AECOM

Operation, Maintenance and Monitoring Report
March 2011

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

May 2011

AECOM

May 13, 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: "March" 2011

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 32-day period **(February 25 – March 29, 2011)**.

With the exceptions noted below, if any, the P&T system was online and operational throughout the reporting period. Approximately 836,900 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 26,150 gallons per day (gpd), higher than the 19,960 gpd in the prior reporting period.

As of the last day of the reporting period, a total of 83,315,000 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 March 29, 2011. **Effluent limitations were not exceeded for any analyte.** 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 maintenance, perform groundwater level measurements, and to collect water samples. The February 25 service visit was described in the previous report. Details for the current period follow:

March 29 – Monthly O&M service visit. Recorded instrument/meter readings. Collected water level readings and influent and effluent samples. Lubricated the hinges on the monitoring well locking covers, in anticipation of annual sampling event next month (April).

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: March 29, 2011
NOW Corporation Site
Town of Clinton, New York

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Effluent Limitations	(units)
			TW-1	TW-2A	TW-3		
Quantity treated, per day		26,153				Monitor	gallons
pH	6.8	7.1				6.5 to 8.5	standard units
Oil and Grease	<5.0	<5.0	NA	NA	NA	15	mg/L
Total Cyanide	<10	<10	NA	NA	NA	10	ug/L
TDS	**270**	**260**	NA	NA	NA	1000	mg/L
TSS	**11**	<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	**61 J**	**59 J**	NA	NA	NA	2000	ug/L
Chromium	<20	<20	NA	NA	NA	100	ug/L
Copper	<30	<25	NA	NA	NA	24	ug/L
Iron	**47 J**	<200	NA	NA	NA	600	ug/L
Mercury	<0.20	<0.20	NA	NA	NA	0.8	ug/L
Manganese	**95**	**29 J**	NA	NA	NA	600	ug/L
Nickel	<50	<50	NA	NA	NA	200	ug/L
Zinc	**11 J**	**10 J**	NA	NA	NA	150	ug/L
1,1,1-Trichloroethane	**190**	<0.50	**6**	**320**	**2.8**	5	ug/L
1,1,2-Trichloroethane	<8	<0.50	<2.5	<13	<0.50	1.2	ug/L
1,1-Dichloroethane	**83**	<0.50	**50**	**130**	**8**	5	ug/L
1,1-Dichloroethene	**19**	<0.50	**11**	**37**	**1.3**	0.5	ug/L
1,2-Dichloroethane	<8	<0.50	<2.5	<13	<0.50	1.6	ug/L
Benzene	<8	<0.50	<2.5	<13	<0.50	0.8	ug/L
Chlorobenzene	<8	<0.50	<2.5	<13	<0.50	5	ug/L
Chloroethane	<8	<0.50	<2.5	<13	<0.50	5	ug/L
cis -1,2-Dichloroethene	**8.3**	<0.50	**10**	<13	<0.50	5	ug/L
Ethylbenzene	<8	<0.50	<2.5	<13	<0.50	5	ug/L
Methyl tert-butyl ether	<8	<0.50	<2.5	<13	<0.50	5	ug/L
o-Xylene	<8	<0.50	<2.5	<13	<0.50	5	ug/L
m,p-Xylene	<8	<0.50	<2.5	<13	<0.50	10	ug/L
Tetrachloroethene	<8	<0.50	<2.5	<13	<0.50	1.4	ug/L
Toluene	<8	<0.50	<2.5	<13	<0.50	5	ug/L
trans -1,2-Dichloroethene	<8	<0.50	<2.5	<13	<0.50	5	ug/L
Trichloroethene	**210**	<0.50	**99**	**350**	**7.3**	5	ug/L
Vinyl Chloride	<8	<0.50	<2.5	<13	<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) "**B**" denotes metal detected in method blank at concentration below the RL, but above the method detection limit.*

Table 2
Summary of March 2011 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		3/29/11	Units
TW-1			
	Pumping Rate	3	GPM
	Water Level Above Transducer	15.82	feet
	Flow Meter Reading	6,032,600	gallons
	Pump Pressure	75	psi
TW-2A			
	Pumping Rate	~14	GPM
	Water Level Above Transducer	52.59	feet
	Flow Meter Reading	20,533,200	gallons
	Pump Pressure	2	psi
TW-3			
	Pumping Rate	4	GPM
	Water Level Above Transducer	27.44	feet
	Flow Meter Reading	8,788,100	gallons
	Pump Pressure	62	psi
Air Stripper			
	Stripper Blower Pressure	21.5	inches H_2O
	Air Temperature in Stripper	47	°F
	Pressure Gauge - Left Leg	1.8	inches H_2O
	Pressure Gauge - Right Leg	3.5	inches H_2O
Effluent Flow			
	Effluent Flow this period (calculated)	836,900	gallons
	Total Effluent Flow (calculated)	83,315,100	gallons

Table 3
March 2011 Groundwater Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	MP Elevation	3/29/11 Depth to Water (Ft below MP)	3/29/11 GW Elevation
MW-1	289.50	9.10	280.40
MW-2	332.51	25.40	307.11
MW-3	312.83	22.30	290.53
MW-3S	312.51	20.11	292.40
MW-4	298.29	20.42	277.87
MW-4D	298.16	20.22	277.94
MW-5	285.48	17.70	267.78
MW-6S	287.90	3.75	284.15
MW-6D	287.25	5.70	281.55
MW-7S	292.12	15.30	276.82
MW-7D	292.54	38.46	254.08
OW-1	307.75	43.71	264.04
OW-2	305.96	66.49	239.47
OW-6	294.81	5.75	289.06
IW-1	312.46	24.22	288.24
IW-2	306.56	35.07	271.49

