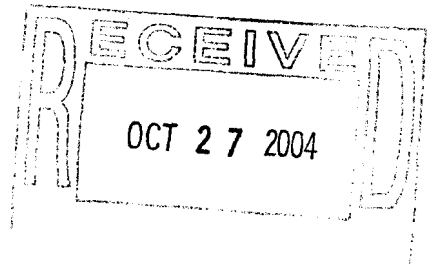


OCT 20 2004

SAMPLE DATA SUMMARY PACKAGE

NYSDEC Albany
Case #: RA004
SDG #: 0916
STL Lab. #: 240601
Matrix: Water
1 of 1



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NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
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CASE NARRATIVE

Client: NYSDEC

Date: 10/19/04

Case No.: RA004

SDG No.: 0916

STL Lab No.: 240601

Page 1 of 2

Inorganics

ICP

Sample Digestion

Samples number B04601 (240601-01) was digested and analyzed at the same time as laboratory sample number ZZZZZ (240586-01). Therefore all associated QC is reported from sample number ZZZZZ (240586-01).

Samples number B04601 (240601-02) was digested and analyzed at the same time as laboratory sample number ZZZZZ (240572-09). Therefore all associated QC is reported from sample number ZZZZZ (240572-09).

Matrix Spike

The percent spike recovery of manganese in spike sample number ZZZZZMS (240586-01MS) is outside of the established control limits. The data is qualified accordingly.

Serial Dilution

The percent difference of calcium in serial dilution sample number ZZZZZL (240586-01L) falls outside the control limit of 10%. As a result a chemical or physical interference may be suspected and the associated data is qualified with an "E".

The percent difference of calcium, potassium and sodium in serial dilution sample number ZZZZZL (240586-01L) falls outside the control limit of 10%. As a result a chemical or physical interference may be suspected and the associated data is qualified with an "E".

Sample Dilution

The following sample was diluted at the indicated amount and reanalyzed due to the interference of calcium on the undiluted sample at a concentration above the linear range of the instrument:

B04601 (240604-01): 5x

000002

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CASE NARRATIVE

Client: NYSDEC

Date: 10/19/04

Case No.: RA004

SDG No.: 0916

STL Lab No.: 240601

Page 2 of 2

Wet Chemistry

Alkalinity

Laboratory Control Sample

The percent recovery of alkalinity in the LCS is outside of the STL established limits.
The percent recovery does fall within the manufacturer's limits.

Total Phosphorous

Matrix Spike/Duplicate

The matrix spike/duplicate was not performed on a sample from laboratory number 240601.

The percent spike recovery of total phosphorus in spike sample number ZZZZZMS (240610-04MS) is outside of the established limits.

Sulfate

Sample Dilution

Due to the results of the initial analysis, the following samples were diluted for sulfate at the indicated amount:

B04601 (240601-02): 4x

B04601MD (240601-02MD): 4x

B04601MS (240601-02MS): 4x

000003

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS Method #	*BNA GC/MS Method #	*VOA GC Method #	*PEST PCBs Method #	*Metals	*Other
B04601	240601-01					55	124
B04601	240601-02					56	2, 16, 47, 103, 88, 99

