## Operation, Maintenance and Monitoring Report October 2012

NOW Corporation Site 3-14-008

Work Assignment No. D007626-25

Prepared for:

SUPERFUND STANDBY PROGRAM
New York State
Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Prepared by:

AECOM Technical Services Northeast, Inc. 40 British American Boulevard Latham, New York 12110

December 2012



December 20, 2012

Mr. Carl Hoffman, P.E. NYSDEC Division of Environmental Remediation 625 Broadway, 12<sup>th</sup> Floor Albany, New York 12233-7013

Re: NOW Corporation - Site #3-14-008 O&M Summary Report: "October" 2012

Dear Mr. Hoffman:

This monthly summary report describes the operation, monitoring and maintenance (OM&M) of the remedial system at the NOW Corporation site in the Town of Clinton, New York, for a 36-day period (September 20 – October 26, 2012).

With the exceptions noted below, if any, the P&T system was online and operational throughout the reporting period. Approximately 604,400 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 16,789 gallons per day (gpd), compared to 24,845 gpd in the prior reporting period.

As of the last day of the reporting period, a total of 89,304,000 gallons of groundwater had been recovered and treated by the system since it became operational in February 1998.

Table 1 summarizes influent and effluent analytical data for water samples collected on October 26. **Effluent limitations were not exceeded this reporting period.** A copy of the analytical laboratory report is attached. Table 2 summarizes selected operational data recorded on the sampling date. The effluent samples were collected while the VFD was operating at 60 Hz.

AECOM made two site visits during the period to conduct the required system inspection, perform scheduled and unscheduled maintenance, and to collect water samples. The September service visit was described in the previous report. Details for the current period follow:

October 26 – AECOM was onsite to complete monthly influent, effluent, and recovery well sampling. The flow rate in TW-3 was increased from 2 gpm to 4 gpm. The propane tank was at 65% capacity.

The system efficiency and runtime was evaluated over the month. The system was down for approximately one day, when a low pressure alarm triggered a shutdown on October 29. The system was successfully restarted remotely on October 30. The system operated without incident for the remainder of the period. Downtime was approximately 4% of the reporting period.

Please feel free to contact me at (518) 951-2262 if you have any questions regarding this report or the operation of the treatment system.

Sincerely,

AECOM Technical Services Northeast, Inc.

Stephen R. Choiniere

Project Manager

Table 1
Summary of Influent and Effluent Data
Sampling Date: October 26, 2012
NOW Corporation Site

Town of Clinton, New York

Analytes/	Total			Recovery Well	s	Ef	fluent
Parameters	Influent	Effluent	TW-1	TW-2A	TW-3	Lim	itations
							(units)
Quantity treated, per day		16,789				Monitor	gallons
pН	6.8	7.2				6.5 to 8.5	standard units
Oil and Grease	<1	<1	NA	NA	NA	15	mg/L
Total Cyanide	<10	<10	NA	NA	NA	10	ug/L
TDS	300	470	NA	NA	NA	1000	mg/L
TSS	<10	<10	NA	NA	NA	50	mg/L
Aluminum, Total	<200	<200	NA	NA	NA	Monitor	ug/L
Arsenic, Total	< 20	<20	NA	NA	NA	100	ug/L
Barium, Total	91 J	92	NA	NA	NA	Monitor	ug/L
Chromium	< 20	<20	NA	NA	NA	400	ug/L
Copper	<25	<25	NA	NA	NA	24	ug/L
Iron	< 200	< 200	NA	NA	NA	600	ug/L
Mercury	0.046 J	< 0.20	NA	NA	NA	0.8	ug/L
Manganese	120	91	NA	NA	NA	Monitor	ug/L
Nickel	1.5 J	1.5 J	NA	NA	NA	200	ug/L
Zinc	<5	<50	NA	NA	NA	150	ug/L
1,1,1-Trichloroethane	410	< 0.5	<2	510	14	10	ug/L
1,1,2-Trichloroethane	<10	< 0.5	<2	<20	< 0.5	1.2	ug/L
1,1-Dichloroethane	190	< 0.5	33	200	20	10	ug/L
1,1-Dichloroethene	33	< 0.5	10	43	1.9	0.5	ug/L
1,2-Dichloroethane	<10	< 0.5	<2	<20	< 0.5	1.6	ug/L
Benzene	<10	< 0.5	<2	<20	< 0.5	1.4	ug/L
Chlorobenzene	<10	< 0.5	<2	<20	< 0.5	10	ug/L
Chloroethane	<10	< 0.5	<2	<20	< 0.5	10	ug/L
cis -1,2-Dichloroethene	15	< 0.5	3.2	<20	0.91	5	ug/L
Ethylbenzene	<10	< 0.5	<2	<20	< 0.5	10	ug/L
o-Xylene	<10	< 0.5	<2	<20	< 0.5	5	ug/L
m,p-Xylene	<10	< 0.5	<2	<20	< 0.5	10	ug/L
Tetrachloroethene	<10	< 0.5	<2	<20	< 0.5	1.4	ug/L
Toluene	<10	< 0.5	<2	<20	< 0.5	10	ug/L
trans -1,2-Dichloroethene	<10	< 0.5	<2	<20	< 0.5	5	ug/L
Trichloroethene	410	< 0.5	40	480	30	6	ug/L
Vinyl Chloride	<10	< 0.5	<2	<20	< 0.5	0.6	ug/L

### Notes:

- 1) Detected concentrations are presented in **bold** typeface, and are expressed in the units shown in far right column.
- 2) Effluent concentration boxed in **bold** denotes exceedance of effluent limitations.
- 3) NA indicates not analyzed.
- 4) "J" indicates an estimated concentration below the reporting limit (RL).
- 5) "B" denotes metal detected in method blank at concentration below the RL, but above the method detection limit.

10-12 Tables 12/20/2012

### Table 2 Summary of October 2012 O&M Data

### NOW Corporation Site Town of Clinton, New York

Instrume	ntation/Readings:	10/26/12	Units
TW-1			
	Pumping Rate	1	GPM
	Water Level Above Transducer	30.63	feet
	Flow Meter Reading	6,350,700	gallons
	Pump Pressure	80	psi
TW-2A			
	Pumping Rate	~14	GPM
	Water Level Above Transducer	13.12	feet
	Flow Meter Reading	24,702,800	gallons
	Pump Pressure	80	psi
TW-3			
	Pumping Rate	4	GPM
	Water Level Above Transducer	63.02	feet
	Flow Meter Reading	9,846,900	gallons
	Pump Pressure	70	psi
Air Stripp	er		
	Stripper Blower Pressure	17.5	inches H <sub>2</sub> O
	Air Temperature in Stripper	54	$^{\circ}\mathrm{F}$
Effluent 1	Flow		
	Effluent Flow this period (calculated)	604,400	gallons
	Total Effluent Flow (calculated)	89,304,000	gallons

10-12 Tables 12/20/2012



✓	Final Repo	ort
	Re-Issued	Report
	Revised R	eport

### Laboratory Report

AECOM Technical Services, Inc.

Latham, NY 12110

40 British American Boulevard

Work Order: L2311

Project: NOW Corp. Site

Project #:

Attn: Stephen Choiniere

Laboratory ID	Client Sample ID	<u>Matrix</u>	Date Sampled	Date Received
L2311-01	EFF 102612	Aqueous	26-Oct-12 11:15	29-Oct-12 08:34
L2311-02	INF 102612	Aqueous	26-Oct-12 11:35	29-Oct-12 08:34
L2311-03	TW-1 102612	Aqueous	26-Oct-12 11:45	29-Oct-12 08:34
L2311-04	TW-2A 102612	Aqueous	26-Oct-12 11:50	29-Oct-12 08:34
L2311-05	TW-3 102612	Aqueous	26-Oct-12 12:00	29-Oct-12 08:34
L2311-06	TB 102612	Aqueous	26-Oct-12 00:00	29-Oct-12 08:34

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense Connecticut PH-0153 Delaware N/AFlorida E87664 2007037 Maine M-RI907 Massachusetts New Hampshire 2631 New Jersey RI001 New York 11522 North Carolina 581 LAI00301 Rhode Island USDA P330-08-00023 USEPA - ISM EP-W-09-039 EP-W-11-033 USEPA - SOM





Authorized by:

Yihai Ding Laboratory Director

### REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client: AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: L2311

SW846 8260C, VOC by GC-MS (25 mL Purge)

### I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

### **II. HOLDING TIMES**

### A. Sample Preparation:

All samples were prepared within the method-specified holding times.

