AECOM

Operation, Maintenance and Monitoring Report January 2011

NOW Corporation Site 3-14-008

Work Assignment No. D004445-4.2

Prepared for:

SUPERFUND STANDBY PROGRAM New York State Department of Environmental Conservation 625 Broadway Albany, New York 12233

Prepared by:

AECOM Technical Services Northeast, Inc. 40 British American Boulevard Latham, New York 12110

March 2011



March 24, 2011

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

Re: NOW Corporation - Site #3-14-008 O&M Summary Report: "January" 2011

Dear Mr. Hoffman:

This monthly summary report describes the operation, monitoring and maintenance (OM&M) of the remedial system at the NOW Corporation site in the Town of Clinton, New York, for a 29-day period (December 28, 2010 – January 26, 2011).

With the exceptions noted below, if any, the P&T system was online and operational throughout the reporting period. Approximately 567,300 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 19,560 gallons per day (gpd), approximately 25 percent higher than the 15,675 gpd in the prior reporting period.

As of the last day of the reporting period, a total of 81,879,300 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 January 26, 2011. **Effluent limitations were not exceeded for any analyte.** A copy of the analytical laboratory report is attached. Table 2 summarizes selected operational data recorded on the sampling date.

AECOM made one site visit during the period to conduct the required system inspection, perform scheduled maintenance, and to collect water samples. The December 28 service visit was described in the previous report. Details for the current period follow:

<u>January 26</u> – Monthly O&M service visit. Recorded instrument/meter readings. Collected influent and effluent samples. The blower pressure was 24.5 inches of water upon arrival. Tech turned down blower intake to reduce the pressure to 20.5 inches of water column.

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.

Then &

Stephen R. Choiniere Project Manager

Table 1Summary of Influent and Effluent DataSampling Date: January 26, 2011NOW Corporation SiteTown of Clinton, New York

Analytes/	Total		Recovery Wells		Ef	fluent	
Parameters	Influent	Effluent	TW-1	TW-2A	TW-3	Lim	itations
							(units)
Quantity treated, per day		19,562				Monitor	gallons
pH	7.2	7.3				6.5 to 8.5	standard units
Oil and Grease	<5.0	8.4	NA	NA	NA	15	mg/L
Total Cyanide	<10	<10	NA	NA	NA	10	ug/L
TDS	311	247	NA	NA	NA	1000	mg/L
TSS	<5	<5	NA	NA	NA	50	mg/L
100			1111	1411	1111	50	ing/L
Aluminum, Total	<200	<200	NA	NA	NA	2000	ug/L
Arsenic, Total	<20	<20	NA	NA	NA	50	ug/L
Barium, Total	72 J	71 J	NA	NA	NA	2000	ug/L
Chromium	<20	<20	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	140	75	NA	NA	NA	600	ug/L
Nickel	1.0 J	<50	NA	NA	NA	200	ug/L
Zinc	12 J	11 J	NA	NA	NA	150	ug/L
1,1,1-Trichloroethane	310	<0.50	1.8	480	5.5	5	ug/L
1,1,2-Trichloroethane	<8	< 0.50	<1.0	<13	< 0.50	1.2	ug/L
1,1-Dichloroethane	110	< 0.50	54	180	16	5	ug/L
1,1-Dichloroethene	<8	< 0.50	12	<13	1.9	0.5	ug/L
1,2-Dichloroethane	<8	< 0.50	<1.0	<13	< 0.50	1.6	ug/L
Benzene	<8	< 0.50	<1.0	<13	< 0.50	0.8	ug/L
Chlorobenzene	<8	< 0.50	<1.0	<13	< 0.50	5	ug/L
Chloroethane	<8	< 0.50	<1.0	<13	< 0.50	5	ug/L
cis-1,2-Dichloroethene	10	< 0.50	3.1	15	< 0.50	5	ug/L
Ethylbenzene	<8	< 0.50	<1.0	<13	< 0.50	5	ug/L
Methyl tert-butyl ether	<8	< 0.50	<1.0	<13	< 0.50	5	ug/L
o-Xylene	<8	< 0.50	<1.0	<13	< 0.50	5	ug/L
m,p-Xylene	<8	< 0.50	<1.0	<13	< 0.50	10	ug/L
Tetrachloroethene	<8	< 0.50	<1.0	<13	< 0.50	1.4	ug/L
Toluene	<8	< 0.50	<1.0	<13	< 0.50	5	ug/L
trans -1,2-Dichloroethene	<8	< 0.50	<1.0	<13	< 0.50	5	ug/L
Trichloroethene	300	< 0.50	61	440	17	5	ug/L
Vinyl Chloride	<8	< 0.50	<1.0	<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 2Summary of January 2011 O&M Data

