

Operation, Maintenance and Monitoring Report December 2010

**NOW Corporation
Site 3-14-008**

**Work Assignment No.
D004445-4.2**

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

March 2011

March 23, 2011

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

**Re: NOW Corporation - Site #3-14-008
O&M Summary Report: "December" 2010**

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 40-day period (**November 18 – December 28, 2010**).

With the exceptions noted below, if any, the P&T system was online and operational throughout the reporting period. Approximately 627,000 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 15,675 gallons per day (gpd), approximately 70 percent higher than the 9,200 gpd in the prior reporting period.

As of the last day of the reporting period, a total of 81,312,000 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 December 28, 2010. **Effluent limitations were not exceeded for any analyte.** A copy of the analytical laboratory report is attached. Table 2 and Table 3 summarize selected operational data and quarterly groundwater levels, respectively, as recorded on the sampling date. Monitoring well locations are shown on Figure 1.

AECOM made one site visit during the period to conduct the required system inspection, perform scheduled and/or unscheduled maintenance, perform groundwater level measurements, and to collect water samples. The November 18 service visit was described in the previous report. Details for the current period follow:

December 28 – Monthly O&M service visit. At AECOM's request, Staat Construction plowed 16 inches of snow from the driveway to enable our access. Collected influent and effluent samples and monitoring wells water levels. Changed out effluent pump, which will be cleaned during next service visit.

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: December 28, 2010
NOW Corporation Site
Town of Clinton, New York

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Effluent Limitations	
			TW-1	TW-2A	TW-3	Monitor 6.5 to 8.5	(units) gallons standard units
Quantity treated, per day		15,675					
pH	7.2	7.0					
Oil and Grease	<5.0	<5.0	NA	NA	NA	15	mg/L
Total Cyanide	<10	<10	NA	NA	NA	10	ug/L
TDS	290	290	NA	NA	NA	1000	mg/L
TSS	<10	<10	NA	NA	NA	50	mg/L
Aluminum, Total	<200	<200	NA	NA	NA	2000	ug/L
Arsenic, Total	<20	<20	NA	NA	NA	50	ug/L
Barium, Total	75 J	79 J	NA	NA	NA	2000	ug/L
Chromium	0.83 J	0.81 J	NA	NA	NA	100	ug/L
Copper	<25	<25	NA	NA	NA	24	ug/L
Iron	48 J	<200	NA	NA	NA	600	ug/L
Mercury	<0.20	<0.20	NA	NA	NA	0.8	ug/L
Manganese	150	86	NA	NA	NA	600	ug/L
Nickel	1.5 J	1.5 J	NA	NA	NA	200	ug/L
Zinc	12 J	16 J	NA	NA	NA	150	ug/L
1,1,1-Trichloroethane	330	<0.50	1.5	610	10	5	ug/L
1,1,2-Trichloroethane	<13	<0.50	<0.50	<20	<0.50	1.2	ug/L
1,1-Dichloroethane	110	<0.50	48	190	18	5	ug/L
1,1-Dichloroethene	54	<0.50	13	97	2.7	0.5	ug/L
1,2-Dichloroethane	<13	<0.50	<0.50	<20	<0.50	1.6	ug/L
Benzene	<13	<0.50	<0.50	<20	<0.50	0.8	ug/L
Chlorobenzene	<13	<0.50	<0.50	<20	<0.50	5	ug/L
Chloroethane	<13	<0.50	0.36 J	<20	<0.50	5	ug/L
cis -1,2-Dichloroethene	10 J	<0.50	3.2	18 J	0.35 J	5	ug/L
Ethylbenzene	<13	<0.50	<0.50	<20	<0.50	5	ug/L
Methyl tert-butyl ether	<13	<0.50	<0.50	<20	<0.50	5	ug/L
o-Xylene	<13	<0.50	<0.50	<20	<0.50	5	ug/L
p&m-Xylene	<13	<0.50	<0.50	<20	<0.50	10	ug/L
Tetrachloroethene	<13	<0.50	<0.50	<20	<0.50	1.4	ug/L
Toluene	<13	<0.50	<0.50	<20	<0.50	5	ug/L
trans -1,2-Dichloroethene	<13	<0.50	<0.50	<20	<0.50	5	ug/L
Trichloroethene	270	<0.50	47	480	17	5	ug/L
Vinyl Chloride	<13	<0.50	0.77	<20	<0.50	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) "D" denotes analytical result for a diluted sample.
- 6) "B" denotes metal detected in method blank at concentration below the RL, but above the method detection limit.

Table 2
Summary of December 2010 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		12/28/10	Units
<i>TW-1</i>			
	Pumping Rate	3	GPM
	Water Level Above Transducer	34.43	feet
	Flow Meter Reading	5,817,400	gallons
	Pump Pressure	85	psi
<i>TW-2A</i>			
	Pumping Rate	~14	GPM
	Water Level Above Transducer	41.23	feet
	Flow Meter Reading	19,138,300	gallons
	Pump Pressure	20	psi
<i>TW-3</i>			
	Pumping Rate	4	GPM
	Water Level Above Transducer	47.83	feet
	Flow Meter Reading	8,395,100	gallons
	Pump Pressure	66	psi
<i>Air Stripper</i>			
	Stripper Blower Pressure	20	inches H ₂ O
	Air Temperature in Stripper	50	°F
	Pressure Gauge - Left Leg	1.6	inches H ₂ O
	Pressure Gauge - Right Leg	2.0	inches H ₂ O
<i>Effluent Flow</i>			
	Effluent Flow this period (calculated)	627,000	gallons
	Total Effluent Flow (calculated)	81,312,000	gallons

