

Operation, Maintenance and Monitoring Report December 2009

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

**Work Assignment No.
D004445-4.1**

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

February 2010

February 8, 2010

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" 2009**

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 (**November 20 to December 22, 2009**).

With the exceptions noted below, if any, the P&T system was online and operational throughout the reporting period. Approximately 505,000 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 15,800 gallons per day (gpd). During the prior reporting period, the average discharge was 18,300 gpd.

As of the last day of the reporting period, a total of 74,376,000 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 22, 2009. As you know, **there were three minor exceedances of effluent limitations**. A copy of the analytical laboratory report is attached. Table 2 summarizes selected operational data recorded on the sampling date.

AECOM made three site visits during the period to conduct the required system inspection, perform scheduled and/or unscheduled maintenance, and to collect water samples. The November 20 service visit was described in the previous report. Details for the current period follow:

December 15 – On site in response to system shut down on the evening of the 13th. A malfunctioning air flow switch falsely read that the blower was no longer functioning, and thus shut down the system. The switch was temporarily disconnected/bypassed to allow system to run freely, while necessary repairs/replacements could be made. Additionally during this visit, it was found that the PVC nipple on the effluent pressure sensor had cracked, allowing effluent water to be sprayed inside the building when the pump ran. A brass nipple was used to replace the PVC nipple. Building was cleaned up and dried out, but some mild water damage occurred on the plywood walls.

December 16 – Drained and cleaned out the three settling pits by scraping away and removing scale build up. Scale was placed in onsite drums.

December 22 – Monthly system inspection and water sampling. Removed malfunctioning air flow switch responsible for the December 13th shut down and found that the impellers were stiff and in need of cleaning and lubrication. Following maintenance, the flow sensor was reinstalled and found to be working properly. In addition, the holes in the air stripper diffusers were drilled out to improve stripper performance (and eliminate exceedances next month?).

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.

A handwritten signature in dark ink, appearing to read "Stephen Choiniere". The signature is fluid and cursive, with a horizontal line extending from the end.

Stephen R. Choiniere
Project Manager

Table 1
Summary of Influent and Effluent Data
Sampling Date: December 22, 2009
NOW Corporation Site
Town of Clinton, New York

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Effluent Limitations	
			TW-1	TW-2A	TW-3	(units)	
Quantity treated, per day		15,788				Monitor	gpd
pH	7.3	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	300	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	81 J	79 J	NA	NA	NA	2000	ug/L
Chromium	0.66 J	0.71 J	NA	NA	NA	100	ug/L
Copper	6.3 J	<25	NA	NA	NA	24	ug/L
Iron	58 J	<200	NA	NA	NA	600	ug/L
Mercury	<0.20	<0.20	NA	NA	NA	0.8	ug/L
Manganese	140	94	NA	NA	NA	600	ug/L
Nickel	1.5 BJ	1.3 BJ	NA	NA	NA	200	ug/L
Zinc	13 BJ	13 BJ	NA	NA	NA	150	ug/L
1,1,1-Trichloroethane	670	6.1	5.8	1100	7.9	5	ug/L
1,1,2-Trichloroethane	<20	<0.50	<2.5	<40	<0.50	1.2	ug/L
1,1-Dichloroethane	260	6.3	64	370	17	5	ug/L
1,1-Dichloroethene	40	0.31 J	18	50	2	0.5	ug/L
1,2-Dichloroethane	<20	<0.50	<2.5	<40	<0.50	1.6	ug/L
Benzene	<20	<0.50	<2.5	<40	<0.50	0.8	ug/L
Chlorobenzene	<20	<0.50	<2.5	<40	<0.50	5	ug/L
Chloroethane	<20	<0.50	<2.5	<40	<0.50	5	ug/L
cis-1,2-Dichloroethene	31	0.98	8.1	49	<0.50	5	ug/L
Ethylbenzene	<20	<0.50	<2.5	<40	<0.50	5	ug/L
Methyl tert-butyl ether	<20	<0.50	<2.5	<40	<0.50	5	ug/L
o-Xylene	<20	<0.50	<2.5	<40	<0.50	5	ug/L
p&m-Xylene	<20	<0.50	<2.5	<40	<0.50	10	ug/L
Tetrachloroethene	<20	<0.50	<2.5	<40	<0.50	1.4	ug/L
Toluene	<20	<0.50	<2.5	<40	<0.50	5	ug/L
trans-1,2-Dichloroethene	<20	<0.50	<2.5	<40	<0.50	5	ug/L
Trichloroethene	620	10	77	970	13	5	ug/L
Vinyl Chloride	<20	<0.50	<2.5	<40	<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 2009 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		12/22/09	Units
<i>TW-1</i>			
	Pumping Rate	2	GPM
	Water Level Above Transducer	32.92	feet
	Flow Meter Reading	5,166,700	gallons
	Pump Pressure	68	psi
<i>TW-2A</i>			
	Pumping Rate	14	GPM
	Water Level Above Transducer	46.24	feet
	Flow Meter Reading	13,817,500	gallons
	Pump Pressure	26	psi
<i>TW-3</i>			
	Pumping Rate	3	GPM
	Water Level Above Transducer	16.51	feet
	Flow Meter Reading	7,430,700	gallons
	Pump Pressure	60	psi
<i>Air Stripper</i>			
	Stripper Blower Pressure	18	inches H ₂ O
	Air Temperature in Stripper	46	°F
	Pressure Gauge - Left Leg	0.2	inches H ₂ O
	Pressure Gauge - Right Leg	0.2	inches H ₂ O
<i>Effluent Flow</i>			
	Effluent Flow this period (calculated)	505,200	gallons
	Total Effluent Flow (calculated)	74,376,100	gallons



A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

January 12, 2010

Earth Tech - AECOM
40 British American Boulevard
Latham, NY 12110
Attn: Mr. Stephen Choiniere

RE: Client Project: NOW Corp. Site, 94017.02, 12/09
Lab Project #: H2633

Dear Mr. Choiniere:

Enclosed please find the data report for the analyses of samples associated with the above referenced project.

