

**Operation, Maintenance and Monitoring Report
August 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**

October 2009

October 9, 2009

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: "August" 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 (**July 16 to August 17, 2009**).

With the exceptions noted below, if any, the P&T system was online and operational throughout the reporting period. Approximately 258,000 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 8,100 gallons per day (gpd). During the prior reporting period, the average discharge was 29,000 gpd. The effluent discharge was significantly lower this period, due in part to seasonally low groundwater levels.

As of the last day of the reporting period, a total of 72,423,000 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 August 17, 2009. As reported to you in an email dated September 18, 2009 **cyanide was detected in the effluent sample at a concentration exceeding effluent limitations**. No cyanide was detected in the influent sample. A copy of the analytical laboratory report is attached. Table 2 summarizes selected operational data recorded on the sampling date. Table 3 presents the water level measurements taken on August 17, 2009.

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 July 16 service visit was described in the previous report. Details for the current period follow:

July 23 – After five months continuous service, technicians swapped out the “new” effluent pump for clean spare pump.

August 3 – Received alarm fax report showing system shutdown on July 27 due to high water in the final effluent pit. Onsite in response to effluent pump failure. Removed failed pump and installed “new” cleaned spare pump. Restarted system after nearly seven days downtime. Failed pump was later brought to Pump Service & Supply in Troy for inspection.

August 17 - Monthly system inspection and water sampling. Adjusted flow rates on TW-1 and TW-3. Recorded quarterly water levels at selected monitoring wells.

Page 2
Mr. Carl Hoffman
NYSDEC

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 cursive script, reading "Stephen Choiniere".

Stephen R. Choiniere
Project Manager

Table 1
Summary of Influent and Effluent Data
Sampling Date: August 17, 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		8,053				Monitor	gpd
pH	6.9	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	18	NA	NA	NA	10	ug/L
TDS	250	260	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	66 J	65 J	NA	NA	NA	2000	ug/L
Chromium	0.66 J	0.76 J	NA	NA	NA	100	ug/L
Copper	<25	<25	NA	NA	NA	24	ug/L
Iron	<200	<200	NA	NA	NA	600	ug/L
Mercury	<0.20	<0.20	NA	NA	NA	0.8	ug/L
Manganese	120 B	71 B	NA	NA	NA	600	ug/L
Nickel	2.5 J	2.2 J	NA	NA	NA	200	ug/L
Zinc	11 BJ	15 BJ	NA	NA	NA	150	ug/L
1,1,1-Trichloroethane	28	<0.50	7.1	550	2.7	5	ug/L
1,1,2-Trichloroethane	<0.50	<0.50	<2.5	<13	<0.50	1.2	ug/L
1,1-Dichloroethane	17	<0.50	77	210	14	5	ug/L
1,1-Dichloroethene	3.2	<0.50	51	66	5.5	0.5	ug/L
1,2-Dichloroethane	<0.50	<0.50	<2.5	<13	<0.50	1.6	ug/L
Benzene	<0.50	<0.50	<2.5	<13	<0.50	0.8	ug/L
Chlorobenzene	<0.50	<0.50	<2.5	<13	<0.50	5	ug/L
Chloroethane	<0.50	<0.50	<2.5	<13	<0.50	5	ug/L
cis-1,2-Dichloroethene	2.1	<0.50	9.5	27	0.84	5	ug/L
Ethylbenzene	<0.50	<0.50	<2.5	<13	<0.50	5	ug/L
Methyl tert-butyl ether	<0.50	<0.50	<2.5	<13	<0.50	5	ug/L
o-Xylene	<0.50	<0.50	<2.5	<13	<0.50	5	ug/L
p&m-Xylene	<0.50	<0.50	<2.5	<13	<0.50	10	ug/L
Tetrachloroethene	<0.50	<0.50	<2.5	<13	<0.50	1.4	ug/L
Toluene	<0.50	<0.50	<2.5	<13	<0.50	5	ug/L
trans-1,2-Dichloroethene	<0.50	<0.50	<2.5	<13	<0.50	5	ug/L
Trichloroethene	39	0.26 J	89	480	14	5	ug/L
Vinyl Chloride	<0.50	<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) "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 August 2009 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		8/17/09	Units
<i>TW-1</i>			
	Pumping Rate	1	GPM
	Water Level Above Transducer	16.01	feet
	Flow Meter Reading	5,041,300	gallons
	Pump Pressure	66	psi
<i>TW-2A</i>			
	Pumping Rate	13	GPM
	Water Level Above Transducer	43.52	feet
	Flow Meter Reading	12,318,000	gallons
	Pump Pressure	7	psi
<i>TW-3</i>			
	Pumping Rate	3	GPM
	Water Level Above Transducer	12.41	feet
	Flow Meter Reading	7,102,100	gallons
	Pump Pressure	62	psi
<i>Air Stripper</i>			
	Stripper Blower Pressure	26	inches H ₂ O
	Air Temperature in Stripper	66	°F
	Pressure Gauge - Left Leg	0.6	inches H ₂ O
	Pressure Gauge - Right Leg	0	inches H ₂ O
<i>Effluent Flow</i>			
	Effluent Flow this period (calculated)	257,700	gallons
	Total Effluent Flow (calculated)	72,422,600	gallons

Table 3
August 2009 Groundwater Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	MP Elevation	8/17/09	
		Depth to Water (Ft below MP)	GW Elevation
MW-1	289.50	12.12	277.38
MW-2	332.51	29.52	302.99
MW-3	312.83	27.70	285.13
MW-3S	312.51	25.53	286.98
MW-4	298.29	22.61	275.68
MW-4D	298.16	22.45	275.71
MW-5	285.48	18.85	266.63
MW-6S	287.90	6.40	281.50
MW-6D	287.25	9.32	277.93
MW-7S	292.12	18.95	273.17
MW-7D	292.54	3.43	289.11
OW-1	307.75	48.35	259.40
OW-2	305.96	68.92	237.04
OW-6	294.81	5.98	288.83
IW-1	312.46	30.84	281.62
IW-2	306.56	38.40	268.16

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



A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

September 18, 2009

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

RE: Client Project: NOW Corp. Site, 94017.02, 08/09
Lab Project #: H1579

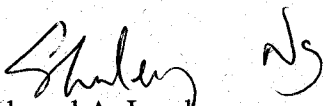
Dear Mr. Choiniere:

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,

 sign for
Edward A. Lawler
Laboratory Operations Manager

Report of Laboratory Analyses for AECOM Technical Services

Client Project: NOW Corp. 94017.02, 08/09

Mitkem Work Order ID: H1579

September 18, 2009

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, 08/09

Lab Work Order: H1579

Date samples received: 08/18/09

Project Narrative

This data report includes the analysis results for six (6) aqueous samples that were received from AECOM Technical Services on August 18, 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 with the exception of 1,2-dichloroethane-d4 in the initial analysis for sample INF 81709. Percent recoveries in laboratory control samples were within the QC limits with the exception of low recovery for toluene in LCS-45613. Due to high concentration of target analytes, samples TW-1 and TW-2A were initially analyzed at 5X and 25X respectively. Sample INF 81709 was reanalyzed at 2X dilution.

