



**Operation, Maintenance and Monitoring Report  
June 2010**

**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

July 2010



July 23, 2010

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

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

Dear Mr. Hoffman:

This monthly summary report describes the operation, monitoring and maintenance (OM&M) of the remedial system at the NOW Corporation site in the Town of Clinton, New York, for a 29-day period (**May 27 – June 22, 2009**).

With the exceptions noted below, if any, the P&T system was online and operational throughout the reporting period. Approximately 343,000 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 11,800 gallons per day (gpd), substantially less than the 27,000 gpd in the prior reporting period.

As of the last day of the reporting period, a total of 79,250,000 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 June 22, 2010. **Effluent limitations were not exceeded for any analytes.** A copy of the analytical laboratory report is attached. Table 2 summarizes selected operational data recorded on the sampling date.

AECOM made two site visits during the period to conduct the required system inspection, perform scheduled and/or unscheduled maintenance, and to collect water samples. The May 27 groundwater monitoring event was described in the previous report. Details for the current period follow:

June 17 – Techs onsite to try to identify the source of oil and grease detected in the effluent sample collected on May 24. Observed oily sheen on water surface in the third settling tank, but not in the middle settling tank. Removed effluent pump from third tank and installed clean spare. Deployed absorbent socks in third tank to clean up floating product. Delivered pump to Pump Service & Supply (Troy) for diagnosis.

June 22 – Monthly O&M service visit. In addition to routine monthly sampling, collected an effluent sample from the middle settling tank for oil and grease analysis. The substances were not detected in either effluent sample collected on this date, as shown in the attached lab report.

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: June 22, 2010**  
**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		11,824				Monitor	gpd
pH	6.9	7.0				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	<b>350</b>	<b>310</b>	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	<b>87 J</b>	<b>87 J</b>	NA	NA	NA	2000	ug/L
Chromium	<b>0.96 J</b>	<20	NA	NA	NA	100	ug/L
Copper	<b>4.9 BJ</b>	<b>4.8 BJ</b>	NA	NA	NA	24	ug/L
Iron	<b>430</b>	<b>84 J</b>	NA	NA	NA	600	ug/L
Mercury	<0.20	<0.20	NA	NA	NA	0.8	ug/L
Manganese	<b>470</b>	<b>55</b>	NA	NA	NA	600	ug/L
Nickel	<b>2.5 J</b>	<b>1.9 J</b>	NA	NA	NA	200	ug/L
Zinc	<b>15 BJ</b>	<b>14 BJ</b>	NA	NA	NA	150	ug/L
1,1,1-Trichloroethane	<b>600</b>	<0.50	<b>1.5 J</b>	<b>950</b>	<b>13.0</b>	5	ug/L
1,1,2-Trichloroethane	<8	<0.50	<2.5	<20	<0.50	1.2	ug/L
1,1-Dichloroethane	<b>170</b>	<0.50	<b>47</b>	<b>270</b>	<b>19</b>	5	ug/L
1,1-Dichloroethene	<b>16</b>	<0.50	<b>11</b>	<b>17 J</b>	<b>1.4</b>	0.5	ug/L
1,2-Dichloroethane	<8	<0.50	<2.5	<20	<0.50	1.6	ug/L
Benzene	<8	<0.50	<2.5	<20	<0.50	0.8	ug/L
Chlorobenzene	<8	<0.50	<2.5	<20	<0.50	5	ug/L
Chloroethane	<8	<0.50	<2.5	<20	<0.50	5	ug/L
cis -1,2-Dichloroethene	<b>7.5 J</b>	<0.50	<b>2.2 J</b>	<b>15 J</b>	<b>0.22 J</b>	5	ug/L
Ethylbenzene	<8	<0.50	<2.5	<20	<0.50	5	ug/L
Methyl tert-butyl ether	<8	<0.50	<2.5	<20	<0.50	5	ug/L
o-Xylene	<8	<0.50	<2.5	<20	<0.50	5	ug/L
p&m-Xylene	<8	<0.50	<2.5	<20	<0.50	10	ug/L
Tetrachloroethene	<8	<0.50	<2.5	<20	<0.50	1.4	ug/L
Toluene	<8	<0.50	<2.5	<20	<0.50	5	ug/L
trans-1,2-Dichloroethene	<8	<0.50	<2.5	<20	<0.50	5	ug/L
Trichloroethene	<b>280</b>	<0.50	<b>40</b>	<b>480</b>	<b>7</b>	5	ug/L
Vinyl Chloride	<8	<0.50	<2.5	<20	<0.50	0.6	ug/L

*Notes:*

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

**Table 2**  
**Summary of June 2010 O&M Data**

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

<b>Instrumentation/Readings:</b>	<b>6/22/10</b>	<b>Units</b>
<b><i>TW-1</i></b>		
Pumping Rate	3	GPM
Water Level Above Transducer	17.56	feet
Flow Meter Reading	5,632,900	gallons
Pump Pressure	75	psi
<b><i>TW-2A</i></b>		
Pumping Rate	14	GPM
Water Level Above Transducer	12.21	feet
Flow Meter Reading	17,541,700	gallons
Pump Pressure	24	psi
<b><i>TW-3</i></b>		
Pumping Rate	5	GPM
Water Level Above Transducer	10.32	feet
Flow Meter Reading	8,114,200	gallons
Pump Pressure	52	psi
<b><i>Air Stripper</i></b>		
Stripper Blower Pressure	20	inches H <sub>2</sub> O
Air Temperature in Stripper	52	°F
Pressure Gauge - Left Leg	0.09	inches H <sub>2</sub> O
Pressure Gauge - Right Leg	0.04	inches H <sub>2</sub> O
<b><i>Effluent Flow</i></b>		
Effluent Flow this period (calculated)	342,900	gallons
Total Effluent Flow (calculated)	79,250,000	gallons

Report Date:  
14-Jul-10 11:28



- Final Report
- Re-Issued Report
- Revised Report

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY  
**Laboratory Report**

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

Work Order: J1289  
Project: NOW Corp. Site  
Project #:

Attn: Stephen Choiniere

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
J1289-01	EFF-062210	Aqueous	22-Jun-10 12:20	23-Jun-10 09:10
J1289-02	INF-062210	Aqueous	22-Jun-10 12:30	23-Jun-10 09:10
J1289-03	MID TANK	Aqueous	22-Jun-10 12:35	23-Jun-10 09:10
J1289-04	TW-1	Aqueous	22-Jun-10 12:40	23-Jun-10 09:10
J1289-05	TW-2A	Aqueous	22-Jun-10 12:45	23-Jun-10 09:10
J1289-06	TW-3	Aqueous	22-Jun-10 12:50	23-Jun-10 09:10
J1289-07	TRIP BLANK	Aqueous	22-Jun-10 00:00	23-Jun-10 09:10

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

All applicable NELAC or USEPA CLP requirements have been met.