### B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

### III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

### IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

### V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V5

Instrument Type: GCMS-VOA Description: HP6890 / HP6890 Manufacturer: Hewlett-Packard

Model: 6890 / 6890

### VI. ANALYSIS

### A. Calibration:

Calibrations met the method/SOP acceptance criteria.

### B. Blanks:

All method blanks were within the acceptance criteria.

### C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

### D. Spikes:

### 1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

### 2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

### E. Internal Standards:

Internal standard peak areas were within the QC limits.

### F. Dilutions:

The following samples were analyzed at dilution:

INF 102612 (L2311-02A): Dilution Factor: 20 TW-1 102612 (L2311-03A): Dilution Factor: 4 TW-2A 102612 (L2311-04A): Dilution Factor: 40

### G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:	The	
Date:	11/17/2012	

### REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client: AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: L2311

SW846 6010C, SW846 7470A

### I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

### **II. HOLDING TIMES**

### A. Sample Preparation:

All samples were prepared within the method-specified holding times.

### B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

### III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 6010C, SW846 7470A

### IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test

code: SW3005A

Aqueous Samples were prepared following procedures in laboratory test

code: SW7470A

### V. INSTRUMENTATION

The following instrumentation was used to perform analysis:

Instrument Code: FIMS2 Instrument Type: CVAA Description: FIMS

Manufacturer: Perkin-Elmer

Model: FIMS100

Instrument Code: OPTIMA3

Instrument Type: ICP

Description: Optima ICP-OES Manufacturer: Perkin-Elmer

Model: 4300 DV

### VI. ANALYSIS

### A. Calibration:

Calibrations met the method/SOP acceptance criteria.

### B. Blanks:

All method blanks were within the acceptance criteria.

### C. Spikes:

### 1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

### 2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

### D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

### E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

### F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

### G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:

Date: 11/20/12

### REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client: AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: L2311

SM 2540C, SM 2540D, SW846 9012B

### I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

### II. HOLDING TIMES

### A. Sample Preparation:

All samples were prepared within the method-specified holding times.

### B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

### III. METHODS

Samples were analyzed following procedures in laboratory test code: SM 2540C, SM 2540D, SW846 9012B

### IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SM 2540C, SM 2540D, SW846 9012B

### V. INSTRUMENTATION

The following instrumentation was used to perform analysis:

Instrument Code: LACHAT1

Instrument Type: WC

Description: Flow Injection Analyzer Manufacturer: Zellweger Analytics

Model: Quik-Chem 8000

### VI. ANALYSIS

### A. Calibration:

Calibrations met the method/SOP acceptance criteria.

### B. Blanks:

All method blanks were within the acceptance criteria.

### C. Spikes:

### 1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

### 2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

### D. Duplicate sample:

Relative percent differences were within the QC limits.

### E. Dilutions:

No sample required dilution in this SDG.

### F. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: Dam Franco

Date: 11/20/12

11/15/2012

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF 102612 Project: NOW Corp. Site

Lab ID: L2311-01 Collection Date: 10/26/12 11:15

Analyses	Result Qual	RL	Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS (25 mL Purge)				SV	V8260_25_W
Vinyl chloride	ND	0.50	ug/L	1 11/07/2012 17:47	69152
Chloroethane	ND	0.50	ug/L	1 11/07/2012 17:47	69152
1,1-Dichloroethene	ND	0.50	ug/L	1 11/07/2012 17:47	69152
trans-1,2-Dichloroethene	ND	0.50	ug/L	1 11/07/2012 17:47	69152
Methyl tert-butyl ether	ND	0.50	ug/L	1 11/07/2012 17:47	69152
1,1-Dichloroethane	ND	0.50	ug/L	1 11/07/2012 17:47	69152
cis-1,2-Dichloroethene	ND	0.50	ug/L	1 11/07/2012 17:47	69152
1,1,1-Trichloroethane	ND	0.50	ug/L	1 11/07/2012 17:47	69152
1,2-Dichloroethane	ND	0.50	ug/L	1 11/07/2012 17:47	69152
Benzene	ND	0.50	ug/L	1 11/07/2012 17:47	69152
Trichloroethene	ND	0.50	ug/L	1 11/07/2012 17:47	69152
Toluene	ND	0.50	ug/L	1 11/07/2012 17:47	69152
1,1,2-Trichloroethane	ND	0.50	ug/L	1 11/07/2012 17:47	69152
Tetrachloroethene	ND	0.50	ug/L	1 11/07/2012 17:47	69152
Chlorobenzene	ND	0.50	ug/L	1 11/07/2012 17:47	69152
Ethylbenzene	ND	0.50	ug/L	1 11/07/2012 17:47	69152
m,p-Xylene	ND	0.50	ug/L	1 11/07/2012 17:47	69152
o-Xylene	ND	0.50	ug/L	1 11/07/2012 17:47	69152
Surrogate: Dibromofluoromethane	99.4	88-124	%REC	1 11/07/2012 17:47	69152
Surrogate: 1,2-Dichloroethane-d4	88.1	79-115	%REC	1 11/07/2012 17:47	69152
Surrogate: Toluene-d8	100	80-114	%REC	1 11/07/2012 17:47	69152
Surrogate: Bromofluorobenzene	101	60-123	%REC	1 11/07/2012 17:47	69152

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

11/15/2012

Client: AECOM Technical Services, Inc.

Client Sample ID: INF 102612 Project: NOW Corp. Site

Lab ID: L2311-02 Collection Date: 10/26/12 11:35

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS (25 mL Purge)			SW	8260_25_W
Vinyl chloride	ND	10 ug/L	20 11/07/2012 18:13	69152
Chloroethane	ND	10 ug/L	20 11/07/2012 18:13	69152
1,1-Dichloroethene	33	10 ug/L	20 11/07/2012 18:13	69152
trans-1,2-Dichloroethene	ND	10 ug/L	20 11/07/2012 18:13	69152
Methyl tert-butyl ether	ND	10 ug/L	20 11/07/2012 18:13	69152
1,1-Dichloroethane	190	10 ug/L	20 11/07/2012 18:13	69152
cis-1,2-Dichloroethene	15	10 ug/L	20 11/07/2012 18:13	69152
1,1,1-Trichloroethane	410	10 ug/L	20 11/07/2012 18:13	69152
1,2-Dichloroethane	ND	10 ug/L	20 11/07/2012 18:13	69152
Benzene	ND	10 ug/L	20 11/07/2012 18:13	69152
Trichloroethene	410	10 ug/L	20 11/07/2012 18:13	69152
Toluene	ND	10 ug/L	20 11/07/2012 18:13	69152
1,1,2-Trichloroethane	ND	10 ug/L	20 11/07/2012 18:13	69152
Tetrachloroethene	ND	10 ug/L	20 11/07/2012 18:13	69152
Chlorobenzene	ND	10 ug/L	20 11/07/2012 18:13	69152
Ethylbenzene	ND	10 ug/L	20 11/07/2012 18:13	69152
m,p-Xylene	ND	10 ug/L	20 11/07/2012 18:13	69152
o-Xylene	ND	10 ug/L	20 11/07/2012 18:13	69152
Surrogate: Dibromofluoromethane	99.7	88-124 %REC	20 11/07/2012 18:13	69152
Surrogate: 1,2-Dichloroethane-d4	84.4	79-115 %REC	20 11/07/2012 18:13	69152
Surrogate: Toluene-d8	100	80-114 %REC	20 11/07/2012 18:13	69152
Surrogate: Bromofluorobenzene	104	60-123 %REC	20 11/07/2012 18:13	69152