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. Trace amount of aluminum, copper, manganese and zinc were detected in method blank MB-45580 at a level below the reporting limits but above the MDL. These elements are flagged with a "B" on data reporting forms.

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.

 size for
Edward A. Lawler
Laboratory Operations Manager

Mitkem Laboratories

Date: 10-Sep-09

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF 81709

Lab ID: H1579-01

Project: NOW Corp. Site

Collection Date: 08/17/09 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		0.50	µg/L	1	08/20/2009 19:23	45613
Chloroethane	ND		0.50	µg/L	1	08/20/2009 19:23	45613
1,1-Dichloroethene	ND		0.50	µg/L	1	08/20/2009 19:23	45613
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	08/20/2009 19:23	45613
Methyl tert-butyl ether	ND		0.50	µg/L	1	08/20/2009 19:23	45613
1,1-Dichloroethane	ND		0.50	µg/L	1	08/20/2009 19:23	45613
cis-1,2-Dichloroethene	ND		0.50	µg/L	1	08/20/2009 19:23	45613
1,1,1-Trichloroethane	ND		0.50	µg/L	1	08/20/2009 19:23	45613
1,2-Dichloroethane	ND		0.50	µg/L	1	08/20/2009 19:23	45613
Benzene	ND		0.50	µg/L	1	08/20/2009 19:23	45613
Trichloroethene	0.26	J	0.50	µg/L	1	08/20/2009 19:23	45613
Toluene	ND		0.50	µg/L	1	08/20/2009 19:23	45613
1,1,2-Trichloroethane	ND		0.50	µg/L	1	08/20/2009 19:23	45613
Tetrachloroethene	ND		0.50	µg/L	1	08/20/2009 19:23	45613
Chlorobenzene	ND		0.50	µg/L	1	08/20/2009 19:23	45613
Ethylbenzene	ND		0.50	µg/L	1	08/20/2009 19:23	45613
m,p-Xylene	ND		0.50	µg/L	1	08/20/2009 19:23	45613
o-Xylene	ND		0.50	µg/L	1	08/20/2009 19:23	45613
Surrogate: Dibromofluoromethane	110		88-124	%REC	1	08/20/2009 19:23	45613
Surrogate: 1,2-Dichloroethane-d4	106		79-115	%REC	1	08/20/2009 19:23	45613
Surrogate: Toluene-d8	98.1		80-114	%REC	1	08/20/2009 19:23	45613
Surrogate: Bromofluorobenzene	93.1		60-123	%REC	1	08/20/2009 19:23	45613

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: 10-Sep-09

Client: AECOM Technical Services, Inc.

Client Sample ID: INF 81709

Lab ID: H1579-02

Project: NOW Corp. Site

Collection Date: 08/17/09 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		0.50	µg/L	1	08/20/2009 19:50	45613
Chloroethane	ND		0.50	µg/L	1	08/20/2009 19:50	45613
1,1-Dichloroethene	3.2		0.50	µg/L	1	08/20/2009 19:50	45613
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	08/20/2009 19:50	45613
Methyl tert-butyl ether	ND		0.50	µg/L	1	08/20/2009 19:50	45613
1,1-Dichloroethane	17		0.50	µg/L	1	08/20/2009 19:50	45613
cis-1,2-Dichloroethene	2.1		0.50	µg/L	1	08/20/2009 19:50	45613
1,1,1-Trichloroethane	51	E	0.50	µg/L	1	08/20/2009 19:50	45613
1,2-Dichloroethane	ND		0.50	µg/L	1	08/20/2009 19:50	45613
Benzene	ND		0.50	µg/L	1	08/20/2009 19:50	45613
Trichloroethene	39		0.50	µg/L	1	08/20/2009 19:50	45613
Toluene	ND		0.50	µg/L	1	08/20/2009 19:50	45613
1,1,2-Trichloroethane	ND		0.50	µg/L	1	08/20/2009 19:50	45613
Tetrachloroethene	ND		0.50	µg/L	1	08/20/2009 19:50	45613
Chlorobenzene	ND		0.50	µg/L	1	08/20/2009 19:50	45613
Ethylbenzene	ND		0.50	µg/L	1	08/20/2009 19:50	45613
m,p-Xylene	ND		0.50	µg/L	1	08/20/2009 19:50	45613
o-Xylene	ND		0.50	µg/L	1	08/20/2009 19:50	45613
Surrogate: Dibromofluoromethane	109		88-124	%REC	1	08/20/2009 19:50	45613
Surrogate: 1,2-Dichloroethane-d4	121	S	79-115	%REC	1	08/20/2009 19:50	45613
Surrogate: Toluene-d8	100		80-114	%REC	1	08/20/2009 19:50	45613
Surrogate: Bromofluorobenzene	92.9		60-123	%REC	1	08/20/2009 19:50	45613

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: 10-Sep-09

Client: AECOM Technical Services, Inc.