Mitkem Laboratories is accredited under the National Environmental Laboratory Approval Program (NELAP) and is certified by several States, as well as USEPA and US Department of Defense. The current list of our laboratory approvals and certifications is available on the Certifications page our web site at [www.mitkem.com](http://www.mitkem.com).

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

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LA100301
Texas	T104704422-08-TX
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-05-030



Authorized by:

Yihai Ding  
Laboratory Director

Technical Reviewer's Initials:

Report of Laboratory Analyses for AECOM Technical Services

Client Project: NOW Corp. 94017.02, 06/10

Mitkem Work Order ID: J1289

July 14, 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, 06/10**

**Lab Work Order: J1289**

**Date samples received: 06/23/10**

### **Project Narrative**

This data report includes the analysis results for seven (7) aqueous samples that were received from AECOM Technical Services on June 23, 2010. 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 sample were within the QC limits. The following samples were analyzed at dilution: INF-062210 (16x), TW-1 (5x) and TW-2A (40x).

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. Duplicate analysis was performed on sample INF-062210 for total suspended solids with percent RPD within the QC limits. Copper and zinc were detected below the reporting limit but above the method detection limit in method blank MB-52676. 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.



Agnes Huntley  
CLP Project Manager



**Mitkem Laboratories**

Date: 14-Jul-10

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF-062210

Project: NOW Corp. Site

Lab ID: J1289-01

Collection Date: 06/22/10 12:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 8260C -- VOC by GC-MS (25 mL Purge)</b>							<b>SW8260_25_W</b>
Vinyl chloride	ND		0.50	µg/L	1	07/06/2010 6:42	52788
Chloroethane	ND		0.50	µg/L	1	07/06/2010 6:42	52788
1,1-Dichloroethene	ND		0.50	µg/L	1	07/06/2010 6:42	52788
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	07/06/2010 6:42	52788
Methyl tert-butyl ether	ND		0.50	µg/L	1	07/06/2010 6:42	52788
1,1-Dichloroethane	ND		0.50	µg/L	1	07/06/2010 6:42	52788
cis-1,2-Dichloroethene	ND		0.50	µg/L	1	07/06/2010 6:42	52788
1,1,1-Trichloroethane	ND		0.50	µg/L	1	07/06/2010 6:42	52788
1,2-Dichloroethane	ND		0.50	µg/L	1	07/06/2010 6:42	52788
Benzene	ND		0.50	µg/L	1	07/06/2010 6:42	52788
Trichloroethene	ND		0.50	µg/L	1	07/06/2010 6:42	52788
Toluene	ND		0.50	µg/L	1	07/06/2010 6:42	52788
1,1,2-Trichloroethane	ND		0.50	µg/L	1	07/06/2010 6:42	52788
Tetrachloroethene	ND		0.50	µg/L	1	07/06/2010 6:42	52788
Chlorobenzene	ND		0.50	µg/L	1	07/06/2010 6:42	52788
Ethylbenzene	ND		0.50	µg/L	1	07/06/2010 6:42	52788
m,p-Xylene	ND		0.50	µg/L	1	07/06/2010 6:42	52788
o-Xylene	ND		0.50	µg/L	1	07/06/2010 6:42	52788
Surrogate: Dibromofluoromethane	97.9		88-124	%REC	1	07/06/2010 6:42	52788
Surrogate: 1,2-Dichloroethane-d4	88.8		79-115	%REC	1	07/06/2010 6:42	52788
Surrogate: Toluene-d8	101		80-114	%REC	1	07/06/2010 6:42	52788
Surrogate: Bromofluorobenzene	110		60-123	%REC	1	07/06/2010 6:42	52788

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Mitkem Laboratories**

Date: 14-Jul-10

Client: AECOM Technical Services, Inc.

Client Sample ID: INF-062210

Lab ID: J1289-02

Project: NOW Corp. Site

Collection Date: 06/22/10 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 8260C -- VOC by GC-MS (25 mL Purge)</b>							<b>SW8260_25_W</b>
Vinyl chloride	ND		8.0	µg/L		16 07/06/2010 7:10	52788
Chloroethane	ND		8.0	µg/L		16 07/06/2010 7:10	52788
1,1-Dichloroethene	16		8.0	µg/L		16 07/06/2010 7:10	52788
trans-1,2-Dichloroethene	ND		8.0	µg/L		16 07/06/2010 7:10	52788
Methyl tert-butyl ether	ND		8.0	µg/L		16 07/06/2010 7:10	52788
1,1-Dichloroethane	170		8.0	µg/L		16 07/06/2010 7:10	52788
cis-1,2-Dichloroethene	7.5	J	8.0	µg/L		16 07/06/2010 7:10	52788
1,1,1-Trichloroethane	600		8.0	µg/L		16 07/06/2010 7:10	52788
1,2-Dichloroethane	ND		8.0	µg/L		16 07/06/2010 7:10	52788
Benzene	ND		8.0	µg/L		16 07/06/2010 7:10	52788
Trichloroethene	280		8.0	µg/L		16 07/06/2010 7:10	52788
Toluene	ND		8.0	µg/L		16 07/06/2010 7:10	52788
1,1,2-Trichloroethane	ND		8.0	µg/L		16 07/06/2010 7:10	52788
Tetrachloroethene	ND		8.0	µg/L		16 07/06/2010 7:10	52788
Chlorobenzene	ND		8.0	µg/L		16 07/06/2010 7:10	52788
Ethylbenzene	ND		8.0	µg/L		16 07/06/2010 7:10	52788
m,p-Xylene	ND		8.0	µg/L		16 07/06/2010 7:10	52788
o-Xylene	ND		8.0	µg/L		16 07/06/2010 7:10	52788
Surrogate: Dibromofluoromethane	99.1		88-124	%REC		16 07/06/2010 7:10	52788
Surrogate: 1,2-Dichloroethane-d4	91.1		79-115	%REC		16 07/06/2010 7:10	52788
Surrogate: Toluene-d8	103		80-114	%REC		16 07/06/2010 7:10	52788
Surrogate: Bromofluorobenzene	110		60-123	%REC		16 07/06/2010 7:10	52788