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

Report Date:
19-Apr-11 14:28

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

Laboratory Report

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

Work Order: K0479
Project : NOW Corp. Site
Project #:

Attn: Stephen Choiniere

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
K0479-01	EFF-032911	Aqueous	29-Mar-11 11:35	30-Mar-11 08:55
K0479-02	INF-032911	Aqueous	29-Mar-11 11:46	30-Mar-11 08:55
K0479-03	TW-1	Aqueous	29-Mar-11 12:05	30-Mar-11 08:55
K0479-04	TW-2A	Aqueous	29-Mar-11 12:10	30-Mar-11 08:55
K0479-05	TW-3	Aqueous	29-Mar-11 12:15	30-Mar-11 08:55
K0479-06	TRIP BLANK	Aqueous	29-Mar-11 00:00	30-Mar-11 08:55

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 Mitkem Laboratories.

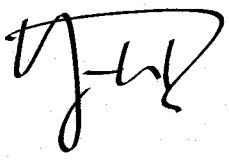
All applicable NELAC or USEPA CLP requirments have been meet.

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 on 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:



Yihai Ding
Laboratory Director

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: K0479

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: SW5030B

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. 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-032911 (K0479-02A) : Dilution Factor: 16
TW-1 (K0479-03A) : Dilution Factor: 5
TW-2A (K0479-04A) : Dilution Factor: 25

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: Edward A. Fisk

Date: 4/7/14

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: K0479

EPA 1664A, Oil & Grease, HEM

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. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used to perform Oil and Grease analysis.
Instrument Type: Analytical Balance
Manufacturer: Denver Instrument Company
Model: A-250

VI. ANALYSIS

A. Calibration:

Analytical balance was calibrated based on SOP/Method criteria.

B. Blanks:

Method blanks were within the QC acceptance criteria.

C. Laboratory Control Spikes (LCS):

Percent recoveries were within the QC acceptance criteria.

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: Edward A Jones

Date: 4/19/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: K0479

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: 7470A

V. INSTRUMENTATION

The following instrumentation was used to perform
Instrument Code: FIMS1
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS

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. 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: Edward A. Jones

Date: 9/19/11

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: K0479

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. INSTRUMENTATION

The following instrumentation was used to perform
Instrument Code: LACHAT1
Instrument Type: WC
Description: Flow Injection Analyzer
Manufacturer: Zellweger Analytics

Model: Quik-Chem 8000

V. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. 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.

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 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: 4/19/11

Mitkem Laboratories

Date: *14-Apr-11*

Client: AECOM Technical Services, Inc.
Client Sample ID: EFF-032911
Lab ID: K0479-01

Project: NOW Corp. Site
Collection Date: 03/29/11 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	ND		0.50	µg/L	1	04/07/2011 1:43	58415
Chloroethane	ND		0.50	µg/L	1	04/07/2011 1:43	58415
1,1-Dichloroethene	ND		0.50	µg/L	1	04/07/2011 1:43	58415
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	04/07/2011 1:43	58415
Methyl tert-butyl ether	ND		0.50	µg/L	1	04/07/2011 1:43	58415
1,1-Dichloroethane	ND		0.50	µg/L	1	04/07/2011 1:43	58415
cis-1,2-Dichloroethene	ND		0.50	µg/L	1	04/07/2011 1:43	58415
1,1,1-Trichloroethane	ND		0.50	µg/L	1	04/07/2011 1:43	58415
1,2-Dichloroethane	ND		0.50	µg/L	1	04/07/2011 1:43	58415
Benzene	ND		0.50	µg/L	1	04/07/2011 1:43	58415
Trichloroethene	ND		0.50	µg/L	1	04/07/2011 1:43	58415
Toluene	ND		0.50	µg/L	1	04/07/2011 1:43	58415
1,1,2-Trichloroethane	ND		0.50	µg/L	1	04/07/2011 1:43	58415
Tetrachloroethene	ND		0.50	µg/L	1	04/07/2011 1:43	58415
Chlorobenzene	ND		0.50	µg/L	1	04/07/2011 1:43	58415
Ethylbenzene	ND		0.50	µg/L	1	04/07/2011 1:43	58415
m,p-Xylene	ND		0.50	µg/L	1	04/07/2011 1:43	58415
o-Xylene	ND		0.50	µg/L	1	04/07/2011 1:43	58415
Surrogate: Dibromofluoromethane	100		88-124	%REC	1	04/07/2011 1:43	58415
Surrogate: 1,2-Dichloroethane-d4	106		79-115	%REC	1	04/07/2011 1:43	58415
Surrogate: Toluene-d8	104		80-114	%REC	1	04/07/2011 1:43	58415
Surrogate: Bromofluorobenzene	103		60-123	%REC	1	04/07/2011 1:43	58415

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
RL - Reporting Limit

Mitkem Laboratories

Date: *14-Apr-11*

Client: AECOM Technical Services, Inc.
Client Sample ID: INF-032911
Lab ID: K0479-02
Project: NOW Corp. Site
Collection Date: 03/29/11 11:46