If you have any questions, please do not hesitate to call me.

We appreciate your business.

Sincerely,

A handwritten signature in black ink, appearing to read "Edward A. Lawler", written over a horizontal line.

Edward A. Lawler
Laboratory Operations Manager

Report of Laboratory Analyses for AECOM Technical Services

Client Project: NOW Corp. 94017.02, 12/09

Mitkem Work Order ID: H2633

January 12, 2010

Prepared For: AECOM Technical Services
40 British American Boulevard
Latham, NY 12110
Attn: Mr. Stephen Choiniere

Prepared By: Mitkem Laboratories
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

Client: AECOM Technical Services

Client Project: NOW Corp, 94017.02, 12/09

Lab Work Order: H2633

Date samples received: 12/24/09

Project Narrative

This data report includes the analysis results for six (6) aqueous samples that were received from AECOM Technical Services on December 24, 2009. Analyses were performed per specification in the Chain of Custody form. For reference, a copy of the Mitkem Sample Log-In form is included for cross-referencing the client sample ID and laboratory sample ID.

Surrogate recoveries were within the QC limits for volatile organic analyses. Percent recoveries in laboratory control samples were within the QC limits. The following samples were analyzed at dilution: INF122209 (40X), TW-1 (5X) and TW-2A (80X).

Spike recoveries were within the QC limits in the laboratory control samples for metals, total dissolved solids, total suspended solids, cyanide and oil & grease analyses. Several elements detected below the reporting limit but above the method detection limit in method blank MB-48270 for metals analyses. Where these elements are also detected in a sample, their concentrations are qualified with a "B" on data sheets. Please note that these concentrations in the sample were also below the reporting limit.

No other unusual occurrences were noted during sample analysis.

All pages in this report have been numbered consecutively, starting with the title page and ending with a page saying only "Last Page of Data Report".

This data report has been reviewed and is authorized for release as evidenced by the signature below.



Edward A. Lawler
Laboratory Operations Manager

Mitkem Laboratories

Date: 05-Jan-10

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF122209

Lab ID: H2633-01

Project: NOW Corp. Site

Collection Date: 12/22/09 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260 -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		0.50	µg/L	1	12/29/2009 18:54	48303
Chloroethane	ND		0.50	µg/L	1	12/29/2009 18:54	48303
1,1-Dichloroethene	0.31	J	0.50	µg/L	1	12/29/2009 18:54	48303
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	12/29/2009 18:54	48303
Methyl tert-butyl ether	ND		0.50	µg/L	1	12/29/2009 18:54	48303
1,1-Dichloroethane	6.3		0.50	µg/L	1	12/29/2009 18:54	48303
cis-1,2-Dichloroethene	0.98		0.50	µg/L	1	12/29/2009 18:54	48303
1,1,1-Trichloroethane	6.1		0.50	µg/L	1	12/29/2009 18:54	48303
1,2-Dichloroethane	ND		0.50	µg/L	1	12/29/2009 18:54	48303
Benzene	ND		0.50	µg/L	1	12/29/2009 18:54	48303
Trichloroethene	10		0.50	µg/L	1	12/29/2009 18:54	48303
Toluene	ND		0.50	µg/L	1	12/29/2009 18:54	48303
1,1,2-Trichloroethane	ND		0.50	µg/L	1	12/29/2009 18:54	48303
Tetrachloroethene	ND		0.50	µg/L	1	12/29/2009 18:54	48303
Chlorobenzene	ND		0.50	µg/L	1	12/29/2009 18:54	48303
Ethylbenzene	ND		0.50	µg/L	1	12/29/2009 18:54	48303
m,p-Xylene	ND		0.50	µg/L	1	12/29/2009 18:54	48303
o-Xylene	ND		0.50	µg/L	1	12/29/2009 18:54	48303
Surrogate: Dibromofluoromethane	96.3		88-124	%REC	1	12/29/2009 18:54	48303
Surrogate: 1,2-Dichloroethane-d4	106		79-115	%REC	1	12/29/2009 18:54	48303
Surrogate: Toluene-d8	99.3		80-114	%REC	1	12/29/2009 18:54	48303
Surrogate: Bromofluorobenzene	103		60-123	%REC	1	12/29/2009 18:54	48303

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-10

Client: AECOM Technical Services, Inc.

Client Sample ID: INF122209

Lab ID: H2633-02

Project: NOW Corp. Site

Collection Date: 12/22/09 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260 -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		20	µg/L	40	12/29/2009 19:23	48303
Chloroethane	ND		20	µg/L	40	12/29/2009 19:23	48303
1,1-Dichloroethene	40		20	µg/L	40	12/29/2009 19:23	48303
trans-1,2-Dichloroethene	ND		20	µg/L	40	12/29/2009 19:23	48303
Methyl tert-butyl ether	ND		20	µg/L	40	12/29/2009 19:23	48303
1,1-Dichloroethane	260		20	µg/L	40	12/29/2009 19:23	48303
cis-1,2-Dichloroethene	31		20	µg/L	40	12/29/2009 19:23	48303
1,1,1-Trichloroethane	670		20	µg/L	40	12/29/2009 19:23	48303
1,2-Dichloroethane	ND		20	µg/L	40	12/29/2009 19:23	48303
Benzene	ND		20	µg/L	40	12/29/2009 19:23	48303
Trichloroethene	620		20	µg/L	40	12/29/2009 19:23	48303
Toluene	ND		20	µg/L	40	12/29/2009 19:23	48303
1,1,2-Trichloroethane	ND		20	µg/L	40	12/29/2009 19:23	48303
Tetrachloroethene	ND		20	µg/L	40	12/29/2009 19:23	48303
Chlorobenzene	ND		20	µg/L	40	12/29/2009 19:23	48303
Ethylbenzene	ND		20	µg/L	40	12/29/2009 19:23	48303
m,p-Xylene	ND		20	µg/L	40	12/29/2009 19:23	48303
o-Xylene	ND		20	µg/L	40	12/29/2009 19:23	48303
Surrogate: Dibromofluoromethane	105		88-124	%REC	40	12/29/2009 19:23	48303
Surrogate: 1,2-Dichloroethane-d4	106		79-115	%REC	40	12/29/2009 19:23	48303
Surrogate: Toluene-d8	99.6		80-114	%REC	40	12/29/2009 19:23	48303
Surrogate: Bromofluorobenzene	105		60-123	%REC	40	12/29/2009 19:23	48303