000004

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SUMMARY OF METHODOLOGY

1

Analysis	Aqueous	Ground Water Liquid/Solid Matrices
1 % Solid	EPA 160.3(A)	EPA 160.3(A)
2 Alkalinity-Tit.	SM182320-B(Q)	
3 Ammonia	SM184500-NH3E(Q)	
4 Ammonia	SM184500-NH3F(Q)	
5 Ammonia	LAC107061A(U)	
6 Antimony	EPA 204.2(A,D)	
7 Antimony	SM183113B(Q)	
8 Arsenic	EPA 206.2(A,D)	
9 Arsenic		SW846-7060A(B,D)
10 Arsenic	SM183113B(Q)	
11 Beryllium	SM183113B(Q)	
12 BOD	SM185210-B(Q)	
13 Bromide	EPA 300(A)	
14 Cadmium	SM183113B(Q)	
15 CBOD	SM185210-B(Q)	
16 Chloride	SM184500-CL-B(Q)	
17 Chloride(DW)	SM174500-CL-B(N)	
18 Chloride-IC	EPA 300(A)	
19 COD (high)	EPA 410.4(A)	
20 COD (low)	HACH 8000(W)	
21 Color	SM18 2120-B(Q)	
22 Coliform, Total-MF	SM18 9222B(Q)	
23 Coliform, Total	SM18 9223-MPN(Q)	
24 Conductivity	SM182510-B(Q)	
25 Cyanide	SM184500-CNE(Q)	
26 Cyanide		SW846-9010B(B)
27 Cyanide	LAC204001A(R)	
28 Cyanide, Amenable	SM184500-CNG(Q)	SW846-9010B(B)
29 Dissolved Oxygen	SM184500-O-C(Q)	
30 DRO		EPA DRO Draft Rev.5 (Y)
31 Enterococcus	ENTEROLERT	
32 E.Coli	SM18 9223-MPN(Q)	
33 Eptox		SW846-1310A(B)
34 Ethylene glycol	NYSDEC 89-9(M)	
35 ETPH	(AA)	
36 F. Coli-MF	SM189222C(Q)	
37 F. Coli-MF	SM189222D(Q)	
38 F. Coli-MPN	SM189221C(Q)	
39 Ferrous Iron	SM183500-FED(Q)	

000005

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SUMMARY OF METHODOLOGY

2

40 Flashpoint		SW846-1010(B)
41 Fluoride, Total	EPA 340.2(A)	EPA 340.2(A)
42 Fluoride, Total	EPA 300(A)	
43 Grease & Oil	SM185520-B(Q)	
44 Grease & Oil	EPA 413.1 (A)	
45 Grease & Oil	EPA 1664(A)	
46 GRO		EPA GRO Draft Rev. 5(Y)
47 Hardness, Total	EPA 200.7(A)	
48 Hardness, Total	EPA 130.2(A)	
49 Heat of Combustion	D2015(X)	
50 Herbicides		SW846-8151A(B)
51 Herbicides	EPA 515.1(L)	
52 Heterotrophic Plate Count	SM18 9215B(Q)	SM18 9215B(Q)
53 Hex Chrome		SW846-7196A(B)
54 Hex Chrome	SM183500-Cr-D(Q)	
55 ICP Metals		SW846-6010B(B)
56 ICP Metals	EPA 200.7(A)	
57 Langlier Index	SM182330B(Q)	
58 Lead		SW846-7421(B,C)
59 Lead	EPA 239.2(A,D)	
60 Lead		SW846-7420(B,D)
61 Lead	SM183113B(Q)	
62 MBAS	SM185540-C(Q)	
63 Mercury		SW846-7470A(B)
64 Mercury		SW846-7471A(B)
65 Mercury	EPA 245.1(A)	
66 Mercury	EPA 245.2(A)	
67 Methanol	Modified 8015(B)	
68 Nitrate-AA	SM174500-NO3F(N)	
69 Nitrate-IC	EPA 300(A)	
70 Nitrate-Nitrite	SM184500-NO3F(Q)	
71 Nitrate-Nitrite	LAC107041A(T)	
72 Nitrite	EPA 354.1(A)	
73 Nitrite	SM184500-NO2-B(Q)	
74 Odor	SM182150(Q7)	
75 Organochlorine PSTs		SW846-8081A(B)
76 Organochlorine PSTs	EPA 608(F)	
77 Paint Filter Test		SW846-9095A(B)
78 PCB's	EPA 508(H)	
79 Pesticides/PCB's		SW846-8082(B)
80 Pesticides/PCB's	95.3(Z)	95.3(Z)
81 Pesticides/PCB's	EPA 505(H)	
82 pH		SW846-9045C(B)