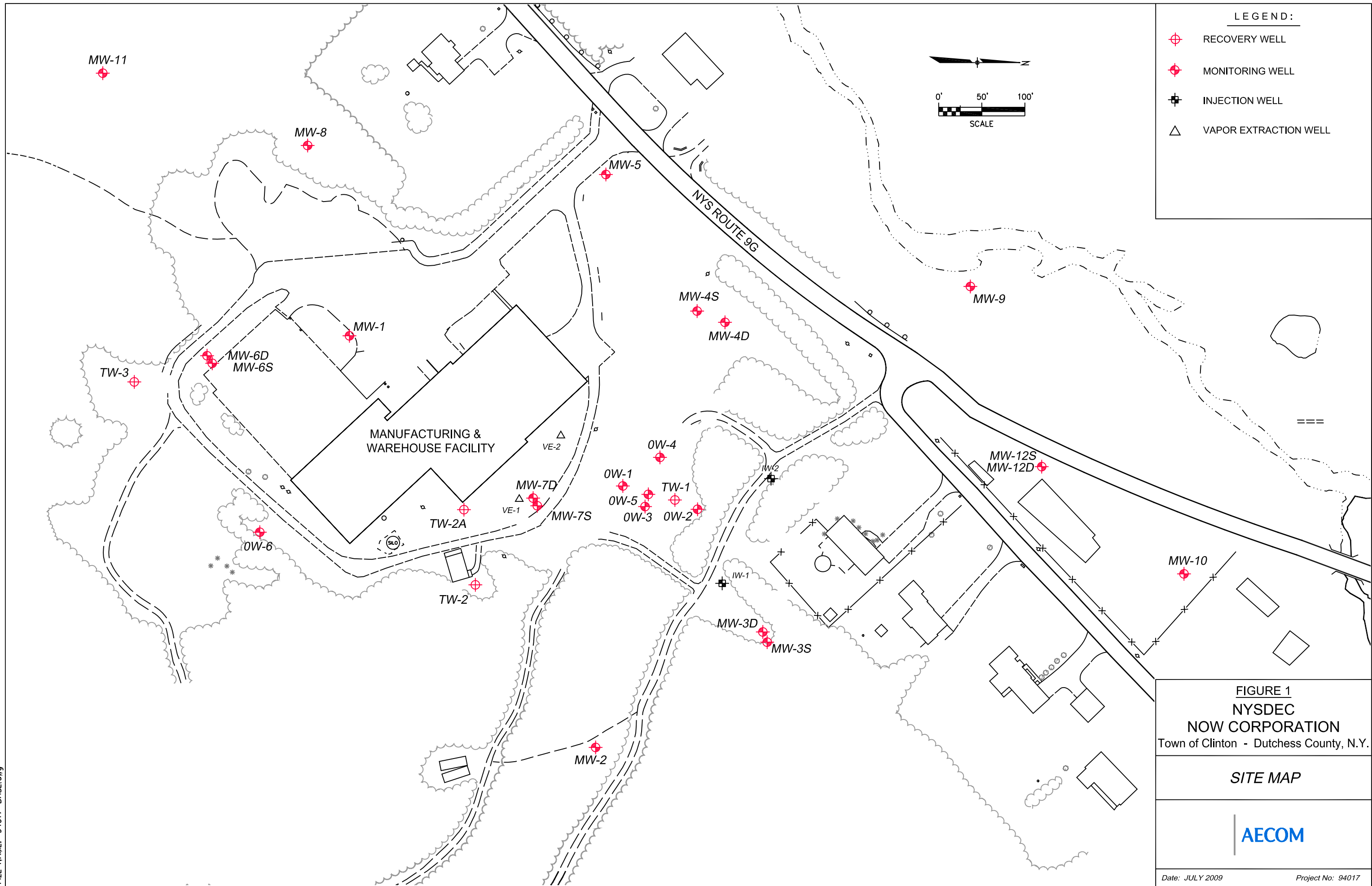
Table 3
December 2010 Groundwater Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	MP Elevation	12/28/10	
		Depth to Water (Ft below MP)	GW Elevation
MW-1	289.50	12.50	277.00
MW-2	332.51	28.41	304.10
MW-3	312.83	29.36	283.47
MW-3S	312.51	25.66	286.85
MW-4	298.29	22.43	275.86
MW-4D	298.16	22.25	275.91
MW-5	285.48	19.40	266.08
MW-6S	287.90	4.85	283.05
MW-6D	287.25	9.64	277.61
MW-7S	292.12	27.13	264.99
MW-7D	292.54	57.98	234.56
OW-1	307.75	51.40	256.35
OW-2	305.96	70.90	235.06
OW-6	294.81	5.85	288.96
IW-1	312.46	34.85	277.61
IW-2	306.56	40.23	266.33

Note: N/A indicates data are not available.
MP denotes measuring point.

FILE NAME: 94017-BASE.dwg



Report Date:
20-Jan-11 12:50



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

Laboratory Report

AECOM Technical Services, Inc.
40 British American Boulevard
Latham, NY 12110

Work Order: J2686
Project : NOW Corp. Site
Project #:

Attn: Stephen Choiniere

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
J2686-01	EFF 122810	Aqueous	28-Dec-10 11:00	29-Dec-10 08:40
J2686-02	INF 122810	Aqueous	28-Dec-10 11:20	29-Dec-10 08:40
J2686-03	TW-1	Aqueous	28-Dec-10 11:35	29-Dec-10 08:40
J2686-04	TW-2A	Aqueous	28-Dec-10 11:40	29-Dec-10 08:40
J2686-05	TW-3A	Aqueous	28-Dec-10 11:45	29-Dec-10 08:40
J2686-06	TRIP BLANK	Aqueous	28-Dec-10 00:00	29-Dec-10 08:40

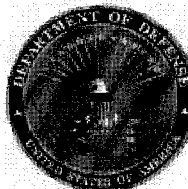
I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the sample(s) as received. This report may not be reproduced, except in full, without written approval from Mitkem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

All applicable NELAC or USEPA CLP requirements have been met.

Mitkem Laboratories is accredited under the National Environmental Laboratory Approval Program (NELAP) and is certified by several States, as well as USEPA and US Department of Defense. The current list of our laboratory approvals and certifications is available on the Certifications page our web site at www.mitkem.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	N/A
Connecticut	PH-0153
Delaware	N/A
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LAI00301
Texas	T104704422-08-TX
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-05-030



Authorized by:

A handwritten signature, likely of the Laboratory Director.

Yihai Ding
Laboratory Director

Technical Reviewer's Initials:

A handwritten signature, likely of the Technical Reviewer.

REPORT NARRATIVE
Mitkem Laboratories, a Division of Spectrum Analytical, Inc.
Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: J2686

SW846 8260C

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: SW5030B_25_PR(METHOD)

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V6

Instrument Type: GCMS-VOA

Description: HP6890 / HP5973

Manufacturer: Hewlett-Packard

Model: 6890 / 5973

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.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following samples were analyzed at dilution:

INF 122810 (J2686-02A) : Dilution Factor: 25

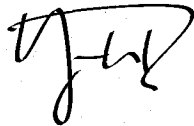
TW-1 (J2686-03ADL) : Dilution Factor: 2

TW-2A (J2686-04A) : 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 Mitkem, 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: 1/18/2011

REPORT NARRATIVE
Mitkem Laboratories, a Division of Spectrum Analytical, Inc.
Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: J2686

EPA 1664A

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: EPA 1664A

IV. INSTRUMENTATION

The following instrumentation was used to perform Oil and Grease analysis

Instrument Type: Analytical Balance

Manufacturer: Denver Instrument Company

Model: A-250

V. ANALYSIS

A. Calibration:

Analytical balance was calibrated based on SOP/Method 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.

D. 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 Mitkem, 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:

Edward A. Lash
1/20/11

REPORT NARRATIVE
Mitkem Laboratories, a Division of Spectrum Analytical, Inc.
Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: J2686

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: ICP_W_PR(3005A)

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: FIMS1

Instrument Type: CVAA

Description: FIMS

Manufacturer: Perkin-Elmer

Model: FIMS

Instrument Code: OPTIMA2

Instrument Type: ICP

Description: Optima 3100 XL

Manufacturer: Perkin-Elmer

Model: 3100 XL

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

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.

D. Samples:

No 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 Mitkem, 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: _____

1/20/11

REPORT NARRATIVE
Mitkem Laboratories, a Division of Spectrum Analytical, Inc.
Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: J2686

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

V. INSTRUMENTATION

The following instrumentation was used

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.