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

0004

Mitkem Laboratories

Date: 05-Jan-10

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-1

Lab ID: H2633-03

Project: NOW Corp. Site

Collection Date: 12/22/09 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260 -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		2.5	µg/L	5	12/29/2009 19:52	48303
Chloroethane	ND		2.5	µg/L	5	12/29/2009 19:52	48303
1,1-Dichloroethene	18		2.5	µg/L	5	12/29/2009 19:52	48303
trans-1,2-Dichloroethene	ND		2.5	µg/L	5	12/29/2009 19:52	48303
Methyl tert-butyl ether	ND		2.5	µg/L	5	12/29/2009 19:52	48303
1,1-Dichloroethane	64		2.5	µg/L	5	12/29/2009 19:52	48303
cis-1,2-Dichloroethene	8.1		2.5	µg/L	5	12/29/2009 19:52	48303
1,1,1-Trichloroethane	5.8		2.5	µg/L	5	12/29/2009 19:52	48303
1,2-Dichloroethane	ND		2.5	µg/L	5	12/29/2009 19:52	48303
Benzene	ND		2.5	µg/L	5	12/29/2009 19:52	48303
Trichloroethene	77		2.5	µg/L	5	12/29/2009 19:52	48303
Toluene	ND		2.5	µg/L	5	12/29/2009 19:52	48303
1,1,2-Trichloroethane	ND		2.5	µg/L	5	12/29/2009 19:52	48303
Tetrachloroethene	ND		2.5	µg/L	5	12/29/2009 19:52	48303
Chlorobenzene	ND		2.5	µg/L	5	12/29/2009 19:52	48303
Ethylbenzene	ND		2.5	µg/L	5	12/29/2009 19:52	48303
m,p-Xylene	ND		2.5	µg/L	5	12/29/2009 19:52	48303
o-Xylene	ND		2.5	µg/L	5	12/29/2009 19:52	48303
Surrogate: Dibromofluoromethane	99.5		88-124	%REC	5	12/29/2009 19:52	48303
Surrogate: 1,2-Dichloroethane-d4	106		79-115	%REC	5	12/29/2009 19:52	48303
Surrogate: Toluene-d8	98.4		80-114	%REC	5	12/29/2009 19:52	48303
Surrogate: Bromofluorobenzene	104		60-123	%REC	5	12/29/2009 19:52	48303

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

0005

Mitkem Laboratories

Date: 05-Jan-10

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-2A

Lab ID: H2633-04

Project: NOW Corp. Site

Collection Date: 12/22/09 11:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260 -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		40	µg/L	80	12/29/2009 20:22	48303
Chloroethane	ND		40	µg/L	80	12/29/2009 20:22	48303
1,1-Dichloroethene	50		40	µg/L	80	12/29/2009 20:22	48303
trans-1,2-Dichloroethene	ND		40	µg/L	80	12/29/2009 20:22	48303
Methyl tert-butyl ether	ND		40	µg/L	80	12/29/2009 20:22	48303
1,1-Dichloroethane	370		40	µg/L	80	12/29/2009 20:22	48303
cis-1,2-Dichloroethene	49		40	µg/L	80	12/29/2009 20:22	48303
1,1,1-Trichloroethane	1100		40	µg/L	80	12/29/2009 20:22	48303
1,2-Dichloroethane	ND		40	µg/L	80	12/29/2009 20:22	48303
Benzene	ND		40	µg/L	80	12/29/2009 20:22	48303
Trichloroethene	970		40	µg/L	80	12/29/2009 20:22	48303
Toluene	ND		40	µg/L	80	12/29/2009 20:22	48303
1,1,2-Trichloroethane	ND		40	µg/L	80	12/29/2009 20:22	48303
Tetrachloroethene	ND		40	µg/L	80	12/29/2009 20:22	48303
Chlorobenzene	ND		40	µg/L	80	12/29/2009 20:22	48303
Ethylbenzene	ND		40	µg/L	80	12/29/2009 20:22	48303
m,p-Xylene	ND		40	µg/L	80	12/29/2009 20:22	48303
o-Xylene	ND		40	µg/L	80	12/29/2009 20:22	48303
Surrogate: Dibromofluoromethane	104		88-124	%REC	80	12/29/2009 20:22	48303
Surrogate: 1,2-Dichloroethane-d4	108		79-115	%REC	80	12/29/2009 20:22	48303
Surrogate: Toluene-d8	99.2		80-114	%REC	80	12/29/2009 20:22	48303
Surrogate: Bromofluorobenzene	109		60-123	%REC	80	12/29/2009 20:22	48303