000006

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SUMMARY OF METHODOLOGY

3

83 pH	SM184500-H-B(Q)	
84 Phenols		SW846-9065(B)
85 Phenols	EPA 420.A(A)	
86 Phenols	LAC210001A(S)	
87 Phosphate, Ortho	SM184500-PE(Q)	
88 Phosphate, Total	EPA 365.3(A)	
89 Propylene glycol	Modified 8015(B)	
90 Reactivity		SW846-7.3.2(B)
91 Selenium		SW846-7740(B,D)
92 Selenium	EPA 270.2(A,D)	
93 Selenium	SM183113B(Q)	
94 Semi-Volatiles		SW846-8270C(B)
95 Semi-Volatiles	EPA 625(E)	
96 Semi-volatiles	95.2(Z)	95.2(Z)
97 Semi-Volatiles	EPA 525.1(H)	
98 Specific Gravity		D1298-83
99 Specific Conductance	SM182510B(Q)	
100 SS	EPA 160.5(A)	
101 Sulfate		EPA 375.4(A)
102 Sulfate	EPA 375.4(A)	
103 Sulfate	EPA 300(A)	
104 Sulfide		SM184500-S2E(Q)
105 Sulfide	SM184500-S2D(Q)	
106 Sulfite	SM184500-SO3B(Q)	
107 Sulfite		SM184500SO3B(Q)
108 TCLP		SW846-1311(B)
109 TDS	EPA 160.1(A)	
110 TDS	SM182540C(Q)	
111 Temperature	EPA 170.1(A)	
112 Thallium		SW846-7841(B,D)
113 Thallium	EPA 279.2(A,D)	
114 Thallium	EPA 200.9(A)	
115 Tin	EPA 282.2 (A)	
116 TOC	SM185310-B(Q)	
117 Total Kjeldahl Nitrogen	SM184500NH3-F(Q)	
118 Total Kjeldahl Nitrogen	LAC107062D(V)	
119 TOX		SW846-9020B(B)
120 TPH	EPA 418.1(A)	
121 TPH 310.13		LOAC 310.13(P)
122 TPH	EPA 1664 (A)	
123 TPH-Calif.	Calif. DHS 8015	Calif. DHS 8015
124 TS	EPA 160.3(A)	
125 TSS	EPA 160.2(A)	

000007

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SUMMARY OF METHODOLOGY

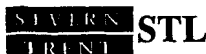
4

126 TVS	EPA 160.4(A)	
127 Turbidity	SM182130-B(Q) and EPA 180.1(A)	
128 Volatiles Organics		SW846-8260B(B)
129 Volatiles Organics	EPA 624(E)	
130 Volatiles Organics	EPA 524.2(H)	
131 Volatiles Organics	EPA 502.2(K)	
132 Volatiles Organics	EPA 504.1(H)	
133 Volatiles Organics		SW846-8021B(B)
134 Volatiles Organics	EPA 601(F)	
135 Volatiles Organics	EPA 602(F)	
136 Volatiles Organics	95.1(Z)	95.1(Z)
137 Volatiles Organics	95.4(Z)	95.4(Z)
138 Volatiles Organics	OLC02.1(AB)	
139 Volatiles Organics	OLM03.2(AC)	
140 Suspended Sediment	USGS(AD)	USGS(AD)

References

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- B. "Test Methods for Evaluating Solid Waste", USEPA-SW846, Third Edition, September 1986 with all current revisions.
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- H. "Methods for the Determination of Organic Compounds in Drinking Water, EPA/600/4-88/039, December 1988.
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- N. "Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.
- O. "ASTM, Petroleum Products, Lubricants, and Fossil Fuels, Vol. 5.01 D56-D1947, 1990.
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SUMMARY OF METHODOLOGY

5

- Q. "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.
- R. "Determination of Cyanide" (Macro Distillation Method in Waters), QUIK CHEM Method 10-204-00-1-A, Karin Wendt, Revised June 6, 1996, Lachat Instruments, Milwaukee, Wi. 53218
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- AC. USEPA CLP SOW for Organics Analysis Multi-Media, Multi-Concentration
- AD. United States Geological Survey

