND</td><td></td><td>50</td><td>UG/L</td><td>8260</td><td>09/16/2008 01:07</td><td>CDC</td></t<>	Acetone	ND		50	UG/L	8260	09/16/2008 01:07	CDC
Bromoform ND 10 UG/L 8260 09/16/2008 01:07 CDC Bromomethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Carbon Disulfide ND 10 UG/L 8260 09/16/2008 01:07 CDC Carbon Tetrachloride ND 10 UG/L 8260 09/16/2008 01:07 CDC Chlorobenzene ND 10 UG/L 8260 09/16/2008 01:07 CDC Chloroethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Chloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Chloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Cis-1,3-Dichloropropene ND 10 UG/L 8260 09/16/2008 01:07 CDC Dibromochloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Ethylbenzene ND 10 UG/L 8260 <t< td=""><td>Benzene</td><td>140</td><td>D</td><td>10</td><td>UG/L</td><td>8260</td><td>09/16/2008 01:07</td><td>CDC</td></t<>	Benzene	140	D	10	UG/L	8260	09/16/2008 01:07	CDC
Bromomethane ND 10 Ug/L 8260 09/16/2008 01:07 CDC Carbon Disulfide ND 10 Ug/L 8260 09/16/2008 01:07 CDC Carbon Tetrachloride ND 10 Ug/L 8260 09/16/2008 01:07 CDC Chlorobenzene ND 10 Ug/L 8260 09/16/2008 01:07 CDC Chloroethane ND 10 Ug/L 8260 09/16/2008 01:07 CDC Chloroform ND 10 Ug/L 8260 09/16/2008 01:07 CDC Chloromethane ND 10 Ug/L 8260 09/16/2008 01:07 CDC Chloromethane ND 10 Ug/L 8260 09/16/2008 01:07 CDC Cis-1,3-Dichloropropene ND 10 Ug/L 8260 09/16/2008 01:07 CDC Ethylbenzene ND 10 Ug/L 8260 09/16/2008 01:07 CDC Methylene chloride ND 10 Ug/L 8260 <td< td=""><td>Bromodichloromethane</td><td>ND</td><td></td><td>10</td><td>UG/L</td><td>8260</td><td>09/16/2008 01:07</td><td>CDC</td></td<>	Bromodichloromethane	ND		10	UG/L	8260	09/16/2008 01:07	CDC
Carbon Disulfide ND 10 UG/L 8260 09/16/2008 01:07 cpc Cpc Carbon Tetrachloride ND 10 UG/L 8260 09/16/2008 01:07 cpc Cpc Chlorobenzene ND 10 UG/L 8260 09/16/2008 01:07 cpc Cpc Chloroethane ND 10 UG/L 8260 09/16/2008 01:07 cpc Cpc Chloromethane ND 10 UG/L 8260 09/16/2008 01:07 cpc Cpc Cis-1,3-Dichloropropene ND 10 UG/L 8260 09/16/2008 01:07 cpc Cpc Dibromochloromethane ND 10 UG/L 8260 09/16/2008 01:07 cpc Cpc Ethylbenzene ND 10 UG/L 8260 09/16/2008 01:07 cpc Cpc Methylene chloride ND 10 UG/L 8260 09/16/2008 01:07 cpc Cpc Styrene ND 10 UG/L 8260 09/16/2008 01:07 cpc Cpc Tetrachloroethene ND 10	Bromoform	ND		10	UG/L	8260	09/16/2008 01:07	CDC
Carbon Tetrachloride ND 10 UG/L 8260 09/16/2008 01:07 CDC Chlorobenzene ND 10 UG/L 8260 09/16/2008 01:07 CDC Chloroethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Chloroform ND 10 UG/L 8260 09/16/2008 01:07 CDC Chloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Cis-1,3-Dichloropropene ND 10 UG/L 8260 09/16/2008 01:07 CDC Dibromochloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Ethylbenzene ND 10 UG/L 8260 09/16/2008 01:07 CDC Methylene chloride ND 10 UG/L 8260 09/16/2008 01:07 CDC Styrene ND 10 UG/L 8260 09/16/2008 01:07 <td>Bromomethane</td> <td>ND</td> <td></td> <td>10</td> <td>UG/∟</td> <td>8260</td> <td>09/16/2008 01:07</td> <td>CDC</td>	Bromomethane	ND		10	UG/∟	8260	09/16/2008 01:07	CDC
Chlorobenzene ND 10 UG/L 8260 09/16/2008 01:07 CDC Chloroethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Chloroform ND 10 UG/L 8260 09/16/2008 01:07 CDC Chloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Cis-1,3-Dichloropropene ND 10 UG/L 8260 09/16/2008 01:07 CDC Dibromochloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Ethylbenzene ND 10 UG/L 8260 09/16/2008 01:07 CDC Methylene chloride ND 10 UG/L 8260 09/16/2008 01:07 CDC Styrene ND 10 UG/L 8260 09/16/2008 01:07 CDC Tetrachloroethene ND 10 UG/L 8260 09/16/2008 01:07 CDC Total Xylenes ND 30 UG/L 8260 09/	Carbon Disulfide	ND		10	UG/L	8260	09/16/2008 01:07	CDC
Chloroethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Chloroform ND 10 UG/L 8260 09/16/2008 01:07 CDC Chloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC cis-1,3-Dichloropropene ND 10 UG/L 8260 09/16/2008 01:07 CDC Dibromochloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Ethylbenzene ND 10 UG/L 8260 09/16/2008 01:07 CDC Methylene chloride ND 10 UG/L 8260 09/16/2008 01:07 CDC Styrene ND 10 UG/L 8260 09/16/2008 01:07 CDC Tetrachloroethene ND 10 UG/L 8260 09/16/2008 01:07 CDC Total Xylenes ND 30 UG/L 8260 09/16/2008 01:07 CDC Trichloroethene ND 10 UG/L 8260 0	Carbon Tetrachloride	ND		10	UG/L	8260	09/16/2008 01:07	CDC
Chloroform ND 10 UG/L 8260 09/16/2008 01:07 CDC Chloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC cis-1,3-Dichloropropene ND 10 UG/L 8260 09/16/2008 01:07 CDC Dibromochloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Ethylbenzene ND 10 UG/L 8260 09/16/2008 01:07 CDC Methylene chloride ND 10 UG/L 8260 09/16/2008 01:07 CDC Styrene ND 10 UG/L 8260 09/16/2008 01:07 CDC Tetrachloroethene ND 10 UG/L 8260 09/16/2008 01:07 CDC Total Xylenes ND 10 UG/L 8260 09/16/2008 01:07 CDC Trichloroethene ND 30 UG/L 8260 09/16/2008 01:07 CDC Trichloroethene ND 10 UG/L 8260 <t< td=""><td>Chlorobenzene</td><td>ND</td><td></td><td>10</td><td>UG/L</td><td>8260</td><td>09/16/2008 01:07</td><td>CDC</td></t<>	Chlorobenzene	ND		10	UG/L	8260	09/16/2008 01:07	CDC
Chloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC cis-1,3-Dichloropropene ND 10 UG/L 8260 09/16/2008 01:07 CDC Dibromochloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Ethylbenzene ND 10 UG/L 8260 09/16/2008 01:07 CDC Methylene chloride ND 10 UG/L 8260 09/16/2008 01:07 CDC Styrene ND 10 UG/L 8260 09/16/2008 01:07 CDC Tetrachloroethene ND 10 UG/L 8260 09/16/2008 01:07 CDC Total Xylenes ND 10 UG/L 8260 09/16/2008 01:07 CDC trans-1,3-Dichloropropene ND 10 UG/L 8260 09/16/2008 01:07 CDC Trichloroethene ND 10 UG/L 8260 09/16/2008 01:07 CDC Vinyl acetate ND 50 UG/L 8260 <td>Chloroethane</td> <td>ND</td> <td></td> <td>10</td> <td>UG/L</td> <td>8260</td> <td>09/16/2008 01:07</td> <td>CDC</td>	Chloroethane	ND		10	UG/L	8260	09/16/2008 01:07	CDC
cis-1,3-Dichloropropene ND 10 UG/L 8260 09/16/2008 01:07 CDC Dibromochloromethane ND 10 UG/L 8260 09/16/2008 01:07 CDC Ethylbenzene ND 10 UG/L 8260 09/16/2008 01:07 CDC Methylene chloride ND 10 UG/L 8260 09/16/2008 01:07 CDC Styrene ND 10 UG/L 8260 09/16/2008 01:07 CDC Tetrachloroethene ND 10 UG/L 8260 09/16/2008 01:07 CDC Total Xylenes ND 10 UG/L 8260 09/16/2008 01:07 CDC Trichloroethene ND 30 UG/L 8260 09/16/2008 01:07 CDC Trichloroethene ND 10 UG/L 8260 09/16/2008 01:07 CDC Vinyl acetate ND 50 UG/L 8260 09/16/2008 01:07 CDC	Chloroform	ND		10	UG/L	8260	09/16/2008 01:07	CDC
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Vinyl acetate ND 50 UG/L 8260 09/16/2008 01:07 CDC	trans-1,3-Dichloropropene	ND	•	10	UG/L	8260	09/16/2008 01:07	CDC
	Trichloroethene	ND		10	UG/L	8260		CDC
Vinyl chloride 2 pJ 10 UG/L 8260 09/16/2008 01:07 CDC	Vinyl acetate	ND		50	UG/L	8260	09/16/2008 01:07	CDC
	Vinyl chloride	2	DJ	10	UG/L	8260	09/16/2008 01:07	CDC