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

0006

Mitkem Laboratories

Date: 05-Jan-10

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-3

Lab ID: H2633-05

Project: NOW Corp. Site

Collection Date: 12/22/09 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260 -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		0.50	µg/L	1	12/29/2009 20:51	48303
Chloroethane	ND		0.50	µg/L	1	12/29/2009 20:51	48303
1,1-Dichloroethene	2.0		0.50	µg/L	1	12/29/2009 20:51	48303
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	12/29/2009 20:51	48303
Methyl tert-butyl ether	ND		0.50	µg/L	1	12/29/2009 20:51	48303
1,1-Dichloroethane	17		0.50	µg/L	1	12/29/2009 20:51	48303
cis-1,2-Dichloroethene	ND		0.50	µg/L	1	12/29/2009 20:51	48303
1,1,1-Trichloroethane	7.9		0.50	µg/L	1	12/29/2009 20:51	48303
1,2-Dichloroethane	ND		0.50	µg/L	1	12/29/2009 20:51	48303
Benzene	ND		0.50	µg/L	1	12/29/2009 20:51	48303
Trichloroethene	13		0.50	µg/L	1	12/29/2009 20:51	48303
Toluene	ND		0.50	µg/L	1	12/29/2009 20:51	48303
1,1,2-Trichloroethane	ND		0.50	µg/L	1	12/29/2009 20:51	48303
Tetrachloroethene	ND		0.50	µg/L	1	12/29/2009 20:51	48303
Chlorobenzene	ND		0.50	µg/L	1	12/29/2009 20:51	48303
Ethylbenzene	ND		0.50	µg/L	1	12/29/2009 20:51	48303
m,p-Xylene	ND		0.50	µg/L	1	12/29/2009 20:51	48303
o-Xylene	ND		0.50	µg/L	1	12/29/2009 20:51	48303
Surrogate: Dibromofluoromethane	101		88-124	%REC	1	12/29/2009 20:51	48303
Surrogate: 1,2-Dichloroethane-d4	98.3		79-115	%REC	1	12/29/2009 20:51	48303
Surrogate: Toluene-d8	95.9		80-114	%REC	1	12/29/2009 20:51	48303
Surrogate: Bromofluorobenzene	107		60-123	%REC	1	12/29/2009 20:51	48303

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

0007

Mitkem Laboratories

Date: 05-Jan-10

Client: AECOM Technical Services, Inc.

Client Sample ID: TRIP BLANK

Lab ID: H2633-06

Project: NOW Corp. Site

Collection Date: 12/22/09 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260 -- VOC by GC-MS (25 mL Purge)							SW8260_25_W
Vinyl chloride	ND		0.50	µg/L	1	12/29/2009 21:19	48303
Chloroethane	ND		0.50	µg/L	1	12/29/2009 21:19	48303
1,1-Dichloroethene	ND		0.50	µg/L	1	12/29/2009 21:19	48303
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	12/29/2009 21:19	48303
Methyl tert-butyl ether	ND		0.50	µg/L	1	12/29/2009 21:19	48303
1,1-Dichloroethane	ND		0.50	µg/L	1	12/29/2009 21:19	48303
cis-1,2-Dichloroethene	ND		0.50	µg/L	1	12/29/2009 21:19	48303
1,1,1-Trichloroethane	ND		0.50	µg/L	1	12/29/2009 21:19	48303
1,2-Dichloroethane	ND		0.50	µg/L	1	12/29/2009 21:19	48303
Benzene	ND		0.50	µg/L	1	12/29/2009 21:19	48303
Trichloroethene	ND		0.50	µg/L	1	12/29/2009 21:19	48303
Toluene	ND		0.50	µg/L	1	12/29/2009 21:19	48303
1,1,2-Trichloroethane	ND		0.50	µg/L	1	12/29/2009 21:19	48303
Tetrachloroethene	ND		0.50	µg/L	1	12/29/2009 21:19	48303
Chlorobenzene	ND		0.50	µg/L	1	12/29/2009 21:19	48303
Ethylbenzene	ND		0.50	µg/L	1	12/29/2009 21:19	48303
m,p-Xylene	ND		0.50	µg/L	1	12/29/2009 21:19	48303
o-Xylene	ND		0.50	µg/L	1	12/29/2009 21:19	48303
Surrogate: Dibromofluoromethane	101		88-124	%REC	1	12/29/2009 21:19	48303
Surrogate: 1,2-Dichloroethane-d4	98.1		79-115	%REC	1	12/29/2009 21:19	48303
Surrogate: Toluene-d8	99.6		80-114	%REC	1	12/29/2009 21:19	48303
Surrogate: Bromofluorobenzene	105		60-123	%REC	1	12/29/2009 21:19	48303

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

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CLIENT: AECOM Technical Services, Inc.

ANALYTICAL QC SUMMARY REPORT

Work Order: H2633

SW8260_25_W

Project: NOW Corp. Site

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

Sample ID: MB-48303	SampType: MBLK	TestCode: SW8260_25_W	Prep Date: 12/29/2009	Run ID: V5_091229A							
Client ID: MB-48303	Batch ID: 48303	Units: µg/L	Analysis Date: 12/29/2009	SeqNo: 1182809							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.50									
Chloroethane	ND	0.50									
1,1-Dichloroethene	ND	0.50									
trans-1,2-Dichloroethene	ND	0.50									
Methyl tert-butyl ether	ND	0.50									
1,1-Dichloroethane	ND	0.50									
cis-1,2-Dichloroethene	ND	0.50									
1,1,1-Trichloroethane	ND	0.50									
1,2-Dichloroethane	ND	0.50									
Benzene	ND	0.50									
Trichloroethene	ND	0.50									
Toluene	ND	0.50									
1,1,2-Trichloroethane	ND	0.50									
Tetrachloroethene	ND	0.50									
Chlorobenzene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	0.50									
o-Xylene	ND	0.50									
Surrogate: Dibromofluoromethane	9.850	0.50	10.00	0	98.5	88	124	0			
Surrogate: 1,2-Dichloroethane-d4	9.134	0.50	10.00	0	91.3	79	115	0			
Surrogate: Toluene-d8	9.986	0.50	10.00	0	99.9	80	114	0			
Surrogate: Bromofluorobenzene	10.21	0.50	10.00	0	102	60	123	0			

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Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

mLIMS-001

CLIENT: AECOM Technical Services, Inc.
 Work Order: H2633
 Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

SW8260_25_W
 SW846 8260 -- VOC by GC-MS (25 mL Purge)