Client Sample ID: INF 81709

Lab ID: H1579-02

Project: NOW Corp. Site

Collection Date: 08/17/09 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		1.0	µg/L	2	08/28/2009 22:35	45704
Chloroethane	ND		1.0	µg/L	2	08/28/2009 22:35	45704
1,1-Dichloroethene	4.7		1.0	µg/L	2	08/28/2009 22:35	45704
trans-1,2-Dichloroethene	ND		1.0	µg/L	2	08/28/2009 22:35	45704
Methyl tert-butyl ether	ND		1.0	µg/L	2	08/28/2009 22:35	45704
1,1-Dichloroethane	14		1.0	µg/L	2	08/28/2009 22:35	45704
cis-1,2-Dichloroethene	1.6		1.0	µg/L	2	08/28/2009 22:35	45704
1,1,1-Trichloroethane	28		1.0	µg/L	2	08/28/2009 22:35	45704
1,2-Dichloroethane	ND		1.0	µg/L	2	08/28/2009 22:35	45704
Benzene	ND		1.0	µg/L	2	08/28/2009 22:35	45704
Trichloroethene	28		1.0	µg/L	2	08/28/2009 22:35	45704
Toluene	ND		1.0	µg/L	2	08/28/2009 22:35	45704
1,1,2-Trichloroethane	ND		1.0	µg/L	2	08/28/2009 22:35	45704
Tetrachloroethene	ND		1.0	µg/L	2	08/28/2009 22:35	45704
Chlorobenzene	ND		1.0	µg/L	2	08/28/2009 22:35	45704
Ethylbenzene	ND		1.0	µg/L	2	08/28/2009 22:35	45704
m,p-Xylene	ND		1.0	µg/L	2	08/28/2009 22:35	45704
o-Xylene	ND		1.0	µg/L	2	08/28/2009 22:35	45704
Surrogate: Dibromofluoromethane	98.6		88-124	%REC	2	08/28/2009 22:35	45704
Surrogate: 1,2-Dichloroethane-d4	99.2		79-115	%REC	2	08/28/2009 22:35	45704
Surrogate: Toluene-d8	98.1		80-114	%REC	2	08/28/2009 22:35	45704
Surrogate: Bromofluorobenzene	102		60-123	%REC	2	08/28/2009 22:35	45704

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: 10-Sep-09

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-1

Lab ID: H1579-03

Project: NOW Corp. Site

Collection Date: 08/17/09 11:15

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	08/28/2009 23:04	45836
Chloroethane	ND		2.5	µg/L	5	08/28/2009 23:04	45836
1,1-Dichloroethene	51		2.5	µg/L	5	08/28/2009 23:04	45836
trans-1,2-Dichloroethene	ND		2.5	µg/L	5	08/28/2009 23:04	45836
Methyl tert-butyl ether	ND		2.5	µg/L	5	08/28/2009 23:04	45836
1,1-Dichloroethane	77		2.5	µg/L	5	08/28/2009 23:04	45836
cis-1,2-Dichloroethene	9.5		2.5	µg/L	5	08/28/2009 23:04	45836
1,1,1-Trichloroethane	7.1		2.5	µg/L	5	08/28/2009 23:04	45836
1,2-Dichloroethane	ND		2.5	µg/L	5	08/28/2009 23:04	45836
Benzene	ND		2.5	µg/L	5	08/28/2009 23:04	45836
Trichloroethene	89		2.5	µg/L	5	08/28/2009 23:04	45836
Toluene	ND		2.5	µg/L	5	08/28/2009 23:04	45836
1,1,2-Trichloroethane	ND		2.5	µg/L	5	08/28/2009 23:04	45836
Tetrachloroethene	ND		2.5	µg/L	5	08/28/2009 23:04	45836
Chlorobenzene	ND		2.5	µg/L	5	08/28/2009 23:04	45836
Ethylbenzene	ND		2.5	µg/L	5	08/28/2009 23:04	45836
m,p-Xylene	ND		2.5	µg/L	5	08/28/2009 23:04	45836
o-Xylene	ND		2.5	µg/L	5	08/28/2009 23:04	45836
Surrogate: Dibromofluoromethane	95.8		88-124	%REC	5	08/28/2009 23:04	45836
Surrogate: 1,2-Dichloroethane-d4	101		79-115	%REC	5	08/28/2009 23:04	45836
Surrogate: Toluene-d8	97.8		80-114	%REC	5	08/28/2009 23:04	45836
Surrogate: Bromofluorobenzene	98.2		60-123	%REC	5	08/28/2009 23:04	45836

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: 10-Sep-09

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-2A

Lab ID: H1579-04

Project: NOW Corp. Site

Collection Date: 08/17/09 11:30

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		13	µg/L	25	08/28/2009 23:33	45836
Chloroethane	ND		13	µg/L	25	08/28/2009 23:33	45836
1,1-Dichloroethene	66		13	µg/L	25	08/28/2009 23:33	45836
trans-1,2-Dichloroethene	ND		13	µg/L	25	08/28/2009 23:33	45836
Methyl tert-butyl ether	ND		13	µg/L	25	08/28/2009 23:33	45836
1,1-Dichloroethane	210		13	µg/L	25	08/28/2009 23:33	45836
cis-1,2-Dichloroethene	27		13	µg/L	25	08/28/2009 23:33	45836
1,1,1-Trichloroethane	550		13	µg/L	25	08/28/2009 23:33	45836
1,2-Dichloroethane	ND		13	µg/L	25	08/28/2009 23:33	45836
Benzene	ND		13	µg/L	25	08/28/2009 23:33	45836
Trichloroethene	480		13	µg/L	25	08/28/2009 23:33	45836
Toluene	ND		13	µg/L	25	08/28/2009 23:33	45836
1,1,2-Trichloroethane	ND		13	µg/L	25	08/28/2009 23:33	45836
Tetrachloroethene	ND		13	µg/L	25	08/28/2009 23:33	45836
Chlorobenzene	ND		13	µg/L	25	08/28/2009 23:33	45836
Ethylbenzene	ND		13	µg/L	25	08/28/2009 23:33	45836
m,p-Xylene	ND		13	µg/L	25	08/28/2009 23:33	45836
o-Xylene	ND		13	µg/L	25	08/28/2009 23:33	45836
Surrogate: Dibromofluoromethane	101		88-124	%REC	25	08/28/2009 23:33	45836
Surrogate: 1,2-Dichloroethane-d4	98.8		79-115	%REC	25	08/28/2009 23:33	45836
Surrogate: Toluene-d8	101		80-114	%REC	25	08/28/2009 23:33	45836
Surrogate: Bromofluorobenzene	99.7		60-123	%REC	25	08/28/2009 23:33	45836

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:** 10-Sep-09**Client:** AECOM Technical Services, Inc.**Client Sample ID:** TW-3**Lab ID:** H1579-05**Project:** NOW Corp. Site**Collection Date:** 08/17/09 11:35