D. Duplicate sample:

Relative percent differences were within the QC limits.

E. Samples:

No 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 Mitkem, 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: _____

Mitkem Laboratories

Date: 18-Jan-11

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF 122810

Lab ID: J2686-01

Project: NOW Corp. Site

Collection Date: 12/28/10 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		0.50	µg/L		101/03/2011 11:05	56702
Chloroethane	ND		0.50	µg/L		101/03/2011 11:05	56702
1,1-Dichloroethene	ND		0.50	µg/L		101/03/2011 11:05	56702
trans-1,2-Dichloroethene	ND		0.50	µg/L		101/03/2011 11:05	56702
Methyl tert-butyl ether	ND		0.50	µg/L		101/03/2011 11:05	56702
1,1-Dichloroethane	ND		0.50	µg/L		101/03/2011 11:05	56702
cis-1,2-Dichloroethene	ND		0.50	µg/L		101/03/2011 11:05	56702
1,1,1-Trichloroethane	ND		0.50	µg/L		101/03/2011 11:05	56702
1,2-Dichloroethane	ND		0.50	µg/L		101/03/2011 11:05	56702
Benzene	ND		0.50	µg/L		101/03/2011 11:05	56702
Trichloroethene	ND		0.50	µg/L		101/03/2011 11:05	56702
Toluene	ND		0.50	µg/L		101/03/2011 11:05	56702
1,1,2-Trichloroethane	ND		0.50	µg/L		101/03/2011 11:05	56702
Tetrachloroethene	ND		0.50	µg/L		101/03/2011 11:05	56702
Chlorobenzene	ND		0.50	µg/L		101/03/2011 11:05	56702
Ethylbenzene	ND		0.50	µg/L		101/03/2011 11:05	56702
m,p-Xylene	ND		0.50	µg/L		101/03/2011 11:05	56702
o-Xylene	ND		0.50	µg/L		101/03/2011 11:05	56702
Surrogate: Dibromofluoromethane	106		88-124	%REC		101/03/2011 11:05	56702
Surrogate: 1,2-Dichloroethane-d4	94.2		79-115	%REC		101/03/2011 11:05	56702
Surrogate: Toluene-d8	99.0		80-114	%REC		101/03/2011 11:05	56702
Surrogate: Bromofluorobenzene	94.3		60-123	%REC		101/03/2011 11:05	56702

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation 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
RL - Reporting Limit

Mitkem Laboratories

Date: 18-Jan-11

Client: AECOM Technical Services, Inc.

Client Sample ID: INF 122810

Lab ID: J2686-02

Project: NOW Corp. Site

Collection Date: 12/28/10 11:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS (25 mL Purge)				SW8260_25_W
Vinyl chloride	ND	13 µg/L	25 01/03/2011 13:06	56702
Chloroethane	ND	13 µg/L	25 01/03/2011 13:06	56702
1,1-Dichloroethene	54	13 µg/L	25 01/03/2011 13:06	56702
trans-1,2-Dichloroethene	ND	13 µg/L	25 01/03/2011 13:06	56702
Methyl tert-butyl ether	ND	13 µg/L	25 01/03/2011 13:06	56702
1,1-Dichloroethane	110	13 µg/L	25 01/03/2011 13:06	56702
cis-1,2-Dichloroethene	10 J	13 µg/L	25 01/03/2011 13:06	56702
1,1,1-Trichloroethane	330	13 µg/L	25 01/03/2011 13:06	56702
1,2-Dichloroethane	ND	13 µg/L	25 01/03/2011 13:06	56702
Benzene	ND	13 µg/L	25 01/03/2011 13:06	56702
Trichloroethene	270	13 µg/L	25 01/03/2011 13:06	56702
Toluene	ND	13 µg/L	25 01/03/2011 13:06	56702
1,1,2-Trichloroethane	ND	13 µg/L	25 01/03/2011 13:06	56702
Tetrachloroethene	ND	13 µg/L	25 01/03/2011 13:06	56702
Chlorobenzene	ND	13 µg/L	25 01/03/2011 13:06	56702
Ethylbenzene	ND	13 µg/L	25 01/03/2011 13:06	56702
m,p-Xylene	ND	13 µg/L	25 01/03/2011 13:06	56702
o-Xylene	ND	13 µg/L	25 01/03/2011 13:06	56702
Surrogate: Dibromofluoromethane	112	88-124 %REC	25 01/03/2011 13:06	56702
Surrogate: 1,2-Dichloroethane-d4	104	79-115 %REC	25 01/03/2011 13:06	56702
Surrogate: Toluene-d8	98.4	80-114 %REC	25 01/03/2011 13:06	56702
Surrogate: Bromofluorobenzene	94.2	60-123 %REC	25 01/03/2011 13:06	56702

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation 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
RL - Reporting Limit

Mitkem Laboratories

Date: 18-Jan-11

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-1

Lab ID: J2686-03

Project: NOW Corp. Site

Collection Date: 12/28/10 11:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	0.77		0.50	µg/L		101/03/2011 11:35	56702
Chloroethane	0.36	J	0.50	µg/L		101/03/2011 11:35	56702
1,1-Dichloroethene	13		0.50	µg/L		101/03/2011 11:35	56702
trans-1,2-Dichloroethene	ND		0.50	µg/L		101/03/2011 11:35	56702
Methyl tert-butyl ether	ND		0.50	µg/L		101/03/2011 11:35	56702
1,1-Dichloroethane	49	E	0.50	µg/L		101/03/2011 11:35	56702
cis-1,2-Dichloroethene	3.2		0.50	µg/L		101/03/2011 11:35	56702
1,1,1-Trichloroethane	1.5		0.50	µg/L		101/03/2011 11:35	56702
1,2-Dichloroethane	ND		0.50	µg/L		101/03/2011 11:35	56702
Benzene	ND		0.50	µg/L		101/03/2011 11:35	56702
Trichloroethene	49	E	0.50	µg/L		101/03/2011 11:35	56702
Toluene	ND		0.50	µg/L		101/03/2011 11:35	56702
1,1,2-Trichloroethane	ND		0.50	µg/L		101/03/2011 11:35	56702
Tetrachloroethene	ND		0.50	µg/L		101/03/2011 11:35	56702
Chlorobenzene	ND		0.50	µg/L		101/03/2011 11:35	56702
Ethylbenzene	ND		0.50	µg/L		101/03/2011 11:35	56702
m,p-Xylene	ND		0.50	µg/L		101/03/2011 11:35	56702
o-Xylene	ND		0.50	µg/L		101/03/2011 11:35	56702
Surrogate: Dibromofluoromethane	107		88-124	%REC		101/03/2011 11:35	56702
Surrogate: 1,2-Dichloroethane-d4	104		79-115	%REC		101/03/2011 11:35	56702
Surrogate: Toluene-d8	98.1		80-114	%REC		101/03/2011 11:35	56702
Surrogate: Bromofluorobenzene	93.6		60-123	%REC		101/03/2011 11:35	56702

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation 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
RL - Reporting Limit