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		8.0	µg/L	16	04/07/2011 2:11	58415
Chloroethane	ND		8.0	µg/L	16	04/07/2011 2:11	58415
1,1-Dichloroethene	19		8.0	µg/L	16	04/07/2011 2:11	58415
trans-1,2-Dichloroethene	ND		8.0	µg/L	16	04/07/2011 2:11	58415
Methyl tert-butyl ether	ND		8.0	µg/L	16	04/07/2011 2:11	58415
1,1-Dichloroethane	83		8.0	µg/L	16	04/07/2011 2:11	58415
cis-1,2-Dichloroethene	8.3		8.0	µg/L	16	04/07/2011 2:11	58415
1,1,1-Trichloroethane	190		8.0	µg/L	16	04/07/2011 2:11	58415
1,2-Dichloroethane	ND		8.0	µg/L	16	04/07/2011 2:11	58415
Benzene	ND		8.0	µg/L	16	04/07/2011 2:11	58415
Trichloroethene	210		8.0	µg/L	16	04/07/2011 2:11	58415
Toluene	ND		8.0	µg/L	16	04/07/2011 2:11	58415
1,1,2-Trichloroethane	ND		8.0	µg/L	16	04/07/2011 2:11	58415
Tetrachloroethene	ND		8.0	µg/L	16	04/07/2011 2:11	58415
Chlorobenzene	ND		8.0	µg/L	16	04/07/2011 2:11	58415
Ethylbenzene	ND		8.0	µg/L	16	04/07/2011 2:11	58415
m,p-Xylene	ND		8.0	µg/L	16	04/07/2011 2:11	58415
o-Xylene	ND		8.0	µg/L	16	04/07/2011 2:11	58415
Surrogate: Dibromofluoromethane	96.7		88-124	%REC	16	04/07/2011 2:11	58415
Surrogate: 1,2-Dichloroethane-d4	109		79-115	%REC	16	04/07/2011 2:11	58415
Surrogate: Toluene-d8	105		80-114	%REC	16	04/07/2011 2:11	58415
Surrogate: Bromofluorobenzene	105		60-123	%REC	16	04/07/2011 2:11	58415

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
RL - Reporting Limit

Mitkem Laboratories

Date: *14-Apr-11*

Client: AECOM Technical Services, Inc.
Client Sample ID: TW-1
Lab ID: K0479-03
Project: NOW Corp. Site
Collection Date: 03/29/11 12:05

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		2.5	µg/L	5	04/07/2011 2:40	58415
Chloroethane	ND		2.5	µg/L	5	04/07/2011 2:40	58415
1,1-Dichloroethene	11		2.5	µg/L	5	04/07/2011 2:40	58415
trans-1,2-Dichloroethene	ND		2.5	µg/L	5	04/07/2011 2:40	58415
Methyl tert-butyl ether	ND		2.5	µg/L	5	04/07/2011 2:40	58415
1,1-Dichloroethane	50		2.5	µg/L	5	04/07/2011 2:40	58415
cis-1,2-Dichloroethene	10		2.5	µg/L	5	04/07/2011 2:40	58415
1,1,1-Trichloroethane	6.0		2.5	µg/L	5	04/07/2011 2:40	58415
1,2-Dichloroethane	ND		2.5	µg/L	5	04/07/2011 2:40	58415
Benzene	ND		2.5	µg/L	5	04/07/2011 2:40	58415
Trichloroethene	99		2.5	µg/L	5	04/07/2011 2:40	58415
Toluene	ND		2.5	µg/L	5	04/07/2011 2:40	58415
1,1,2-Trichloroethane	ND		2.5	µg/L	5	04/07/2011 2:40	58415
Tetrachloroethene	ND		2.5	µg/L	5	04/07/2011 2:40	58415
Chlorobenzene	ND		2.5	µg/L	5	04/07/2011 2:40	58415
Ethylbenzene	ND		2.5	µg/L	5	04/07/2011 2:40	58415
m,p-Xylene	ND		2.5	µg/L	5	04/07/2011 2:40	58415
o-Xylene	ND		2.5	µg/L	5	04/07/2011 2:40	58415
Surrogate: Dibromofluoromethane	100		88-124	%REC	5	04/07/2011 2:40	58415
Surrogate: 1,2-Dichloroethane-d4	97.3		79-115	%REC	5	04/07/2011 2:40	58415
Surrogate: Toluene-d8	107		80-114	%REC	5	04/07/2011 2:40	58415
Surrogate: Bromofluorobenzene	108		60-123	%REC	5	04/07/2011 2:40	58415