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

**DF** - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

11/15/2012

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-1 102612 Project: NOW Corp. Site

Lab ID: L2311-03 Collection Date: 10/26/12 11:45

Analyses	Result Qua	al RL	Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS (25 mL Purge)				S	SW8260_25_W
Vinyl chloride	ND	2.0	ug/L	4 11/07/2012 18:41	69152
Chloroethane	ND	2.0	ug/L	4 11/07/2012 18:41	69152
1,1-Dichloroethene	10	2.0	ug/L	4 11/07/2012 18:41	69152
trans-1,2-Dichloroethene	ND	2.0	ug/L	4 11/07/2012 18:41	69152
Methyl tert-butyl ether	ND	2.0	ug/L	4 11/07/2012 18:41	69152
1,1-Dichloroethane	33	2.0	ug/L	4 11/07/2012 18:41	69152
cis-1,2-Dichloroethene	3.2	2.0	ug/L	4 11/07/2012 18:41	69152
1,1,1-Trichloroethane	ND	2.0	ug/L	4 11/07/2012 18:41	69152
1,2-Dichloroethane	ND	2.0	ug/L	4 11/07/2012 18:41	69152
Benzene	ND	2.0	ug/L	4 11/07/2012 18:41	69152
Trichloroethene	40	2.0	ug/L	4 11/07/2012 18:41	69152
Toluene	ND	2.0	ug/L	4 11/07/2012 18:41	69152
1,1,2-Trichloroethane	ND	2.0	ug/L	4 11/07/2012 18:41	69152
Tetrachloroethene	ND	2.0	ug/L	4 11/07/2012 18:41	69152
Chlorobenzene	ND	2.0	ug/L	4 11/07/2012 18:41	69152
Ethylbenzene	ND	2.0	ug/L	4 11/07/2012 18:41	69152
m,p-Xylene	ND	2.0	ug/L	4 11/07/2012 18:41	69152
o-Xylene	ND	2.0	ug/L	4 11/07/2012 18:41	69152
Surrogate: Dibromofluoromethane	101	88-124	%REC	4 11/07/2012 18:41	69152
Surrogate: 1,2-Dichloroethane-d4	79.7	79-115	%REC	4 11/07/2012 18:41	69152
Surrogate: Toluene-d8	101	80-114	%REC	4 11/07/2012 18:41	69152
Surrogate: Bromofluorobenzene	103	60-123	%REC	4 11/07/2012 18:41	69152

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

**DF** - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

11/15/2012

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-2A 102612 Project: NOW Corp. Site

Lab ID: L2311-04 Collection Date: 10/26/12 11:50

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS (25 mL Purge)			SW	8260_25_W
Vinyl chloride	ND	20 ug/L	40 11/07/2012 19:08	69152
Chloroethane	ND	20 ug/L	40 11/07/2012 19:08	69152
1,1-Dichloroethene	43	20 ug/L	40 11/07/2012 19:08	69152
trans-1,2-Dichloroethene	ND	20 ug/L	40 11/07/2012 19:08	69152
Methyl tert-butyl ether	ND	20 ug/L	40 11/07/2012 19:08	69152
1,1-Dichloroethane	200	20 ug/L	40 11/07/2012 19:08	69152
cis-1,2-Dichloroethene	ND	20 ug/L	40 11/07/2012 19:08	69152
1,1,1-Trichloroethane	510	20 ug/L	40 11/07/2012 19:08	69152
1,2-Dichloroethane	ND	20 ug/L	40 11/07/2012 19:08	69152
Benzene	ND	20 ug/L	40 11/07/2012 19:08	69152
Trichloroethene	480	20 ug/L	40 11/07/2012 19:08	69152
Toluene	ND	20 ug/L	40 11/07/2012 19:08	69152
1,1,2-Trichloroethane	ND	20 ug/L	40 11/07/2012 19:08	69152
Tetrachloroethene	ND	20 ug/L	40 11/07/2012 19:08	69152
Chlorobenzene	ND	20 ug/L	40 11/07/2012 19:08	69152
Ethylbenzene	ND	20 ug/L	40 11/07/2012 19:08	69152
m,p-Xylene	ND	20 ug/L	40 11/07/2012 19:08	69152
o-Xylene	ND	20 ug/L	40 11/07/2012 19:08	69152
Surrogate: Dibromofluoromethane	99.8	88-124 %REC	40 11/07/2012 19:08	69152
Surrogate: 1,2-Dichloroethane-d4	83.6	79-115 %REC	40 11/07/2012 19:08	69152
Surrogate: Toluene-d8	100	80-114 %REC	40 11/07/2012 19:08	69152
Surrogate: Bromofluorobenzene	102	60-123 %REC	40 11/07/2012 19:08	69152

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

**DF** - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

11/15/2012

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-3 102612 Project: NOW Corp. Site

Lab ID: L2311-05 Collection Date: 10/26/12 12:00

Analyses	Result Qu	ıal RL	Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS (25 mL Purge)				sv	V8260_25_W
Vinyl chloride	ND	0.50	ug/L	1 11/07/2012 19:34	69152
Chloroethane	ND	0.50	ug/L	1 11/07/2012 19:34	69152
1,1-Dichloroethene	1.9	0.50	ug/L	1 11/07/2012 19:34	69152
trans-1,2-Dichloroethene	ND	0.50	ug/L	1 11/07/2012 19:34	69152
Methyl tert-butyl ether	ND	0.50	ug/L	1 11/07/2012 19:34	69152
1,1-Dichloroethane	20	0.50	ug/L	1 11/07/2012 19:34	69152
cis-1,2-Dichloroethene	0.91	0.50	ug/L	1 11/07/2012 19:34	69152
1,1,1-Trichloroethane	14	0.50	ug/L	1 11/07/2012 19:34	69152
1,2-Dichloroethane	ND	0.50	ug/L	1 11/07/2012 19:34	69152
Benzene	ND	0.50	ug/L	1 11/07/2012 19:34	69152
Trichloroethene	30	0.50	ug/L	1 11/07/2012 19:34	69152
Toluene	ND	0.50	ug/L	1 11/07/2012 19:34	69152
1,1,2-Trichloroethane	ND	0.50	ug/L	1 11/07/2012 19:34	69152
Tetrachloroethene	ND	0.50	ug/L	1 11/07/2012 19:34	69152
Chlorobenzene	ND	0.50	ug/L	1 11/07/2012 19:34	69152
Ethylbenzene	ND	0.50	ug/L	1 11/07/2012 19:34	69152
m,p-Xylene	ND	0.50	ug/L	1 11/07/2012 19:34	69152
o-Xylene	ND	0.50	ug/L	1 11/07/2012 19:34	69152
Surrogate: Dibromofluoromethane	99.6	88-124	%REC	1 11/07/2012 19:34	69152
Surrogate: 1,2-Dichloroethane-d4	84.5	79-115	%REC	1 11/07/2012 19:34	69152
Surrogate: Toluene-d8	101	80-114	%REC	1 11/07/2012 19:34	69152
Surrogate: Bromofluorobenzene	101	60-123	%REC	1 11/07/2012 19:34	69152

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

**DF** - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

11/15/2012

Client: AECOM Technical Services, Inc.