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Mitkem Laboratories**

Date: 14-Jul-10

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-1

Project: NOW Corp. Site

Lab ID: J1289-04

Collection Date: 06/22/10 12:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 8260C -- VOC by GC-MS (25 mL Purge)</b>							<b>SW8260_25_W</b>
Vinyl chloride	ND		2.5	µg/L		5 07/06/2010 7:39	52788
Chloroethane	ND		2.5	µg/L		5 07/06/2010 7:39	52788
1,1-Dichloroethene	11		2.5	µg/L		5 07/06/2010 7:39	52788
trans-1,2-Dichloroethene	ND		2.5	µg/L		5 07/06/2010 7:39	52788
Methyl tert-butyl ether	ND		2.5	µg/L		5 07/06/2010 7:39	52788
1,1-Dichloroethane	47		2.5	µg/L		5 07/06/2010 7:39	52788
cis-1,2-Dichloroethene	2.2	J	2.5	µg/L		5 07/06/2010 7:39	52788
1,1,1-Trichloroethane	1.5	J	2.5	µg/L		5 07/06/2010 7:39	52788
1,2-Dichloroethane	ND		2.5	µg/L		5 07/06/2010 7:39	52788
Benzene	ND		2.5	µg/L		5 07/06/2010 7:39	52788
Trichloroethene	40		2.5	µg/L		5 07/06/2010 7:39	52788
Toluene	ND		2.5	µg/L		5 07/06/2010 7:39	52788
1,1,2-Trichloroethane	ND		2.5	µg/L		5 07/06/2010 7:39	52788
Tetrachloroethene	ND		2.5	µg/L		5 07/06/2010 7:39	52788
Chlorobenzene	ND		2.5	µg/L		5 07/06/2010 7:39	52788
Ethylbenzene	ND		2.5	µg/L		5 07/06/2010 7:39	52788
m,p-Xylene	ND		2.5	µg/L		5 07/06/2010 7:39	52788
o-Xylene	ND		2.5	µg/L		5 07/06/2010 7:39	52788
Surrogate: Dibromofluoromethane	95.8		88-124	%REC		5 07/06/2010 7:39	52788
Surrogate: 1,2-Dichloroethane-d4	92.1		79-115	%REC		5 07/06/2010 7:39	52788
Surrogate: Toluene-d8	103		80-114	%REC		5 07/06/2010 7:39	52788
Surrogate: Bromofluorobenzene	110		60-123	%REC		5 07/06/2010 7:39	52788

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

# Mitkem Laboratories

Date: 14-Jul-10

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-2A

Lab ID: J1289-05

Project: NOW Corp. Site

Collection Date: 06/22/10 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 8260C -- VOC by GC-MS (25 mL Purge)</b>							<b>SW8260_25_W</b>
Vinyl chloride	ND		20	µg/L	40	07/06/2010 8:06	52788
Chloroethane	ND		20	µg/L	40	07/06/2010 8:06	52788
1,1-Dichloroethene	17	J	20	µg/L	40	07/06/2010 8:06	52788
trans-1,2-Dichloroethene	ND		20	µg/L	40	07/06/2010 8:06	52788
Methyl tert-butyl ether	ND		20	µg/L	40	07/06/2010 8:06	52788
1,1-Dichloroethane	270		20	µg/L	40	07/06/2010 8:06	52788
cis-1,2-Dichloroethene	15	J	20	µg/L	40	07/06/2010 8:06	52788
1,1,1-Trichloroethane	950		20	µg/L	40	07/06/2010 8:06	52788
1,2-Dichloroethane	ND		20	µg/L	40	07/06/2010 8:06	52788
Benzene	ND		20	µg/L	40	07/06/2010 8:06	52788
Trichloroethene	480		20	µg/L	40	07/06/2010 8:06	52788
Toluene	ND		20	µg/L	40	07/06/2010 8:06	52788
1,1,2-Trichloroethane	ND		20	µg/L	40	07/06/2010 8:06	52788
Tetrachloroethene	ND		20	µg/L	40	07/06/2010 8:06	52788
Chlorobenzene	ND		20	µg/L	40	07/06/2010 8:06	52788
Ethylbenzene	ND		20	µg/L	40	07/06/2010 8:06	52788
m,p-Xylene	ND		20	µg/L	40	07/06/2010 8:06	52788
o-Xylene	ND		20	µg/L	40	07/06/2010 8:06	52788
Surrogate: Dibromofluoromethane	99.1		88-124	%REC	40	07/06/2010 8:06	52788
Surrogate: 1,2-Dichloroethane-d4	101		79-115	%REC	40	07/06/2010 8:06	52788
Surrogate: Toluene-d8	104		80-114	%REC	40	07/06/2010 8:06	52788
Surrogate: Bromofluorobenzene	110		60-123	%REC	40	07/06/2010 8:06	52788

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Mitkem Laboratories**

Date: 14-Jul-10

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-3

Project: NOW Corp. Site

Lab ID: J1289-06

Collection Date: 06/22/10 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 8260C -- VOC by GC-MS (25 mL Purge)</b>							<b>SW8260_25_W</b>
Vinyl chloride	ND		0.50	µg/L		1 07/06/2010 8:37	52788
Chloroethane	ND		0.50	µg/L		1 07/06/2010 8:37	52788
1,1-Dichloroethene	1.4		0.50	µg/L		1 07/06/2010 8:37	52788
trans-1,2-Dichloroethene	ND		0.50	µg/L		1 07/06/2010 8:37	52788
Methyl tert-butyl ether	ND		0.50	µg/L		1 07/06/2010 8:37	52788
1,1-Dichloroethane	19		0.50	µg/L		1 07/06/2010 8:37	52788
cis-1,2-Dichloroethene	0.22	J	0.50	µg/L		1 07/06/2010 8:37	52788
1,1,1-Trichloroethane	13		0.50	µg/L		1 07/06/2010 8:37	52788
1,2-Dichloroethane	ND		0.50	µg/L		1 07/06/2010 8:37	52788
Benzene	ND		0.50	µg/L		1 07/06/2010 8:37	52788
Trichloroethene	7.0		0.50	µg/L		1 07/06/2010 8:37	52788
Toluene	ND		0.50	µg/L		1 07/06/2010 8:37	52788
1,1,2-Trichloroethane	ND		0.50	µg/L		1 07/06/2010 8:37	52788
Tetrachloroethene	ND		0.50	µg/L		1 07/06/2010 8:37	52788
Chlorobenzene	ND		0.50	µg/L		1 07/06/2010 8:37	52788
Ethylbenzene	ND		0.50	µg/L		1 07/06/2010 8:37	52788
m,p-Xylene	ND		0.50	µg/L		1 07/06/2010 8:37	52788
o-Xylene	ND		0.50	µg/L		1 07/06/2010 8:37	52788
Surrogate: Dibromofluoromethane	101		88-124	%REC		1 07/06/2010 8:37	52788
Surrogate: 1,2-Dichloroethane-d4	95.1		79-115	%REC		1 07/06/2010 8:37	52788
Surrogate: Toluene-d8	98.4		80-114	%REC		1 07/06/2010 8:37	52788
Surrogate: Bromofluorobenzene	104		60-123	%REC		1 07/06/2010 8:37	52788

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Mitkem Laboratories**

Date: 14-Jul-10

Client: AECOM Technical Services, Inc.