Mitkem Laboratories

Date: 18-Jan-11

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-1

Lab ID: J2686-03

Project: NOW Corp. Site

Collection Date: 12/28/10 11:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	0.63	J	1.0	µg/L		201/03/2011 14:54	56702
Chloroethane	ND		1.0	µg/L		201/03/2011 14:54	56702
1,1-Dichloroethene	11		1.0	µg/L		201/03/2011 14:54	56702
trans-1,2-Dichloroethene	ND		1.0	µg/L		201/03/2011 14:54	56702
Methyl tert-butyl ether	ND		1.0	µg/L		201/03/2011 14:54	56702
1,1-Dichloroethane	48		1.0	µg/L		201/03/2011 14:54	56702
cis-1,2-Dichloroethene	3.1		1.0	µg/L		201/03/2011 14:54	56702
1,1,1-Trichloroethane	1.3		1.0	µg/L		201/03/2011 14:54	56702
1,2-Dichloroethane	ND		1.0	µg/L		201/03/2011 14:54	56702
Benzene	ND		1.0	µg/L		201/03/2011 14:54	56702
Trichloroethene	47		1.0	µg/L		201/03/2011 14:54	56702
Toluene	ND		1.0	µg/L		201/03/2011 14:54	56702
1,1,2-Trichloroethane	ND		1.0	µg/L		201/03/2011 14:54	56702
Tetrachloroethene	ND		1.0	µg/L		201/03/2011 14:54	56702
Chlorobenzene	ND		1.0	µg/L		201/03/2011 14:54	56702
Ethylbenzene	ND		1.0	µg/L		201/03/2011 14:54	56702
m,p-Xylene	ND		1.0	µg/L		201/03/2011 14:54	56702
o-Xylene	ND		1.0	µg/L		201/03/2011 14:54	56702
Surrogate: Dibromofluoromethane	108		88-124	%REC		201/03/2011 14:54	56702
Surrogate: 1,2-Dichloroethane-d4	101		79-115	%REC		201/03/2011 14:54	56702
Surrogate: Toluene-d8	96.8		80-114	%REC		201/03/2011 14:54	56702
Surrogate: Bromofluorobenzene	93.9		60-123	%REC		201/03/2011 14:54	56702

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation 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
RL - Reporting Limit

Mitkem Laboratories

Date: 18-Jan-11

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-2A

Project: NOW Corp. Site

Lab ID: J2686-04

Collection Date: 12/28/10 11:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS (25 mL Purge)				SW8260_25_W
Vinyl chloride	ND	20 µg/L	40 01/03/2011 12:36	56702
Chloroethane	ND	20 µg/L	40 01/03/2011 12:36	56702
1,1-Dichloroethene	97	20 µg/L	40 01/03/2011 12:36	56702
trans-1,2-Dichloroethene	ND	20 µg/L	40 01/03/2011 12:36	56702
Methyl tert-butyl ether	ND	20 µg/L	40 01/03/2011 12:36	56702
1,1-Dichloroethane	190	20 µg/L	40 01/03/2011 12:36	56702
cis-1,2-Dichloroethene	18 J	20 µg/L	40 01/03/2011 12:36	56702
1,1,1-Trichloroethane	610	20 µg/L	40 01/03/2011 12:36	56702
1,2-Dichloroethane	ND	20 µg/L	40 01/03/2011 12:36	56702
Benzene	ND	20 µg/L	40 01/03/2011 12:36	56702
Trichloroethene	480	20 µg/L	40 01/03/2011 12:36	56702
Toluene	ND	20 µg/L	40 01/03/2011 12:36	56702
1,1,2-Trichloroethane	ND	20 µg/L	40 01/03/2011 12:36	56702
Tetrachloroethene	ND	20 µg/L	40 01/03/2011 12:36	56702
Chlorobenzene	ND	20 µg/L	40 01/03/2011 12:36	56702
Ethylbenzene	ND	20 µg/L	40 01/03/2011 12:36	56702
m,p-Xylene	ND	20 µg/L	40 01/03/2011 12:36	56702
o-Xylene	ND	20 µg/L	40 01/03/2011 12:36	56702
Surrogate: Dibromofluoromethane	107	88-124 %REC	40 01/03/2011 12:36	56702
Surrogate: 1,2-Dichloroethane-d4	97.6	79-115 %REC	40 01/03/2011 12:36	56702
Surrogate: Toluene-d8	97.2	80-114 %REC	40 01/03/2011 12:36	56702
Surrogate: Bromofluorobenzene	91.8	60-123 %REC	40 01/03/2011 12:36	56702

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation 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
RL - Reporting Limit

Mitkem Laboratories

Date: 18-Jan-11

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-3A

Project: NOW Corp. Site

Lab ID: J2686-05

Collection Date: 12/28/10 11:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		0.50	µg/L		101/03/2011 14:24	56702
Chloroethane	ND		0.50	µg/L		101/03/2011 14:24	56702
1,1-Dichloroethene	2.7		0.50	µg/L		101/03/2011 14:24	56702
trans-1,2-Dichloroethene	ND		0.50	µg/L		101/03/2011 14:24	56702
Methyl tert-butyl ether	ND		0.50	µg/L		101/03/2011 14:24	56702
1,1-Dichloroethane	18		0.50	µg/L		101/03/2011 14:24	56702
cis-1,2-Dichloroethene	0.35	J	0.50	µg/L		101/03/2011 14:24	56702
1,1,1-Trichloroethane	10		0.50	µg/L		101/03/2011 14:24	56702
1,2-Dichloroethane	ND		0.50	µg/L		101/03/2011 14:24	56702
Benzene	ND		0.50	µg/L		101/03/2011 14:24	56702
Trichloroethene	17		0.50	µg/L		101/03/2011 14:24	56702
Toluene	ND		0.50	µg/L		101/03/2011 14:24	56702
1,1,2-Trichloroethane	ND		0.50	µg/L		101/03/2011 14:24	56702
Tetrachloroethene	ND		0.50	µg/L		101/03/2011 14:24	56702
Chlorobenzene	ND		0.50	µg/L		101/03/2011 14:24	56702
Ethylbenzene	ND		0.50	µg/L		101/03/2011 14:24	56702
m,p-Xylene	ND		0.50	µg/L		101/03/2011 14:24	56702
o-Xylene	ND		0.50	µg/L		101/03/2011 14:24	56702
Surrogate: Dibromofluoromethane	109		88-124	%REC		101/03/2011 14:24	56702
Surrogate: 1,2-Dichloroethane-d4	99.6		79-115	%REC		101/03/2011 14:24	56702
Surrogate: Toluene-d8	96.8		80-114	%REC		101/03/2011 14:24	56702
Surrogate: Bromofluorobenzene	92.6		60-123	%REC		101/03/2011 14:24	56702

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation 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
RL - Reporting Limit

Mitkem Laboratories

Date: 18-Jan-11

Client: AECOM Technical Services, Inc.