Client Sample ID: TB 102612 Project: NOW Corp. Site Lab ID: L2311-06 Collection Date: 10/26/12 0:00

Result Qual **RL** Units **DF** Date Analyzed **Batch ID** Analyses SW846 8260C -- VOC by GC-MS (25 mL Purge) SW8260\_25\_W Vinyl chloride ND 0.50 ug/L 1 11/07/2012 20:02 69152 Chloroethane ND 0.50 ug/L 1 11/07/2012 20:02 69152 1,1-Dichloroethene ND 0.50 ug/L 1 11/07/2012 20:02 69152 trans-1,2-Dichloroethene ND 0.50 ug/L 1 11/07/2012 20:02 69152 0.50 ug/L 69152 Methyl tert-butyl ether ND 1 11/07/2012 20:02 1,1-Dichloroethane ND 0.50 ug/L 1 11/07/2012 20:02 69152 cis-1,2-Dichloroethene ND 0.50 ug/L 1 11/07/2012 20:02 69152 1,1,1-Trichloroethane ND 0.50 ug/L 1 11/07/2012 20:02 69152 1,2-Dichloroethane ND 0.50 ug/L 1 11/07/2012 20:02 69152 0.50 ug/L 69152 Benzene ND 1 11/07/2012 20:02 0.50 ug/L Trichloroethene ND 1 11/07/2012 20:02 69152 Toluene ND 0.50 ug/L 1 11/07/2012 20:02 69152 1,1,2-Trichloroethane ND 0.50 ug/L 1 11/07/2012 20:02 69152 Tetrachloroethene ND 0.50 ug/L 1 11/07/2012 20:02 69152 Chlorobenzene ND 0.50 ug/L 1 11/07/2012 20:02 69152 Ethylbenzene 69152 ND 0.50 ug/L 1 11/07/2012 20:02 m,p-Xylene ND 0.50 ug/L 1 11/07/2012 20:02 69152 o-Xylene ND 0.50 ug/L 69152 1 11/07/2012 20:02 101 88-124 %REC 1 11/07/2012 20:02 69152 Surrogate: Dibromofluoromethane Surrogate: 1,2-Dichloroethane-d4 87.7 79-115 %REC 1 11/07/2012 20:02 69152 80-114 %REC 1 11/07/2012 20:02 69152 Surrogate: Toluene-d8 102 60-123 %REC Surrogate: Bromofluorobenzene 101 1 11/07/2012 20:02 69152

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

## Spectrum Analytical, Inc. Featuring Hanibal Techn

ANALYTICAL QC SUMMARY REPORT SW8260\_25\_W AECOM Technical Services, Inc. L2311 Work Order: CLIENT:

**Date:** 11/15/2012

SW846 8260C -- VOC by GC-MS (25 mL Purge) NOW Corp. Site

Project:

Qual **%RPD RPDLimit** Run ID: V5\_121107B RPD Ref Val SeqNo: 1826910 0 0 0 %REC LowLimit HighLimit 114 124 115 Analysis Date: 11/07/12 17:20 Prep Date: 11/07/12 9:20 88 79 80 88.1 103 101 101 SPK Ref Val 0 0 SPK value 10.00 10.00 10.00 10.00 FestCode: SW8260\_25\_W 0.50 귐 Units: ug/L 0.19 0.14 0.13 0.18 0.19 0.16 0.12 0.13 0.14 0.20 0.17 0.22 0.24 0.11 0.13 0.13 0.17 MDL SampType: MBLK Batch ID: 69152 Result B B B 8 B 8 8.810 10.08 10.27 10.05 trans-1,2-Dichloroethene MB-69152 Surrogate: Toluene-d8 Sample ID: MB-69152 cis-1,2-Dichloroethene Dibromofluoromethane 1,1,1-Trichloroethane 1,1,2-Trichloroethane Methyl tert-butyl ether Bromofluorobenzene 1,1-Dichloroethene 1,1-Dichloroethane 1,2-Dichloroethane Tetrachloroethene Dichloroethane-d4 Surrogate: 1,2-Trichloroethene Chlorobenzene Ethylbenzene Chloroethane Vinyl chloride Surrogate: m,p-Xylene Client ID: o-Xylene Benzene Toluene Analyte

ANALYTICAL QC SUMMARY REPORT

SW8260\_25\_W

AECOM Technical Services, Inc.

NOW Corp. Site

L2311

Work Order:

Project:

CLIENT:

SW846 8260C -- VOC by GC-MS (25 mL Purge)

Sample ID: 1 CS-69152	SampType: I CS	TestCo	TestCode: SW8260 25 W		Pren Date: 11/07/12 9:20	11/07/12	0-50	G.	Run ID: V5 121107B	
Client ID: LCS-69152	Batch ID: <b>69152</b>	Uni	s <sup>'</sup>		Analysis Date:	11/07/12 16:00	16:00	Seq	SeqNo: 1826908	
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	owLimit P	HighLimit	RPD Ref Val	%RPD RPDLimit Qual
Vinyl chloride	9.757	0.15	0.50	10.00	0	9.76	77	120	0	
Chloroethane	9.880	0.24	0.50	10.00	0	98.8	75	135	0	
1,1-Dichloroethene	10.22	0.19	0.50	10.00	0	102	81	125	0	
trans-1,2-Dichloroethene	9.785	0.14	0.50	10.00	0	97.9	09	137	0	
Methyl tert-butyl ether	10.03	0.13	0.50	10.00	0	100	61	134	0	
1,1-Dichloroethane	9.743	0.18	0.50	10.00	0	97.4	82	120	0	
cis-1,2-Dichloroethene	9.917	0.19	0.50	10.00	0	99.2	84	116	0	
1,1,1-Trichloroethane	9.955	0.11	0.50	10.00	0	9.66	80	124	0	
1,2-Dichloroethane	9.994	0.16	0.50	10.00	0	6.66	98	117	0	
Benzene	9.921	0.12	0.50	10.00	0	99.2	81	121	0	
Trichloroethene	10.08	0.13	0.50	10.00	0	101	74	123	0	
Toluene	10.09	0.14	0.50	10.00	0	101	88	117	0	
1,1,2-Trichloroethane	9.936	0.20	0.50	10.00	0	99.4	83	121	0	
Tetrachloroethene	9.947	0.17	0.50	10.00	0	99.5	74	115	0	
Chlorobenzene	9.944	0.13	0.50	10.00	0	99.4	83	112	0	
Ethylbenzene	9.973	0.13	0.50	10.00	0	7.66	87	110	0	
m,p-Xylene	19.87	0.22	0.50	20.00	0	99.4	87	114	0	
o-Xylene	9.872	0.17	0.50	10.00	0	7.86	84	114	0	
Surrogate:	9.883		0.50	10.00	0	98.8	88	124	0	
Dibromofluoromethane										
Surrogate: 1,2- Dichloroethane-d4	9.739		0.50	10.00	0	97.4	79	115	0	
Surrogate: Toluene-d8	10.05		0.50	10.00	0	101	80	114	0	
Surrogate: Bromofluorobenzene	9.991		0.50	10.00	0	6.66	09	123	0	

B - Analyte detected in the associated Method Blank

ANALYTICAL QC SUMMARY REPORT

SW8260\_25\_W

AECOM Technical Services, Inc.