Client Sample ID: TRIP BLANK

Lab ID: J1289-07

Project: NOW Corp. Site

Collection Date: 06/22/10 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 8260C -- VOC by GC-MS (25 mL Purge)</b>							<b>SW8260_25_W</b>
Vinyl chloride	ND		0.50	µg/L	1	07/06/2010 9:07	52788
Chloroethane	ND		0.50	µg/L	1	07/06/2010 9:07	52788
1,1-Dichloroethene	ND		0.50	µg/L	1	07/06/2010 9:07	52788
trans-1,2-Dichloroethene	ND		0.50	µg/L	1	07/06/2010 9:07	52788
Methyl tert-butyl ether	ND		0.50	µg/L	1	07/06/2010 9:07	52788
1,1-Dichloroethane	ND		0.50	µg/L	1	07/06/2010 9:07	52788
cis-1,2-Dichloroethene	ND		0.50	µg/L	1	07/06/2010 9:07	52788
1,1,1-Trichloroethane	ND		0.50	µg/L	1	07/06/2010 9:07	52788
1,2-Dichloroethane	ND		0.50	µg/L	1	07/06/2010 9:07	52788
Benzene	ND		0.50	µg/L	1	07/06/2010 9:07	52788
Trichloroethene	ND		0.50	µg/L	1	07/06/2010 9:07	52788
Toluene	ND		0.50	µg/L	1	07/06/2010 9:07	52788
1,1,2-Trichloroethane	ND		0.50	µg/L	1	07/06/2010 9:07	52788
Tetrachloroethene	ND		0.50	µg/L	1	07/06/2010 9:07	52788
Chlorobenzene	ND		0.50	µg/L	1	07/06/2010 9:07	52788
Ethylbenzene	ND		0.50	µg/L	1	07/06/2010 9:07	52788
m,p-Xylene	ND		0.50	µg/L	1	07/06/2010 9:07	52788
o-Xylene	ND		0.50	µg/L	1	07/06/2010 9:07	52788
Surrogate: Dibromofluoromethane	94.6		88-124	%REC	1	07/06/2010 9:07	52788
Surrogate: 1,2-Dichloroethane-d4	107		79-115	%REC	1	07/06/2010 9:07	52788
Surrogate: Toluene-d8	103		80-114	%REC	1	07/06/2010 9:07	52788
Surrogate: Bromofluorobenzene	113		60-123	%REC	1	07/06/2010 9:07	52788

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: J1289  
 Project: NOW Corp. Site

**ANALYTICAL QC SUMMARY REPORT**  
**SW8260\_25\_W**  
**SW846 8260C -- VOC by GC-MS (25 mL Purge)**

Sample ID: MB-52788	SampType: MBLK	TestCode: SW8260_25_W	Prep Date: 07/05/10 12:47	Run ID: V5_100705B
Client ID: MB-52788	Batch ID: 52788	Units: µg/L	Analysis Date: 07/06/10 3:20	SeqNo: 1334258

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.077	0.50									
Chloroethane	ND	0.42	0.50									
1,1-Dichloroethene	ND	0.22	0.50									
trans-1,2-Dichloroethene	ND	0.14	0.50									
Methyl tert-butyl ether	ND	0.090	0.50									
1,1-Dichloroethane	ND	0.14	0.50									
cis-1,2-Dichloroethene	ND	0.10	0.50									
1,1,1-Trichloroethane	ND	0.14	0.50									
1,2-Dichloroethane	ND	0.12	0.50									
Benzene	ND	0.13	0.50									
Trichloroethene	ND	0.12	0.50									
Toluene	ND	0.095	0.50									
1,1,2-Trichloroethane	ND	0.090	0.50									
Tetrachloroethene	ND	0.11	0.50									
Chlorobenzene	ND	0.096	0.50									
Ethylbenzene	ND	0.074	0.50									
m,p-Xylene	ND	0.19	0.50									
o-Xylene	ND	0.083	0.50									
Surrogate:	9.920		0.50	10.00	0	99.2	88	124	0			
Dibromofluoromethane												
Surrogate: 1,2-Dichloroethane-d4	9.499		0.50	10.00	0	95.0	79	115	0			
Surrogate: Toluene-d8	9.891		0.50	10.00	0	98.9	80	114	0			
Surrogate:	10.44		0.50	10.00	0	104	60	123	0			
Bromofluorobenzene												

6000

Qualifiers: ND - Not Detected at the Reporting Limit    S - Recovery outside accepted recovery limits    MDL - Method Detection Limit    B - Analyte detected in the associated Method Blank  
 m10.07.02.A    J - Analyte detected below quantitation limits    R - RPD outside accepted recovery limits    RL - Reporting Limit

CLIENT: AECOM Technical Services, Inc.

Work Order: J1289

Project: NOW Corp. Site

# ANALYTICAL QC SUMMARY REPORT

SW8260\_25\_W

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

Sample ID: LCS-52788	SampType: LCS	TestCode: SW8260_25_W	Prep Date: 07/05/10 12:47	Run ID: V5_100705B								
Client ID: LCS-52788	Batch ID: 52788	Units: µg/L	Analysis Date: 07/06/10 3:49	SeqNo: 1334259								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.944	0.077	0.50	10.00	0	99.4	77	120	0			
Chloroethane	10.42	0.42	0.50	10.00	0	104	75	135	0			
1,1-Dichloroethene	9.561	0.22	0.50	10.00	0	95.6	81	125	0			
trans-1,2-Dichloroethene	10.09	0.14	0.50	10.00	0	101	60	137	0			
Methyl tert-butyl ether	10.30	0.090	0.50	10.00	0	103	61	134	0			
1,1-Dichloroethane	9.916	0.14	0.50	10.00	0	99.2	82	120	0			
cis-1,2-Dichloroethene	9.286	0.10	0.50	10.00	0	92.9	84	116	0			
1,1,1-Trichloroethane	10.26	0.14	0.50	10.00	0	103	80	124	0			
1,2-Dichloroethane	10.49	0.12	0.50	10.00	0	105	86	117	0			
Benzene	10.35	0.13	0.50	10.00	0	104	81	121	0			
Trichloroethene	10.45	0.12	0.50	10.00	0	104	74	123	0			
Toluene	10.17	0.095	0.50	10.00	0	102	88	117	0			
1,1,2-Trichloroethane	10.18	0.090	0.50	10.00	0	102	83	121	0			
Tetrachloroethene	11.26	0.11	0.50	10.00	0	113	74	115	0			
Chlorobenzene	10.33	0.096	0.50	10.00	0	103	83	112	0			
Ethylbenzene	10.51	0.074	0.50	10.00	0	105	87	110	0			
m,p-Xylene	21.02	0.19	0.50	20.00	0	105	87	114	0			
o-Xylene	10.06	0.083	0.50	10.00	0	101	84	114	0			
Surrogate:	9.828		0.50	10.00	0	98.3	88	124	0			
Dibromofluoromethane												
Surrogate: 1,2-Dichloroethane-d4	9.674		0.50	10.00	0	96.7	79	115	0			
Surrogate: Toluene-d8	10.35		0.50	10.00	0	104	80	114	0			
Surrogate:	10.62		0.50	10.00	0	106	60	123	0			
Bromofluorobenzene												

Qualifiers: ND - Not Detected at the Reporting Limit

S - Recovery outside accepted recovery limits

MDL - Method Detection Limit

B - Analyte detected in the associated Method Blank

m10.07.02.A J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

RL - Reporting Limit

00100



CLIENT: AECOM Technical Services, Inc.