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT
NYSDEC - Gastown WWTP: Spill# 9213441

12/13

Page: 4 Rept: AN1178

Sample ID: PRE-CARBON Lab Sample ID: A8A87002 Date Collected: 09/05/2008 Time Collected: 14:30 Date Received: 09/05/2008 Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	
Parameter	Result	Flag	Limit	Units	Me thod	Analyzed	Analyst
Metals Analysis							
Calcium - Total	176000		500	UG/L	200.7	09/09/2008 21:30	AH
Iron - Total	1160		50.0	UG/L	200.7	09/09/2008 21:30	AH
Magnesium - Total	96800		200	UG/L	200.7	09/09/2008 21:30	АН
Potassium - Total	5920		500	UG/L	200.7	09/09/2008 21:30	АН
Sodium - Total	90400		1000	UG/L	200.7	09/09/2008 21:30	АН
Wet Chemistry Analysis							
Chloride	171		2.5	MG/L	300.0	09/17/2008 14:27	AEG
Sulfate	195		10	MG/L	300.0	09/17/2008 14:27	AEG
Total Alkalinity	511		100	MG/∟	310.2	09/08/2008 19:21	RLG

Chain of Custody Record

Temperature on Receipt _____



Drinking Water? Yes □ No 🗷

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)																											
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ANALYTICAL REPORT

Job#: A08-C198

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT Task: NYSDEC - Gastown WWTP: Spill# 9213441

Mr. Glenn May NYSDEC - Region 9 270 Michigan Ave Buffalo, NY 14203

CC: Mr. Charles B. Guzzetta

TestAmerica Laboratories Inc.

Brian(J) Fischer Project Manager

10/16/2008



TestAmerica Buffalo Current Certifications

As of 6/15/2007

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

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

SAMPLE SUMMARY

			SAMPI	LED	RECEIVE	ED .
LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE	TIME	DATE	TIME
A8C19801	POST-CARBON	GW	10/03/2008	14:00	10/03/2008	15:00
A8C19802	PRE-CARBON	GW	10/03/2008	13:55	10/03/2008	15:00

METHODS SUMMARY

Job#: A08-C198

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

	ANALYTICAL
PARAMETER	METHOD
NYSDEC - SW8463 8260/5 ML	SW8463 8260
METHOD 8021 - VOLATILE ORGANICS - STARS	SW8463 8021
Calcium - Total Iron - Total Magnesium - Total Potassium - Total Sodium - Total	MCAWW 200.7 MCAWW 200.7 MCAWW 200.7 MCAWW 200.7 MCAWW 200.7
Chloride Cyanide - Total pH Sulfate Total Alkalinity	MCAWW 300.0 MCAWW 335.4 SM20 4500-H+ B MCAWW 300.0 MCAWW 310.2

References:

MCAWW	"Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar
	1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-
	92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM20 "Standard Methods for the Examination of Water and Wastewater", 20th Edition.

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: A08-C198

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

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. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-C198

Sample Cooler(s) were received at the following temperature(s); 3.6 °C All samples were received in good condition.

GC/MS Volatile Data

The analyte Tetrachloroethene was detected in the Method Blank VBLK83, but at a level below the project established reporting limit. The analyte was also detected in the associated sample but at a level below the project established reporting limit. No corrective action is required.

GC Volatile Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

Sample POST-CARBON was received and analyzed within the EPA-recommended holding time for pH. However the quality control standards were biased high. The sample was reanalyzed outside of holding time. Both sets of results are reported.

The recovery of sample POST-CARBON Matrix Spike exhibited results above the quality control limits for Total Cyanide. However, the LCS was acceptable.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Brian J. Fischer Project Manager

10-11-08

Date

Dilution Log w/Code Information For Job A08-C198

7/13 Page:

Rept: AN1266R

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	<u>Code</u>
PRE-CARBON	A8C19802	Chloride	5.00	800
PRE-CARBON	A8C19802	Sulfate	5.00	800
PRE-CARBON	A8C19802	Total Alkalinity	10.00	800

Dilution Code Definition:

002 - sample matrix effects

003 - excessive foaming

004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

Sample ID: POST-CARBON Lab Sample ID: A8C19801

Time Collected: 14:00

Date Collected: 10/03/2008

NYSDEC - Gastown WWTP: Spill# 9213441

Date Received: 10/03/2008 Project No: NY5A946109 Client No: L10190

9/13 Page:

Rept: AN1178

Site No:

			Detection			Date/Time	
Parameter	Result	<u>Flag</u>	Limit	Units	Method	Analyzed	Analys
NYSDEC - SW8463 8260/5 ML							
1,1,1-Trichloroethane	ND		5	UG/L	8260	10/14/2008 16:45	TRB
1,1,2,2-Tetrachloroethane	ND		5	UG/L	8260	10/14/2008 16:45	
1,1,2-Trichloroethane	ND		5	UG/L	8260	10/14/2008 16:45	
1,1-Dichloroethane	ND		5	VG/L	8260	10/14/2008 16:45	
1,1-Dichloroethene	ND		5	UG/L	8260	10/14/2008 16:45	
1,2-Dichloroethane	ND		5	UG/L	8260	10/14/2008 16:45	
1,2-Dichloroethene (Total)	ND		10	UG/L	8260	10/14/2008 16:45	
1,2-Dichloropropane	ND		5	UG/L	8260	10/14/2008 16:45	
2-Butanone	ND		25	UG/L	8260	10/14/2008 16:45	
2-Hexanone	ND		25	UG/L	8260	10/14/2008 16:45	
4-Methyl-2-pentanone	ND		25	UG/L	8260	10/14/2008 16:45	
Acetone	ND		25	UG/L	8260	10/14/2008 16:45	
Benzene	ND		5	UG/L	8260	10/14/2008 16:45	
Bromodichloromethane	ND		5	UG/L	8260	10/14/2008 16:45	
Bromoform	ND		5	UG/L	8260	10/14/2008 16:45	
Bromomethane	ND		5	UG/L	8260	10/14/2008 16:45	
Carbon Disulfide	ND		5	UG/L	8260	10/14/2008 16:45	
Carbon Tetrachloride	ND		5	UG/L	8260	10/14/2008 16:45	
Chlorobenzene	ND		5	UG/L	8260	10/14/2008 16:45	
Chloroethane	ND		5	UG/L	8260	10/14/2008 16:45	
Chloroform	ND		5	UG/L	8260	10/14/2008 16:45	
Chloromethane	ND		5	UG/L	8260	10/14/2008 16:45	
cis-1,3-Dichloropropene	ND		5	UG/L	8260	10/14/2008 16:45	
Dibromochloromethane	ND		5	UG/L	8260	10/14/2008 16:45	
Ethylbenzene	ND		5	UG/L	8260	10/14/2008 16:45	
Methylene chloride	ND		5 .	UG/L	8260	10/14/2008 16:45	
Styrene	ND		5	UG/L	8260	10/14/2008 16:45	
Tetrachloroethene	0.6	ВJ	5	UG/L	8260	10/14/2008 16:45	
Toluene	ND	DV	5	UG/L	8260	10/14/2008 16:45	
Total Xylenes	ND		15	UG/L	8260	10/14/2008 16:45	
trans-1,3-Dichloropropene	ND		5	UG/L	8260	10/14/2008 16:45	
Trichloroethene	ND		5	UG/L	8260	10/14/2008 16:45	
Vinyl acetate	ND		25	UG/L	8260	10/14/2008 16:45	
Vinyl chloride	1	j	5	UG/L	8260	10/14/2008 16:45	
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA				·			
1,2,4-Trimethylbenzene	ND		0.20	UG/L	8021	10/05/2008 14:02	I MIT
1,3,5-Trimethylbenzene	ND ND			∪G/L UG/L	8021	10/05/2008 14:02	
	ND ND		0.20	UG/L		10/05/2008 14:02	
Benzene	ND		0.20		8021		
Ethylbenzene	ND		0.20	UG/L	8021	10/05/2008 14:02	
Isopropylbenzene	ND		0.20	UG/L	8021	10/05/2008 14:02	
m-Xylene	ND		0.40	UG/L	8021	10/05/2008 14:02	
Methyl-t-Butyl Ether (MTBE)	ND		0.40	UG/L	8021	10/05/2008 14:02	
n-Butylbenzene	ND		0.40	VG/L	8021	10/05/2008 14:02	
n-Propylbenzene	ND		0.20	UG/L	8021	10/05/2008 14:02	
o-Xylene	ND		0.20	UG/L	8021	10/05/2008 14:02	
p-Cymene	ND		0.40	UG/L	8021	10/05/2008 14:02	
p-Xylene	NÐ		0.40	U6/L	8021	10/05/2008 14:02	
sec-Butylbenzene	NĐ		0.40	UG/L	8021	10/05/2008 14:02	LMW

TestAmerica

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

NYSDEC - Gastown WWTP: Spill# 9213441

Date Received: 10/03/2008

Project No: NY5A946109

10/13 Page:

Rept: AN1178

Client No: L10190

Site No:

Sample ID: POST-CARBON
Lab Sample ID: A8C19801
Date Collected: 10/03/2008
Time Collected: 14:00

			Detection			Date/Time	
Parameter	Result	Flag	<u> Limit</u>	Units	Method	Analyzed	Analyst
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
Toluene	ND		0.20	UG/L	8021	10/05/2008 14:02	LMM
Total Xylenes	ΝĐ		0.60	UG/∟	8021	10/05/2008 14:02	LMW
Metals Analysis							
Iron - Yotal	151		50.0	UG/L	200.7	10/08/2008 20:12	АН
Wet Chemistry Analysis							
Cyanide - Total	0.24		0.010	MG/L	335.4	10/07/2008 08:35	ERK
рH	7.8		0.50	s.v.	4500-H+ B	10/03/2008 21:21	RK

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

NYSDEC - Gastown WWTP: Spill# 9213441

11/13 Page:

Rept: AN1178

Date Received: 10/03/2008

Project No: NY5A946109 Client No: L10190

Site No:

Sample ID: POST-CARBON
Lab Sample ID: A8C19801RE
Date Collected: 10/03/2008
Time Collected: 14:00

			Detection			—Date/Time—	
Parameter	Result	Flag	<u>Limi</u> t	Units	Me thod	Analyzed	Analyst
Wet Chemistry Analysis							
рН	7.8		0.50	s.u.	4500−H+ B	10/07/2008 10:57	KD

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

NYSDEC - Gastown WWTP: Spill# 9213441

Date Received: 10/03/2008

Project No: NY5A946109 Client No: L10190

Rept: AN1178

Site No:

Sample ID: PRE-CARBON
Lab Sample ID: A8C19802
Date Collected: 10/03/2008
Time Collected: 13:55

			Detection			Date/Time	
Parameter	Result	Flag	Limit	Units	Method	Analyzed	Analyst
Metals Analysis							
Calcium - Total	131000		500	UG/L	200.7	10/08/2008 20:17	ΑH
Iron - Total	1050		50.0	UG/L	200.7	10/08/2008 20:17	АН
Magnesium - Total	67400		200	UG/L	200.7	10/08/2008 20:17	АН
Potassium - Total	4690		500	UG/L	200.7	10/08/2008 20:17	АН
Sodium - Total	64900		1000	UG/L	200.7	10/08/2008 20:17	AH
Wet Chemistry Analysis							
Chloride	127		2.5	MG/L	300.0	10/13/2008 15:39	AEG
Sulfate	148		10	MG/L	300.0	10/13/2008 15:39	AEG
Total Alkalinity	410		100	MG/L	310.2	10/08/2008 18:29	RL6