Client Sample ID: TRIP BLANK

Lab ID: J2686-06

Project: NOW Corp. Site

Collection Date: 12/28/10 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		0.50	µg/L		101/03/2011 10:35	56702
Chloroethane	ND		0.50	µg/L		101/03/2011 10:35	56702
1,1-Dichloroethene	ND		0.50	µg/L		101/03/2011 10:35	56702
trans-1,2-Dichloroethene	ND		0.50	µg/L		101/03/2011 10:35	56702
Methyl tert-butyl ether	ND		0.50	µg/L		101/03/2011 10:35	56702
1,1-Dichloroethane	ND		0.50	µg/L		101/03/2011 10:35	56702
cis-1,2-Dichloroethene	ND		0.50	µg/L		101/03/2011 10:35	56702
1,1,1-Trichloroethane	ND		0.50	µg/L		101/03/2011 10:35	56702
1,2-Dichloroethane	ND		0.50	µg/L		101/03/2011 10:35	56702
Benzene	ND		0.50	µg/L		101/03/2011 10:35	56702
Trichloroethene	ND		0.50	µg/L		101/03/2011 10:35	56702
Toluene	ND		0.50	µg/L		101/03/2011 10:35	56702
1,1,2-Trichloroethane	ND		0.50	µg/L		101/03/2011 10:35	56702
Tetrachloroethene	ND		0.50	µg/L		101/03/2011 10:35	56702
Chlorobenzene	ND		0.50	µg/L		101/03/2011 10:35	56702
Ethylbenzene	ND		0.50	µg/L		101/03/2011 10:35	56702
m,p-Xylene	ND		0.50	µg/L		101/03/2011 10:35	56702
o-Xylene	ND		0.50	µg/L		101/03/2011 10:35	56702
Surrogate: Dibromofluoromethane	107		88-124	%REC		101/03/2011 10:35	56702
Surrogate: 1,2-Dichloroethane-d4	97.7		79-115	%REC		101/03/2011 10:35	56702
Surrogate: Toluene-d8	97.9		80-114	%REC		101/03/2011 10:35	56702
Surrogate: Bromofluorobenzene	93.2		60-123	%REC		101/03/2011 10:35	56702

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation 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
RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

SW8260 25 W

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

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Recovery outside accepted recovery limits	MDL - Method Detection Limit	B - Analyte detected in the associated Method Blank
m10.08.12.A	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	RL - Reporting Limit	

CLIENT: AECOM Technical Services, Inc.

ANALYTICAL QC SUMMARY REPORT

Work Order: J2686

SW8260 25_W

Project: NOW Corp. Site

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

Sample ID: LCS-56702	SampType: LCS	TestCode: SW8260_25_W	Prep Date: 01/03/11 7:21	Run ID: V6_110103A								
Client ID: LCS-56702	Batch ID: 56702	Units: µg/L	Analysis Date: 01/03/11 8:26	SeqNo: 1457265								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.340	0.15	0.50	10.00	0	93.4	77	120	0			
Chloroethane	9.407	0.24	0.50	10.00	0	94.1	75	135	0			
1,1,1-Dichloroethene	9.373	0.19	0.50	10.00	0	93.7	81	125	0			
trans-1,2-Dichloroethene	9.284	0.14	0.50	10.00	0	92.8	60	137	0			
Methyl tert-butyl ether	9.100	0.13	0.50	10.00	0	91.0	61	134	0			
1,1-Dichloroethane	9.623	0.18	0.50	10.00	0	96.2	82	120	0			
cis-1,2-Dichloroethene	9.172	0.19	0.50	10.00	0	91.7	84	116	0			
1,1,1-Trichloroethane	10.73	0.11	0.50	10.00	0	107	80	124	0			
1,2-Dichloroethane	10.31	0.16	0.50	10.00	0	103	86	117	0			
Benzene	9.263	0.12	0.50	10.00	0	92.6	81	121	0			
Trichloroethene	9.487	0.13	0.50	10.00	0	94.9	74	123	0			
Toluene	9.438	0.14	0.50	10.00	0	94.4	88	117	0			
1,1,2-Trichloroethane	9.211	0.20	0.50	10.00	0	92.1	83	121	0			
Tetrachloroethene	9.539	0.17	0.50	10.00	0	95.4	74	115	0			
Chlorobenzene	9.278	0.13	0.50	10.00	0	92.8	83	112	0			
Ethylbenzene	9.436	0.13	0.50	10.00	0	94.4	87	110	0			
m,p-Xylene	18.99	0.22	0.50	20.00	0	95.0	87	114	0			
o-Xylene	9.403	0.17	0.50	10.00	0	94.0	84	114	0			
Surrogate:	10.55		0.50	10.00	0	105	88	124	0			
Dibromofluoromethane												
Surrogate: 1,2-Dichloroethane-d4	9.644		0.50	10.00	0	96.4	79	115	0			
Surrogate: Toluene-d8	10.04		0.50	10.00	0	100	80	114	0			
Surrogate: Bromofluorobenzene	10.00		0.50	10.00	0	100	60	123	0			

0017

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Recovery outside accepted recovery limits	MDL - Method Detection Limit	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	RL - Reporting Limit	

m1008 12 A

CLIENT: AECOM Technical Services, Inc.

ANALYTICAL QC SUMMARY REPORT

Work Order: J2686

SW8260_25_W

Project: NOW Corp. Site

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

Sample ID: LCSD-56702	SampType: LCSD	TestCode: SW8260_25_W	Prep Date: 01/03/11 7:21	Run ID: V6_110103A								
Client ID: LCSD-56702	Batch ID: 56702	Units: µg/L	Analysis Date: 01/03/11 8:56	SeqNo: 1457266								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.268	0.15	0.50	10.00	0	92.7	77	120	9.340	0.783	40	
Chloroethane	9.705	0.24	0.50	10.00	0	97.1	75	135	9.407	3.13	40	
1,1,1-Dichloroethene	9.422	0.19	0.50	10.00	0	94.2	81	125	9.373	0.522	40	
trans-1,2-Dichloroethene	9.726	0.14	0.50	10.00	0	97.3	60	137	9.284	4.65	40	
Methyl tert-butyl ether	10.04	0.13	0.50	10.00	0	100	61	134	9.100	9.85	40	
1,1,1-Dichloroethane	10.27	0.18	0.50	10.00	0	103	82	120	9.623	6.52	40	
cis-1,2-Dichloroethene	10.06	0.19	0.50	10.00	0	101	84	116	9.172	9.22	40	
1,1,1-Trichloroethane	10.91	0.11	0.50	10.00	0	109	80	124	10.73	1.66	40	
1,2-Dichloroethane	11.16	0.16	0.50	10.00	0	112	86	117	10.31	7.91	40	
Benzene	9.826	0.12	0.50	10.00	0	98.3	81	121	9.263	5.91	40	
Trichloroethene	10.15	0.13	0.50	10.00	0	102	74	123	9.487	6.8	40	
Toluene	10.04	0.14	0.50	10.00	0	100	88	117	9.438	6.19	40	
1,1,1,2-Trichloroethane	10.36	0.20	0.50	10.00	0	104	83	121	9.211	11.8	40	
Tetrachloroethene	8.644	0.17	0.50	10.00	0	86.4	74	115	9.539	9.84	40	
Chlorobenzene	8.861	0.13	0.50	10.00	0	88.6	83	112	9.278	4.61	40	
Ethylbenzene	8.775	0.13	0.50	10.00	0	87.8	87	110	9.436	7.25	40	
m,p-Xylene	17.69	0.22	0.50	20.00	0	88.5	87	114	18.99	7.09	40	
o-Xylene	8.921	0.17	0.50	10.00	0	89.2	84	114	9.403	5.26	40	
Surrogate:	11.91		0.50	10.00	0	119	88	124	0			
Dibromofluoromethane												
Surrogate: 1,2-	11.40		0.50	10.00	0	114	79	115	0			
Dichloroethane-d4												
Surrogate: Toluene-d8	9.239		0.50	10.00	0	92.4	80	114	0			
Surrogate:	9.772		0.50	10.00	0	97.7	60	123	0			
Bromofluorobenzene												

Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank

ml0.08.12 A

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

0018

Mitkem Laboratories**Date:** 05-Jan-11**Client:** AECOM Technical Services, Inc.**Client Sample ID:** EFF 122810**Lab ID:** J2686-01**Project:** NOW Corp. Site**Collection Date:** 12/28/10 11:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
EPA 1664A -- Oil & Grease, HEM				E1664
Oil & Grease, Total Recoverable	ND	5.0 mg/L	101/05/2011 0:00	56724

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation 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
RL - Reporting Limit

Mitkem Laboratories

Date: 05-Jan-11

Client: AECOM Technical Services, Inc.
Client Sample ID: INF 122810
Lab ID: J2686-02

Project: NOW Corp. Site
Collection Date: 12/28/10 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 1664A -- Oil & Grease, HEM							E1664
Oil & Grease, Total Recoverable	ND		5.0	mg/L		1 01/05/2011 0:00	56724

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation 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
RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

E1664

EPA 1664A -- Oil & Grease, HEM

Sample ID: LCS-56724	SampType: LCS	TestCode: E1664	Prep Date: 01/04/11 8:07	Run ID: MANUAL_110105A
Client ID: LCS-56724	Batch ID: 56724	Units: mg/L	Analysis Date: 01/05/11 0:00	SeqNo: 1458404
Analyte	Result	MDL	SPK Ref Val	%REC LowLimit HighLimit
	38.50	1.2	0	96.3 78 114
Oil & Grease, Total Recoverable			SPK value	%RPD RPDLimit Qual
			40.00	0 0

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Recovery outside accepted recovery limits	MDL - Method Detection Limit	B - Analyte detected in the associated Method Blank
m10.08.12.A	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	RL - Reporting Limit	

Mitkem Laboratories

Date: 14-Jan-11

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF 122810

Lab ID: J2686-01

Project: NOW Corp. Site

Collection Date: 12/28/10 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Aluminum	ND		200	µg/L		101/07/2011 11:06	56774
Arsenic	ND		20	µg/L		101/07/2011 11:06	56774
Barium	79	J	200	µg/L		101/07/2011 11:06	56774
Chromium	0.81	J	20	µg/L		101/07/2011 11:06	56774
Copper	ND		25	µg/L		101/07/2011 11:06	56774
Iron	ND		200	µg/L		101/07/2011 11:06	56774
Manganese	86		50	µg/L		101/07/2011 11:06	56774
Nickel	1.5	J	50	µg/L		101/07/2011 11:06	56774
Zinc	16	J	50	µg/L		101/07/2011 11:06	56774
SW846 7470A -- Mercury by FIA							SW7470
Mercury	ND		0.20	µg/L		101/11/2011 13:59	56853

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation 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
RL - Reporting Limit

Mitkem Laboratories**Date:** 14-Jan-11**Client:** AECOM Technical Services, Inc.**Client Sample ID:** INF 122810**Lab ID:** J2686-02**Project:** NOW Corp. Site**Collection Date:** 12/28/10 11:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_W
Aluminum	ND	200 µg/L	1 01/07/2011 11:08	56774
Arsenic	ND	20 µg/L	1 01/07/2011 11:08	56774
Barium	75 J	200 µg/L	1 01/07/2011 11:08	56774
Chromium	0.83 J	20 µg/L	1 01/07/2011 11:08	56774
Copper	ND	25 µg/L	1 01/07/2011 11:08	56774
Iron	48 J	200 µg/L	1 01/07/2011 11:08	56774
Manganese	150	50 µg/L	1 01/07/2011 11:08	56774
Nickel	1.5 J	50 µg/L	1 01/07/2011 11:08	56774
Zinc	12 J	50 µg/L	1 01/07/2011 11:08	56774
SW846 7470A -- Mercury by FIA				SW7470
Mercury	ND	0.20 µg/L	1 01/11/2011 14:00	56853

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation 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
RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.

Work Order: J2686

SW6010_W

Project: NOW Corp. Site

SW846 6010C -- Metals by ICP

Sample ID: MB-56774	SampType: MBLK	TestCode: SW6010_W	Prep Date: 01/06/11 11:45	Run ID: OPTIMA2_110107B							
Client ID: MB-56774	Batch ID: 56774	Units: µg/L	Analysis Date: 01/07/11 10:46	SeqNo: 1461047							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	66					200				
Arsenic	ND	4.3					20				
Barium	ND	1.1					200				
Chromium	ND	0.64					20				
Copper	ND	3.6					30				
Iron	ND	31					200				
Manganese	ND	10					50				
Nickel	ND	0.85					50				
Zinc	ND	4.9					50				

Sample ID: LCS-56774	SampType: LCS	TestCode: SW6010_W		Prep Date: 01/06/11 11:45	Run ID: OPTIMA2_110107B							
Client ID: LCS-56774	Batch ID: 56774	Units: µg/L		Analysis Date: 01/07/11 10:49	SeqNo: 1461048							
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9090	66	200	9100	0	99.9	80	120	0			
Arsenic	471.7	4.3	20	455.0	0	104	80	120	0			
Barium	9327	1.1	200	9100	0	102	80	120	0			
Chromium	904.9	0.64	20	910.0	0	99.4	80	120	0			
Copper	1132	3.6	30	1130	0	100	80	120	0			
Iron	4659	31	200	4550	0	102	80	120	0			
Manganese	2285	10	50	2270	0	101	80	120	0			
Nickel	2320	0.85	50	2270	0	102	80	120	0			
Zinc	2270	4.9	50	2270	0	100	80	120	0			

0024

Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m10.08.12.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CLIENT: AECOM Technical Services, Inc.
Work Order: J2686
Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT
SW6010_W
SW846 6010C -- Metals by ICP