Sample ID: LCS-48303	SampType: LCS	TestCode: SW8260_25_W	Prep Date: 12/29/2009	Run ID: V5_091229A							
Client ID: LCS-48303	Batch ID: 48303	Units: µg/L	Analysis Date: 12/29/2009	SeqNo: 1182810							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.520	0.50	10.00	0	95.2	77	120	0			
Chloroethane	9.380	0.50	10.00	0	93.8	75	135	0			
1,1-Dichloroethene	9.398	0.50	10.00	0	94.0	81	125	0			
trans-1,2-Dichloroethene	9.549	0.50	10.00	0	95.5	60	137	0			
Methyl tert-butyl ether	9.493	0.50	10.00	0	94.9	61	134	0			
1,1-Dichloroethane	9.925	0.50	10.00	0	99.2	82	120	0			
cis-1,2-Dichloroethene	9.925	0.50	10.00	0	99.3	84	116	0			
1,1,1-Trichloroethane	9.684	0.50	10.00	0	96.8	80	124	0			
1,2-Dichloroethane	9.201	0.50	10.00	0	92.0	86	117	0			
Benzene	9.786	0.50	10.00	0	97.9	81	121	0			
Trichloroethene	9.629	0.50	10.00	0	96.3	74	123	0			
Toluene	10.12	0.50	10.00	0	101	88	117	0			
1,1,2-Trichloroethane	9.982	0.50	10.00	0	99.8	83	121	0			
Tetrachloroethene	9.961	0.50	10.00	0	99.6	74	115	0			
Chlorobenzene	9.837	0.50	10.00	0	98.4	83	112	0			
Ethylbenzene	9.976	0.50	10.00	0	99.8	87	110	0			
m,p-Xylene	19.47	0.50	20.00	0	97.3	87	114	0			
o-Xylene	9.876	0.50	10.00	0	98.8	84	114	0			
Surrogate: Dibromofluoromethane	10.06	0.50	10.00	0	101	88	124	0			
Surrogate: 1,2-Dichloroethane-d4	10.34	0.50	10.00	0	103	79	115	0			
Surrogate: Toluene-d8	9.923	0.50	10.00	0	99.2	80	114	0			
Surrogate: Bromofluorobenzene	10.01	0.50	10.00	0	100	60	123	0			

0010

Qualifiers: ND - Not Detected at the Reporting Limit
 mlIMS-001 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

CLIENT: AECOM Technical Services, Inc.
 Work Order: H2633
 Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

SW8260_25_W
 SW846 8260 -- VOC by GC-MS (25 mL Purge)

Sample ID: LCSD-48303	SampType: LCSD	TestCode: SW8260_25_W	Prep Date: 12/29/2009	Run ID: V5_091229A							
Client ID: LCSD-48303	Batch ID: 48303	Units: µg/L	Analysis Date: 12/29/2009	SeqNo: 1182811							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.883	0.50	10.00	0	98.8	77	120	9.520	3.74	40	
Chloroethane	9.991	0.50	10.00	0	99.9	75	135	9.380	6.31	40	
1,1-Dichloroethene	9.419	0.50	10.00	0	94.2	81	125	9.398	0.23	40	
trans-1,2-Dichloroethene	10.03	0.50	10.00	0	100	60	137	9.549	4.93	40	
Methyl tert-butyl ether	10.29	0.50	10.00	0	103	61	134	9.493	8.07	40	
1,1-Dichloroethane	10.41	0.50	10.00	0	104	82	120	9.925	4.72	40	
cis-1,2-Dichloroethene	10.41	0.50	10.00	0	104	84	116	9.925	4.77	40	
1,1,1-Trichloroethane	10.32	0.50	10.00	0	103	80	124	9.684	6.35	40	
1,2-Dichloroethane	9.831	0.50	10.00	0	98.3	86	117	9.201	6.62	40	
Benzene	10.44	0.50	10.00	0	104	81	121	9.786	6.48	40	
Trichloroethene	10.45	0.50	10.00	0	104	74	123	9.629	8.16	40	
Toluene	10.63	0.50	10.00	0	106	88	117	10.12	4.89	40	
1,1,1,2-Trichloroethane	9.742	0.50	10.00	0	97.4	83	121	9.982	2.43	40	
Tetrachloroethene	10.34	0.50	10.00	0	103	74	115	9.961	3.75	40	
Chlorobenzene	10.48	0.50	10.00	0	105	83	112	9.837	6.34	40	
Ethylbenzene	10.33	0.50	10.00	0	103	87	110	9.976	3.47	40	
m,p-Xylene	20.75	0.50	20.00	0	104	87	114	19.47	6.4	40	
o-Xylene	10.82	0.50	10.00	0	108	84	114	9.876	9.09	40	
Surrogate: Dibromofluoromethane	10.28	0.50	10.00	0	103	88	124	0			
Surrogate: 1,2-Dichloroethane-d4	9.942	0.50	10.00	0	99.4	79	115	0			
Surrogate: Toluene-d8	9.901	0.50	10.00	0	99.0	80	114	0			
Surrogate: Bromofluorobenzene	9.935	0.50	10.00	0	99.3	60	123	0			

0011

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

Mitkem Laboratories

Date: 07-Jan-10

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF122209

Lab ID: H2633-01

Project: NOW Corp. Site

Collection Date: 12/22/09 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 1664 -- Oil & Grease, HEM							E1664
Oil & Grease, Total Recoverable	ND		5.0	mg/L	1	01/07/2010 0:00	48400

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: 07-Jan-10

Client: AECOM Technical Services, Inc.