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
RL - Reporting Limit

Mitkem Laboratories

Date: *14-Apr-11*

Client: AECOM Technical Services, Inc.
Client Sample ID: TW-2A
Lab ID: K0479-04

Project: NOW Corp. Site
Collection Date: 03/29/11 12:10

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	04/07/2011 3:08	58415
Chloroethane	ND		13	µg/L	25	04/07/2011 3:08	58415
1,1-Dichloroethene	37		13	µg/L	25	04/07/2011 3:08	58415
trans-1,2-Dichloroethene	ND		13	µg/L	25	04/07/2011 3:08	58415
Methyl tert-butyl ether	ND		13	µg/L	25	04/07/2011 3:08	58415
1,1-Dichloroethane	130		13	µg/L	25	04/07/2011 3:08	58415
cis-1,2-Dichloroethene	ND		13	µg/L	25	04/07/2011 3:08	58415
1,1,1-Trichloroethane	320		13	µg/L	25	04/07/2011 3:08	58415
1,2-Dichloroethane	ND		13	µg/L	25	04/07/2011 3:08	58415
Benzene	ND		13	µg/L	25	04/07/2011 3:08	58415
Trichloroethene	350		13	µg/L	25	04/07/2011 3:08	58415
Toluene	ND		13	µg/L	25	04/07/2011 3:08	58415
1,1,2-Trichloroethane	ND		13	µg/L	25	04/07/2011 3:08	58415
Tetrachloroethene	ND		13	µg/L	25	04/07/2011 3:08	58415
Chlorobenzene	ND		13	µg/L	25	04/07/2011 3:08	58415
Ethylbenzene	ND		13	µg/L	25	04/07/2011 3:08	58415
m,p-Xylene	ND		13	µg/L	25	04/07/2011 3:08	58415
o-Xylene	ND		13	µg/L	25	04/07/2011 3:08	58415
Surrogate: Dibromofluoromethane	99.2		88-124	%REC	25	04/07/2011 3:08	58415
Surrogate: 1,2-Dichloroethane-d4	108		79-115	%REC	25	04/07/2011 3:08	58415
Surrogate: Toluene-d8	104		80-114	%REC	25	04/07/2011 3:08	58415
Surrogate: Bromofluorobenzene	106		60-123	%REC	25	04/07/2011 3:08	58415

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
RL - Reporting Limit

Mitkem Laboratories

Date: *14-Apr-11*

Client: AECOM Technical Services, Inc.
Client Sample ID: TW-3
Lab ID: K0479-05
Project: NOW Corp. Site
Collection Date: 03/29/11 12:15

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	1	04/07/2011 3:37	58415
Chloroethane	ND		0.50	µg/L	1	04/07/2011 3:37	58415
1,1-Dichloroethene	1.3		0.50	µg/L	1	04/07/2011 3:37	58415
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	04/07/2011 3:37	58415
Methyl tert-butyl ether	ND		0.50	µg/L	1	04/07/2011 3:37	58415
1,1-Dichloroethane	8.0		0.50	µg/L	1	04/07/2011 3:37	58415
cis-1,2-Dichloroethene	ND		0.50	µg/L	1	04/07/2011 3:37	58415
1,1,1-Trichloroethane	2.8		0.50	µg/L	1	04/07/2011 3:37	58415
1,2-Dichloroethane	ND		0.50	µg/L	1	04/07/2011 3:37	58415
Benzene	ND		0.50	µg/L	1	04/07/2011 3:37	58415
Trichloroethene	7.3		0.50	µg/L	1	04/07/2011 3:37	58415
Toluene	ND		0.50	µg/L	1	04/07/2011 3:37	58415
1,1,2-Trichloroethane	ND		0.50	µg/L	1	04/07/2011 3:37	58415
Tetrachloroethene	ND		0.50	µg/L	1	04/07/2011 3:37	58415
Chlorobenzene	ND		0.50	µg/L	1	04/07/2011 3:37	58415
Ethylbenzene	ND		0.50	µg/L	1	04/07/2011 3:37	58415
m,p-Xylene	ND		0.50	µg/L	1	04/07/2011 3:37	58415
o-Xylene	ND		0.50	µg/L	1	04/07/2011 3:37	58415
Surrogate: Dibromofluoromethane	103		88-124	%REC	1	04/07/2011 3:37	58415
Surrogate: 1,2-Dichloroethane-d4	102		79-115	%REC	1	04/07/2011 3:37	58415
Surrogate: Toluene-d8	103		80-114	%REC	1	04/07/2011 3:37	58415
Surrogate: Bromofluorobenzene	102		60-123	%REC	1	04/07/2011 3:37	58415

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
RL - Reporting Limit

Mitkem Laboratories

Date: *14-Apr-11*

Client: AECOM Technical Services, Inc.
Client Sample ID: TRIP BLANK
Lab ID: K0479-06

Project: NOW Corp. Site
Collection Date: 03/29/11 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	1	04/07/2011 4:06	58415
Chloroethane	ND		0.50	µg/L	1	04/07/2011 4:06	58415
1,1-Dichloroethene	ND		0.50	µg/L	1	04/07/2011 4:06	58415
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	04/07/2011 4:06	58415
Methyl tert-butyl ether	ND		0.50	µg/L	1	04/07/2011 4:06	58415
1,1-Dichloroethane	ND		0.50	µg/L	1	04/07/2011 4:06	58415
cis-1,2-Dichloroethene	ND		0.50	µg/L	1	04/07/2011 4:06	58415
1,1,1-Trichloroethane	ND		0.50	µg/L	1	04/07/2011 4:06	58415
1,2-Dichloroethane	ND		0.50	µg/L	1	04/07/2011 4:06	58415
Benzene	ND		0.50	µg/L	1	04/07/2011 4:06	58415
Trichloroethene	ND		0.50	µg/L	1	04/07/2011 4:06	58415
Toluene	ND		0.50	µg/L	1	04/07/2011 4:06	58415
1,1,2-Trichloroethane	ND		0.50	µg/L	1	04/07/2011 4:06	58415
Tetrachloroethene	ND		0.50	µg/L	1	04/07/2011 4:06	58415
Chlorobenzene	ND		0.50	µg/L	1	04/07/2011 4:06	58415
Ethylbenzene	ND		0.50	µg/L	1	04/07/2011 4:06	58415
m,p-Xylene	ND		0.50	µg/L	1	04/07/2011 4:06	58415
o-Xylene	ND		0.50	µg/L	1	04/07/2011 4:06	58415
Surrogate: Dibromofluoromethane	99.3		88-124	%REC	1	04/07/2011 4:06	58415
Surrogate: 1,2-Dichloroethane-d4	103		79-115	%REC	1	04/07/2011 4:06	58415
Surrogate: Toluene-d8	106		80-114	%REC	1	04/07/2011 4:06	58415
Surrogate: Bromofluorobenzene	106		60-123	%REC	1	04/07/2011 4:06	58415