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	08/29/2009 0:02	45836
Chloroethane	ND		0.50	µg/L	1	08/29/2009 0:02	45836
1,1-Dichloroethene	5.5		0.50	µg/L	1	08/29/2009 0:02	45836
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	08/29/2009 0:02	45836
Methyl tert-butyl ether	ND		0.50	µg/L	1	08/29/2009 0:02	45836
1,1-Dichloroethane	14		0.50	µg/L	1	08/29/2009 0:02	45836
cis-1,2-Dichloroethene	0.84		0.50	µg/L	1	08/29/2009 0:02	45836
1,1,1-Trichloroethane	2.7		0.50	µg/L	1	08/29/2009 0:02	45836
1,2-Dichloroethane	ND		0.50	µg/L	1	08/29/2009 0:02	45836
Benzene	ND		0.50	µg/L	1	08/29/2009 0:02	45836
Trichloroethene	14		0.50	µg/L	1	08/29/2009 0:02	45836
Toluene	ND		0.50	µg/L	1	08/29/2009 0:02	45836
1,1,2-Trichloroethane	ND		0.50	µg/L	1	08/29/2009 0:02	45836
Tetrachloroethene	ND		0.50	µg/L	1	08/29/2009 0:02	45836
Chlorobenzene	ND		0.50	µg/L	1	08/29/2009 0:02	45836
Ethylbenzene	ND		0.50	µg/L	1	08/29/2009 0:02	45836
m,p-Xylene	ND		0.50	µg/L	1	08/29/2009 0:02	45836
o-Xylene	ND		0.50	µg/L	1	08/29/2009 0:02	45836
Surrogate: Dibromofluoromethane	100		88-124	%REC	1	08/29/2009 0:02	45836
Surrogate: 1,2-Dichloroethane-d4	103		79-115	%REC	1	08/29/2009 0:02	45836
Surrogate: Toluene-d8	96.2		80-114	%REC	1	08/29/2009 0:02	45836
Surrogate: Bromofluorobenzene	98.5		60-123	%REC	1	08/29/2009 0:02	45836

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

0008

Mitkem Laboratories

Date: 10-Sep-09

Client: AECOM Technical Services, Inc.

Client Sample ID: TRIP BLANKS

Lab ID: H1579-06

Project: NOW Corp. Site

Collection Date: 08/17/09 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	08/29/2009 0:31	45836
Chloroethane	ND		0.50	µg/L	1	08/29/2009 0:31	45836
1,1-Dichloroethene	ND		0.50	µg/L	1	08/29/2009 0:31	45836
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	08/29/2009 0:31	45836
Methyl tert-butyl ether	ND		0.50	µg/L	1	08/29/2009 0:31	45836
1,1-Dichloroethane	ND		0.50	µg/L	1	08/29/2009 0:31	45836
cis-1,2-Dichloroethene	ND		0.50	µg/L	1	08/29/2009 0:31	45836
1,1,1-Trichloroethane	ND		0.50	µg/L	1	08/29/2009 0:31	45836
1,2-Dichloroethane	ND		0.50	µg/L	1	08/29/2009 0:31	45836
Benzene	ND		0.50	µg/L	1	08/29/2009 0:31	45836
Trichloroethene	ND		0.50	µg/L	1	08/29/2009 0:31	45836
Toluene	ND		0.50	µg/L	1	08/29/2009 0:31	45836
1,1,2-Trichloroethane	ND		0.50	µg/L	1	08/29/2009 0:31	45836
Tetrachloroethene	ND		0.50	µg/L	1	08/29/2009 0:31	45836
Chlorobenzene	ND		0.50	µg/L	1	08/29/2009 0:31	45836
Ethylbenzene	ND		0.50	µg/L	1	08/29/2009 0:31	45836
m,p-Xylene	ND		0.50	µg/L	1	08/29/2009 0:31	45836
o-Xylene	ND		0.50	µg/L	1	08/29/2009 0:31	45836
Surrogate: Dibromofluoromethane	99.8		88-124	%REC	1	08/29/2009 0:31	45836
Surrogate: 1,2-Dichloroethane-d4	102		79-115	%REC	1	08/29/2009 0:31	45836
Surrogate: Toluene-d8	97.6		80-114	%REC	1	08/29/2009 0:31	45836
Surrogate: Bromofluorobenzene	102		60-123	%REC	1	08/29/2009 0:31	45836

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: H1579

SW8260_25_W

Project: NOW Corp. Site

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

Sample ID: MB-45613	SampType: MBLK	TestCode: SW8260_25_W	Prep Date: 08/20/2009	Run ID: V6_090820A						
Client ID: MB-45613	Batch ID: 45613	Units: µg/L	Analysis Date: 08/20/2009	SeqNo: 1094852						
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	10.08		10.00	0	101	88	124	0		
Surrogate: 1,2-Dichloroethane-d4	10.66		10.00	0	107	79	115	0		
Surrogate: Toluene-d8	9.697		10.00	0	97.0	80	114	0		
Surrogate: Bromofluorobenzene	9.564		10.00	0	95.6	60	123	0		

0010

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: H1579

Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

SW8260_25_W

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

Sample ID: MB-45836	SampType: MBLK	TestCode: SW8260_25_W	Prep Date: 08/28/2009	Run ID: V5_090828C				
Client ID: MB-45836	Batch ID: 45836	Units: µg/L	Analysis Date: 08/28/2009	SeqNo: 1103414				
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	9.945	0.50	10.00	0	99.4	88	124	0
Surrogate: 1,2-Dichloroethane-d4	10.22	0.50	10.00	0	102	79	115	0
Surrogate: Toluene-d8	9.764	0.50	10.00	0	97.6	80	114	0
Surrogate: Bromofluorobenzene	10.01	0.50	10.00	0	100	60	123	0

0011

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.