000009

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Job Number: 240601

LABORATORY TEST RESULTS

Date: 10/19/2004

CUSTOMER: NYSDEC Albany

PROJECT: NOW CORP

ATTN: David Lis

Customer Sample ID: B04601
Date Sampled.....: 09/16/2004
Time Sampled.....: 13:32
Sample Matrix.....: Solid

Laboratory Sample ID: 240601-1
Date Received.....: 09/16/2004
Time Received.....: 15:58

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
SW846 6010B	Metals Analysis (ICAP)										
	Calcium (Ca)*	334000		E	101	6700	5.000	mg/Kg		09/23/04	mad
	Iron (Fe)*	1660			25.3	134	5.000	mg/Kg		09/23/04	mad
	Magnesium (Mg)*	952	B		15.7	6700	5.000	mg/Kg		09/23/04	mad
	Manganese (Mn)*	4530		N	1.5	13.4	5.000	mg/Kg		09/23/04	mad

* In Description = Dry Wgt.

Job Number: 240601

LABORATORY TEST RESULTS

Date: 10/19/2004

CUSTOMER: NYSDEC Albany

PROJECT: NOW CORP

ATTN: David Lis

Customer Sample ID: B04601
 Date Sampled.....: 08/16/2004
 Time Sampled.....: 13:47
 Sample Matrix.....: Water

Laboratory Sample ID: 240601-2
 Date Received.....: 09/16/2004
 Time Received.....: 15:58

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	IDL	RL	DILUTION	UNITS	DT	DATE	TECH
EPA 200.7	Hardness by calculation Hardness, Total as CaCO ₃	244			2.5	2.5	1	mg/L		09/28/04	mwh
EPA 200.7	Metals Analysis (ICAP)										
	Calcium (Ca)	79500		E	51.7	5000	1	ug/L		09/28/04	mwh
	Iron (Fe)	532			18.9	100	1	ug/L		09/28/04	mwh
	Iron (Fe), Diss.	641			18.9	100	1	ug/L		09/28/04	mwh
	Magnesium (Mg)	11000			11.7	5000	1	ug/L		09/28/04	mwh
	Manganese (Mn)	190			1.1	10.0	1	ug/L		09/28/04	mwh
	Manganese (Mn), Diss.	258			1.1	10.0	1	ug/L		09/28/04	mwh
	Potassium (K)	1150	B	E	54.8	5000	1	ug/L		09/28/04	mwh
	Sodium (Na)	15300		E	130	5000	1	ug/L		09/28/04	mwh
EPA 200.7	Metals Analysis (ICP)										
	Silica	12400			37.4	500	1	ug/L		10/04/04	mad

In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 240601

Date: 10/19/2004

CUSTOMER: NYSDEC Albany

PROJECT: NOW CORP

ATTN: David Lis

Customer Sample ID: B04601
Date Sampled.....: 09/16/2004
Time Sampled.....: 13:32
Sample Matrix.....: Solid

Laboratory Sample ID: 240601-1
Date Received.....: 09/16/2004
Time Received.....: 15:58

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
EPA 160.3	% Moisture	23.9			0.10	%	09/20/04	rdf
EPA 160.3	% Solids	76.1			0.10	%	09/20/04	rdf
000018								

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Job Number: 240601

LABORATORY TEST RESULTS

Date: 10/19/2004

CUSTOMER: NYSDEC Albany

PROJECT: NOW CORP

ATTN: David Lis

Customer Sample ID: B04601
 Date Sampled.....: 08/16/2004
 Time Sampled.....: 13:47
 Sample Matrix.....: Water

Laboratory Sample ID: 240601-2
 Date Received.....: 09/16/2004
 Time Received.....: 15:58

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	REPORTING LIMIT	UNITS	ANALYZED	TECH
SM18 2320B	Alkalinity, Total as CaCO ₃	282			5.00	mg/L	09/22/04	rmc
SM18 2510B	Specific Conductance at 25 degrees C	520			0.5	umhos/cm	09/21/04	rmc
EPA 365.3	Phosphorous, Total as P	0.100	U	N	0.100	mg/L	09/26/04	ne
SM18 4500Cl	Chloride	20			5.0	mg/L	09/20/04	rmc
EPA 300.0	Ion Chromatography Analysis Sulfate	44.2			20.0	mg/L	09/22/04	rmc

000019

* In Description = Dry Wgt.