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
RL - Reporting Limit

CLIENT: AECOM Technical Services, Inc.
Work Order: K0479
Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

SW8260_25_W

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

Sample ID: **MB-58415** SampType: **MBLK** TestCode: **SW8260_25_W** Prep Date: **04/06/11 13:41** Run ID: **V5_110406A**
Client ID: **MB-58415** Batch ID: **58415** Units: **µg/L** Analysis Date: **04/07/11 1:15** SeqNo: **1503996**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.15	0.50									
Chloroethane	ND	0.24	0.50									
1,1-Dichloroethene	ND	0.19	0.50									
trans-1,2-Dichloroethene	ND	0.14	0.50									
Methyl tert-butyl ether	ND	0.13	0.50									
1,1-Dichloroethane	ND	0.18	0.50									
cis-1,2-Dichloroethene	ND	0.19	0.50									
1,1,1-Trichloroethane	ND	0.11	0.50									
1,2-Dichloroethane	ND	0.16	0.50									
Benzene	ND	0.12	0.50									
Trichloroethene	ND	0.13	0.50									
Toluene	ND	0.14	0.50									
1,1,2-Trichloroethane	ND	0.20	0.50									
Tetrachloroethene	ND	0.17	0.50									
Chlorobenzene	ND	0.13	0.50									
Ethylbenzene	ND	0.13	0.50									
m,p-Xylene	ND	0.22	0.50									
o-Xylene	ND	0.17	0.50									
Surrogate: Dibromofluoromethane	9.809		0.50	10.00	0	98.1	88	124	0			
Surrogate: 1,2-Dichloroethane-d4	10.18		0.50	10.00	0	102	79	115	0			
Surrogate: Toluene-d8	10.61		0.50	10.00	0	106	80	114	0			
Surrogate: Bromofluorobenzene	10.55		0.50	10.00	0	105	60	123	0			

CLIENT: AECOM Technical Services, Inc.
Work Order: K0479
Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

SW8260_25_W

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

Sample ID: **LCS-58415** SampType: **LCS** TestCode: **SW8260_25_W** Prep Date: **04/06/11 13:41** Run ID: **V5_110406A**
Client ID: **LCS-58415** Batch ID: **58415** Units: **µg/L** Analysis Date: **04/07/11 0:47** SeqNo: **1503995**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.951	0.15	0.50	10.00	0	99.5	77	120	0			
Chloroethane	11.70	0.24	0.50	10.00	0	117	75	135	0			
1,1-Dichloroethene	10.31	0.19	0.50	10.00	0	103	81	125	0			
trans-1,2-Dichloroethene	10.81	0.14	0.50	10.00	0	108	60	137	0			
Methyl tert-butyl ether	10.48	0.13	0.50	10.00	0	105	61	134	0			
1,1-Dichloroethane	10.26	0.18	0.50	10.00	0	103	82	120	0			
cis-1,2-Dichloroethene	10.86	0.19	0.50	10.00	0	109	84	116	0			
1,1,1-Trichloroethane	10.97	0.11	0.50	10.00	0	110	80	124	0			
1,2-Dichloroethane	11.11	0.16	0.50	10.00	0	111	86	117	0			
Benzene	10.46	0.12	0.50	10.00	0	105	81	121	0			
Trichloroethene	10.38	0.13	0.50	10.00	0	104	74	123	0			
Toluene	10.43	0.14	0.50	10.00	0	104	88	117	0			
1,1,2-Trichloroethane	9.858	0.20	0.50	10.00	0	98.6	83	121	0			
Tetrachloroethene	11.13	0.17	0.50	10.00	0	111	74	115	0			
Chlorobenzene	11.07	0.13	0.50	10.00	0	111	83	112	0			
Ethylbenzene	10.93	0.13	0.50	10.00	0	109	87	110	0			
m,p-Xylene	21.47	0.22	0.50	20.00	0	107	87	114	0			
o-Xylene	10.96	0.17	0.50	10.00	0	110	84	114	0			
Surrogate: Dibromofluoromethane	10.52		0.50	10.00	0	105	88	124	0			
Surrogate: 1,2-Dichloroethane-d4	10.90		0.50	10.00	0	109	79	115	0			
Surrogate: Toluene-d8	10.20		0.50	10.00	0	102	80	114	0			
Surrogate: Bromofluorobenzene	10.27		0.50	10.00	0	103	60	123	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
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Mitkem Laboratories

Date: *14-Apr-11*

Client: AECOM Technical Services, Inc.
Client Sample ID: EFF-032911
Lab ID: K0479-01

Project: NOW Corp. Site
Collection Date: 03/29/11 11:35

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	04/14/2011 0:00	58576

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
RL - Reporting Limit

Mitkem Laboratories

Date: *14-Apr-11*

Client: AECOM Technical Services, Inc.
Client Sample ID: INF-032911
Lab ID: K0479-02

Project: NOW Corp. Site
Collection Date: 03/29/11 11:46

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	04/14/2011 0:00	58576

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
RL - Reporting Limit

CLIENT: AECOM Technical Services, Inc.
Work Order: K0479
Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