ANALYTICAL QC SUMMARY REPORT

Work Order: H1579

SW8260_25_W

Project: NOW Corp. Site

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

Sample ID: LCS-45613	SampType: LCS	TestCode: SW8260_25_W	Prep Date: 08/20/2009	Run ID: V6_090820A							
Client ID: LCS-45613	Batch ID: 45613	Units: µg/L	Analysis Date: 08/20/2009	SeqNo: 1094853							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	8.195	0.50	10.00	0	81.9	77	120	0			
Chloroethane	8.198	0.50	10.00	0	82.0	75	135	0			
1,1-Dichloroethene	8.666	0.50	10.00	0	86.7	81	125	0			
trans-1,2-Dichloroethene	8.595	0.50	10.00	0	85.9	60	137	0			
Methyl tert-butyl ether	9.784	0.50	10.00	0	97.8	61	134	0			
1,1-Dichloroethane	8.574	0.50	10.00	0	85.7	82	120	0			
cis-1,2-Dichloroethene	8.649	0.50	10.00	0	86.5	84	116	0			
1,1,1-Trichloroethane	8.303	0.50	10.00	0	83.0	80	124	0			
1,2-Dichloroethane	9.290	0.50	10.00	0	92.9	86	117	0			
Benzene	8.473	0.50	10.00	0	84.7	81	121	0			
Trichloroethene	8.421	0.50	10.00	0	84.2	74	123	0			S
Toluene	8.376	0.50	10.00	0	83.8	88	117	0			
1,1,2-Trichloroethane	9.872	0.50	10.00	0	98.7	83	121	0			
Tetrachloroethene	8.806	0.50	10.00	0	88.1	74	115	0			
Chlorobenzene	8.925	0.50	10.00	0	89.2	83	112	0			
Ethylbenzene	8.717	0.50	10.00	0	87.2	87	110	0			
m,p-Xylene	17.43	0.50	20.00	0	87.2	87	114	0			
o-Xylene	8.867	0.50	10.00	0	88.7	84	114	0			
Surrogate: Dibromofluoromethane	9.944	0.50	10.00	0	99.4	88	124	0			
Surrogate: 1,2-Dichloroethane-d4	10.55	0.50	10.00	0	106	79	115	0			
Surrogate: Toluene-d8	9.936	0.50	10.00	0	99.4	80	114	0			
Surrogate: Bromofluorobenzene	10.12	0.50	10.00	0	101	60	123	0			

0012

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

CLIENT: AECOM Technical Services, Inc.

ANALYTICAL QC SUMMARY REPORT

Work Order: H1579

SW8260_25_W

Project: NOW Corp. Site

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

Sample ID: LCSD-45613	SampType: LCSD	TestCode: SW8260_25_W	Prep Date: 08/20/2009	Run ID: V6_090820A							
Client ID: LCSD-45613	Batch ID: 45613	Units: µg/L	Analysis Date: 08/20/2009	SeqNo: 1094854							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.106	0.50	10.00	0	91.1	77	120	8.195	10.5	40	
Chloroethane	9.228	0.50	10.00	0	92.3	75	135	8.198	11.8	40	
1,1-Dichloroethene	9.833	0.50	10.00	0	98.3	81	125	8.666	12.6	40	
trans-1,2-Dichloroethene	9.751	0.50	10.00	0	97.5	60	137	8.595	12.6	40	
Methyl tert-butyl ether	11.26	0.50	10.00	0	113	61	134	9.784	14	40	
1,1-Dichloroethane	9.805	0.50	10.00	0	98.0	82	120	8.574	13.4	40	
cis-1,2-Dichloroethene	10.09	0.50	10.00	0	101	84	116	8.649	15.4	40	
1,1,1-Trichloroethane	9.567	0.50	10.00	0	95.7	80	124	8.303	14.2	40	
1,2-Dichloroethane	10.59	0.50	10.00	0	106	86	117	9.290	13.1	40	
Benzene	9.787	0.50	10.00	0	97.9	81	121	8.473	14.4	40	
Trichloroethene	9.725	0.50	10.00	0	97.3	74	123	8.421	14.4	40	
Toluene	9.569	0.50	10.00	0	95.7	88	117	8.376	13.3	40	
1,1,2-Trichloroethane	11.12	0.50	10.00	0	111	83	121	9.872	11.9	40	
Tetrachloroethene	9.821	0.50	10.00	0	98.2	74	115	8.806	10.9	40	
Chlorobenzene	9.966	0.50	10.00	0	99.7	83	112	8.925	11	40	
Ethylbenzene	9.794	0.50	10.00	0	97.9	87	110	8.717	11.6	40	
m,p-Xylene	19.59	0.50	20.00	0	97.9	87	114	17.43	11.6	40	
o-Xylene	9.951	0.50	10.00	0	99.5	84	114	8.867	11.5	40	
Surrogate: Dibromofluoromethane	10.26	0.50	10.00	0	103	88	124	0			
Surrogate: 1,2-Dichloroethane-d4	10.77	0.50	10.00	0	108	79	115	0			
Surrogate: Toluene-d8	9.932	0.50	10.00	0	99.3	80	114	0			
Surrogate: Bromofluorobenzene	10.09	0.50	10.00	0	101	60	123	0			

0013

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: H1579

Project: NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

SW8260_25_W

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

Sample ID: LCS-45836	SampType: LCS	TestCode: SW8260_25_W	Prep Date: 08/28/2009	Run ID: V5_090828C							
Client ID: LCS-45836	Batch ID: 45836	Units: µg/L	Analysis Date: 08/28/2009	SeqNo: 1103415							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.902	0.50	10.00	0	99.0	77	120	0			
Chloroethane	10.53	0.50	10.00	0	105	75	135	0			
1,1-Dichloroethene	9.794	0.50	10.00	0	97.9	81	125	0			
trans-1,2-Dichloroethene	9.183	0.50	10.00	0	91.8	60	137	0			
Methyl tert-butyl ether	9.429	0.50	10.00	0	94.3	61	134	0			
1,1-Dichloroethane	9.788	0.50	10.00	0	97.9	82	120	0			
cis-1,2-Dichloroethene	9.957	0.50	10.00	0	99.6	84	116	0			
1,1,1-Trichloroethane	10.29	0.50	10.00	0	103	80	124	0			
1,2-Dichloroethane	10.08	0.50	10.00	0	101	86	117	0			
Benzene	10.02	0.50	10.00	0	100	81	121	0			
Trichloroethene	10.24	0.50	10.00	0	102	74	123	0			
Toluene	10.02	0.50	10.00	0	100	88	117	0			
1,1,2-Trichloroethane	10.25	0.50	10.00	0	102	83	121	0			
Tetrachloroethene	9.899	0.50	10.00	0	99.0	74	115	0			
Chlorobenzene	10.11	0.50	10.00	0	101	83	112	0			
Ethylbenzene	9.893	0.50	10.00	0	98.9	87	110	0			
m,p-Xylene	20.69	0.50	20.00	0	103	87	114	0			
o-Xylene	10.11	0.50	10.00	0	101	84	114	0			
Surrogate: Dibromofluoromethane	10.13	0.50	10.00	0	101	88	124	0			
Surrogate: 1,2-Dichloroethane-d4	10.50	0.50	10.00	0	105	79	115	0			
Surrogate: Toluene-d8	10.08	0.50	10.00	0	101	80	114	0			
Surrogate: Bromofluorobenzene	9.991	0.50	10.00	0	99.9	60	123	0			

0014

CLIENT: AECOM Technical Services, Inc.