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6
DUPLICATES

EPA SAMPLE NO.

Lab Name: STL Newburgh

Contract:

ZZZZMD

Lab Code: 10142 Case No.: RA004

SAS No. :

SDG No.: 0916

Matrix (soil/water): SOIL

Level (low/med) :

% Solids for Sample: 89.61

% Solids for Duplicate: 89.61

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

[illegible]

000043

FORM VI - IN

ILM04.0

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TRINT **STL**

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6
 DUPLICATES

EPA SAMPLE NO.

Lab Name: STL Newburgh

Contract: _____

zzzzzzzzzz

Lab Code: 10142 Case No.: RA004

SAS No. : _____

SDG No.: 0916

Matrix (soil/water): Water

Level (low/med) :

% Solids for Sample: _____

% Solids for Duplicate:

Concentration Units (ug/L or mg/Kg dry weight): ug/L

[illegible]

FORM VI - IN

ILM04.0

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TRENT** **STL**

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EPA SAMPLE NO.

Lab Name: STL Newburgh

Contract: _____

ZZZZmD

Lab Code: 10142 Case No.: RA004

SAS No. :

SDG No.: 0916

Matrix (soil/water): Water

Level (low/med) :

% Solids for Sample: _____

% Solids for Duplicate:

Concentration Units (ug/L or mg/Kg dry weight): ug/L

[illegible]

000045

FORM VI - IN

ILM04.0

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Tel (845) 562-0890
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EPA SAMPLE NO.

Lab Name: STL Newburgh

Contract: _____

ZZZZZms -

Lab Code: 10142 Case No.: RA004

SAS No. : _____

SDG No. : 0916

Matrix (soil/water): SOIL

Level (low/med) : _____

% Solids for Sample: 89.61

Concentration Units (ug/L or mg/Kg dry weight): mg/Kg

[illegible]

Comments:

000040

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SEVERN
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NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

EPA SAMPLE NO.

Lab Name: STL Newburgh

Contract:

ZZZZZMS

Lab Code: 10142 Case No.: RA004

SAS No. :

SDG No.: 0916

Matrix (soil/water): Water

Level (low/med) :

% Solids for Sample: _____

Concentration Units (ug/L or mg/Kg dry weight): ug/L

[illegible]

Comments:

000042

Job Number.: 240601

QUALITY CONTROL RESULTS

Report Date.: 10/19/2004

CUSTOMER: NYSDEC Albany

PROJECT: NOW CORP

ATTN: David Lis

Test Method.....: SM18 2320B

Batch.....: 77285

Analyst....: rmc

Method Description.: Alkalinity

Units.....: mg/L

Test Code.: ALK

Parameter.....: Alkalinity, Total as CaCO3

QC	Lab ID	Reagent	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
MD	240601-2		277.92				281.63	1.3	8-8		09/22/2004	1556
MS	240601-2	W03ALKSPK1	303.87			20.00	281.63	111.2	60-139		09/22/2004	1556
ICV		W03ALKSTD1	87.90			100		87.9	87-119		09/22/2004	1556
CCV		W03ALKSTD2	55.62			50		111.2	87-119		09/22/2004	1556
ICB			0								09/22/2004	1556
LCS		W04ALKLCS2	40.05			34.2		117.1	80-114	*	09/22/2004	1556
CCB			0								09/22/2004	1556