NOW Corp. Site

L2311

Work Order:

Project:

CLIENT:

SW846 8260C -- VOC by GC-MS (25 mL Purge)

	+					9,1		(				
Sample ID: <b>LCSD-69152</b> Client ID: <b>LCSD-69152</b>	Samp I ype: LCSD Batch ID: 69152	l estCo Unit	LestCade: <b>5W8Z60_Z5_W</b> Units: <b>ug/L</b>		Prep Date: 11/0//12 9:20 Analysis Date: 11/07/12 16:2	11/0//12 9:20 11/07/12 16:27	9:20 16:27	SeqN	Kun ID: V3_121107B SeqNo: 1826909			
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC L	LowLimit HighLimit	lighLimit	RPD Ref Val	%RPD RPDLimit		Oual
Vinyl chloride	9.755	0.15	0.50	10.00	0	9.76	77	120	9.757	0.0128	40	
Chloroethane	9.805	0.24	0.50	10.00	0	98.1	75	135	9.880	0.767	40	
1,1-Dichloroethene	10.23	0.19	0.50	10.00	0	102	81	125	10.22	0.152	40	
trans-1,2-Dichloroethene	9.686	0.14	0.50	10.00	0	6.96	09	137	9.785	1.02	40	
Methyl tert-butyl ether	9.753	0.13	0.50	10.00	0	97.5	61	134	10.03	2.77	40	
1,1-Dichloroethane	9.625	0.18	0.50	10.00	0	96.3	82	120	9.743	1.22	40	
cis-1,2-Dichloroethene	9.788	0.19	0.50	10.00	0	97.9	84	116	9.917	1.31	40	
1,1,1-Trichloroethane	10.03	0.11	0.50	10.00	0	100	80	124	9.955	0.767	40	
1,2-Dichloroethane	9.774	0.16	0.50	10.00	0	7.76	98	117	9.994	2.23	40	
Benzene	9.867	0.12	0.50	10.00	0	98.7	81	121	9.921	0.541	40	
Trichloroethene	9.792	0.13	0.50	10.00	0	97.9	74	123	10.08	2.91	40	
Toluene	9.842	0.14	0.50	10.00	0	98.4	88	117	10.09	2.47	40	
1,1,2-Trichloroethane	9.670	0.20	0.50	10.00	0	7.96	83	121	9.936	2.72	40	
Tetrachloroethene	9.972	0.17	0.50	10.00	0	7.66	74	115	9.947	0.25	40	
Chlorobenzene	9.896	0.13	0.50	10.00	0	0.66	83	112	9.944	0.476	40	
Ethylbenzene	066.6	0.13	0.50	10.00	0	6.66	87	110	9.973	0.176	40	
m,p-Xylene	19.86	0.22	0.50	20.00	0	99.3	87	114	19.87	0.0362	40	
o-Xylene	9.883	0.17	0.50	10.00	0	98.8	84	114	9.872	0.115	40	
Surrogate:	9.914		0.50	10.00	0	99.1	88	124	0			
Dibromofluoromethane												
Surrogate: 1,2- Dichloroethane-d4	9.484		0.50	10.00	0	94.8	79	115	0			
Surrogate: Toluene-d8	9.991		0.50	10.00	0	6.66	80	114	0			
Surrogate: Bromofluorobenzene	006.6		0.50	10.00	0	0.66	09	123	0			

B - Analyte detected in the associated Method Blank

11/19/2012

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF 102612 Project: NOW Corp. Site

**Lab ID:** L2311-01 **Collection Date:** 10/26/12 11:15

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C Metals by ICP				SW6010_W
Aluminum	ND	200 ug/L	1 11/14/2012 11:14	69228
Arsenic	ND	20 ug/L	1 11/14/2012 11:14	69228
Barium	92 J	200 ug/L	1 11/14/2012 11:14	69228
Chromium	ND	20 ug/L	1 11/14/2012 11:14	69228
Copper	ND	25 ug/L	1 11/14/2012 11:14	69228
Iron	ND	200 ug/L	1 11/14/2012 11:14	69228
Manganese	91	50 ug/L	1 11/14/2012 11:14	69228
Nickel	1.5 J	50 ug/L	1 11/14/2012 11:14	69228
Zinc	ND	50 ug/L	1 11/14/2012 11:14	69228
SW846 7470A Mercury by FIA				SW7470
Mercury	ND	0.20 µg/L	1 11/15/2012 10:51	69247

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

11/19/2012

Client: AECOM Technical Services, Inc.

Client Sample ID: INF 102612 Project: NOW Corp. Site

**Lab ID:** L2311-02 **Collection Date:** 10/26/12 11:35

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C Metals by ICP				SW6010_W
Aluminum	ND	200 ug/L	1 11/14/2012 11:18	69228
Arsenic	ND	20 ug/L	1 11/14/2012 11:18	69228
Barium	91 J	200 ug/L	1 11/14/2012 11:18	69228
Chromium	ND	20 ug/L	1 11/14/2012 11:18	69228
Copper	ND	25 ug/L	1 11/14/2012 11:18	69228
Iron	ND	200 ug/L	1 11/14/2012 11:18	69228
Manganese	120	50 ug/L	1 11/14/2012 11:18	69228
Nickel	1.5 J	50 ug/L	1 11/14/2012 11:18	69228
Zinc	ND	50 ug/L	1 11/14/2012 11:18	69228
SW846 7470A Mercury by FIA				SW7470
Mercury	0.046 J	0.20 μg/L	1 11/15/2012 10:53	69247

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

## Spectrum Analytical, Inc. Featuring Hanibal Tech

**Date:** 11/19/2012

ANALYTICAL QC SUMMARY REPORT **SW846 6010C** -- **Metals by ICP**  $SW6010_{W}$ AECOM Technical Services, Inc. NOW Corp. Site L2311 Work Order: CLIENT: Project:

Client ID:         MB-69228         Batch ID: 69228         Units: ug/L         RDL         RL         SPK value         SPK Ref Val         %REC LowLimit HighLimit         RPD Ref           Analyte         Result         MD         4.3         200         AREC LowLimit HighLimit         RPD Ref           Arsenic         ND         6.6         200         AREC LowLimit HighLimit         RPD Ref           Arsenic         ND         1.1         200         AREC LowLimit HighLimit         RPD Ref           Chromium         ND         1.1         200         AREC LowLimit HighLimit         RPD Ref           Chromium         ND         1.1         200         AREC LowLimit HighLimit         RPD Ref           Chromium         ND         3.6         20         AREC LowLimit HighLimit         RPD Ref           Chromium         ND         3.6         20         AREC LowLimit HighLimit         RPD Ref           Copper         ND         3.6         20         AREC LowLimit HighLimit         AREC LowLimit HighLimit         RPD Ref           Incompany         ND         3.6         AREC LowLimit HighLimit         AREC LowLim	Sample ID: <b>MB-69228</b>	SampType: MBLK	TestCoc	TestCode: SW6010_W		Prep Date:	Prep Date: 11/13/12 10:30 Run	Run ID: <b>OPTIMA3_121114A</b>	1114A	
e         Result         MDL         RL         SPK value         SPK Ref Val         %REC LowLimit HighLimit           um         ND         4.3         20	Client ID: <b>MB-69228</b>	Batch ID: <b>69228</b>	Unii	ts: ug/L		Analysis Date:		No: 1828691		
um ND 66  ND 4.3  I ND 1.1  ium ND 0.64  r ND 3.6  r ND 31  nese ND 0.85  ND 4.9	Analyte		MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val	RPD Ref Val %RPD RPDLimit Qual	Qual
ND 4.3  ND 1.1  IUM ND 0.64  IT ND 31  ND 31  ND 10  ND 0.85  ND 0.85	Aluminum	QN	99	200						
ium ND 1.1 r ND 0.64 r ND 3.6 ND 31 nese ND 10 ND 0.85 ND 0.85	Arsenic	QN.	4.3	20						
r ND 0.64 r ND 3.6 ND 31 nese ND 10 ND 0.85 ND 0.85	Barium	N N	1.1	200						
ND 3.6 ND 31 nese ND 10 ND 0.85 ND 4.9	Chromium	ON ON	0.64	20						
ND 31 ND 10 ND 0.85 ND 4.9	Copper	N N	3.6	30						
ND 10 ND 0.85 ND 4.9	Iron	N N	31	200						
ND 0.85 ND 4.9	Manganese	N N	10	50						
ND 4.9	Nickel	<u>R</u>	0.85	50						
	Zinc	ND	4.9	50						