Client Sample ID: INF122209

Lab ID: H2633-02

Project: NOW Corp. Site

Collection Date: 12/22/09 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 1664 -- Oil & Grease, HEM							E1664
Oil & Grease, Total Recoverable	ND		5.0	mg/L	1	01/07/2010 0:00	48400

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: H2633

Project: NOW Corp. Site

E1664

EPA 1664 -- Oil & Grease, HEM

Sample ID: MB-48400	SampleType: MBLK	Batch ID: 48400	TestCode: E1664	Units: mg/L	Result	PQL	ND	5.0	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Client ID: MB-48400																	
Analyte																	
Oil & Grease, Total Recoverable																	
Sample ID: LCS-48400	SampleType: LCS	Batch ID: 48400	TestCode: E1664	Units: mg/L	Result	PQL	37.60	5.0	40.00	0	94.0	78	114	0			
Client ID: LCS-48400																	
Analyte																	
Oil & Grease, Total Recoverable																	
Sample ID: LCSD-48400	SampleType: LCSD	Batch ID: 48400	TestCode: E1664	Units: mg/L	Result	PQL	38.60	5.0	40.00	0	96.5	78	114	37.60	2.62	18	
Client ID: LCSD-48400																	
Analyte																	
Oil & Grease, Total Recoverable																	

Qualifiers:

NID - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Mitkem Laboratories

Date: 05-Jan-10

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF122209

Lab ID: H2633-01

Project: NOW Corp. Site

Collection Date: 12/22/09 10:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010 -- Metals by ICP				SW6010_W
Aluminum	ND	200 µg/L	1 12/30/2009 11:52	48270
Arsenic	ND	20 µg/L	1 12/30/2009 11:52	48270
Barium	79 J	200 µg/L	1 12/30/2009 11:52	48270
Chromium	0.71 J	20 µg/L	1 12/30/2009 11:52	48270
Copper	ND	25 µg/L	1 12/30/2009 11:52	48270
Iron	ND	200 µg/L	1 12/30/2009 11:52	48270
Manganese	94	50 µg/L	1 12/30/2009 11:52	48270
Nickel	1.3 BJ	50 µg/L	1 12/30/2009 11:52	48270
Zinc	13 BJ	50 µg/L	1 12/30/2009 11:52	48270
SW846 7470 -- Mercury by FIA				SW7470
Mercury	ND	0.20 µg/L	1 12/30/2009 11:57	48297

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-10**Client:** AECOM Technical Services, Inc.**Client Sample ID:** INF122209**Lab ID:** H2633-02**Project:** NOW Corp. Site**Collection Date:** 12/22/09 10:45

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010 -- Metals by ICP				SW6010_W
Aluminum	ND	200 µg/L	1 12/30/2009 11:55	48270
Arsenic	ND	20 µg/L	1 12/30/2009 11:55	48270
Barium	81 J	200 µg/L	1 12/30/2009 11:55	48270
Chromium	0.66 J	20 µg/L	1 12/30/2009 11:55	48270
Copper	6.3 J	25 µg/L	1 12/30/2009 11:55	48270
Iron	58 J	200 µg/L	1 12/30/2009 11:55	48270
Manganese	140	50 µg/L	1 12/30/2009 11:55	48270
Nickel	1.5 BJ	50 µg/L	1 12/30/2009 11:55	48270
Zinc	13 BJ	50 µg/L	1 12/30/2009 11:55	48270
SW846 7470 -- Mercury by FIA				SW7470
Mercury	ND	0.20 µg/L	1 12/30/2009 11:58	48297

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: H2633

SW6010_W

Project: NOW Corp. Site

SW846 6010 -- Metals by ICP

Sample ID: MB-48270	SampType: MBLK	TestCode: SW6010_W	Prep Date: 12/28/2009	Run ID: OPTIMA2_091230A							
Client ID: MB-48270	Batch ID: 48270	Units: µg/L	Analysis Date: 12/30/2009	SeqNo: 1183429							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	22.56	200									J
Arsenic	ND	20									
Barium	ND	200									
Chromium	ND	20									
Copper	ND	30									
Iron	ND	200									
Manganese	ND	50									
Nickel	1.054	50									J
Zinc	9.658	50									J

Sample ID: LCS-48270	SampType: LCS	TestCode: SW6010_W	Prep Date: 12/28/2009	Run ID: OPTIMA2_091230A							
Client ID: LCS-48270	Batch ID: 48270	Units: µg/L	Analysis Date: 12/30/2009	SeqNo: 1183430							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9049	200	9100	0	99.4	80	120	0			B
Arsenic	477.7	20	455.0	0	105	80	120	0			
Barium	9413	200	9100	0	103	80	120	0			
Chromium	908.4	20	910.0	0	99.8	80	120	0			
Copper	1149	30	1130	0	102	80	120	0			
Iron	4629	200	4550	0	102	80	120	0			
Manganese	2332	50	2270	0	103	80	120	0			
Nickel	2325	50	2270	0	102	80	120	0			B
Zinc	2325	50	2270	0	102	80	120	0			B

Qualifiers: ND - Not Detected at the Reporting Limit

mLIMS-001 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.

Work Order: H2633

SW6010_W

Project: NOW Corp. Site

SW846 6010 -- Metals by ICP

Sample ID: LCSD-48270	SampType: LCSD	TestCode: SW6010_W	Prep Date: 12/28/2009	Run ID: OPTIMA2_091230A							
Client ID: LCSD-48270	Batch ID: 48270	Units: µg/L	Analysis Date: 12/30/2009	SeqNo: 1183431							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9262	200	9100	0	102	80	120	9049	2.32	20	B
Arsenic	477.1	20	455.0	0	105	80	120	477.7	0.124	20	
Barium	9589	200	9100	0	105	80	120	9413	1.86	20	
Chromium	913.9	20	910.0	0	100	80	120	908.4	0.60	20	
Copper	1174	30	1130	0	104	80	120	1149	2.19	20	
Iron	4656	200	4550	0	102	80	120	4629	0.59	20	
Manganese	2381	50	2270	0	105	80	120	2332	2.06	20	
Nickel	2338	50	2270	0	103	80	120	2325	0.52	20	B
Zinc	2339	50	2270	0	103	80	120	2325	0.593	20	B

0018

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

CLIENT: AECOM Technical Services, Inc.
Work Order: H2633
Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