ANALYTICAL QC SUMMARY REPORT

Work Order: H1579

SW8260_25_W

Project: NOW Corp. Site

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

Sample ID: LCSD-45836	SampType: LCSD	TestCode: SW8260_25_W	Prep Date: 08/28/2009	Run ID: V5_090828C							
Client ID: LCSD-45836	Batch ID: 45836	Units: µg/L	Analysis Date: 08/28/2009	SeqNo: 1103416							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.306	0.50	10.00	0	93.1	77	120	9.902	6.21	40	
Chloroethane	10.01	0.50	10.00	0	100	75	135	10.53	5.09	40	
1,1-Dichloroethene	9.697	0.50	10.00	0	97.0	81	125	9.794	0.989	40	
trans-1,2-Dichloroethene	9.395	0.50	10.00	0	93.9	60	137	9.183	2.28	40	
Methyl tert-butyl ether	9.524	0.50	10.00	0	95.2	61	134	9.429	0.992	40	
1,1-Dichloroethane	9.739	0.50	10.00	0	97.4	82	120	9.788	0.505	40	
cis-1,2-Dichloroethene	9.751	0.50	10.00	0	97.5	84	116	9.957	2.08	40	
1,1,1-Trichloroethane	10.10	0.50	10.00	0	101	80	124	10.29	1.79	40	
1,2-Dichloroethane	10.17	0.50	10.00	0	102	86	117	10.08	0.847	40	
Benzene	9.900	0.50	10.00	0	99.0	81	121	10.02	1.25	40	
Trichloroethene	9.713	0.50	10.00	0	97.1	74	123	10.24	5.26	40	
Toluene	9.984	0.50	10.00	0	99.8	88	117	10.02	0.401	40	
1,1,2-Trichloroethane	9.731	0.50	10.00	0	97.3	83	121	10.25	5.18	40	
Tetrachloroethene	9.730	0.50	10.00	0	97.3	74	115	9.899	1.72	40	
Chlorobenzene	10.10	0.50	10.00	0	101	83	112	10.11	0.151	40	
Ethylbenzene	9.905	0.50	10.00	0	99.0	87	110	9.893	0.114	40	
m,p-Xylene	20.30	0.50	20.00	0	102	87	114	20.69	1.88	40	
o-Xylene	9.952	0.50	10.00	0	99.5	84	114	10.11	1.57	40	
Surrogate: Dibromofluoromethane	9.873	0.50	10.00	0	98.7	88	124	0			
Surrogate: 1,2-Dichloroethane-d4	10.31	0.50	10.00	0	103	79	115	0			
Surrogate: Toluene-d8	9.963	0.50	10.00	0	99.6	80	114	0			
Surrogate: Bromofluorobenzene	9.953	0.50	10.00	0	99.5	60	123	0			

0015

Qualifiers:

NID - 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

Mitkem Laboratories

Date: 20-Aug-09

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF 81709

Lab ID: H1579-01

Project: NOW Corp. Site

Collection Date: 08/17/09 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	08/20/2009 0:00	45533

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: 20-Aug-09

Client: AECOM Technical Services, Inc.

Client Sample ID: INF 81709

Lab ID: H1579-02

Project: NOW Corp. Site

Collection Date: 08/17/09 11:00

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	08/20/2009 0:00	45533

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: H1579

E1664

Project: NOW Corp. Site

EPA 1664 -- Oil & Grease, HEM

Sample ID: MB-45533	SampType: MBLK	TestCode: E1664	Prep Date: 8/18/2009	Run ID: MANUAL_090820A	
Client ID: MB-45533	Batch ID: 45533	Units: mg/L	Analysis Date: 8/20/2009	SeqNo: 1093901	
Analyte		Result PQL	SPK Ref Val	SPK value	RPD Ref Val %RPD RPDLimit Qual
Oil & Grease, Total Recoverable		ND 5.0			
Sample ID: LCS-45533	SampType: LCS	TestCode: E1664	Prep Date: 8/18/2009	Run ID: MANUAL_090820A	
Client ID: LCS-45533	Batch ID: 45533	Units: mg/L	Analysis Date: 8/20/2009	SeqNo: 1093899	
Analyte		Result PQL	SPK Ref Val	SPK value	RPD Ref Val %RPD RPDLimit Qual
Oil & Grease, Total Recoverable		32.30 5.0	0 80.8 78 114	0	0
Sample ID: LCSD-45533	SampType: LCSD	TestCode: E1664	Prep Date: 8/18/2009	Run ID: MANUAL_090820A	
Client ID: LCSD-45533	Batch ID: 45533	Units: mg/L	Analysis Date: 8/20/2009	SeqNo: 1093900	
Analyte		Result PQL	SPK Ref Val	SPK value	RPD Ref Val %RPD RPDLimit Qual
Oil & Grease, Total Recoverable		33.10 5.0	0 82.8 78 114	32.30 2.45	18

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: 02-Sep-09

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF 81709

Lab ID: H1579-01

Project: NOW Corp. Site

Collection Date: 08/17/09 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	08/24/2009 8:44	45580
Arsenic	ND		20	µg/L	1	08/24/2009 8:44	45580
Barium	65	J	200	µg/L	1	08/24/2009 8:44	45580
Chromium	0.76	J	20	µg/L	1	08/24/2009 8:44	45580
Copper	ND		25	µg/L	1	08/24/2009 13:59	45580
Iron	ND		200	µg/L	1	08/24/2009 8:44	45580
Manganese	71	B	50	µg/L	1	08/24/2009 8:44	45580
Nickel	2.2	J	50	µg/L	1	08/24/2009 8:44	45580
Zinc	15	BJ	50	µg/L	1	08/24/2009 8:44	45580
SW846 7470 -- Mercury by FIA							SW7470
Mercury	ND		0.20	µg/L	1	08/20/2009 10:36	45584

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:** 02-Sep-09**Client:** AECOM Technical Services, Inc.**Client Sample ID:** INF 81709**Lab ID:** H1579-02**Project:** NOW Corp. Site**Collection Date:** 08/17/09 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010 -- Metals by ICP							SW6010_W
Aluminum	ND		200	µg/L	1	08/24/2009 8:47	45580
Arsenic	ND		20	µg/L	1	08/24/2009 8:47	45580
Barium	66	J	200	µg/L	1	08/24/2009 8:47	45580
Chromium	0.66	J	20	µg/L	1	08/24/2009 8:47	45580
Copper	ND		25	µg/L	1	08/24/2009 14:02	45580
Iron	ND		200	µg/L	1	08/24/2009 8:47	45580
Manganese	120	B	50	µg/L	1	08/24/2009 8:47	45580
Nickel	2.5	J	50	µg/L	1	08/24/2009 8:47	45580
Zinc	11	BJ	50	µg/L	1	08/24/2009 8:47	45580
SW846 7470 -- Mercury by FIA							SW7470
Mercury	ND		0.20	µg/L	1	08/20/2009 10:38	45584