Sample ID: LCS-69228	SampType: LCS	TestCo	TestCode: <b>SW6010_W</b>		Prep Date: 11/13/12 10:30	11/13/12	10:30	Run	Run ID: OPTIMA3_121114A	1114A	
Client ID: <b>LCS-69228</b>	Batch ID: <b>69228</b>	วั	Units: <b>ug/L</b>		Analysis Date: 11/14/12 9:34	11/14/12	9:34	Sed	SeqNo: <b>1828692</b>		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val %REC LowLimit HighLimit	%REC L	owLimit Hi	ighLimit	RPD Ref Val	RPD Ref Val %RPD RPDLimit Qual	Qual
Aluminum	9339	99	200	9100	0	103	80	120	0		
Arsenic	477.7	4.3	20	455.0	0	105	80	120	0		
Barium	9602	1.1	200	9100	0	106	80	120	0		
Chromium	940.9	0.64	20	910.0	0	103	80	120	0		
Copper	1184	3.6	30	1130	0	105	80	120	0		
Iron	4622	31	200	4550	0	102	80	120	0		
Manganese	2363	10	20	2270	0	104	80	120	0		
Nickel	2378	0.85	50	2270	0	105	80	120	0		
Zinc	2380	4.9	20	2270	0	105	80	120	0		

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT:	AECOM Technical Services, Inc.	ပ်	ANALY	TICAL QC	ANALYTICAL QC SUMMARY REPORT	<b>EPORT</b>		
Work Order: Project:	L2311 NOW Corp. Site		SW7470 SW846 7470A Mercury by FIA	1ercury by FL	4			
Sample ID: <b>MB-69247</b>	S	TestCode: SW7470		Prep Date:		Run ID: FIMS2_121115A	5A	
Client ID: MB-69247	247 Batch ID: <b>69247</b>	Units: <b>µg/L</b>		Analysis Date:	Analysis Date: 11/15/12 10:41	SeqNo: <b>1829862</b>		
Analyte	Result	MDL RL	SPK value	SPK Ref Val	SPK Ref Val %REC LowLimit HighLimit		RPD Ref Val %RPD RPDLimit Qual	Qual
Mercury	QN	0.028 0.20						
Sample ID: LCS-69247	9247 SampType: LCS	TestCode: SW7470		Prep Date:	Prep Date: 11/14/12 13:00 F	Run ID: FIMS2_121115A	5A	
Client ID: LCS-69247	9247 Batch ID: 69247	Units: <b>µg/L</b>		Analysis Date:	Analysis Date: 11/15/12 10:43	SeqNo: <b>1829864</b>		
Analyte	Result	MDL RL	SPK value	SPK Ref Val	SPK Ref Val %REC LowLimit HighLimit		RPD Ref Val %RPD RPDLimit Qual	Qual

80

109

4.550

0.20

0.028

4.948

Mercury

B - Analyte detected in the associated Method Blank

11/19/2012

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF 102612 Project: NOW Corp. Site

**Lab ID:** L2311-01 **Collection Date:** 10/26/12 11:15

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2540C TOTAL DISSOLVED SOLIDS				SM2540_TDS
Total Dissolved Solids	470	10 mg/L	1 10/30/2012 22:54	69126
SM 2540D TOTAL SUSPENDED SOLIDS				SM2540_TSS
Total Suspended Solids	ND	10 mg/L	1 10/30/2012 22:54	69127
SW846 9012B Total Cyanide				SW9012_W
Cyanide	ND	10 ug/L	1 11/08/2012 14:31	69192

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

11/19/2012

Client: AECOM Technical Services, Inc.

Client Sample ID: INF 102612 Project: NOW Corp. Site

**Lab ID:** L2311-02 **Collection Date:** 10/26/12 11:35

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2540C TOTAL DISSOLVED SOLIDS				SM2540_TDS
Total Dissolved Solids	300	10 mg/L	1 10/31/2012 2:06	69126
SM 2540D TOTAL SUSPENDED SOLIDS				SM2540_TSS
Total Suspended Solids	ND	10 mg/L	1 10/31/2012 2:06	69127
SW846 9012B Total Cyanide				SW9012_W
Cyanide	ND	10 ug/L	1 11/08/2012 14:33	69192

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

CLIENT:	AECOM Te	AECOM Technical Services, Inc.	ic.		ANALY	TICAL QC	ANALYTICAL QC SUMMARY REPORT	Y REPOR	T		
Work Order:	L2311			SMC	$SM2540\_TDS$						
Project:	NOW Corp. Site	Site		SM	SM 2540C TOTAL DISSOLVED SOLIDS	AL DISSOLV	ED SOLIDS				
Sample ID: <b>MB-69126</b> Client ID: <b>MB-69126</b>	126 126	SampType: MBLK Batch ID: 69126		TestCode: SM2540_TDS Units: mg/L		Prep Date: Analysis Date:	Prep Date: 10/30/12 16:30 Analysis Date: 10/30/12 16:30	Run ID: <b>MANUAI</b> SeqNo: <b>1827193</b>	Run ID: MANUAL_121030B SeqNo: 1827193	)30B	
Analyte Total Dissolved Solids	sp	Result	MDL 10	RL 10	SPK value	SPK Ref Val	SPK Ref Val %REC LowLimit HighLimit		ים Ref Val	RPD Ref Val %RPD RPDLimit Qual	Qual
Sample ID: LCS-69126 Client ID: LCS-69126	9126 3126	SampType: LCS Batch ID: 69126		TestCode: SM2540_TDS Units: mg/L		Prep Date: Analysis Date:	Prep Date: 10/30/12 16:30 Ilysis Date: 10/30/12 19:42	Run ID: MANUAL SeqNo: 1827194	Run ID: MANUAL_121030B SeqNo: 1827194	)30B	
Analyte Total Dissolved Solids	sp	Result 416.0	MDL 10	RL 10	SPK value	SPK Ref Val	%REC LowLimit HighLimit 99.5 80 120		RPD Ref Val	%RPD RPDLimit Qual	Qual
Sample ID: L2311-02CDUP Client ID: INF 102612	-02CDUP 2612	SampType: DUP Batch ID: 69126		TestCode: SM2540_TDS Units: mg/L		Prep Date: Analysis Date:	Prep Date: 10/30/12 16:30 lysis Date: 10/31/12 5:18	Run ID: <b>MANUAI</b> SeqNo: <b>1827197</b>	Run ID: MANUAL_121030B SeqNo: 1827197	330B	
Analyte Total Dissolved Solids	sp	Result 298.0	MDL 10	RL 10	SPK value	SPK Ref Val	%REC LowLimit HighLimit		RPD Ref Val	%RPD RPDLimit Qual	Qual

ANALYTICAL QC SUMMARY REPORT	SM2540_TSS	SM 2540D TOTAL SUSPENDED SOLIDS
AECOM Technical Services, Inc.	L2311	NOW Corp. Site
CLIENT:	Work Order:	Project:

					1		!			
Sample ID: MB-69127	SampType: MBLK		TestCode: SM2540_TSS		Prep Date:	Prep Date: 10/30/12 16:30	Run ID	Run ID: MANUAL_121030C	030C	
Client ID: MB-69127	Batch ID: <b>69127</b>		Units: mg/L		Analysis Date:	Analysis Date: 10/30/12 16:30	SedNo	SeqNo: <b>1827218</b>		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	lighLimit	RPD Ref Val	%RPD RPDLimit Qual	Qual
Total Suspended Solids	ND	10	10							
Sample ID: <b>LCS-69127</b>	SampType: LCS		TestCode: SM2540_TSS		Prep Date:	Prep Date: 10/30/12 16:30	Run ID	Run ID: MANUAL_121030C	030C	
Client ID: <b>LCS-69127</b>	Batch ID: <b>69127</b>		Units: mg/L		Analysis Date:	Analysis Date: 10/30/12 19:42	SedNo	SeqNo: <b>1827219</b>		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	SPK Ref Val %REC LowLimit HighLimit	lighLimit	RPD Ref Val	RPD Ref Val %RPD RPDLimit Qual	Qual
Total Suspended Solids	51.00	10	10	49.30	0	103 80	120	0		
Sample ID: L2311-02CDUP	SampType: <b>DUP</b>		TestCode: SM2540_TSS		Prep Date:	Prep Date: 10/30/12 16:30	Run ID	Run ID: MANUAL_121030C	030C	
Cilent ID: INF 102612	Batch ID: <b>6912/</b>		Units: mg/L		Analysis Date:	Analysis Date: 10/31/12 5:18	Sedivo	SeqNo: 182/222		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	SPK Ref Val %REC LowLimit HighLimit	lighLimit	RPD Ref Val	%RPD RPDLimit Qual	Qual
Total Suspended Solids	N N	10	10	0	0	0 0	0	0	0 5.0	