E1664
EPA 1664A -- Oil & Grease, HEM

Sample ID: **MB-58576** SampType: **MBLK** TestCode: **E1664** Prep Date: **04/13/11 10:41** Run ID: **MANUAL_110414B**
Client ID: **MB-58576** Batch ID: **58576** Units: **mg/L** Analysis Date: **04/14/11 0:00** SeqNo: **1509005**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease, Total Recoverable	ND	1.2	5.0									

Sample ID: **LCS-58576** SampType: **LCS** TestCode: **E1664** Prep Date: **04/13/11 10:41** Run ID: **MANUAL_110414B**
Client ID: **LCS-58576** Batch ID: **58576** Units: **mg/L** Analysis Date: **04/14/11 0:00** SeqNo: **1509003**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease, Total Recoverable	36.80	1.2	5.0	40.00	0	92.0	78	114	0			

Sample ID: **LCSD-58576** SampType: **LCSD** TestCode: **E1664** Prep Date: **04/13/11 10:41** Run ID: **MANUAL_110414B**
Client ID: **LCSD-58576** Batch ID: **58576** Units: **mg/L** Analysis Date: **04/14/11 0:00** SeqNo: **1509004**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease, Total Recoverable	39.10	1.2	5.0	40.00	0	97.8	78	114	36.80	6.06	18	

Mitkem Laboratories

Date: *08-Apr-11*

Client: AECOM Technical Services, Inc.
Client Sample ID: EFF-032911
Lab ID: K0479-01

Project: NOW Corp. Site
Collection Date: 03/29/11 11:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_W**
Aluminum	ND		200	µg/L	1	04/01/2011 16:22	58293
Arsenic	ND		20	µg/L	1	04/01/2011 16:22	58293
Barium	59	J	200	µg/L	1	04/01/2011 16:22	58293
Chromium	ND		20	µg/L	1	04/01/2011 16:22	58293
Copper	ND		25	µg/L	1	04/01/2011 16:22	58293
Iron	ND		200	µg/L	1	04/01/2011 16:22	58293
Manganese	29	J	50	µg/L	1	04/01/2011 16:22	58293
Nickel	ND		50	µg/L	1	04/01/2011 16:22	58293
Zinc	10	J	50	µg/L	1	04/01/2011 16:22	58293
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury	ND		0.20	µg/L	1	04/01/2011 15:52	58318

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
RL - Reporting Limit

Mitkem Laboratories

Date: *08-Apr-11*

Client: AECOM Technical Services, Inc.
Client Sample ID: INF-032911
Lab ID: K0479-02

Project: NOW Corp. Site
Collection Date: 03/29/11 11:46

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_W**
Aluminum	ND		200	µg/L	1	04/01/2011 16:25	58293
Arsenic	ND		20	µg/L	1	04/01/2011 16:25	58293
Barium	61	J	200	µg/L	1	04/01/2011 16:25	58293
Chromium	ND		20	µg/L	1	04/01/2011 16:25	58293
Copper	ND		30	µg/L	1	04/01/2011 16:25	58293
Iron	47	J	200	µg/L	1	04/01/2011 16:25	58293
Manganese	95		50	µg/L	1	04/01/2011 16:25	58293
Nickel	ND		50	µg/L	1	04/01/2011 16:25	58293
Zinc	11	J	50	µg/L	1	04/01/2011 16:25	58293
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury	ND		0.20	µg/L	1	04/01/2011 15:54	58318

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
RL - Reporting Limit

CLIENT: AECOM Technical Services, Inc.
Work Order: K0479
Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

SW6010_W
SW846 6010C -- Metals by ICP

Sample ID: **MB-58293** SampType: **MBLK** TestCode: **SW6010_W** Prep Date: **03/31/11 11:45** Run ID: **OPTIMA3_110401D**
Client ID: **MB-58293** Batch ID: **58293** Units: **µg/L** Analysis Date: **04/01/11 15:06** SeqNo: **1501224**

Analyte	Result	MDL	RL	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-58293** SampType: **LCS** TestCode: **SW6010_W** Prep Date: **03/31/11 11:45** Run ID: **OPTIMA3_110401D**
Client ID: **LCS-58293** Batch ID: **58293** Units: **µg/L** Analysis Date: **04/01/11 15:09** SeqNo: **1501225**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	8845	66	200	9100	0	97.2	80	120	0			
Arsenic	472.6	4.3	20	455.0	0	104	80	120	0			
Barium	9121	1.1	200	9100	0	100	80	120	0			
Chromium	867.2	0.64	20	910.0	0	95.3	80	120	0			
Copper	1117	3.6	30	1130	0	98.8	80	120	0			
Iron	4580	31	200	4550	0	101	80	120	0			
Manganese	2291	10	50	2270	0	101	80	120	0			
Nickel	2344	0.85	50	2270	0	103	80	120	0			
Zinc	2251	4.9	50	2270	0	99.2	80	120	0			

CLIENT: AECOM Technical Services, Inc.
Work Order: K0479
Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

SW7470

SW846 7470A -- Mercury by FIA

Sample ID: **MB-58318**	SampType: **MBLK**	TestCode: **SW7470**			Prep Date: **04/01/11 11:15**			Run ID: **FIMS1_110401A**				
Client ID: **MB-58318**	Batch ID: **58318**	Units: **µg/L**			Analysis Date: **04/01/11 15:28**			SeqNo: **1500996**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.028	0.20									

Sample ID: **LCS-58318**	SampType: **LCS**	TestCode: **SW7470**			Prep Date: **04/01/11 11:15**			Run ID: **FIMS1_110401A**				
Client ID: **LCS-58318**	Batch ID: **58318**	Units: **µg/L**			Analysis Date: **04/01/11 15:30**			SeqNo: **1500997**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.889	0.028	0.20	4.550	0	107	80	120	0			