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: H1579

SW6010_W

Project: NOW Corp. Site

SW846 6010 -- Metals by ICP

Sample ID: MB-45580	SampType: MBLK	TestCode: SW6010_W	Prep Date: 8/19/2009	Run ID: OPTIMA3_090821B							
Client ID: MB-45580	Batch ID: 45580	Units: µg/L	Analysis Date: 8/21/2009	SeqNo: 1097710							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	21.87	200									J
Arsenic	ND	20									
Barium	ND	200									
Chromium	ND	20									
Copper	6.113	30									J
Iron	ND	200									
Manganese	17.50	50									J
Nickel	ND	50									
Zinc	31.72	50									J

Sample ID: LCS-45580	SampType: LCS	TestCode: SW6010_W	Prep Date: 8/19/2009	Run ID: OPTIMA3_090821B							
Client ID: LCS-45580	Batch ID: 45580	Units: µg/L	Analysis Date: 8/21/2009	SeqNo: 1097711							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9014	200	9100	0	99.1	80	120	0			B
Arsenic	465.4	20	455.0	0	102	80	120	0			
Barium	9247	200	9100	0	102	80	120	0			
Chromium	908.1	20	910.0	0	99.8	80	120	0			
Copper	1195	30	1130	0	106	80	120	0			B
Iron	4727	200	4550	0	104	80	120	0			
Manganese	2404	50	2270	0	106	80	120	0			B
Nickel	2328	50	2270	0	103	80	120	0			
Zinc	2395	50	2270	0	106	80	120	0			B

0021

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: H1579
Project: NOW Corp. Site

SW7470
SW846 7470 -- Mercury by FIA

Sample ID: MB-45584	SampType: MBLK	TestCode: SW7470	Prep Date: 8/19/2009	Run ID: FIMS1_090820B							
Client ID: MB-45584	Batch ID: 45584	Units: µg/L	Analysis Date: 8/20/2009	SeqNo: 1096058							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.20									

Sample ID: LCS-45584	SampType: LCS	TestCode: SW7470	Prep Date: 8/19/2009	Run ID: FIMS1_090820B							
Client ID: LCS-45584	Batch ID: 45584	Units: µg/L	Analysis Date: 8/20/2009	SeqNo: 1096059							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.218	0.20	4.550	0	92.7	80	120	0			

0022

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

Mitkem Laboratories

Date: 21-Aug-09

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF 81709

Lab ID: H1579-01

Project: NOW Corp. Site

Collection Date: 08/17/09 10:45

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	08/19/2009 16:52	45576
SM 2540D -- TOTAL SUSPENDED SOLIDS							SM2540_TSS
Total Suspended Solids	ND		10	mg/L	1	08/19/2009 16:45	45577
SW846 9012 -- Total Cyanide							SW9012_W
Cyanide	18		10	µg/L	1	08/20/2009 10:05	45573

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

0023

Mitkem Laboratories

Date: 21-Aug-09

Client: AECOM Technical Services, Inc.

Client Sample ID: INF 81709

Lab ID: H1579-02

Project: NOW Corp. Site

Collection Date: 08/17/09 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS							SM2540_TDS
Total Dissolved Solids	250		10	mg/L	1	08/19/2009 16:53	45576
SM 2540D -- TOTAL SUSPENDED SOLIDS							SM2540_TSS
Total Suspended Solids	ND		10	mg/L	1	08/19/2009 16:46	45577
SW846 9012 -- Total Cyanide							SW9012_W
Cyanide	ND		10	µg/L	1	08/20/2009 10:08	45573

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

CLIENT: AECOM Technical Services, Inc.
Work Order: H1579
Project: NOW Corp. Site

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

Sample ID: MB-45576	SampType: MBLK	TestCode: SM2540_TDS	Prep Date: 8/19/2009	Run ID: MANUAL_090819B
Client ID: MB-45576	Batch ID: 45576	Units: mg/L	Analysis Date: 8/19/2009	SeqNo: 1094873
Analyte		Result PQL	SPK Ref Val	SPK value
		ND		
Total Dissolved Solids		10		
Sample ID: LCS-45576	SampType: LCS	TestCode: SM2540_TDS	Prep Date: 8/19/2009	Run ID: MANUAL_090819B
Client ID: LCS-45576	Batch ID: 45576	Units: mg/L	Analysis Date: 8/19/2009	SeqNo: 1094874
Analyte		Result PQL	SPK Ref Val	SPK value
		537.0	0	522.0
Total Dissolved Solids		10	103	80
				0

0025

CLIENT:

Work Order:

Project:

AECOM Technical Services, Inc.

HI1579

NOW Corp. Site

ANALYTICAL QC SUMMARY REPORT

SM2540_TSS

SM 2540D -- TOTAL SUSPENDED SOLIDS

Sample ID: MB-45577	SampType: MBLK	TestCode: SM2540_TSS	Prep Date: 8/19/2009	Run ID: MANUAL_090819A
Client ID: MB-45577	Batch ID: 45577	Units: mg/L	Analysis Date: 8/19/2009	SeqNo: 1093121
Analyte	Result	PQL	SPK value	SPK Ref Val
Total Suspended Solids	ND	10	%REC LowLimit HighLimit	RPD Ref Val
				%RPD RPDLimit
				Qual

Sample ID: LCS-45577	SampType: LCS	TestCode: SM2540_TSS	Prep Date: 8/19/2009	Run ID: MANUAL_090819A
Client ID: LCS-45577	Batch ID: 45577	Units: mg/L	Analysis Date: 8/19/2009	SeqNo: 1093122
Analyte	Result	PQL	SPK value	SPK Ref Val
Total Suspended Solids	60.00	10	66.60	90.1
			0	80
				120
				0

0026

ANALYTICAL QC SUMMARY REPORT

CLIENT: AECOM Technical Services, Inc.
 Work Order: H1579
 Project: NOW Corp. Site