Chain of **Custody Record**

Temperature on Receipt



TAL-4124 (1007)		Drinki	ing V	Nate	9r?	Yes	s 🗌	No	X			THE	ELE	EADI	ERI	IN E	NV	IRO	MM	EN	ΓAL	TE	STING	ì		
ART KOSKE	4-4-4	Project	Man	ager														1 "	ate	,	マ	- 2	ි පි		Chain of Custody I	Number B 1 6
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City State Zip	Code	Site Co	ntaci	t			L	ab C	ontaci	<u> </u>							Ar mo	nalys re s	is (/	Atta	ch la nee	ist ii dec	F ()			
Project Name and Location (State) NYS DZC - CASTOWN Contract/Purchase Order/Quote No.		Carrier	Way	bill N	lumbe	er								3				_	20.0	4					Special	Instructions/
Contract/Purchase Order/Quote No.				A	fatrix					ntaine serve				META	66) 4	3 C K		· ·		3	3		Condition	ns of Receipt
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Ą	Aqueous	Sed.	Soil	1	Unpres.	HNO3	FC	NaOH	ZnAc/ NaOH		7.	1	0	SO	7.4	GAS	72.7	7 7					
PRE CARBON	10-3-08	13:55		×					1				_	х	х											
PRE CARBON	10-3-08	13:55		×	_		1			<u> </u>						x	X									· · · · · · · · · · · · · · · · · · ·
PRE CANBON	10-3-08	1325 <u>5</u>		×			i			ļ			-					X				_				
POST CARBON	10-3-08	14:00		×					1	8									X	X						
POST CARBON	10-3-08	14:00		×			1														×					
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant Turn Around Time Required	☐ Poison B ☐	Unknown		,	e Disi				Dispo			ab		Archi	ve F	or _			Mon	ths			may be a than 1 m		sed if samples are	retained
24 Hours 48 Hours 7 Days 14 Da	ys 🗌 21 Days		er										• •													
the		Date 10-3	3-0 <u>.</u>	8	1	514	Ö		Rece	\bigcup	m	7/2	ዾረ		X	Д	sa	se l	1						Date 10.3.08	Time
2. Relinquished By		Date		٠	Tim	ie		2.	Rece	ived i	Зу		·	-					_						Date	Time
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TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Job#: A08-F998

Project#: NY5A946109

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT
Task: NYSDEC - Gastown WWTP: Spill# 9213441

Mr. Glenn May NYSDEC - Region 9 270 Michigan Ave Buffalo, NY 14203

CC: Mr. Charles B. Guzzetta

TestAmerica Laboratories Inc.

Brian S Fischer Project Manager

01/08/2009



TestAmerica Buffalo Current Certifications

As of 11/3/2008

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

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

SAMPLE SUMMARY

			SAMPI	LED	RECEIV	${f 3D}$
LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE	TIME	DATE	TIME
A8F99801	POST-CARBON	GW	12/17/2008	11:30	12/17/2008	13:20
A8F99802	PRE-CARBON	GW	12/17/2008	11:20	12/17/2008	13:20

METHODS SUMMARY

Job#: <u>A08-F998</u>

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

PARAMETER		ALYTICAL METHOD
NYSDEC - SW8463 8260/5 ML	SW8463	8260
METHOD 8021 - VOLATILE ORGANICS - STARS	SW8463	8021
NYSDEC - METHOD 8270 Gastown	SW8463	8270
GASTOWN - METHOD 608 - P.P. PESTICIDES	CFR136	608PEST
Arsenic - Total	MCAWW	200.7
Calcium - Total	MCAWW	200.7
Iron - Total	MCAWW	200.7
Magnesium - Total	MCAWW	200.7
Manganese - Total	MCAWW	200.7
Potassium - Total	MCAWW	
Sodium - Total	MCAWW	
Zinc - Total	MCAWW	200.7
Biochemical Oxygen Demand	SM20	5210B
Chloride	MCAWW	300.0
Cyanide - Total	MCAWW	335.4
Oil & Grease	MCAWW	1664
рн	SM20	4500-H+ B
Sulfate	MCAWW	300.0
Total Alkalinity	MCAWW	
Total Dissolved Solids	SM20	-
Total Recoverable Phenolics	MCAWW	
Total Suspended Solids	SM20	2540D

References:

CFR136 Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, and Appendix A-C; 40 CFR Part 136, USEPA Office

of Water.

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-

92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM20 "Standard Methods for the Examination of Water and Wastewater", 20th Edition.

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

SDG NARRATIVE

Job#: <u>A08-F998</u>

Project#: <u>NY5A946109</u>

Site Name: NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

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. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-F998

Sample Cooler(s) were received at the following temperature(s); 4.3 °C All samples were received in good condition.

GC/MS Volatile Data

The analytes Acetone and 2-Butanone were detected in the dilution for sample Post-Carbon. The dilution process involves additional manipulation of the sample, therefore, the sample detections for Acetone and 2-Butanone in the dilution may potentially be due to laboratory contamination and should be evaluated accordingly.

GC Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC/MS Semivolatile Data

The analyte Indene was searched for as a tentatively identified compound (TIC).

GC Extractable Data

No deviations from protocol were encountered during the analytical procedures.

<u>Metals Data</u>

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this Sample Data package and in the electronic data deliverables has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature."

Brian J. Fischer Project Manager

1-9-08

Date

Date: 01/08/2009 Time: 15:46:39

Dilution Log w/Code Information For Job A08-F998

8/18

Page:

Rept: AN1266R

Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	<u>Dilution</u>	Code
POST-CARBON	A8F99801	8021	20.00	800
POST-CARBON	A8F99801DL	8260	4.00	800
PRE-CARBON	A8F99802	8021	500.00	800
PRE-CARBON	A8F99802	8260	100.00	800
PRE-CARBON	A8F99802	Chloride	2.00	800
PRE-CARBON	A8F99802	Sulfate	2.00	800
PRE-CARBON	A8F99802	Total Alkalinity	5.00	800
PRE-CARBON	A8F99802MS	8021	500.00	800
PRE-CARBON	A8F99802SD	8021	500.00	800

Dilution Code Definition:

002 - sample matrix effects

003 - excessive foaming

004 - high levels of non-target compounds

005 - sample matrix resulted in method non-compliance for an Internal Standard

006 - sample matrix resulted in method non-compliance for Surrogate

007 - nature of the TCLP matrix

008 - high concentration of target analyte(s)

009 - sample turbidity

010 - sample color

011 - insufficient volume for lower dilution

012 - sample viscosity

013 - other

Date: 01/08/2009

Requested Reporting Limits < Lab PQL

Time: 15:46:41

Page:

: 1

Rept: AN1520

The requested project specific reporting limits listed below were less than lab standard quantitation limits but greater than or equal to lab MDL. It must be noted that results reported below lab standard quantitation limit (PQL) may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Parameter	<u>Unit</u>	Client RL	Lab PQL	
420.4	Total Recoverable Phenolics	MG/L	0.0050	0.010	



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Date: 01/08/2009 Time: 15:46:52