Sample ID: LCSD-56774	SampType: LCSD	TestCode: SW6010_W	Prep Date: 01/06/11 11:45	Run ID: OPTIMA2_110107B								
Client ID: LCSD-56774	Batch ID: 56774	Units: µg/L	Analysis Date: 01/07/11 10:52	SeqNo: 1461049								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	8985	66	200	9100	0	98.7	80	120	9090	1.15	20	
Arsenic	468.8	4.3	20	455.0	0	103	80	120	471.7	0.605	20	
Barium	9206	1.1	200	9100	0	101	80	120	9327	1.31	20	
Chromium	896.6	0.64	20	910.0	0	98.5	80	120	904.9	0.922	20	
Copper	1118	3.6	30	1130	0	98.9	80	120	1132	1.21	20	
Iron	4621	31	200	4550	0	102	80	120	4659	0.824	20	
Manganese	2262	10	50	2270	0	99.7	80	120	2285	1.01	20	
Nickel	2281	0.85	50	2270	0	100	80	120	2320	1.67	20	
Zinc	2250	4.9	50	2270	0	99.1	80	120	2270	0.894	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
m10.08.12.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.
Work Order: J2686
Project: NOW Corp. Site

SW7470
SW846 7470A -- Mercury by FIA

Sample ID: MB-56853	SampType: MBLK	TestCode: SW7470	Prep Date: 01/11/11 10:45	Run ID: FIMS1_110111B	
Client ID: MB-56853	Batch ID: 56853	Units: µg/L	Analysis Date: 01/11/11 13:51	SeqNo: 1462727	
Analyte	Result	MDL	SPK value	SPK Ref Val	RPD Ref Val
Mercury	ND	0.028	0.20		%RPD RPDLimit Qual
Sample ID: LCS-56853	SampType: LCS	TestCode: SW7470	Prep Date: 01/11/11 10:45	Run ID: FIMS1_110111B	
Client ID: LCS-56853	Batch ID: 56853	Units: µg/L	Analysis Date: 01/11/11 13:53	SeqNo: 1462728	
Analyte	Result	MDL	SPK value	SPK Ref Val	RPD Ref Val
Mercury	4.479	0.028	0.20	4.550	%RPD RPDLimit Qual
Sample ID: LCSD-56853	SampType: LCSD	TestCode: SW7470	Prep Date: 01/11/11 10:45	Run ID: FIMS1_110111B	
Client ID: LCSD-56853	Batch ID: 56853	Units: µg/L	Analysis Date: 01/11/11 13:54	SeqNo: 1462729	
Analyte	Result	MDL	SPK value	SPK Ref Val	RPD Ref Val
Mercury	4.501	0.028	0.20	4.550	%RPD RPDLimit Qual

0026

Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
m10.08.12.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Mitkem Laboratories**Date:** 14-Jan-11**Client:** AECOM Technical Services, Inc.**Client Sample ID:** EFF 122810**Lab ID:** J2686-01**Project:** NOW Corp. Site**Collection Date:** 12/28/10 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS							SM2540_TDS
Total Dissolved Solids	290		10	mg/L	1	01/03/2011 16:36	56716
SM 2540D -- TOTAL SUSPENDED SOLIDS							SM2540_TSS
Total Suspended Solids	ND		10	mg/L	1	01/03/2011 16:36	56717
SW846 9012B -- Total Cyanide							SW9012_W
Cyanide	ND		10	ug/L	1	12/30/2010 10:42	56676

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation 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
RL - Reporting Limit

Mitkem Laboratories**Date:** 14-Jan-11**Client:** AECOM Technical Services, Inc.**Client Sample ID:** INF 122810**Lab ID:** J2686-02**Project:** NOW Corp. Site**Collection Date:** 12/28/10 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS							SM2540_TDS
Total Dissolved Solids	290		10	mg/L	1	01/03/2011 16:39	56716
SM 2540D -- TOTAL SUSPENDED SOLIDS							SM2540_TSS
Total Suspended Solids	ND		10	mg/L	1	01/03/2011 16:39	56717
SW846 9012B -- Total Cyanide							SW9012_W
Cyanide	ND		10	ug/L	1	12/30/2010 10:44	56676

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation 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
RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT
SM2540_TDS
SM 2540C -- TOTAL DISSOLVED SOLIDS

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Recovery outside accepted recovery limits	MDL - Method Detection Limit	B - Analyte detected in the associated Method Blank
10.08.12.A	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	RL - Reporting Limit	

ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.

Work Order: J2686

SM2540_TSS

Project: NOW Corp. Site

SM 2540D -- TOTAL SUSPENDED SOLIDS

Sample ID: MB-56717	SampType: MBLK	TestCode: SM2540_TSS	Prep Date: 01/03/11 16:30	Run ID: MANUAL_110103B
Client ID: MB-56717	Batch ID: 56717	Units: mg/L	Analysis Date: 01/03/11 16:30	SeqNo: 1462435
Analyte	Result	MDL	SPK value	SPK Ref Val
	ND	1.0		RPD Ref Val
Total Suspended Solids		1.0		%RPD RPDLimit
				Qual

Sample ID: LCS-56717	SampType: LCS	TestCode: SM2540_TSS	Prep Date: 01/03/11 16:30	Run ID: MANUAL_110103B
Client ID: LCS-56717	Batch ID: 56717	Units: mg/L	Analysis Date: 01/03/11 16:33	SeqNo: 1462436
Analyte	Result	MDL	SPK value	SPK Ref Val
	60.00	1.0	66.40	RPD Ref Val
Total Suspended Solids		1.0	90.4	%RPD RPDLimit
			80	Qual

Sample ID: J2686-02DDUP	SampType: DUP	TestCode: SM2540_TSS	Prep Date: 01/03/11 16:30	Run ID: MANUAL_110103B
Client ID: INF 122810	Batch ID: 56717	Units: mg/L	Analysis Date: 01/03/11 16:42	SeqNo: 1462439
Analyte	Result	MDL	SPK value	SPK Ref Val
	ND	1.0	0	RPD Ref Val
Total Suspended Solids		1.0	0	%RPD RPDLimit
			0	Qual
			0	5.0

0030

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Recovery outside accepted recovery limits	MDL - Method Detection Limit	B - Analyte detected in the associated Method Blank
m10.08.12.A	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	RL - Reporting Limit	

ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.

Work Order: J2686

SW9012_W

Project: NOW Corp. Site

SW846 9012B -- Total Cyanide

Sample ID: MB-56676	SampType: MBLK	TestCode: SW9012_W	Prep Date: 12/29/10 15:00	Run ID: LACHAT1_101230A
Client ID: MB-56676	Batch ID: 56676	Units: ug/L	Analysis Date: 12/30/10 10:14	SeqNo: 1456195
Analyte	Result	MDL	SPK Ref Val	SPK value
Cyanide	ND	7.5	0	100.0
			RPD Ref Val	%RPD RPDLimit
			0	0

Sample ID: LCS-56676	SampType: LCS	TestCode: SW9012_W	Prep Date: 12/29/10 15:00	Run ID: LACHAT1_101230A
Client ID: LCS-56676	Batch ID: 56676	Units: ug/L	Analysis Date: 12/30/10 10:17	SeqNo: 1456196
Analyte	Result	MDL	SPK Ref Val	SPK value
Cyanide	95.31	7.5	0	100.0
			RPD Ref Val	%RPD RPDLimit
			0	0