Sample ID: **LCSD-58318**	SampType: **LCSD**	TestCode: **SW7470**			Prep Date: **04/01/11 11:15**			Run ID: **FIMS1_110401A**				
Client ID: **LCSD-58318**	Batch ID: **58318**	Units: **µg/L**			Analysis Date: **04/01/11 15:31**			SeqNo: **1500998**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.614	0.028	0.20	4.550	0	101	80	120	4.889	5.78	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; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Mitkem Laboratories

Date: *07-Apr-11*

Client: AECOM Technical Services, Inc.
Client Sample ID: EFF-032911
Lab ID: K0479-01

Project: NOW Corp. Site
Collection Date: 03/29/11 11:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	260		10	mg/L	1	04/01/2011 1:38	58308
SM 2540D -- TOTAL SUSPENDED SOLIDS							**SM2540_TSS**
Total Suspended Solids	ND		10	mg/L	1	04/01/2011 1:38	58309
SW846 9012B -- Total Cyanide							**SW9012_W**
Cyanide	ND		10	ug/L	1	04/07/2011 11:06	58418

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
RL - Reporting Limit

Mitkem Laboratories

Date: *07-Apr-11*

Client: AECOM Technical Services, Inc.
Client Sample ID: INF-032911
Lab ID: K0479-02
Project: NOW Corp. Site
Collection Date: 03/29/11 11:46

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	270		10	mg/L	1	04/01/2011 3:55	58308
SM 2540D -- TOTAL SUSPENDED SOLIDS							**SM2540_TSS**
Total Suspended Solids	11		10	mg/L	1	04/01/2011 3:55	58309
SW846 9012B -- Total Cyanide							**SW9012_W**
Cyanide	ND		10	ug/L	1	04/07/2011 11:13	58418

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
RL - Reporting Limit

CLIENT: AECOM Technical Services, Inc.
Work Order: K0479
Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

SM2540_TDS
SM 2540C -- TOTAL DISSOLVED SOLIDS

Sample ID: **MB-58308** SampType: **MBLK** TestCode: **SM2540_TDS** Prep Date: **03/31/11 16:30** Run ID: **MANUAL_110331B**
Client ID: **MB-58308** Batch ID: **58308** Units: **mg/L** Analysis Date: **03/31/11 16:30** SeqNo: **1501708**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	10	10									

Sample ID: **LCS-58308** SampType: **LCS** TestCode: **SM2540_TDS** Prep Date: **03/31/11 16:30** Run ID: **MANUAL_110331B**
Client ID: **LCS-58308** Batch ID: **58308** Units: **mg/L** Analysis Date: **03/31/11 18:47** SeqNo: **1501709**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	395.0	10	10	372.0	0	106	80	120	0			

Sample ID: **K0479-02CDUP** SampType: **DUP** TestCode: **SM2540_TDS** Prep Date: **03/31/11 16:30** Run ID: **MANUAL_110331B**
Client ID: **INF-032911** Batch ID: **58308** Units: **mg/L** Analysis Date: **04/01/11 6:12** SeqNo: **1501714**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	255.0	10	10	0	0	0	0	0	268.0	4.97	5.0	

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

CLIENT: AECOM Technical Services, Inc.
Work Order: K0479
Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

SM2540_TSS
SM 2540D -- TOTAL SUSPENDED SOLIDS

Sample ID: **MB-58309**	SampType: **MBLK**	TestCode: **SM2540_TSS**			Prep Date: **03/31/11 16:30**			Run ID: **MANUAL_110331C**				
Client ID: **MB-58309**	Batch ID: **58309**	Units: **mg/L**			Analysis Date: **03/31/11 16:30**			SeqNo: **1501755**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	ND	10	10									

Sample ID: **LCS-58309**	SampType: **LCS**	TestCode: **SM2540_TSS**			Prep Date: **03/31/11 16:30**			Run ID: **MANUAL_110331C**				
Client ID: **LCS-58309**	Batch ID: **58309**	Units: **mg/L**			Analysis Date: **03/31/11 18:47**			SeqNo: **1501756**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	73.00	10	10	68.60	0	106	80	120	0			

Sample ID: **K0479-02CDUP**	SampType: **DUP**	TestCode: **SM2540_TSS**			Prep Date: **03/31/11 16:30**			Run ID: **MANUAL_110331C**				
Client ID: **INF-032911**	Batch ID: **58309**	Units: **mg/L**			Analysis Date: **04/01/11 6:12**			SeqNo: **1501761**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	ND	10	10	0	0	0	0	0	11.00	0	5.0	

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

CLIENT: AECOM Technical Services, Inc.
Work Order: K0479
Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

SW9012_W
SW846 9012B -- Total Cyanide

Sample ID: **MB-58418**	SampType: **MBLK**	TestCode: **SW9012_W**			Prep Date: **04/06/11 13:00**			Run ID: **LACHAT1_110407A**			
Client ID: **MB-58418**	Batch ID: **58418**	Units: **ug/L**			Analysis Date: **04/07/11 10:23**			SeqNo: **1504209**			
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	*ND*	7.5	20									