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441 11/18

Page: 1 Rept: AN1178

TestAmerica

Sample ID: POST-CARBON Lab Sample ID: A8F99801 Date Collected: 12/17/2008 Time Collected: 11:30 Date Received: 12/17/2008 Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	
Parameter	Result	Flag	Limit	Units	Method	Analyzed	Analyst
NYSDEC - SW8463 8260/5 ML							
1,1,1-Trichloroethane	ND		5	UG/L	8260	12/24/2008 17:47	DHC
1,1,2,2-Tetrachloroethane	ND		5	UG/L	8260	12/24/2008 17:47	DHC
1,1,2-Trichloroethane	ND		5	UG/L	8260	12/24/2008 17:47	DHC
1,1-Dichloroethane	ND		5	UG/L	8260	12/24/2008 17:47	DHC
1,1-Dichloroethene	ND		5	UG/L	8260	12/24/2008 17:47	DHC
1,2-Dichloroethane	ND		5	UG/L	8260	12/24/2008 17:47	DHC
1,2-Dichloroethene (Total)	2	J	10	UG/L	8260	12/24/2008 17:47	DHC
1,2-Dichloropropane	ND		5	UG/L	8260	12/24/2008 17:47	DHC
2-Butanone	ND		25	UG/L	8260	12/24/2008 17:47	DHC
2-Hexanone	ND		25	UG/L	8260	12/24/2008 17:47	DHC
4-Methyl-2-pentanone	ND		25	UG/L	8260	12/24/2008 17:47	DHC
Acetone	ND		25	UG/L	8260	12/24/2008 17:47	DHC
Benzene	240	E	5	UG/L	8260	12/24/2008 17:47	DHC
Bromodichloromethane	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Bromoform	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Bromome thane	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Carbon Disulfide	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Carbon Tetrachloride	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Chlorobenzene	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Chloroethane	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Chloroform	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Chloromethane	ND		5	UG/L	8260	12/24/2008 17:47	DHC
cis-1,3-Dichloropropene	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Dibromochloromethane	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Ethylbenzene	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Methylene chloride	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Styrene	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Tetrachloroethene	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Toluene	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Total Xylenes	ND		15	UG/L	8260	12/24/2008 17:47	DHC
trans-1,3-Dichloropropene	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Trichloroethene	ND		5	UG/L	8260	12/24/2008 17:47	DHC
Vinyl acetate	ND		25	UG/L	8260	12/24/2008 17:47	DHC
Vinyl chloride	0.6	J	5	UG/L	8260	12/24/2008 17:47	DHC
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
1,2,4-Trimethylbenzene	ND		0.69	UG/L	8021	12/26/2008 16:16	MAN
1,3,5-Trimethylbenzene	ND		0.59	UG/L	8021	12/26/2008 16:16	MAN
Benzene	240		0.47	UG/∟	8021	12/26/2008 16:16	
Ethylbenzene	ND		0.57	UG/L	8021	12/26/2008 16:16	
Isopropylbenzene	ND		0.54	UG/L	8021	12/26/2008 16:16	
m-Xylene	ND		1.1	UG/L	8021	12/26/2008 16:16	
Methyl-t-Butyl Ether (MTBE)	ND		0.87	UG/L	8021	12/26/2008 16:16	
n-Butylbenzene	ND		0.62	UG/∟	8021	12/26/2008 16:16	
n-Propylbenzene	ND		0.57	UG/L	8021	12/26/2008 16:16	
o-Xylene	ND		0.54	UG/L	8021	12/26/2008 16:16	
p-Cymene	ND		0.59	UG/L	8021	12/26/2008 16:16	
p-Xylene	ND		1.1	UG/L	8021	12/26/2008 16:16	
sec-Butylbenzene	ND ND		0.41	UG/L	8021	12/26/2008 16:16	
555 Bucy controlle	IIV		0.71	00, L	OUL I	12/20/2000 10:10	11/117

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441

12/18

Page: 2 Rept: AN1178

Sample ID: POST-CARBON
Lab Sample ID: A8F99801
Date Collected: 12/17/2008
Time Collected: 11:30

Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	_
Parameter	Result	<u>Flag</u>	Limit	Units	Method	Analyzed	Analys
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA							
Toluene	ND		0.71	UG/L	8021	12/26/2008 16:1	
Total Xylenes	ND		1.6	UG/L	8021	12/26/2008 16:1	6 MAN
NYSDEC - GASTOWN WWTP LIST/8270 - W							
2-Me thy Inaphthalene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Acenaphthene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Acenaphthylene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Anthracene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Benzo(a)anthracene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Benzo(a)pyrene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Benzo(b)fluoranthene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Benzo(ghi)perylene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Benzo(k)fluoranthene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Biphenyl	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Bis(2-ethylhexyl) phthalate	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Carbazole	ND		9.5	UG/L	8270	12/31/2008 17:5	
Chrysene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Dibenzo(a,h)anthracene	ND		9.5	UG/L	8270	12/31/2008 17:5	
Dibenzofuran	ND		9.5	UG/L	8270	12/31/2008 17:5	
Fluoranthene	ND		9.5	UG/L	8270	12/31/2008 17:5	
Fluorene	ND		9.5	UG/L	8270	12/31/2008 17:5	
Indene (TIC)	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Indeno(1,2,3-cd)pyrene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Naphthalene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Pentachlorophenol	ND		47	UG/L	8270	12/31/2008 17:5	2 JLG
Phenanthrene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
Phenol	4.8	J	47	UG/L	8270	12/31/2008 17:5	2 JLG
Pyrene	ND		9.5	UG/L	8270	12/31/2008 17:5	2 JLG
GASTOWN - AQUEOUS-CFR136 608 - P.P. PESTICIDE							
4,4'-DDD	ND		0.047	UG/L	608PEST	12/23/2008 15:0	6 ТСН
4,4'-DDE	ND		0.047	UG/L	608PEST	12/23/2008 15:0	6 тсн
4,4'-DDT	ND		0.047	UG/L	608PEST	12/23/2008 15:0	6 тсн
Aldrin	ND		0.047	UG/∟	608PEST	12/23/2008 15:0	6 ТСН
alpha-BHC	ND		0.047	UG/L	608PEST	12/23/2008 15:0	6 тсн
beta-BHC	ND		0.047	UG/L	608PEST	12/23/2008 15:0	6 тсн
Chlordane	ND		0.47	UG/L	608PEST	12/23/2008 15:0	6 ТСН
delta-BHC	0.020	J	0.047	UG/L	608PEST	12/23/2008 15:0	6 тсн
Dieldrin	ND		0.047	UG/L	608PEST	12/23/2008 15:0	6 тсн
Endosulfan I	ND		0.047	UG/L	608PEST	12/23/2008 15:0	6 тсн
Endosulfan II	ND		0.047	UG/L	608PEST	12/23/2008 15:0	6 тсн
Endosulfan Sulfate	ND		0.047	UG/∟	608PEST	12/23/2008 15:0	6 ТСН
Endrin	ND		0.047	UG/L	608PEST	12/23/2008 15:0	6 тсн
Endrin aldehyde	ND		0.047	UG/∟	608PEST	12/23/2008 15:0	
gamma-BHC (Lindane)	ND		0.047	UG/L	608PEST	12/23/2008 15:0	
Heptachlor	ND		0.047	UG/L	608PEST	12/23/2008 15:0	
Heptachlor epoxide	ND		0.047	υG/L	608PEST	12/23/2008 15:0	
· · · · · · · · · · · · · · · · · · ·			0.94	UG/L	608PEST	12/23/2008 15:0	