NOW Corporation Site Town of Clinton, New York

Instrumentation/Readings:	1/26/11	Units
<i>TW-1</i>		
Pumping Rate	2	GPM
Water Level Above Transducer	23.27	feet
Flow Meter Reading	5,852,800	gallons
Pump Pressure	78	psi
TW-2A		
Pumping Rate	~14	GPM
Water Level Above Transducer	43.28	feet
Flow Meter Reading	19,539,900	gallons
Pump Pressure	14	psi
<i>TW-3</i>		
Pumping Rate	3	GPM
Water Level Above Transducer	15.80	feet
Flow Meter Reading	8,525,400	gallons
Pump Pressure	54	psi
Air Stripper		
Stripper Blower Pressure	20.5	inches H ₂ O
Air Temperature in Stripper	48	°F
Pressure Gauge - Left Leg	2.3	inches H ₂ O
Pressure Gauge - Right Leg	2.9	inches H ₂ O
Effluent Flow		-
Effluent Flow this period (calculated	l) 567,300	gallons
Total Effluent Flow (calculated)	81,879,300	gallons

Report Date: 16-Feb-11 14:08



Work Order: K0149

Project #:

Project : NOW Corp. Site

Final Repo	ort
C Re-Issued	Report
C Revised R	eport

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

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

Attn: Stephen Choiniere

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
K0149-01	EFF-012611	Aqueous	26-Jan-11 11:30	28-Jan-11 08:54
K0149-02	INF-012611	 Aqueous	26-Jan-11 11:40	28-Jan-11 08:54
K0149-03	TW-1	Aqueous	26-Jan-11 11:50	28-Jan-11 08:54
K0149-04	TW-2A	Aqueous	26-Jan-11 11:55	28-Jan-11 08:54
K0149-05	TW-3	Aqueous	26-Jan-11 12:00	28-Jan-11 08:54
K0149-06	TRIP BLANK	Aqueous	26-Jan-11 00:00	28-Jan-11 08:54

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

All applicable NELAC or USEPA CLP requirments have been meet.

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

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

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	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 NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: K0149

SW846 8260C

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B_25_PR(METHOD)

V. INSTRUMENTATION

The following instrumentation was used Instrument Code: V5 Instrument Type: GCMS-VOA Description: HP6890 / HP6890 Manufacturer: Hewlett-Packard Model: 6890 / 6890

VI. ANALYSIS

A. Calibration:

Calibrations were within the acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

- D. Spikes:
 - 1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-56104 in batch 56104, Percent Recovery is outside QC Limits, recovery is above criteria for Ethylbenzene at 111% with criteria of (87-110)

LCSD-56104 in batch 56104, Percent Recovery is outside QC Limits, recovery is above criteria for o-Xylene at 117% with criteria of (84-114)

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

The following samples were analyzed at dilution: INF-012611 (K0149-02A) : Dilution Factor: 16 TW-1 (K0149-03A) : Dilution Factor: 2 TW-2A (K0149-04A) : Dilution Factor: 25

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:

Date: 2/15/2011

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: K0149

EPA 1664A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: EPA 1664A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: E1664_PR(SEPF)

V. INSTRUMENTATION

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

VI. ANALYSIS

A. Calibration:

Analytical balance was calibrated based on SOP/Method criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

E. Samples:

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

2/110/11 Signed:

Date:

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: K0149

SW846 6010C, SW846 7470A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 6010C, SW846 7470A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: ICP_W_PR(3005A) Aqueous Samples were prepared following procedures in laboratory test code: SW7470A_PR(7470A)

V. INSTRUMENTATION

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

Instrument Code: OPTIMA3 Instrument Type: ICP Description: Optima ICP-OES Manufacturer: Perkin-Elmer Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

D. Samples:

No unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature

Signed:_

Date:

0008

REPORT NARRATIVE

Mitkem Laboratories, a Division of Spectrum Analytical, Inc.

Client : AECOM Technical Services, Inc.