Work Order: J1289

Project: NOW Corp. Site

# ANALYTICAL QC SUMMARY REPORT

SW8260\_25\_W

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

Sample ID: LCSD-52788	SampType: LCSD	TestCode: SW8260_25_W	Prep Date: 07/05/10 12:47	Run ID: V5_100705B								
Client ID: LCSD-52788	Batch ID: 52788	Units: µg/L	Analysis Date: 07/06/10 4:18	SeqNo: 1334260								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.619	0.077	0.50	10.00	0	96.2	77	120	9.944	3.32	40	
Chloroethane	10.14	0.42	0.50	10.00	0	101	75	135	10.42	2.69	40	
1,1-Dichloroethene	9.007	0.22	0.50	10.00	0	90.1	81	125	9.561	5.97	40	
trans-1,2-Dichloroethene	9.093	0.14	0.50	10.00	0	90.9	60	137	10.09	10.4	40	
Methyl tert-butyl ether	9.509	0.090	0.50	10.00	0	95.1	61	134	10.30	7.97	40	
1,1-Dichloroethane	9.607	0.14	0.50	10.00	0	96.1	82	120	9.916	3.16	40	
cis-1,2-Dichloroethene	9.086	0.10	0.50	10.00	0	90.9	84	116	9.286	2.18	40	
1,1,1-Trichloroethane	9.855	0.14	0.50	10.00	0	98.6	80	124	10.26	4.04	40	
1,2-Dichloroethane	9.789	0.12	0.50	10.00	0	97.9	86	117	10.49	6.93	40	
Benzene	9.772	0.13	0.50	10.00	0	97.7	81	121	10.35	5.78	40	
Trichloroethene	10.32	0.12	0.50	10.00	0	103	74	123	10.45	1.23	40	
Toluene	9.718	0.095	0.50	10.00	0	97.2	88	117	10.17	4.59	40	
1,1,2-Trichloroethane	9.636	0.090	0.50	10.00	0	96.4	83	121	10.18	5.49	40	
Tetrachloroethene	11.01	0.11	0.50	10.00	0	110	74	115	11.26	2.25	40	
Chlorobenzene	9.652	0.096	0.50	10.00	0	96.5	83	112	10.33	6.74	40	
Ethylbenzene	10.41	0.074	0.50	10.00	0	104	87	110	10.51	0.935	40	
m,p-Xylene	19.99	0.19	0.50	20.00	0	99.9	87	114	21.02	5.07	40	
o-Xylene	10.06	0.083	0.50	10.00	0	101	84	114	10.06	0.0404	40	
Surrogate:	10.04		0.50	10.00	0	100	88	124	0			
Dibromofluoromethane												
Surrogate: 1,2-Dichloroethane-d4	8.577		0.50	10.00	0	85.8	79	115	0			
Surrogate: Toluene-d8	10.10		0.50	10.00	0	101	80	114	0			
Surrogate:	10.26		0.50	10.00	0	103	60	123	0			
Bromofluorobenzene												

Qualifiers: ND - Not Detected at the Reporting Limit    S - Recovery outside accepted recovery limits    MDL - Method Detection Limit    B - Analyte detected in the associated Method Blank  
 m10.07.02.A    J - Analyte detected below quantitation limits    R - RPD outside accepted recovery limits    RL - Reporting Limit

1001

**Mitkem Laboratories**

Date: 01-Jul-10

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF-062210

Project: NOW Corp. Site

Lab ID: J1289-01

Collection Date: 06/22/10 12:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 1664A -- Oil & Grease, HEM							E1664
Oil & Grease, Total Recoverable	ND		5.0	mg/L	1	06/29/2010 0:00	52572

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

**Mitekem Laboratories**

**Date:** 01-Jul-10

**Client:** AECOM Technical Services, Inc.

**Client Sample ID:** INF-062210

**Lab ID:** J1289-02

**Project:** NOW Corp. Site

**Collection Date:** 06/22/10 12:30

<b>Analyses</b>	<b>Result</b>	<b>Qual</b>	<b>RL</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>	<b>Batch ID</b>
<b>EPA 1664A -- Oil &amp; Grease, HEM</b>							<b>E1664</b>
Oil & Grease, Total Recoverable	ND		5.0	mg/L		106/29/2010 0:00	52572

**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: 01-Jul-10

Client: AECOM Technical Services, Inc.

Client Sample ID: MID TANK

Lab ID: J1289-03

Project: NOW Corp. Site

Collection Date: 06/22/10 12:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 1664A -- Oil &amp; Grease, HEM</b>							<b>E1664</b>
Oil & Grease, Total Recoverable	ND		5.0	mg/L	1	06/29/2010 0:00	52572

**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: J1289  
 Project: NOW Corp. Site

### ANALYTICAL QC SUMMARY REPORT

**E1664**  
**EPA 1664A -- Oil & Grease, HEM**

Sample ID: <b>MB-52572</b>	SampType: <b>MBLK</b>	TestCode: <b>E1664</b>	Prep Date: <b>06/24/10 9:14</b>	Run ID: <b>MANUAL_100629B</b>								
Client ID: <b>MB-52572</b>	Batch ID: <b>52572</b>	Units: <b>mg/L</b>	Analysis Date: <b>06/29/10 0:00</b>	SeqNo: <b>1330164</b>								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease, Total Recoverable	ND	1.2	5.0									

Sample ID: <b>LCS-52572</b>	SampType: <b>LCS</b>	TestCode: <b>E1664</b>	Prep Date: <b>06/24/10 9:14</b>	Run ID: <b>MANUAL_100629B</b>								
Client ID: <b>LCS-52572</b>	Batch ID: <b>52572</b>	Units: <b>mg/L</b>	Analysis Date: <b>06/29/10 0:00</b>	SeqNo: <b>1330162</b>								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease, Total Recoverable	37.80	1.2	5.0	40.00	0	94.5	78	114	0			

Sample ID: <b>LCSD-52572</b>	SampType: <b>LCSD</b>	TestCode: <b>E1664</b>	Prep Date: <b>06/24/10 9:14</b>	Run ID: <b>MANUAL_100629B</b>								
Client ID: <b>LCSD-52572</b>	Batch ID: <b>52572</b>	Units: <b>mg/L</b>	Analysis Date: <b>06/29/10 0:00</b>	SeqNo: <b>1330163</b>								
Analyte	Result	MDL	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Oil & Grease, Total Recoverable	39.30	1.2	5.0	40.00	0	98.3	78	114	37.80	3.89	18	

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
 m10.06.22.A      J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits

0015

**Mitkem Laboratories**

Date: 06-Jul-10

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF-062210

Project: NOW Corp. Site

Lab ID: J1289-01

Collection Date: 06/22/10 12:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Aluminum	ND	200 µg/L	1 06/30/2010 9:51	52676
Arsenic	ND	20 µg/L	1 06/30/2010 9:51	52676
Barium	87 J	200 µg/L	1 06/30/2010 9:51	52676
Chromium	ND	20 µg/L	1 06/30/2010 9:51	52676
Copper	4.8 BJ	25 µg/L	1 06/30/2010 9:51	52676
Iron	84 J	200 µg/L	1 06/30/2010 9:51	52676
Manganese	55	50 µg/L	1 06/30/2010 13:51	52676
Nickel	1.9 J	50 µg/L	1 06/30/2010 9:51	52676
Zinc	14 BJ	50 µg/L	1 06/30/2010 9:51	52676
<b>SW846 7470A -- Mercury by FIA</b>				<b>SW7470</b>
Mercury	ND	0.20 µg/L	1 07/02/2010 16:18	52738

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: 06-Jul-10

Client: AECOM Technical Services, Inc.