Date: 01/08/2009 Time: 15:46:52

NYSDEC

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NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT

NYSDEC - Gastown WWTP: Spill# 9213441

Date Received: 12/17/2008 Project No: NY5A946109 Client No: L10190 3

Page:

Rept: AN1178

Site No:

Sample ID: POST-CARBON Lab Sample ID: A8F99801 Date Collected: 12/17/2008 Time Collected: 11:30

		Detection			Date/Time	-
Parameter	<u>Result</u> <u>Flag</u>	Limit	Units	Method	Analyzed	Analyst
Metals Analysis						
Arsenic - Total	ND	10	UG/L	200.7	12/19/2008 05:30	C AH
Iron - Total	1250	50.0	UG/L	200.7	12/19/2008 05:30	HA C
Manganese - Total	248	3.0	UG/L	200.7	12/19/2008 05:30	C AH
Zinc - Total	19.2	10	UG/L	200.7	12/19/2008 05:30) AH
Wet Chemistry Analysis						
Biochemical Oxygen Demand	ND	2.0	MG/L	5210B	12/17/2008 13:00	RK
Cyanide - Total	0.41	0.010	MG/L	335.4	12/19/2008 11:50	3 LRM
Oil & Grease	ND	5.0	MG/L	1664	12/18/2008 09:08	B EJS
pН	7.6	0.50	s.u.	4500-H+ E	3 12/18/2008 11:20) KD
Total Dissolved Solids	982	10	MG/L	2540c	12/20/2008 15:35	5 MM
Total Recoverable Phenolics	0.0066	0.0050	MG/L	420.4	12/23/2008 11:00) KD
Total Suspended Solids	ND	4.0	MG/L	2540D	12/19/2008 11:50) MM

Date: 01/08/2009 Time: 15:46:52

NYSDEC

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L8 Page: 4 Rept: AN1178

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441

Sample ID: POST-CARBON
Lab Sample ID: A8F99801DL
Date Collected: 12/17/2008
Time Collected: 11:30

Project No: NY5A946109 Client No: L10190

			Detection			Date/Time	
Parameter	Result	Flag	Limit	Units	<u>Method</u>	Analyzed	Analysi
NYSDEC - SW8463 8260/5 ML							
1,1,1-Trichloroethane	ND		20	UG/L	8260	12/28/2008 17:18	ND
1,1,2,2-Tetrachloroethane	ND		20	UG/L	8260	12/28/2008 17:18	ND
1,1,2-Trichloroethane	ND		20	ug/∟	8260	12/28/2008 17:18	ND
1,1-Dichloroethane	ND		20	UG/L	8260	12/28/2008 17:18	ND
1,1-Dichloroethene	ND		20	UG/L	8260	12/28/2008 17:18	ND
1,2-Dichloroethane	ND		20	ue/∟	8260	12/28/2008 17:18	ND
1,2-Dichloroethene (Total)	ND		40	UG/L	8260	12/28/2008 17:18	ND
1,2-Dichloropropane	ND		20	UG/L	8260	12/28/2008 17:18	ND
2-Butanone	13	DJ	100	UG/L	8260	12/28/2008 17:18	ND
2-Hexanone	ND		100	UG/L	8260	12/28/2008 17:18	ND
4-Methyl-2-pentanone	ND		100	UG/L	8260	12/28/2008 17:18	ND
Acetone	12	DJ	100	UG/L	8260	12/28/2008 17:18	ND
Benzene	300	D	20	υG/L	8260	12/28/2008 17:18	ND
Bromodichloromethane	ND		20	UG/L	8260	12/28/2008 17:18	ND
Bromoform	ND		20	∪G/L	8260	12/28/2008 17:18	ND
Bromomethane	ND		20	∪G/L	8260	12/28/2008 17:18	ND
Carbon Disulfide	ND		20	UG/L	8260	12/28/2008 17:18	ND
Carbon Tetrachloride	ND		20	UG/L	8260	12/28/2008 17:18	ND
Chlorobenzene	ND		20	UG/L	8260	12/28/2008 17:18	ND
Chloroethane	ND		20	UG/L	8260	12/28/2008 17:18	ND
Chloroform	ND		20	UG/L	8260	12/28/2008 17:18	ND
Chloromethane	ND		20	UG/L	8260	12/28/2008 17:18	ND
cis-1,3-Dichloropropene	ND		20	UG/L	8260	12/28/2008 17:18	ND
Dibromochloromethane	ND		20	UG/L	8260	12/28/2008 17:18	ND
Ethylbenzene	ND		20	UG/L	8260	12/28/2008 17:18	ND
Methylene chloride	ND		20	UG/L	8260	12/28/2008 17:18	ND
Styrene	ND		20	UG/L	8260	12/28/2008 17:18	ND
Tetrachloroethene	ND		20	UG/∟	8260	12/28/2008 17:18	ND
Toluene	ND		20	UG/L	8260	12/28/2008 17:18	ND
Total Xylenes	ND		60	UG/∟	8260	12/28/2008 17:18	ND
trans-1,3-Dichloropropene	ND		20	UG/L	8260	12/28/2008 17:18	ND
Trichloroethene	ND		20	UG/L	8260	12/28/2008 17:18	ND
Vinyl acetate	ND		100	UG/L	8260	12/28/2008 17:18	ND
Vinyl chloride	ND		20	UG/L	8260	12/28/2008 17:18	ND

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT
NYSDEC - Gastown WWTP: Spill# 9213441

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TestAmerica

Sample ID: PRE-CARBON
Lab Sample ID: A8F99802
Date Collected: 12/17/2008
Time Collected: 11:20