Test Method.....: SM18 4500Cl

Batch.....: 76028

Analyst....: rmc

Method Description.: Chloride

Units.....: mg/L

Test Code.: CHL

Parameter.....: Chloride

QC	Lab ID	Reagent	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
MS	240601-2	W04CLSPK02	45.9857			25.0	19.5684	105.7	74-126		09/20/2004	1025
LCS		W04MINLCS2	77.2952			76.8		100.6	90-105		09/20/2004	1025
ICV		W04CLICV01	49.8994			50.0		99.8	92-109		09/20/2004	1025
MB			0.0000								09/20/2004	1025
MD	240601-2		18.5900				19.5684	5.1	19-19		09/20/2004	1025

Test Method.....: EPA 365.3

Batch.....: 76317

Analyst....: ne

Method Description.: Phosphorus, Total

Units.....: mg/L

Test Code.: PTOT

Parameter.....: Phosphorous, Total as P

QC	Lab ID	Reagent	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
MB			0.000								09/26/2004	1250
CCB			0.000								09/26/2004	1250
CCV		W04POCCV1	0.200			0.200		100.0			09/26/2004	1250
CCB			0.000								09/26/2004	1250
RS		W04RSP0401	0.100			0.100		100.0	82-111		09/26/2004	1250
CCV		W04POCCV1	0.200			0.200		100.0			09/26/2004	1250
LCS		W03TPOLCS1	4.400			4.25		103.5	86-110		09/26/2004	1250
MS	240610-4	W04SPKTP01	0			0.200	0	0.0	74-126	N	09/26/2004	1250
MD	240610-4		0				0	0.0	10-10		09/26/2004	1250

Test Method.....: SM18 2510B

Batch.....: 76024

Analyst....: rmc

Method Description.: Specific Conductance @ 25 degrees C

Units.....: umhos/cm

Test Code.: 120.1

Parameter.....: Specific Conductance at 25 degrees C

QC	Lab ID	Reagent	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
MD	240601-2		515				520				09/21/2004	1005

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NYSDOH 10142

NJDEP 73015

CTDOHS PH-0554

EPA NY049

PA 68-378

M-NY049

STL Newburgh
315 Fullerton Avenue
Newburgh, NY 12550
Tel (845) 562-0890
Fax (845) 562-0841

Report Date.: 10/19/2004

ATTN: David Lis

Analyst...: rmc
Test Code.: S04

QC	Lab ID	Reagent	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
DI			0								09/22/2004	1109
ICV		W03ICICV02	20.19			20.0		101.0	90-110		09/22/2004	1119
ICB			0								09/22/2004	1129
LCS		W04ICLCS01	7.70			7.50		102.7	90-110		09/22/2004	1139
CCV		W03ICCCV02	20.16			20		100.8	90-110		09/22/2004	1322
CCB			0								09/22/2004	1332
CCV		W03ICCCV02	19.98			20		99.9	90-110		09/22/2004	1525
CCB			0								09/22/2004	1535
MD	240601-2		44.28				44.20	0.2	20-20		09/22/2004	1647
MS	240601-2	W03ICSPK01	84.24			10.0	44.20	100.1	80-120		09/22/2004	1657
CCV		W03ICCCV02	20.02			20		100.1	90-110		09/22/2004	1728
CCB			0								09/22/2004	1738
CCV		W03ICCCV02	19.88			20		99.4	90-110		09/22/2004	1931
CCB			0								09/22/2004	1942

000047

3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): mg/Kg[illegible]

000032

ILM04.0

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M-NY049

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Fax (845) 562-0841

3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): _____

[illegible]

00032

ILM04.0

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3
BLANKS

Lab Name: STL Newburgh Contract: _____

Lab Code: 10142 Case No.: RA004 SAS No.: SDG No.: 0916

Preparation Blank Matrix (soil/water): water

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L[illegible]

000034

FORM III - IN

ILM04.0

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NYSDOH 10142

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3
BLANKS

Preparation Blank Concentration Units (ug/L or mg/kg): ug/L

[illegible]

000035

ILM04.0

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