SW7470
SW846 7470 -- Mercury by FIA

Sample ID: MB-48297	SampType: MBLK	TestCode: SW7470	Prep Date: 12/29/2009	Run ID: FIMS1_091230A	
Client ID: MB-48297	Batch ID: 48297	Units: µg/L	Analysis Date: 12/30/2009	SeqNo: 1184771	
Analyte		Result	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury		ND	0.20		
Sample ID: LCS-48297	SampType: LCS	TestCode: SW7470	Prep Date: 12/29/2009	Run ID: FIMS1_091230A	
Client ID: LCS-48297	Batch ID: 48297	Units: µg/L	Analysis Date: 12/30/2009	SeqNo: 1184772	
Analyte		Result	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury		4.558	0.20	4.550	0 100 80 120 0
Sample ID: LCSD-48297	SampType: LCSD	TestCode: SW7470	Prep Date: 12/29/2009	Run ID: FIMS1_091230A	
Client ID: LCSD-48297	Batch ID: 48297	Units: µg/L	Analysis Date: 12/30/2009	SeqNo: 1184773	
Analyte		Result	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury		4.711	0.20	4.550	104 80 120 4.558 3.3 20

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
mLIMS-001 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

51202

Mitkem Laboratories**Date:** 05-Jan-10**Client:** AECOM Technical Services, Inc.**Client Sample ID:** EFF122209**Lab ID:** H2633-01**Project:** NOW Corp. Site**Collection Date:** 12/22/09 10:30

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	12/29/2009 9:10	48306
SM 2540D -- TOTAL SUSPENDED SOLIDS							SM2540_TSS
Total Suspended Solids	ND		10	mg/L	1	12/29/2009 9:10	48307
SW846 9012 -- Total Cyanide							SW9012_W
Cyanide	ND		10	µg/L	1	01/05/2010 11:27	48364

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-10

Client: AECOM Technical Services, Inc.

Client Sample ID: INF122209

Lab ID: H2633-02

Project: NOW Corp. Site

Collection Date: 12/22/09 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS							SM2540_TDS
Total Dissolved Solids	300		10	mg/L	1	12/29/2009 9:20	48306
SM 2540D -- TOTAL SUSPENDED SOLIDS							SM2540_TSS
Total Suspended Solids	ND		10	mg/L	1	12/29/2009 9:20	48307
SW846 9012 -- Total Cyanide							SW9012_W
Cyanide	ND		10	µg/L	1	01/05/2010 11:30	48364

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: H2633

SM2540_TDS

Project: NOW Corp. Site

SM 2540C -- TOTAL DISSOLVED SOLIDS

Sample ID: MB-48306	Sample Type: MBLK	Batch ID: 48306	TestCode: SM2540_TDS	Units: mg/L	Prep Date: 12/28/2009	Run ID: MANUAL_091228B
Client ID: MB-48306					Analysis Date: 12/29/2009	SeqNo: 1181716
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids	ND	10				
Sample ID: LCS-48306	Sample Type: LCS	Batch ID: 48306	TestCode: SM2540_TDS	Units: mg/L	Prep Date: 12/28/2009	Run ID: MANUAL_091228B
Client ID: LCS-48306					Analysis Date: 12/29/2009	SeqNo: 1181717
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids	208.0	10	198.0	0	105 80 120	0
Sample ID: LCSD-48306	Sample Type: LCSD	Batch ID: 48306	TestCode: SM2540_TDS	Units: mg/L	Prep Date: 12/28/2009	Run ID: MANUAL_091228B
Client ID: LCSD-48306					Analysis Date: 12/29/2009	SeqNo: 1181718
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val %RPD RPDLimit Qual
Total Dissolved Solids	214.0	10	198.0	0	108 80 120	208.0 2.84 20

0022

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

mLIMS-001

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.
 Work Order: H2633
 Project: NOW Corp. Site

SM2540_TSS
 SM 2540D -- TOTAL SUSPENDED SOLIDS

Sample ID: MB-48307	SampType: MBLK	TestCode: SM2540_TSS	Prep Date: 12/28/2009	Run ID: MANUAL_091228C	
Client ID: MB-48307	Batch ID: 48307	Units: mg/L	Analysis Date: 12/29/2009	SeqNo: 1181722	
Analyte	Result	PQL	SPK value	SPK Ref Val	RPD Ref Val
	ND	10			
Total Suspended Solids					
Sample ID: LCS-48307	SampType: LCS	TestCode: SM2540_TSS	Prep Date: 12/28/2009	Run ID: MANUAL_091228C	
Client ID: LCS-48307	Batch ID: 48307	Units: mg/L	Analysis Date: 12/29/2009	SeqNo: 1181723	
Analyte	Result	PQL	SPK value	SPK Ref Val	RPD Ref Val
	45.00	10	45.20	0	0
Total Suspended Solids					
Sample ID: LCSD-48307	SampType: LCSD	TestCode: SM2540_TSS	Prep Date: 12/28/2009	Run ID: MANUAL_091228C	
Client ID: LCSD-48307	Batch ID: 48307	Units: mg/L	Analysis Date: 12/29/2009	SeqNo: 1181724	
Analyte	Result	PQL	SPK value	SPK Ref Val	RPD Ref Val
	44.00	10	45.20	0	45.00
Total Suspended Solids					2.25
					20

0023

Qualifiers: ND - Not Detected at the Reporting Limit
 mLIMS-001 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.