Client Sample ID: INF-062210

Project: NOW Corp. Site

Lab ID: J1289-02

Collection Date: 06/22/10 12:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Aluminum	ND	200 µg/L	1 06/30/2010 9:54	52676
Arsenic	ND	20 µg/L	1 06/30/2010 9:54	52676
Barium	87 J	200 µg/L	1 06/30/2010 9:54	52676
Chromium	0.96 J	20 µg/L	1 06/30/2010 9:54	52676
Copper	4.9 BJ	25 µg/L	1 06/30/2010 9:54	52676
Iron	430	200 µg/L	1 06/30/2010 9:54	52676
Manganese	470	50 µg/L	1 06/30/2010 13:54	52676
Nickel	2.5 J	50 µg/L	1 06/30/2010 9:54	52676
Zinc	15 BJ	50 µg/L	1 06/30/2010 9:54	52676
<b>SW846 7470A -- Mercury by FIA</b>				<b>SW7470</b>
Mercury	ND	0.20 µg/L	1 07/02/2010 16:20	52738

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:** J1289  
**Project:** NOW Corp. Site

**ANALYTICAL QC SUMMARY REPORT**  
**SW6010\_W**  
**SW846 6010C -- Metals by ICP**

Sample ID: <b>MB-52676</b>	SampType: <b>MBLK</b>	TestCode: <b>SW6010_W</b>	Prep Date: <b>06/29/10 11:30</b>	Run ID: <b>OPTIMA2_100630A</b>								
Client ID: <b>MB-52676</b>	Batch ID: <b>52676</b>	Units: <b>µg/L</b>	Analysis Date: <b>06/30/10 9:42</b>	SeqNo: <b>1329453</b>								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	12	200									
Arsenic	ND	3.1	20									
Barium	ND	2.9	200									
Chromium	ND	0.50	20									
Copper	5.108	4.7	30									J
Iron	ND	47	200									
Nickel	ND	0.64	50									
Zinc	7.206	7.0	50									J

Sample ID: <b>MB-52676</b>	SampType: <b>MBLK</b>	TestCode: <b>SW6010_W</b>	Prep Date: <b>06/29/10 11:30</b>	Run ID: <b>OPTIMA2_100630B</b>								
Client ID: <b>MB-52676</b>	Batch ID: <b>52676</b>	Units: <b>µg/L</b>	Analysis Date: <b>06/30/10 13:46</b>	SeqNo: <b>1331166</b>								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	ND	3.5	50									

Sample ID: <b>LCS-52676</b>	SampType: <b>LCS</b>	TestCode: <b>SW6010_W</b>	Prep Date: <b>06/29/10 11:30</b>	Run ID: <b>OPTIMA2_100630A</b>								
Client ID: <b>LCS-52676</b>	Batch ID: <b>52676</b>	Units: <b>µg/L</b>	Analysis Date: <b>06/30/10 9:45</b>	SeqNo: <b>1329454</b>								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9936	12	200	9100	0	109	80	120	0			
Arsenic	483.5	3.1	20	455.0	0	106	80	120	0			
Barium	10070	2.9	200	9100	0	111	80	120	0			
Chromium	1006	0.50	20	910.0	0	111	80	120	0			
Copper	1261	4.7	30	1130	0	112	80	120	0			B
Iron	5041	47	200	4550	0	111	80	120	0			
Nickel	2414	0.64	50	2270	0	106	80	120	0			
Zinc	2469	7.0	50	2270	0	109	80	120	0			B

Sample ID: <b>LCS-52676</b>	SampType: <b>LCS</b>	TestCode: <b>SW6010_W</b>	Prep Date: <b>06/29/10 11:30</b>	Run ID: <b>OPTIMA2_100630B</b>								
Client ID: <b>LCS-52676</b>	Batch ID: <b>52676</b>	Units: <b>µg/L</b>	Analysis Date: <b>06/30/10 13:49</b>	SeqNo: <b>1331167</b>								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	2337	3.5	50	2270	0	103	80	120	0			

**Qualifiers:** ND - Not Detected at the Reporting Limit    S - Recovery outside accepted recovery limits    MDL - Method Detection Limit    B - Analyte detected in the associated Method Blank  
 m10.07.02.A    J - Analyte detected below quantitation limits    R - RPD outside accepted recovery limits    RL - Reporting Limit



CLIENT: AECOM Technical Services, Inc.

Work Order: J1289

Project: NOW Corp. Site

# ANALYTICAL QC SUMMARY REPORT

SW7470

SW846 7470A -- Mercury by FIA

Sample ID: <b>MB-52738</b>	SampType: <b>MBLK</b>	TestCode: <b>SW7470</b>	Prep Date: <b>07/01/10 11:15</b>	Run ID: <b>FIMS1_100702B</b>								
Client ID: <b>MB-52738</b>	Batch ID: <b>52738</b>	Units: <b>µg/L</b>	Analysis Date: <b>07/02/10 16:00</b>	SeqNo: <b>1332982</b>								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.028	0.20									

Sample ID: <b>LCS-52738</b>	SampType: <b>LCS</b>	TestCode: <b>SW7470</b>	Prep Date: <b>07/01/10 11:15</b>	Run ID: <b>FIMS1_100702B</b>								
Client ID: <b>LCS-52738</b>	Batch ID: <b>52738</b>	Units: <b>µg/L</b>	Analysis Date: <b>07/02/10 16:02</b>	SeqNo: <b>1332983</b>								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.365	0.028	0.20	4.550	0	95.9	80	120	0			

Sample ID: <b>LCSD-52738</b>	SampType: <b>LCSD</b>	TestCode: <b>SW7470</b>	Prep Date: <b>07/01/10 11:15</b>	Run ID: <b>FIMS1_100702B</b>								
Client ID: <b>LCSD-52738</b>	Batch ID: <b>52738</b>	Units: <b>µg/L</b>	Analysis Date: <b>07/02/10 16:03</b>	SeqNo: <b>1332984</b>								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.416	0.028	0.20	4.550	0	97.1	80	120	4.365	1.17	20	

0019

Qualifiers: ND - Not Detected at the Reporting Limit

S - Recovery outside accepted recovery limits

MDL - Method Detection Limit

B - Analyte detected in the associated Method Blank

m10.07.02.A

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

RL - Reporting Limit

**Mitkem Laboratories**

Date: 06-Jul-10

Client: AECOM Technical Services, Inc.