MARY REPORT			
ANALYTICAL QC SUMMARY REPORT	$SW9012_W$	SW846 9012B Total Cyanide	
AECOM Technical Services, Inc.	L2311	NOW Corp. Site	
CLIENT:	Work Order:	Project:	

Sample ID: <b>MB-69192</b>	SampType: <b>MBLK</b>	TestCo	TestCode: SW9012_W		Prep Date:	Prep Date: 11/08/12 9:45	Run ID: LACHAT1_121108A	21108A
Client ID: MB-69192	Batch ID: <b>69192</b>	j	Units: ug/L		Analysis Date:	Analysis Date: 11/08/12 14:18	SeqNo: <b>1825789</b>	
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	SPK Ref Val %REC LowLimit HighLimit		RPD Ref Val %RPD RPDLimit Qual
Cyanide	QN	7.5	20					
Sample ID: LCS-69192	SampType: LCS	TestC	TestCode: SW9012_W		Prep Date:	Prep Date: 11/08/12 9:45	Run ID: LACHAT1_121108A	21108A
Client ID: LCS-69192	Batch ID: <b>69192</b>	j	Units: ug/L		Analysis Date:	Analysis Date: 11/08/12 14:21	SeqNo: <b>1825790</b>	
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	SPK Ref Val %REC LowLimit HighLimit		RPD Ref Val %RPD RPDLimit Qual
Cyanide	95.83	7.5	20	100.0	0	95.8 80 1	120 0	

Report Date: 09-Nov-12 12:43



☑ Final Report☐ Re-Issued Report☐ Revised Report

Laboratory Report

Spectrum Analytical, Inc. 646 Camp Ave.

North Kingstown, RI 02852

Attn: Edward Lawler

Project: See Chain of Custody

Project #: L2311

<b>Laboratory ID</b>	Client Sample ID	<u>Matrix</u>	<b>Date Sampled</b>	<b>Date Received</b>
SB59200-01	EFF 102612	Aqueous	26-Oct-12 11:15	01-Nov-12 15:10
SB59200-02	INF 102612	Aqueous	26-Oct-12 11:35	01-Nov-12 15:10

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110 Connecticut # PH-0777 Florida # E87600/E87936 Maine # MA138 New Hampshire # 2538 New Jersey # MA011/MA012 New York # 11393/11840 Pennsylvania # 68-04426/68-02924 Rhode Island # 98 USDA # S-51435



Authorized by:

Nicole Leja Laboratory Director

Ticolo Leja

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 6 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

### **CASE NARRATIVE:**

The samples were received 0.5 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of  $\pm 1.0$  degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Identification EFF 102612 SB59200-01			Client F	<u>Project #</u> 311		<u>Matrix</u> Aqueous		ection Date 5-Oct-12 11			ceived Nov-12	
CAS No. Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocarl	bons											
Oil & Grease	< 1.00	OG	mg/l	1.00	0.619	1	EPA 1664A	06-Nov-12	07-Nov-12	JK	1227226	Χ

Sample Identification INF 102612 SB59200-02			Client F	<u>Project #</u> 311		<u>Matrix</u> Aqueous		ection Date 5-Oct-12 11			ceived Nov-12	
CAS No. Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Extractable Petroleum Hydrocar	bons											
Oil & Grease	< 1.00	OG	mg/l	1.00	0.619	1	EPA 1664A	06-Nov-12	07-Nov-12	JK	1227226	Χ

### **Extractable Petroleum Hydrocarbons - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1227226 - SW846 3510C										
Blank (1227226-BLK1)					Pre	pared: 06-Nov	-12 Analyzed	: 07-Nov-12		
Oil & Grease	< 1.00		mg/l	1.00						
LCS (1227226-BS1)					Pre	pared: 06-Nov	-12 Analyzed	: 07-Nov-12		
Oil & Grease	36.7		mg/l		41.6		88	83-101		

### **Notes and Definitions**

Sample results reported on a dry weight basis dry

NR Not Reported

RPD Relative Percent Difference

OG The required Matrix Spike and Matrix Spike Duplicate (MS/MSD) for Oil & Grease method 1664A can only be analyzed

when the client has submitted sufficient sample volume. An extra liter per MS/MSD is required to fulfill the method QC criteria. Please refer to Chain of Custody and QC Summary (MS/MSD) of the Laboratory Report to verify ample sample

volume was submitted to fulfill the requirement.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

> Validated by: Kimberly Wisk



## Subcontractor:

Spectrum Analytical, Inc.

Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQuISFacilityCode: N/A

INF 102612 EFF 102612 Client Sample ID

10/26/2012 11:35:00 AM 10/26/2012 11:15:00 AM Collection Date

## CHAIN-OF-CUSTODY RECORD

Report Type: LEVEL 2 WorkOrder: L2311

Requested Test

Due Date: 11/15/2012

FAX Due Date:

Purchase Order: L2311 Matrix Aqueous Aqueous EDD Type: Report To: Edward A Lawler DUP/MS/MSD Mitkem Sample ID L2311-01E E1664

L2311-02E

1) E1664, OIL GREASE, HEM

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments: PEL EDD is required for this sub-contracted work instead of the EDD listed above.



Relinquished by: Relinquished by:

WorkOrder: L2311

EDD:

Fax Report:

Report Level: LEVEL 2 Special Program: HC Due: 11/15/12 Fax Due: Case: SDG: Project: NOW Corp. Site Client ID: EARTH\_NY

WO Name: NOW Corp. Site

Location: NOW\_CORP, Comments: N/A

Lab Samp ID	Lab Samp ID Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF HT MS SEL Storage	Storage
L2311-01A	EFF 102612	10/26/2012 11:15	10/29/2012	Aqueous	SW8260_25_W	/	^ <b>\</b>	VOA
L2311-01B L2311-01B	EFF 102612 EFF 102612	10/26/2012 11:15 10/26/2012 11:15	10/29/2012 10/29/2012	Aqueous	SW6010_W SW7470	/ See SEL list / See SEL list	> N	M3 M3
L2311-01C L2311-01C	EFF 102612 EFF 102612	10/26/2012 11:15 10/26/2012 11:15	10/29/2012 10/29/2012	Aqueous	SM2540_TDS SM2540_TSS	,	<u> </u>	
L2311-01D	EFF 102612	10/26/2012 11:15	10/29/2012	Aqueous	SW9012_W	/	Y F1	_
L2311-01E	EFF 102612	10/26/2012 11:15	10/29/2012	Aqueous	E1664	/SPECTRUM	S	SUB
L2311-02A	INF 102612	10/26/2012 11:35	10/29/2012	Aqueous	SW8260_25_W	/	<i>&gt; →</i>	VOA
L2311-02B L2311-02B	INF 102612 INF 102612	10/26/2012 11:35 10/26/2012 11:35	10/29/2012 10/29/2012	Aqueous Aqueous	SW6010_W SW7470	/ See SEL list / See SEL list	> ×	M3 M3
L2311-02C L2311-02C	INF 102612 INF 102612	10/26/2012 11:35 10/26/2012 11:35	10/29/2012 10/29/2012	Aqueous	SM2540_TDS SM2540_TSS	,	7 7	
L2311-02D	INF 102612	10/26/2012 11:35	10/29/2012	Aqueous	SW9012_W		Y F1	_
L2311-02E	INF 102612	10/26/2012 11:35	10/29/2012	Aqueous	E1664	/ SPECTRUM	S	SUB
L2311-03A	TW-1 102612	10/26/2012 11:45	10/29/2012	Aqueous	SW8260_25_W	/	<i>&gt; →</i>	VOA
L2311-04A	TW-2A 102612	10/26/2012 11:50	10/29/2012	Aqueous	SW8260_25_W	/	> >	VOA
L2311-05A	TW-3 102612	10/26/2012 12:00	10/29/2012	Aqueous	SW8260_25_W	/	> >	VOA
L2311-06A	TB 102612	10/26/2012 00:00	10/29/2012	Aqueous	SW8260_25_W		۸ ۸	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

	i.
LABORATORIES	

# CHAIN OF CUSTODY RECOR

Page \_\_\_

Min. 24-hour notification needed for rushes.