Sample ID: LCSD-56676	SampType: LCSD	TestCode: SW9012_W	Prep Date: 12/29/10 15:00	Run ID: LACHAT1_101230A
Client ID: LCSD-56676	Batch ID: 56676	Units: ug/L	Analysis Date: 12/30/10 10:19	SeqNo: 1456197
Analyte	Result	MDL	SPK Ref Val	SPK value
Cyanide	95.12	7.5	0	100.0
			RPD Ref Val	%RPD RPDLimit
			0	0

Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
m10.08.12.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

0031

WorkOrder: J2686**01/20/2011 12:49****Mitkem Laboratories**

Client ID: EARTH_NY

Project: NOW Corp. Site

WO Name: NOW Corp. Site

Location: NOW_CORP,

Comments: N/A

Case:

SDG:

HC Due: 01/14/11

Fax Due:

Fax Report: ☐

EDD:

Report Level: LEVEL 2

Special Program:

PO: 94017.02

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
J2686-01A	EFF 122810	12/28/2010 11:00	12/29/2010	Aqueous	SW8260_25_W	/ use for VOCs,					Y VOA
J2686-01B	EFF 122810	12/28/2010 11:00	12/29/2010	Aqueous	SW6010_W	/ See SEL list					Y M3
J2686-01B	EFF 122810	12/28/2010 11:00	12/29/2010	Aqueous	SW7470	/ See SEL list					M3
J2686-01C	EFF 122810	12/28/2010 11:00	12/29/2010	Aqueous	SW9012_W	/					Y H2
J2686-01D	EFF 122810	12/28/2010 11:00	12/29/2010	Aqueous	SM2540_TDS	/					H2
J2686-01D	EFF 122810	12/28/2010 11:00	12/29/2010	Aqueous	SM2540_TSS	/					H2
J2686-01E	EFF 122810	12/28/2010 11:00	12/29/2010	Aqueous	E1664	/					H2
J2686-02A	INF 122810	12/28/2010 11:20	12/29/2010	Aqueous	SW8260_25_W	/ use for VOCs,					Y VOA
J2686-02B	INF 122810	12/28/2010 11:20	12/29/2010	Aqueous	SW6010_W	/ See SEL list					Y M3
J2686-02B	INF 122810	12/28/2010 11:20	12/29/2010	Aqueous	SW7470	/ See SEL list					M3
J2686-02C	INF 122810	12/28/2010 11:20	12/29/2010	Aqueous	SW9012_W	/					Y H2
J2686-02D	INF 122810	12/28/2010 11:20	12/29/2010	Aqueous	SM2540_TDS	/					H2
J2686-02D	INF 122810	12/28/2010 11:20	12/29/2010	Aqueous	SM2540_TSS	/					H2
J2686-02E	INF 122810	12/28/2010 11:20	12/29/2010	Aqueous	E1664	/					H2
J2686-03A	TW-1	12/28/2010 11:35	12/29/2010	Aqueous	SW8260_25_W	/ use for VOCs,					Y VOA
J2686-04A	TW-2A	12/28/2010 11:40	12/29/2010	Aqueous	SW8260_25_W	/ use for VOCs,					Y VOA
J2686-05A	TW-3A	12/28/2010 11:45	12/29/2010	Aqueous	SW8260_25_W	/ use for VOCs,					Y VOA
J2686-06A	TRIP BLANK	12/28/2010 00:00	12/29/2010	Aqueous	SW8260_25_W	/ use for VOCs,					Y VOA

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

HT = Test logged in but has been placed on hold



A Division of SPECTRUM ANALYTICAL, INC. Featuring HANBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- TAT- Indicate Date Needed: _____
• All TATs subject to laboratory approval.
• Min. 24-hour notification needed for rushes.
• Samples disposed of after 30 days unless otherwise instructed.

Report To: AECOM
40 British American Blvd
Latham NY 12110
(518) 951-2200

Project Mgr.: Steve Chainiere

Invoice To: Same

Project No.: 94017.02 / 60135676.02

Site Name: New Corp

Location: Stattsburg State: NY

P.O. No.: _____ RQN: _____

Sampler(s): SAG - MTH

1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8=NaHSO₄ 9=None 10=_____ 11=_____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air
X1=_____ X2=_____ X3=_____

G=Grab C=Composite			Containers:			Analyses:			Notes:		
Lab Id:	Sample Id:	Date:	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Matrix	Type	Time:	QA/QC Reporting Level	
01	EEF 12/28/10	12/28/10	2	3	3	3	GW	G	1100	Level I	*AL, As, BA, CA,
02	INF 12/28/10	12/28/10	3	3	3	3	↓	↓	1120	Level II	Cu, FE, Mn, Hg,
03	TW-1	1135	↓	↓	↓	↓	↓	↓	1135	Level III	Zn, P
04	TW-2A	1140	↓	↓	↓	↓	↓	↓	1140	Level IV	
05	TW-3	1145	↓	↓	↓	↓	↓	↓	1145	Other	
06	Trip Blank	↓	↓	↓	↓	↓	↓	↓			Oil + Gas are
											Not preserved w/
											HCl

Relinquished by: Nash Demand Received by: Harry Smith

Date: 12/28/10 Time: 15:11

E-mail to: _____

EDD Format: _____

Condition upon receipt: ☒ Iced ☐ Ambient 3°C

MITKEM LABORATORIES

Sample Condition Form

Page 1 of 1

Received By: <u>CAV</u>		Reviewed By: <u>SR</u>		Date: <u>12/10</u>		Mitkem Work Order #: <u>J2606</u>			
Client Project: <u>Now Corp</u>				Client:			Soil Headspace or Air Bubble ≥ 1/4"		
		Lab Sample ID		Preservation (pH)					VOA Matrix
				HNO ₃	H ₂ SO ₄	HCl	NaOH	H ₃ PO ₄	
1) Cooler Sealed	<u>Yes</u> / No	<u>J2680</u>	<u>01</u>	<u>42</u>			<u>42</u>		<u>H</u>
		<u>02</u>		<u>42</u>			<u>42</u>		
2) Custody Seal(s)	<u>Present</u> / Absent <u>Coolers</u> / Bottles <u>Intact</u> / Broken	<u>03</u>							
		<u>04</u>							
		<u>05</u>							
		<u>J2680</u>	<u>06</u>						<u>H</u>
3) Custody Seal Number(s)	<u>NA</u>								
4) Chain-of-Custody	<u>Present</u> / Absent								
5) Cooler Temperature	<u>3.00</u>								
IR Temp Gun ID	<u>MT-1</u>								
Coolant Condition	<u>ICE</u>								
6) Airbill(s)	<u>Present</u> / Absent								
Airbill Number(s)	<u>Fader</u>								
	<u>860 7993 9010</u>								
7) Samples Bottles	<u>Intact</u> / Broken / Leaking								
8) Date Received	<u>12/09/10</u>								
9) Time Received	<u>8:40</u>								
Preservative Name/Lot No.:	<u>Preservat at lab</u>								
	<u>not E43A12</u>								

VOA Matrix Key:

US = Unpreserved Soil	A = Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO ₄	F = Freeze

See Sample Condition Notification/Corrective Action Form yes / no

Form ID: QAF.0006

Rad OK yes / no

Last Page of Data Report