Client Sample ID: EFF-062210

Lab ID: J1289-01

Project: NOW Corp. Site

Collection Date: 06/22/10 12:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SM 2540C -- TOTAL DISSOLVED SOLIDS</b>							<b>SM2540_TDS</b>
Total Dissolved Solids	310		10	mg/L		1 06/28/2010 19:42	52651
<b>SM 2540D -- TOTAL SUSPENDED SOLIDS</b>							<b>SM2540_TSS</b>
Total Suspended Solids	ND		10	mg/L		1 06/28/2010 22:54	52652
<b>SW846 9012B -- Total Cyanide</b>							<b>SW9012_W</b>
Cyanide	ND		10	µg/L		1 07/02/2010 15:48	52746

**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: 06-Jul-10

Client: AECOM Technical Services, Inc.

Client Sample ID: INF-062210

Lab ID: J1289-02

Project: NOW Corp. Site

Collection Date: 06/22/10 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SM 2540C -- TOTAL DISSOLVED SOLIDS</b>							<b>SM2540_TDS</b>
Total Dissolved Solids	350		10	mg/L	1	06/28/2010 21:18	52651
<b>SM 2540D -- TOTAL SUSPENDED SOLIDS</b>							<b>SM2540_TSS</b>
Total Suspended Solids	ND		10	mg/L	1	06/29/2010 2:06	52652
<b>SW846 9012B -- Total Cyanide</b>							<b>SW9012_W</b>
Cyanide	ND		10	µg/L	1	07/02/2010 16:26	52746

**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

0021

**CLIENT:** AECOM Technical Services, Inc.  
**Work Order:** J1289  
**Project:** NOW Corp. Site

**ANALYTICAL QC SUMMARY REPORT**  
**SM2540\_TDS**  
**SM 2540C -- TOTAL DISSOLVED SOLIDS**

Sample ID: MB-52651	SampType: MBLK	TestCode: SM2540_TDS	Prep Date: 06/28/10 16:30	Run ID: MANUAL_100628A								
Client ID: MB-52651	Batch ID: 52651	Units: mg/L	Analysis Date: 06/28/10 16:30	SeqNo: 1330165								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	10	10									

Sample ID: LCS-52651	SampType: LCS	TestCode: SM2540_TDS	Prep Date: 06/28/10 16:30	Run ID: MANUAL_100628A								
Client ID: LCS-52651	Batch ID: 52651	Units: mg/L	Analysis Date: 06/28/10 18:06	SeqNo: 1330166								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	348.0	10	10	350.0	0	99.4	80	120	0			

0022

**Qualifiers:** ND - Not Detected at the Reporting Limit    S - Recovery outside accepted recovery limits    MDL - Method Detection Limit    B - Analyte detected in the associated Method Blank  
 m10.07.02.A    J - Analyte detected below quantitation limits    R - RPD outside accepted recovery limits    RL - Reporting Limit

CLIENT: AECOM Technical Services, Inc.

Work Order: J1289

Project: NOW Corp. Site

# ANALYTICAL QC SUMMARY REPORT

SM2540\_TSS

SM 2540D -- TOTAL SUSPENDED SOLIDS

Sample ID: MB-52652	SampType: MBLK	TestCode: SM2540_TSS	Prep Date: 06/28/10 16:30	Run ID: MANUAL_100628B								
Client ID: MB-52652	Batch ID: 52652	Units: mg/L	Analysis Date: 06/28/10 16:30	SeqNo: 1330175								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	ND	10	10									

Sample ID: LCS-52652	SampType: LCS	TestCode: SM2540_TSS	Prep Date: 06/28/10 16:30	Run ID: MANUAL_100628B								
Client ID: LCS-52652	Batch ID: 52652	Units: mg/L	Analysis Date: 06/28/10 19:42	SeqNo: 1330176								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	50.00	10	10	51.40	0	97.3	80	120	0			

Sample ID: J1289-02CDUP	SampType: DUP	TestCode: SM2540_TSS	Prep Date: 06/28/10 16:30	Run ID: MANUAL_100628B								
Client ID: INF-062210	Batch ID: 52652	Units: mg/L	Analysis Date: 06/29/10 5:18	SeqNo: 1330179								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	ND	10	10	0	0	0	0	0	0	0	20	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Recovery outside accepted recovery limits

MDL - Method Detection Limit

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

RL - Reporting Limit

0029

CLIENT: AECOM Technical Services, Inc.

Work Order: J1289

Project: NOW Corp. Site

# ANALYTICAL QC SUMMARY REPORT

SW9012\_W

SW846 9012B -- Total Cyanide

Sample ID: MB-52746	SampType: MBLK	TestCode: SW9012_W	Prep Date: 07/01/10 9:00	Run ID: LACHAT1_100702A								
Client ID: MB-52746	Batch ID: 52746	Units: µg/L	Analysis Date: 07/02/10 15:05	SeqNo: 1333298								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	ND	7.5	20									

Sample ID: LCS-52746	SampType: LCS	TestCode: SW9012_W	Prep Date: 07/01/10 9:00	Run ID: LACHAT1_100702A								
Client ID: LCS-52746	Batch ID: 52746	Units: µg/L	Analysis Date: 07/02/10 15:08	SeqNo: 1333299								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	105.5	7.5	20	100.0	0	106	80	120	0			

Sample ID: LCSD-52746	SampType: LCSD	TestCode: SW9012_W	Prep Date: 07/01/10 9:00	Run ID: LACHAT1_100702A								
Client ID: LCSD-52746	Batch ID: 52746	Units: µg/L	Analysis Date: 07/02/10 15:11	SeqNo: 1333300								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cyanide	107.5	7.5	20	100.0	0	107	80	120	105.5	1.81	20	

Qualifiers: ND - Not Detected at the Reporting Limit    S - Recovery outside accepted recovery limits    MDL - Method Detection Limit    B - Analyte detected in the associated Method Blank  
 m10.07.02.A    J - Analyte detected below quantitation limits    R - RPD outside accepted recovery limits    RL - Reporting Limit

0024

**WorkOrder: J1289****06/23/2010 11:36****Mitkem Laboratories**

Client ID: EARTH\_NY  
 Project: NOW Corp. Site  
 WO Name: NOW Corp. Site  
 Location: NOW\_CORP,  
 Comments: N/A

Case:  
 SDG:  
 PO: 94017.02

HC Due: 07/09/10  
 Fax Due:  
 Fax Report:

Report Level: LEVEL 2  
 Special Program:  
 EDD:

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
J1289-01A	EFF-062210	06/22/2010 12:20	06/23/2010	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
J1289-01B	EFF-062210	06/22/2010 12:20	06/23/2010	Aqueous	SW6010_W	/ See SEL list				Y	M5
J1289-01B	EFF-062210	06/22/2010 12:20	06/23/2010	Aqueous	SW7470	/ See SEL list					M5
J1289-01C	EFF-062210	06/22/2010 12:20	06/23/2010	Aqueous	SM2540_TDS	/					F1
J1289-01C	EFF-062210	06/22/2010 12:20	06/23/2010	Aqueous	SM2540_TSS	/					F1
J1289-01D	EFF-062210	06/22/2010 12:20	06/23/2010	Aqueous	SW9012_W	/				Y	F1
J1289-01E	EFF-062210	06/22/2010 12:20	06/23/2010	Aqueous	E1664	/					F1
J1289-02A	INF-062210	06/22/2010 12:30	06/23/2010	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
J1289-02B	INF-062210	06/22/2010 12:30	06/23/2010	Aqueous	SW6010_W	/ See SEL list				Y	M5
J1289-02B	INF-062210	06/22/2010 12:30	06/23/2010	Aqueous	SW7470	/ See SEL list					M5
J1289-02C	INF-062210	06/22/2010 12:30	06/23/2010	Aqueous	SM2540_TDS	/					F1
J1289-02C	INF-062210	06/22/2010 12:30	06/23/2010	Aqueous	SM2540_TSS	/					F1
J1289-02D	INF-062210	06/22/2010 12:30	06/23/2010	Aqueous	SW9012_W	/				Y	F1
J1289-02E	INF-062210	06/22/2010 12:30	06/23/2010	Aqueous	E1664	/					F1
J1289-03A	MID TANK	06/22/2010 12:35	06/23/2010	Aqueous	E1664	/					F1
J1289-04A	TW-1	06/22/2010 12:40	06/23/2010	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
J1289-05A	TW-2A	06/22/2010 12:45	06/23/2010	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
J1289-06A	TW-3	06/22/2010 12:50	06/23/2010	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA
J1289-07A	TRIP BLANK	06/22/2010 00:00	06/23/2010	Aqueous	SW8260_25_W	/ use for VOCs,				Y	VOA

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

HT = Test logged in but has been placed on hold

**WorkOrder: J1289**

**06/23/2010 11:36**

**Mitkem Laboratories**

**Client ID:** EARTH\_NY  
**Project:** NOW Corp. Site  
**WO Name:** NOW Corp. Site  
**Location:** NOW\_CORP,  
**Comments:** N/A

**Case:**  
**SDG:**  
**PO:** 94017.02

**HC Due:** 07/09/10  
**Fax Due:**  
**Fax Report:**   
**Report Level:** LEVEL 2  
**Special Program:**  
**EDD:**

---

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
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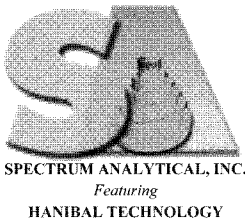
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0026

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

HT = Test logged in but has been placed on hold





# 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: AECOM  
40 British American Blvd.  
Latham NY 12110

Invoice To: Same

Project No.: 60135676

Site Name: 02

Telephone #: 518-951-2200

Project Mgr. Stephen Choiniere

P.O. No.: \_\_\_\_\_ RQN: \_\_\_\_\_

Location: Staatsburg State: NY

Sampler(s): JRG

1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH  
 8=NaHSO<sub>4</sub> 9=None 10=\_\_\_\_\_ 11=\_\_\_\_\_

List preservative code below:

2 4 9 2 5

QA/QC Reporting Notes:  
(check as needed)

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

Containers:

Analyses:

- Provide MA DEP MCP CAM Report
- Provide CT DPH RCP Report
- QA/QC Reporting Level**
- Standard  No QC
- Other \_\_\_\_\_

State specific reporting standards:

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	8260	Metals*	TDS/TSS	O+G	Cyanide
01	EFF-062210	6-22-10	12:20	G		2	2	0	2	X	X	X	X	X
02	INF-062210		12:30			2	2	0	2	X	X	X	X	
03	Mid Tank		12:35				2	0					X	
04	TW-1		12:40			2				X				
05	TW-2A		12:45			2				X				
06	TW-3		12:50			2				X				
07	Trip Blank					2				X				

\*Al, As, Ba, Cr, Cu, Fe, Mn, Hg, Zn, U

Relinquished by:	Received by:	Date:	Time:	Temp°C
<u>Stev J...</u>	<u>CG...</u>	6-22-10	15:40	
		6/23/10	9:10	5°C

- EDD Format \_\_\_\_\_
- E-mail to \_\_\_\_\_
- Ambient  Iced  Refrigerated  Fridge temp \_\_\_\_\_ °C  Freezer temp \_\_\_\_\_ °C

0027

**MITKEM LABORATORIES**  
Sample Condition Form

Received By: <u>CAV</u>		Reviewed By: <u>VEG</u>		Date: <u>6/30/10</u>	Mitkem Work Order #: <u>J1289</u>			
Client Project: <u>New Corp</u>				Client:				Soil Headspace or Air Bubble ≥ 1/4"
		Lab Sample ID			Preservation (pH)			VOA Matrix
		HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	HCl	NaOH	H <sub>3</sub> PO <sub>4</sub>		
1) Cooler Sealed	<input checked="" type="radio"/> Yes / <input type="radio"/> No	<u>J1289</u>	<u>01</u>		<u>H</u>		<u>H</u>	
2) Custody Seal(s)	<input checked="" type="radio"/> Present / <input type="radio"/> Absent <u>Coolers</u> / Bottles <input checked="" type="radio"/> Intact / <input type="radio"/> Broken		<u>02</u>		<u>H</u>		<u>H</u>	
			<u>03</u>		<u>H</u>			
			<u>04</u>					<u>H</u>
			<u>05</u>					<u>H</u>
			<u>06</u>					<u>H</u>
3) Custody Seal Number(s)	<u>NA</u>	<u>J1289</u>	<u>07</u>				<u>H</u>	
4) Chain-of-Custody	<input checked="" type="radio"/> Present / <input type="radio"/> Absent	<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p>CAV 6/23/10</p> </div>						
5) Cooler Temperature	<u>5°C</u>							
IR Temp Gun ID	<u>MT-1</u>							
Coolant Condition	<u>ICE</u>							
6) Airbill(s)	<input checked="" type="radio"/> Present / <input type="radio"/> Absent							
Airbill Number(s)	<u>Fed Ex</u>							
	<u>869079237950</u>							
7) Samples Bottles	<input checked="" type="radio"/> Intact / <input type="radio"/> Broken / <input type="radio"/> Leaking							
8) Date Received	<u>6/23/10</u>							
9) Time Received	<u>9:10</u>							
Preservative Name/Lot No.:								

VOA Matrix Key:

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

See Sample Condition Notification/Corrective Action Form yes /  no

**Last Page of Data Report**