Samples disposed of after 30 days unless otherwise instructed.

60276639

COLD

Site Name: Nou

Project No.:\_

Samo

Invoice To:\_

Bind

American

at maun

Report To:\_\_ 2 Location: States burg

State: M

Project Mor. Strohow Chy	Chaining	No.			PON.			Sampler(s):		360			
		I .O. IVO					<del>-,-</del>						
$1=Na_2S2O_3$ $2=HCl$ $3=H_2SO_4$	4=HNO <sub>3</sub>	5=NaOH 6	6=Ascorbic Acid	Acid	7=CH <sub>3</sub> OH	H		ist prese	rvative	List preservative code below:	*		
8= NaHSO <sub>4</sub> 9=	10=		11=		,		0	4	2 2			Ż	Notes:
DW=Drinking Water GW=Groundwater	lwater WW=Wastewater	tewater			Containers:	ers:			Analyses:	S:		QA/QC Re	QA/QC Reporting Level
	SI	A=Air		S			•		,			☐ Level I	☐ Level II
				lsi\			<u> </u>			<b>3</b> <i>x</i>		☐ Level III	☐ Level IV
G=Grab C=C	C=Composite					oitse	9		9	211		□ Other	
Lab Id: Samule Id:	Date.	Time.	Type Matrix	)V îo #	# of Ar	3ld Jo #	28	to M SQT	+0	ראמ		State specific re	State specific reporting standards:
出	7	11:15	(D)	()	m	W	X	- X X	X	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		X JV IV	As. R. Cr
1- 02 INF 102612		1:35	<del>                                     </del>	(PPrografic	<b>5</b>	3	X	X	ヤヤ	\\		1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
53 TW-1 102612		1:45					X						2 12015
28102612	://	1:50					X						
- 05 TW-3 102612	21	00:2	- D				×						
2311-647B 102612				D			X						
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□ E-mail to		550.54		Relinqui	Relinquished by:				Received by:	by:		Date:	Time:
EDD Format			A	1 h	1	il in		TE	(EX			21-92-01	14:05
			12	à	)	ļ		33	A. S.	Zora			35.8
Condition upon receipt: Acced Ambient Acc	bient $\mathbb{K}^{c} \subseteq \mathbb{K}^{2}$ (	2											

175 Metro Center Boulevard • Warwick, RI 02886-1755 • 401-732-3400 • Fax 401-732-3499 • www.mitkem.com

Received By: \( \( \beta \)	2	reari							l of 00	
Reviewed By:	<del></del>						L	og-in	Date 10/	29/2012
Work Order: 2311	Client Name: Al	ECOM	Technical	Serv	ices,	Inc.				
Project Name/Event:	NOW Corp. Site	· · · · ·								
Remarks: (1/2) Please s sample/extract transfer submitted with this dat	r logbook pages	Lab	Sample ID	ниоз	Preser	vatio		H3PO4	VOA	Soil HeadSpace or Air Bubble > or equal to 1/4"
1. Custody Seal(s)	Present / Absent		L2311-01	<2		<2 -	>12		Matrix H	
	Intact / Broken		L2311-01	<2		<2	>12		H	
2. Custody Seal Nos.	N/A		L2311-02	\2			712		H	
		-	L2311-03						Н	
3. Traffic Reports/ Chain of Custody Records	Present / Absent		L2311-04						Н	
(TR/COCs) or Packing Lists			L2311-05						Н	
11000			L2311-00						11	
4. Airbill	AirBill/Sticker									
	Present / Absent									
5. Airbill No.	FedEx 8996 2349 5896									
6. Sample Tags	Present / Absent									*
Sample Tag Numbers	Tresente / Abbente									
Sample ray rambels	Listed/									
	Not Listed on Chain-									
	of-Custody									,
7. Sample Condition	Intact / Broken/									
	Leaking									
8. Cooler Temperature Indicator Bottle	Present/Absent	$\triangleright$								
9. Cooler Temperature	8 °C									
10. Does information on TR/COCs and sample tags agree?	Yes / No									
11. Date Received at Laboratory	10/29/2012									•
12. Time Received	08:34									
Sample '	Transfer								•	
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO									
Area #	Area #									
Ву	Ву									
On	On									
IR Temp Gun ID:MT-1			V	OA Matr	x Key:					
CoolantCondition: ICE		·			US = Un	preserv	ed Soil	A=	- Air	
Preservative Name/Lot No:	٠.				UA = Un			ous H	= HCI	
_					M = MeC				= Encore	
					N = NaH	SO4		F:	= Freeze	
			Se	e Samp	le Condi	tion Not	tification	/Correcti	ve Action For	m Yes / No
						_		•		
			Ra	ad OK	Yes /	No				

### **Edward Lawler [Warwick]**

From: Choiniere, Stephen R. [Stephen.Choiniere@aecom.com]

**Sent:** Monday, October 29, 2012 10:58 AM

To: Edward Lawler [Warwick]
Cc: Gray, Steve; Kindlon, Tracy

Subject: RE: NOW corp samples arrived today

That was an error. Do the requested analyses anyway, please.

From: Edward Lawler [Warwick] [mailto:elawler@spectrum-analytical.com]

**Sent:** Monday, October 29, 2012 10:52 AM

To: Choiniere, Stephen R.

Subject: RE: NOW corp samples arrived today

No, the cooler was shipped Priority Overnight, but not Saturday Delivery (both options need to be selected for Sat delivery).

-\_Ed

From: Choiniere, Stephen R. [mailto:Stephen.Choiniere@aecom.com]

Sent: Monday, October 29, 2012 10:23 AM

**To:** Edward Lawler [Warwick]

Subject: RE: NOW corp samples arrived today

Wasn't the cooler marked for Saturday delivery, in which case they'd have been checked in on Saturday?

**From:** Edward Lawler [Warwick] [mailto:elawler@spectrum-analytical.com]

**Sent:** Monday, October 29, 2012 8:58 AM

To: Choiniere, Stephen R.

Subject: NOW corp samples arrived today

Hi Steve-

We have a set of samples from the NOW Corp site that we just received today, but the cooler is a bit warm, at 8.6 degrees. Our normal acceptance criteria go up to 6 degrees C. but if this were under our EPA CLP contract, we'd have no issue if the temp was up to 10 degrees C.

Can you let me know whether to proceed with these?

Thanks.

--Ed

Edward A. Lawler

Senior Project Manager/Business Development, Spectrum Analytical, RI Division, featuring Hanibal Technology (formerly Mitkem)

401-732-3400 x315 401-732-3499 (fax)

We will be MOVING! The RI Division of Spectrum Analytical is moving to a new laboratory facility at 646 Camp Avenue, North Kingstown, RI 02852. Our phone numbers will not change. After November 21, all sample shipments must be sent to the new address.

Due to rising cost of rush shipments, Spectrum Analytical requests that you allow sufficient time for all sample bottle kit requests, 3 days notice at a minimum. If you need an expedited kit request Spectrum Analytical will provide the kit but will request that you pay for the shipping. Spectrum Analytical will continue to pay for all shipping previously agreed to, given proper notification. Thank you for your

Last Page of Data Report