Project No: NY5A946109 Client No: L10190

	,			Detection			Date/Time	
NYSBEC - SWB4AS S280/5 PM	Parameter	Result	Flag	Limit	Units	Method	•	Analyst
1,1,2=Tretrachtoroethame	NYSDEC - SW8463 8260/5 ML						-	
1,1,2=Tretrachtoroethame	1,1,1-Trichloroethane	ND		500	UG/L	8260	12/24/2008 18:11	DHC
1,1,2=Trickloroethane	1,1,2,2-Tetrachloroethane	ND		500		8260		DHC
1,1-PichLoroethane	1,1,2-Trichloroethane	ND		500	-			
1,1-pichLorecthene	1,1-Dichloroethane	ND		500	•			
1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 2590 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 2590 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 2590 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 2590 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 2590 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008 18:11 DHC 1,2-Pichloroethene (1otal) ND 500 Ug/L 8260 12/24/2008	1,1-Dichloroethene	ND		500	•			
1,2-Dichloroschene (Total) NO 1000 Us/L 8260 12/24/2008 18:11 DHC 2-Butanone NO 2500 Us/L 8260 12/24/2008 18:11 DHC 3-Butanone NO 2500 Us/L 8260 12/24	1,2-Dichloroethane	ND		500	-			
1,2-p-tich loropropane	1,2-Dichloroethene (Total)	ND						
2-Butanone	1,2-Dichloropropane							
2-meranne	2-Butanone	ND		2500	=			
A-methyl-z-pentanone ND 2500 Ue/L 8260 12/24/2008 18:111 DHC	2-Hexanone							
Acctone	4-Methyl-2-pentanone							
Benzene								
Bromofichloromethane								
Bromotorm								
Bromomethane								
Carbon Disulfide								
Carbon Tetrachloride								
Chlorobenzene ND 500 UG/L 8260 12/24/2008 18:11 DHC Chloroethane ND 500 UG/L 8260 12/24/2008 18:11 DHC Chloroethane ND 500 UG/L 8260 12/24/2008 18:11 DHC Chloromethane ND 500 UG/L 8260 12/24/2008 18:11 DHC Chloromethane ND 500 UG/L 8260 12/24/2008 18:11 DHC Cis-1,3-Dichloropropene ND 500 UG/L 8260 12/24/2008 18:11 DHC Dibromochloromethane ND 500 UG/L 8260 12/24/2008 18:11 DHC Ethylbenzene 320 J 500 UG/L 8260 12/24/2008 18:11 DHC Ethylbenzene 320 J 500 UG/L 8260 12/24/2008 18:11 DHC Styrene 210 J 500 UG/L 8260 12/24/2008 18:11 DHC Styrene 210 J 500 UG/L 8260 12/24/2008 18:11 DHC Tetrachloroethene ND 500 UG/L 8260 12/24/2008 18:11 DHC Tetrachloroethene ND 500 UG/L 8260 12/24/2008 18:11 DHC Toluene 960 500 UG/L 8260 12/24/2008 18:11 DHC Toluene 960 500 UG/L 8260 12/24/2008 18:11 DHC Trans-1,3-Dichloropropene ND 500 UG/L 8260 12/24/2008 18:11 DHC Trans-1,3-Dichloropropene ND 500 UG/L 8260 12/24/2008 18:11 DHC Trans-1,3-Dichloropropene ND 500 UG/L 8260 12/24/2008 18:11 DHC Trichloroethene ND 500 UG/L 8260 12/2								
Chloroethane					-			
Chloroform ND 500 U6/L 8260 12/24/2008 18:11 DHC Chloromethane ND 500 U6/L 8260 12/24/2008 18:11 DHC Cis-1,3-Dichloropropene ND 500 U6/L 8260 12/24/2008 18:11 DHC Dibromochloromethane ND 500 U6/L 8260 12/24/2008 18:11 DHC Ethylbenzene 320 J 500 U6/L 8260 12/24/2008 18:11 DHC Methylene chloride ND 500 U6/L 8260 12/24/2008 18:11 DHC Styrene 210 J 500 U6/L 8260 12/24/2008 18:11 DHC Tetrachloroethene ND 500 U6/L 8260 12/24/2008 18:11 DHC Total xylenes 330 J 1500 U6/L 8260 12/24/2008 18:11 DHC trans-1,3-Dichloropropene ND 500 U6/L 8260 12/24/2008 18:11 DHC Trichloroethene N								
Chloromethane								
cis=1,3-Dichloropropene ND 500 UG/L 8260 12/24/2008 18:11 DHC Dibromochloromethane ND 500 UG/L 8260 12/24/2008 18:11 DHC Ethylbenzene 320 J 500 UG/L 8260 12/24/2008 18:11 DHC Methylene chloride ND 500 UG/L 8260 12/24/2008 18:11 DHC Styrene 210 J 500 UG/L 8260 12/24/2008 18:11 DHC Tetrachloroethene ND 500 UG/L 8260 12/24/2008 18:11 DHC Total Xylenes 330 J 1500 UG/L 8260 12/24/2008 18:11 DHC Trichloroethene ND 500 UG/L 8260 12/24/2008 18:11 DHC Trichloroethene ND 500 UG/L 8260 12/24/2008 18:11 DHC Trichloroethene ND 500 UG					-			
Dibromochloromethane								
Ethylbenzene 320	, ,							
Methylene chloride ND 500 UG/L 8260 12/24/2008 18:11 DHC Styrene 210 J 500 UG/L 8260 12/24/2008 18:11 DHC Tetrachloroethene ND 500 UG/L 8260 12/24/2008 18:11 DHC Total Xylenes 330 J 1500 UG/L 8260 12/24/2008 18:11 DHC Total Xylenes 330 J 1500 UG/L 8260 12/24/2008 18:11 DHC Trichloroethene ND 500 UG/L 8260 12/24/2008 18:11 DHC Vinyl acetate ND 500 UG/L 8260 12/24/2008 18:11 DHC Vinyl chloride ND 2500 UG/L 8260 12/24/2008 18:11 DHC Vinyl chloride ND 500 UG/L 8260 12/24/2008 18:11 DHC AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA 1,2,4-Trimethylbenzene ND 17 UG/L 8021 12/18/2008 15:00			Л					
Styrene 210	•		•					
Tetrachloroethene	•							
Toluene 960 500 UG/L 8260 12/24/2008 18:11 DHC Total Xylenes 330 J 1500 UG/L 8260 12/24/2008 18:11 DHC trans-1,3-Dichloropropene ND 500 UG/L 8260 12/24/2008 18:11 DHC trichloroethene ND 500 UG/L 8260 12/24/2008 18:11 DHC Trichloroethene ND 500 UG/L 8260 12/24/2008 18:11 DHC Vinyl acetate ND 500 UG/L 8260 12/24/2008 18:11 DHC Vinyl chloride ND 500 UG/L 8260 12/24/2008 18:11 DHC AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA 1,2,4-Trimethylbenzene ND 17 UG/L 8021 12/18/2008 15:00 MAN 1,3,5-Trimethylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN Benzene 6400 12 UG/L 8021 12/18/2008 15:00 MAN Benzene 6400 12 UG/L 8021 12/18/2008 15:00 MAN Isopropylbenzene ND 14 UG/L 8021 12/18/2008 15:00 MAN Isopropylbenzene ND 14 UG/L 8021 12/18/2008 15:00 MAN M-Xylene 210 1 27 UG/L 8021 12/18/2008 15:00 MAN Methyl-t-Butyl Ether (MTBE) ND 22 UG/L 8021 12/18/2008 15:00 MAN N-Butylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN N-Butylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN N-Popylbenzene ND 14 UG/L 8021 12/18/2008 15:00 MAN N-Popylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN N-Popylbenzene ND 14 UG/L 8021 12/18/2008 15:00 MAN N-Popylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN N-Popylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN N-Popylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN N-Popylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN N-Popylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN N-Popylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN N-Popylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN N-Popylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN N-Popylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN N-Popylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN	·		J					
Total Xylenes 330								
trans-1,3-Dichloropropene ND 500 UG/L 8260 12/24/2008 18:11 DHC Trichloroethene ND 500 UG/L 8260 12/24/2008 18:11 DHC Vinyl acetate ND 2500 UG/L 8260 12/24/2008 18:11 DHC Vinyl chloride ND 500 UG/L 8260 12/24/2008 18:11 DHC AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA 1,2,4-Trimethylbenzene ND 17 UG/L 8021 12/18/2008 15:00 MAN 1,2,4-Trimethylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN 1,3,5-Trimethylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN Benzene 6400 12 UG/L 8021 12/18/2008 15:00 MAN Ethylbenzene 320 14 UG/L 8021 12/18/2008 15:00 MAN Isopropylbenzene ND 14 UG/L 8021 12/18/2008 15:00 MAN								
Trichloroethene ND SOO UG/L Vinyl acetate ND SOO UG/L REGOO 12/24/2008 18:11 DHC Vinyl chloride ND SOO UG/L REGOO 12/24/2008 18:11 DHC Vinyl chloride ND SOO UG/L REGOO 12/24/2008 18:11 DHC Vinyl chloride ND SOO UG/L REGOO 12/24/2008 18:11 DHC AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA 1,2,4-Trimethylbenzene ND 17 UG/L RO21 12/18/2008 15:00 MAN 1,3,5-Trimethylbenzene ND 15 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 12 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 14 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 14 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 15 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 15 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 15 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 15 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 15 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 15 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 15 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 15 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 15 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 15 UG/L RO21 12/18/2008 15:00 MAN ND REDIZENE REGOO 12/24/2008 18:11 DHC 12/18/2008 15:00 MAN ND REDIZENE REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 18:11 DHC REGOO 12/24/2008 15:00 RAN REGOO 12/24/2008 15:00 RAN REGOO 12/24/2008 15:00 RAN REGOO 12/24/2008 15:00 RAN REGOO 12/218/2008 15:00 RAN REGOO 12/218/2	•		J		-			
Vinyl acetate ND 2500 UG/L 8260 12/24/2008 18:11 DHC Vinyl chloride ND 500 UG/L 8260 12/24/2008 18:11 DHC AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA 1,2,4-Trimethylbenzene ND 17 UG/L 8021 12/18/2008 15:00 MAN 1,3,5-Trimethylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN Benzene 6400 12 UG/L 8021 12/18/2008 15:00 MAN Ethylbenzene 320 14 UG/L 8021 12/18/2008 15:00 MAN Isopropylbenzene ND 14 UG/L 8021 12/18/2008 15:00 MAN m-Xylene 210 1 27 UG/L 8021 12/18/2008 15:00 MAN n-Butylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN n-Propylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN	, ,							
Vinyl chloride ND 500 UG/L 8260 12/24/2008 18:11 DHC AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA 1,2,4-Trimethylbenzene ND 17 UG/L 8021 12/18/2008 15:00 MAN 1,3,5-Trimethylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN Benzene 6400 12 UG/L 8021 12/18/2008 15:00 MAN Ethylbenzene 320 14 UG/L 8021 12/18/2008 15:00 MAN Isopropylbenzene ND 14 UG/L 8021 12/18/2008 15:00 MAN m-Xylene 210 1 27 UG/L 8021 12/18/2008 15:00 MAN m-Butylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN n-Propylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN n-Propylbenzene ND 14 UG/L 8021 12/18/2008 15:00 MAN								
AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA 1,2,4-Trimethylbenzene ND 17 UG/L 8021 12/18/2008 15:00 MAN 1,3,5-Trimethylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN 1,3,5-Trimethylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN 150	•							
1,2,4-Trimethylbenzene ND 17 UG/L 8021 12/18/2008 15:00 MAN 1,3,5-Trimethylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN Benzene 6400 12 UG/L 8021 12/18/2008 15:00 MAN Ethylbenzene 320 14 UG/L 8021 12/18/2008 15:00 MAN Isopropylbenzene ND 14 UG/L 8021 12/18/2008 15:00 MAN m-Xylene 210 1 27 UG/L 8021 12/18/2008 15:00 MAN Methyl-t-Butyl Ether (MTBE) ND 22 UG/L 8021 12/18/2008 15:00 MAN n-Butylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN n-Propylbenzene ND 14 UG/L 8021 12/18/2008 15:00 MAN o-Xylene 410 14 UG/L 8021 12/18/2008 15:00 MAN p-Cymene ND 15 UG/L 8021 12/18/2008 15:00 MAN p-Xylene ND 1	Villy Contor Ide	IAD		500	0G/ L	6260	12/24/2006 16:11	DHC
1,2,4-Trimethylbenzene ND 17 UG/L 8021 12/18/2008 15:00 MAN 1,3,5-Trimethylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN Benzene 6400 12 UG/L 8021 12/18/2008 15:00 MAN Ethylbenzene 320 14 UG/L 8021 12/18/2008 15:00 MAN Isopropylbenzene ND 14 UG/L 8021 12/18/2008 15:00 MAN m-Xylene 210 1 27 UG/L 8021 12/18/2008 15:00 MAN Methyl-t-Butyl Ether (MTBE) ND 22 UG/L 8021 12/18/2008 15:00 MAN n-Butylbenzene ND 15 UG/L 8021 12/18/2008 15:00 MAN n-Propylbenzene ND 14 UG/L 8021 12/18/2008 15:00 MAN o-Xylene 410 14 UG/L 8021 12/18/2008 15:00 MAN p-Cymene ND 15 UG/L 8021 12/18/2008 15:00 MAN p-Xylene ND 1	AGUEGUS-SURAGS RO21 - VOLATTIE OPGANICS - STA							
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Date: 01/08/2009 Time: 15:46:52