SW9012_W
 SW846 9012 -- Total Cyanide

Sample ID: MB-45573	SampType: MBLK	TestCode: SW9012_W	Prep Date: 8/19/2009	Run ID: LACHAT1_090820A							
Client ID: MB-45573	Batch ID: 45573	Units: µg/L	Analysis Date: 8/20/2009	SeqNo: 1094733							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	ND	20									

Sample ID: LCS-45573	SampType: LCS	TestCode: SW9012_W	Prep Date: 8/19/2009	Run ID: LACHAT1_090820A							
Client ID: LCS-45573	Batch ID: 45573	Units: µg/L	Analysis Date: 8/20/2009	SeqNo: 1094734							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	94.20	20	100.0	0	94.2	80	120	0			

0027

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 ID: EARTH_NY
Project: NOW Corp. Site
Location:
Comments: N/A

Case:
SDG:
PO: 94017.02

HC Due: 09/03/09 Report Level: LEVEL 2
Fax Due: EDD:

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	HS	HT	MS	SEL	Storage
H1579-01A	EFF 81709	08/17/2009 10:45	08/18/2009	Aqueous	SW8260_25_W	use for VOCs,			<input type="checkbox"/>	<input checked="" type="checkbox"/>	VOA
H1579-01B	EFF 81709	08/17/2009 10:45	08/18/2009	Aqueous	SW6010_W	See SEL list			<input type="checkbox"/>	<input checked="" type="checkbox"/>	M4
					SW7470	See SEL list			<input type="checkbox"/>	<input type="checkbox"/>	M4
H1579-01C	EFF 81709	08/17/2009 10:45	08/18/2009	Aqueous	SM2540_TDS				<input type="checkbox"/>	<input type="checkbox"/>	D2
					SM2540_TSS				<input type="checkbox"/>	<input type="checkbox"/>	D2
H1579-01D	EFF 81709	08/17/2009 10:45	08/18/2009	Aqueous	E1664				<input type="checkbox"/>	<input type="checkbox"/>	D2
H1579-01E	EFF 81709	08/17/2009 10:45	08/18/2009	Aqueous	SW9012_W				<input type="checkbox"/>	<input checked="" type="checkbox"/>	D2
H1579-02A	INF 81709	08/17/2009 11:00	08/18/2009	Aqueous	SW8260_25_W	use for VOCs,			<input type="checkbox"/>	<input checked="" type="checkbox"/>	VOA
H1579-02B	INF 81709	08/17/2009 11:00	08/18/2009	Aqueous	SW6010_W	See SEL list			<input type="checkbox"/>	<input checked="" type="checkbox"/>	M4
					SW7470	See SEL list			<input type="checkbox"/>	<input type="checkbox"/>	M4
H1579-02C	INF 81709	08/17/2009 11:00	08/18/2009	Aqueous	SM2540_TDS				<input type="checkbox"/>	<input type="checkbox"/>	D2
					SM2540_TSS				<input type="checkbox"/>	<input type="checkbox"/>	D2
H1579-02D	INF 81709	08/17/2009 11:00	08/18/2009	Aqueous	E1664				<input type="checkbox"/>	<input type="checkbox"/>	D2
H1579-02E	INF 81709	08/17/2009 11:00	08/18/2009	Aqueous	SW9012_W				<input type="checkbox"/>	<input checked="" type="checkbox"/>	D2
H1579-03A	TW-1	08/17/2009 11:15	08/18/2009	Aqueous	SW8260_25_W	use for VOCs,			<input type="checkbox"/>	<input checked="" type="checkbox"/>	VOA
H1579-04A	TW-2A	08/17/2009 11:30	08/18/2009	Aqueous	SW8260_25_W	use for VOCs,			<input type="checkbox"/>	<input checked="" type="checkbox"/>	VOA
H1579-05A	TW-3	08/17/2009 11:35	08/18/2009	Aqueous	SW8260_25_W	use for VOCs,			<input type="checkbox"/>	<input checked="" type="checkbox"/>	VOA

HS = Sample logged in but all tests have been placed on hold
HT = Sample/Test logged in but test has been placed on hold

Mitkem Laboratories

18/Aug/09 10:21

WorkOrder: H1579

Client ID: EARTH_NY

Project: NOW Corp. Site

Location:

Comments: N/A

Case:

SDG:

PO: 94017.02

HC Due: 09/03/09

Fax Due:

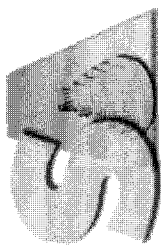
Report Level: LEVEL 2

EDD:

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	HS	HT	MS	SEL	Storage
H1579-06A	TRIP BLANKS	08/17/2009 0:00	08/18/2009	Aqueous	SW8260_25_W	use for VOCs,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	VOA

0029

HS = Sample logged in but all tests have been placed on hold
HT = Sample/Test logged in but test has been placed on hold



SPECTRUM ANALYTICAL, INC.
Featuring
HARBOR TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

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: Steve Choiniere
AECOM Environmental
40 British American Blvd
Latham, NY 12110
 Project Mgr.: Steve Choiniere
 Telephone #: 518-951-2200

Invoice To: Same

 P.O. No.: _____ RQN: _____

Project No.: 94017.02
 Site Name: Now Corp
 Location: Stattsburg State: NY
 Sampler(s): RKV

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
 8=NaHSO₄ 9=None 10=_____ 11=_____

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

QA/QC Reporting Notes:
 (check as needed)

Containers:

of VOA Vials # of Amber Glass # of Clear Glass # of Plastic

Analyses:

Metals * 8260
 TDS/TSS
 O+G
 Cyanide

- ☐ Provide MA DEP MCP CAM Report
☐ Provide CT DPH RCP Report
 QA/QC Reporting Level
☐ Standard ☐ No QC
☐ Other _____

State specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses:	QA/QC Reporting Notes:
H1579-01	EPA 81709	8/17/09	10:45	G	GW	2	2		3	X	* AL, AS, BA
02	INF 81709		11:00							X	CR, CU, FE, MN,
03	TW-1		11:15							X	HG, ZN, N
04	TW-2A		11:30								
05	TW-3		11:35								
H1579-06	Trip Blanks										

EDD Format _____
☐ E-mail to _____

Relinquished by: [Signature]

Received by: [Signature]

Date: 8/17/09 Time: 1500

Date: 8/18/09 Time: 9:05

Condition upon receipt: ☐ Iced ☐ Ambient 5.9°C

Page 1 of 1

2091

Last Page of Data Report