Work Order: H2633

Project: NOW Corp. Site

SW9012_W

SW846 9012 -- Total Cyanide

Sample ID: MB-48364	SampType: MBLK	TestCode: SW9012_W	Prep Date: 1/4/2010	Run ID: LACHAT1_100105A							
Client ID: MB-48364	Batch ID: 48364	Units: µg/L	Analysis Date: 1/5/2010	SeqNo: 1185352							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	ND	20									

Sample ID: LCS-48364	SampType: LCS	TestCode: SW9012_W	Prep Date: 1/4/2010	Run ID: LACHAT1_100105A							
Client ID: LCS-48364	Batch ID: 48364	Units: µg/L	Analysis Date: 1/5/2010	SeqNo: 1185354							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	109.6	20	100.0	0	110	80	120	0			

Sample ID: LCSD-48364	SampType: LCSD	TestCode: SW9012_W	Prep Date: 1/4/2010	Run ID: LACHAT1_100105A							
Client ID: LCSD-48364	Batch ID: 48364	Units: µg/L	Analysis Date: 1/5/2010	SeqNo: 1185356							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	108.4	20	100.0	0	108	80	120	109.6	1.09	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
mLIMS-001 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

0024

WorkOrder: H2633

12/24/2009 11:24

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: 01/11/10 Report Level: LEVEL 2

Fax Due: EDD:

Fax Report: ☐

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
H2633-01A	EFF122209	12/22/2009 10:30	12/24/2009	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
H2633-01B	EFF122209	12/22/2009 10:30	12/24/2009	Aqueous	E1664	/					D1
H2633-01C	EFF122209	12/22/2009 10:30	12/24/2009	Aqueous	SW6010_W	/ See SEL list				Y	M3
H2633-01C	EFF122209	12/22/2009 10:30	12/24/2009	Aqueous	SW7470	/ See SEL list					M3
H2633-01D	EFF122209	12/22/2009 10:30	12/24/2009	Aqueous	SW9012_W	/				Y	D1
H2633-01E	EFF122209	12/22/2009 10:30	12/24/2009	Aqueous	SM2540_TDS	/					D1
H2633-01E	EFF122209	12/22/2009 10:30	12/24/2009	Aqueous	SM2540_TSS	/					D1
H2633-02A	INF122209	12/22/2009 10:45	12/24/2009	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
H2633-02B	INF122209	12/22/2009 10:45	12/24/2009	Aqueous	E1664	/					D1
H2633-02C	INF122209	12/22/2009 10:45	12/24/2009	Aqueous	SW6010_W	/ See SEL list				Y	M3
H2633-02C	INF122209	12/22/2009 10:45	12/24/2009	Aqueous	SW7470	/ See SEL list					M3
H2633-02D	INF122209	12/22/2009 10:45	12/24/2009	Aqueous	SW9012_W	/				Y	D1
H2633-02E	INF122209	12/22/2009 10:45	12/24/2009	Aqueous	SM2540_TDS	/					D1
H2633-02E	INF122209	12/22/2009 10:45	12/24/2009	Aqueous	SM2540_TSS	/					D1
H2633-03A	TW-1	12/22/2009 11:00	12/24/2009	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
H2633-04A	TW-2A	12/22/2009 11:05	12/24/2009	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
H2633-05A	TW-3	12/22/2009 11:10	12/24/2009	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
H2633-06A	TRIP BLANK	12/22/2009 00:00	12/24/2009	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



Page / of /

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
☐ Rush TAT - Date Needed: _____
 · All TATs subject to laboratory approval.
 · Min. 24-hour notification needed for rushes.
 · Samples disposed of after 60 days unless otherwise instructed.

Report To: AECOM

40 British American Blvd
Latham, NY 12110

Telephone #: 518-951-2200

Project Mgr. *Star Chainiere*

1= $\text{Na}_2\text{S}_2\text{O}_3$ 2= HCl 3= H_2SO_4 4= HNO_3
8= NaHSO_4 9=*none* 10=

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

Invoice To:

Same

P.O. No.: RQN:

NaOH 6=Ascorbic Acid 7=CH₃OH
11=

DW=Drinking Water GW=Groundwater WW=Wastewater

O=Oil SW=Surface Water SO=Soil SL=Sludge A=Air

$$X_3 =$$

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:
01	EFF122209	12/22/09	10:30
02	INF122209	↓	10:45
03	TW-1		11:00
04	TW-2A		11:05
05	TW-3	↓	11:10
06	Trip Blank		—

Relinquished by:

Received by:

Date: _____

Time:

Temp °C

☐ EDD Format

□ E-mail to

☐ Ambient ☒ Iced ☐ Refrigerated ☐ Fridge temp ☐ Freezer temp °C

☐ Freezer temp

☐ Fridge temp

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MITKEM LABORATORIES
Sample Condition Form

Page 1 of 1

Received By: <u>AED</u>		Reviewed By: <u>SN</u>		Date: <u>12/24/09</u>		MITKEM Workorder #: <u>H2633</u>		
Client Project: <u>NOW CORP</u>				Client: <u>EARTH NY</u>			Soil Headspace or Air Bubbles ≥ 1/4"	
				Preservation (pH)				
		Lab Sample ID	HNO ₃	H ₂ SO ₄	HCl	NaOH	H ₃ PO ₄	VOA Matrix
1) Cooler Sealed <u>Yes</u> / No		<u>H2633</u> 01	<u>L2</u>		<u>L2</u>	<u>712</u>		<u>H</u>
		↓ 02	<u>L2</u>		<u>L2</u>	<u>712</u>		<u>H</u>
2) Custody Seal(s) <u>Present</u> / Absent		03						↓
<u>Coolers</u> / Bottles		04						
<u>Intact</u> / Broken		↓ 05						↓
		<u>H2633</u> 06						<u>H</u>
3) Custody Seal Number(s) <u>N/A</u>		<div style="position: relative; height: 100px;"> </div>						
↓								
↓								
↓								
4) Chain-of-Custody <u>Present</u> / Absent								
5) Cooler Temperature <u>3°C</u>								
Coolant Condition <u>ICED</u>								
6) Airbill(s) <u>Present</u> / Absent								
Airbill Number(s) <u>FEDEX</u>								
<u>8690 7924 0383</u>								
7) Sample Bottles <u>Intact</u> / Broken / Leaking								
8) Date Received <u>12/24/09</u>								
9) Time Received <u>10:00</u>								
Preservative Name/Lot No:								

VOA Matrix Key:

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

See Sample Condition Notification/Corrective Action Form yes / no

Rad OK yes / no

Last Page of Data Report