NYSDEC

NYSDEC - REGION 9 REMEDIATION/SPILLS CONTRACT NYSDEC - Gastown WWTP: Spill# 9213441 Page: 6 Rept: AN1178

Sample ID: PRE-CARBON Lab Sample ID: A8F99802 Date Collected: 12/17/2008

Time Collected: 11:20

Date Received: 12/17/2008 Project No: NY5A946109 Client No: L10190

Site No:

16/18

Detection ----Date/Time-Parameter Result flag Limit Units Method Analyzed <u>Analyst</u> AQUEOUS-SW8463 8021 - VOLATILE ORGANICS - STA Toluene UG/L 940 18 8021 12/18/2008 15:00 MAN Total Xylenes 620 40 UG/L 8021 12/18/2008 15:00 MAN Metals Analysis Calcium - Total 161000 UG/L 500 200.7 12/19/2008 05:35 ΑH Iron - Total 652 50.0 UG/L 200.7 12/19/2008 05:35 ΑН Magnesium - Total 83800 200 UG/L 200.7 12/19/2008 05:35 AH Potassium - Total 4900 500 UG/L 200.7 12/19/2008 05:35 AH Sodium - Total 81100 1000 UG/L 200.7 12/19/2008 05:35 АН Wet Chemistry Analysis Chloride 152 1.0 MG/L 300.0 12/26/2008 12:07 BWM Sulfate 184 4.0 MG/L 300.0 12/26/2008 12:07 BWM Total Alkalinity 431 50.0 MG/L 310.2 12/21/2008 11:27 RLG

Chain of Custody Record

Temperature on Receipt _____

<u>TestAmerica</u>

Drinking Water? Yes □ No □ THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)	<u> </u>		•											_,					*****				,,,,,							
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Chain of Custody Record



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