Sample ID: **LCS-58418**	SampType: **LCS**	TestCode: **SW9012_W**			Prep Date: **04/06/11 13:00**			Run ID: **LACHAT1_110407A**			
Client ID: **LCS-58418**	Batch ID: **58418**	Units: **ug/L**			Analysis Date: **04/07/11 10:26**			SeqNo: **1504210**			
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	101.5	7.5	20	100.0	0	102	80	120	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
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; *RL - Reporting Limit*

m11.03.22.A

WorkOrder: K0479

03/31/2011 07:29

Mitkem Laboratories

Client ID: EARTH_NY
Project: NOW Corp. Site
WO Name: NOW Corp. Site
Location: NOW_CORP,
Comments: N/A

Case:
SDG:
PO: 94017.02

HC Due: 04/15/11
Fax Due:
Fax Report: ☐

Report Level: LEVEL 2
Special Program:
EDD:

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
K0479-01A	EFF-032911	03/29/2011 11:35	03/30/2011	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
K0479-01B	EFF-032911	03/29/2011 11:35	03/30/2011	Aqueous	SW6010_W	/ See SEL list				Y	M4
K0479-01B	EFF-032911	03/29/2011 11:35	03/30/2011	Aqueous	SW7470	/ See SEL list					M4
K0479-01C	EFF-032911	03/29/2011 11:35	03/30/2011	Aqueous	SM2540_TDS	/					E4
K0479-01C	EFF-032911	03/29/2011 11:35	03/30/2011	Aqueous	SM2540_TSS	/					E4
K0479-01D	EFF-032911	03/29/2011 11:35	03/30/2011	Aqueous	SW9012_W	/				Y	E4
K0479-01E	EFF-032911	03/29/2011 11:35	03/30/2011	Aqueous	E1664	/					E4
K0479-02A	INF-032911	03/29/2011 11:46	03/30/2011	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
K0479-02B	INF-032911	03/29/2011 11:46	03/30/2011	Aqueous	SW6010_W	/ See SEL list				Y	M4
K0479-02B	INF-032911	03/29/2011 11:46	03/30/2011	Aqueous	SW7470	/ See SEL list					M4
K0479-02C	INF-032911	03/29/2011 11:46	03/30/2011	Aqueous	SM2540_TDS	/					E4
K0479-02C	INF-032911	03/29/2011 11:46	03/30/2011	Aqueous	SM2540_TSS	/					E4
K0479-02D	INF-032911	03/29/2011 11:46	03/30/2011	Aqueous	SW9012_W	/				Y	E4
K0479-02E	INF-032911	03/29/2011 11:46	03/30/2011	Aqueous	E1664	/					E4
K0479-03A	TW-1	03/29/2011 12:05	03/30/2011	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
K0479-04A	TW-2A	03/29/2011 12:10	03/30/2011	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
K0479-05A	TW-3	03/29/2011 12:15	03/30/2011	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
K0479-06A	TRIP BLANK	03/29/2011 00:00	03/30/2011	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

Lab Client Rep: Edward A Lawler

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL 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

Project Mgr.: Stephen Chaniere

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 60135676 02
Site Name: Now Corp
Location: Staatsburg State: NY
Sampler(s): SRG

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8=$NaHSO_4$ 9= None 10= _____ 11= _____

List preservative code below:

2	4	9	2	5			

Notes:

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

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: 8260	Metals*	TSS/TDS	O+G	Cyanide	
	EFF-032911	3/29/11	11:35	G	GW	2	3		3	X	X	X	X	X	
	INF-032911		11:46				3		3		X	X	X	X	
	TW-1		12:05												
	TW-2A		12:10												
	TW-3		12:15												
	Trip Blank	—	—												

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State specific reporting standards:
_____

*Al, As, BA, CR, Cu, FE, MN, Hg Zn, N

☐ E-mail to _____
EDD Format _____

Condition upon receipt: ☑ Iced ☐ Ambient ☑ °C 4°C

Relinquished by:	Received by:	Date:	Time:
Steve Gray	—	3/29/11	15:00
	Daniel Meka	3/30/11	8:55

2359

MITKEM LABORATORIES
Sample Condition Form

Page ____ of ____

Received By: Daniel Mercer | Reviewed By: [signature] | Date: 3/30/11 | Mitkem Work Order #: K0479

Client Project: ~~AT 080 3/30/11~~ NOW CORP | Client: EARTH NY

1) Cooler Sealed — (Yes) / No

2) Custody Seal(s) — (Present) / Absent; (Coolers) / Bottles; ~~Intact~~ / Broken

3) Custody Seal Number(s) N/A

4) Chain-of-Custody — (Present) / Absent

5) Cooler Temperature 4°C

IR Temp Gun ID MT-1

Coolant Condition iced

6) Airbill(s) — (Present) / Absent

Airbill Number(s) Fed Ex 874755417267

7) Samples Bottles — (Intact) / Broken / Leaking

8) Date Received 3/30/11

9) Time Received 8:55

Preservative Name/Lot No.:

Lab Sample ID		Preservation (pH) HNO_3	H_2SO_4	HCl	NaOH	H_3PO_4	VOA Matrix	Soil Headspace or Air Bubble ≥ 1/4"
K0479	01	~~<2~~ 3/30/11 DRM		<2	>12		H	
	02	<2		<2	7/12			
	03							
	04							
	05							
K0479	06						H	

DRM 03/30/11

VOA Matrix Key:

US = Unpreserved Soil	A = Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO4	F = Freeze

See Sample Condition Notification/Corrective Action Form yes / ~~no~~

Form ID: QAF.0006

Rad OK (yes) / no

\\Bernoulli\qa_safety\Controlled Forms\QAF.0006 sample condition form

Last Page of Data Report