Project: NOW Corp. Site

Laboratory Workorder / SDG #: K0149

SM 2540C, SM 2540D, SW846 9012B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

Total Dissolved Solids and Total Suspended Solids analyses were performed by Mitkem's parent company Spectrum Analytical, Inc. of Agawam, MA. Spectrum is fully NYSDOH approved for these analyses.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SM 2540C, SM 2540D, SW846 9012B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: CN_W_PR(Midi-distillation)

V. INSTRUMENTATION

The following instrumentation was used to perform Instrument Code: LACHAT1 Instrument Type: WC Description: Flow Injection Analyzer Manufacturer: Zellweger Analytics Model: Quik-Chem 8000

I. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

- C. Spikes:
 - 1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

D. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Mitkem, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: Date:

Date: 15-Feb-11

Client:	AECOM Technical Services, Inc.		
Client Sample ID:	EFF-012611	Project:	NOW Corp. Site
Lab ID:	K0149-01	Collection Date:	01/26/11 11:30

Analyses	Result Qual	RL Units	DF Date Analyzed Bat	ch ID
SW846 8260C VOC by GC-MS (25 mL Purge)			SW8260_2	5_W
Vinyl chloride	ND	0.50 µg/L	1 02/09/2011 18:56	56104
Chloroethane	ND	0.50 µg/L	1 02/09/2011 18:56	56104
1.1-Dichloroethene	ND	0.50 µg/L	1 02/09/2011 18:56	56104
trans-1.2-Dichloroethene	ND	0.50 µg/L	1 02/09/2011 18:56	56104
Methyl tert-butyl ether	ND	0.50 µg/L	1 02/09/2011 18:56	56104
1,1-Dichloroethane	ND	0.50 μg/L	1 02/09/2011 18:56	56104
cis-1.2-Dichloroethene	ND	0.50 µg/L	1 02/09/2011 18:56	56104
1.1.1-Trichloroethane	ND	0.50 µg/L	1 02/09/2011 18:56	56104
1,2-Dichloroethane	ND	0.50 µg/L	1 02/09/2011 18:56	56104
Benzene	ND	0.50 µg/L	1 02/09/2011 18:56	56104
Trichloroethene	ND	0.50 µg/L	1 02/09/2011 18:56	56104
Toluene	ND	0.50 µg/L	1 02/09/2011 18:56	56104
1,1,2-Trichloroethane	ND	0.50 µg/L	1 02/09/2011 18:56	56104
Tetrachloroethene	ND	0.50 µg/L	1 02/09/2011 18:56	56104
Chlorobenzene	ND	0.50 μg/L	1 02/09/2011 18:56	56104
Ethylbenzene	ND	0.50 µg/L	1 02/09/2011 18:56	56104
m,p-Xylene	ND	0.50 µg/L	1 02/09/2011 18:56	56104
o-Xylene	ND	0.50 µg/L	1 02/09/2011 18:56	56104
Surrogate: Dibromofluoromethane	103	88-124 %REC	1 02/09/2011 18:56	56104
č	103	79-115 %REC	1 02/09/2011 18:56	56104
Surrogate: 1,2-Dichloroethane-d4	101	80-114 %REC	1 02/09/2011 18:56	56104
Surrogate: Toluene-d8	93.1	60-123 %REC	1 02/09/2011 18:56	56104
Surrogate: Bromofluorobenzene				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

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

Date: 15-Feb-11

Client: AECOM Technical Services, Inc. Client Sample ID: INF-012611 Lab ID: K0149-02

Project: NOW Corp. Site Collection Date: 01/26/11 11:40

SW846 8260C VOC by GC-MS (25 mL Purge) SW8260_25_W Vinyl chloride ND 8.0 µg/L 16 02/09/2011 19:26 56104 Chloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethene ND 8.0 µg/L 16 02/09/2011 19:26 56104 trans-1,2-Dichloroethene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Methyl tert-bulyl ether ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethane 110 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Trichloroethane 10 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Trichloroethane 310 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,12-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26	Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
Vinyl chloride ND 8.0 µg/L 16 02/09/2011 19:26 56104 Chloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 trans-1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 Methyl tert-bulyl ether ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethane 110 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethane 10 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Trichloroethane 310 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Trichloroethane 300 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1.2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,2-Trichloroethane ND	SW846 8260C VOC by GC-MS (25 mL Purge)				SW8260_25_W
ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethene ND 8.0 µg/L 16 02/09/2011 19:26 56104 trans-1,2-Dichloroethene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Methyl tert-bulyl ether ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethane 110 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethane 10 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethane 10 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,1-Trichloroethane 310 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,2-Trichloroethane ND 8.0 µg	Viovi chloride	ND	8.0 µg/L	16 02/09/2011 19:26	56104
ND 8.0 µg/L 16 02/09/2011 19:26 56104 trans-1,2-Dichloroethene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Methyl tert-butyl ether ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethane 110 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethane 10 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Trichloroethane 10 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethane 10 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 Chlorobenzene ND		ND	8.0 µg/L	16 02/09/2011 19:26	56104
trans-1,2-DichloroetheneND8.0µg/L16 02/09/2011 19:2656104Methyl tert-butyl etherND8.0µg/L16 02/09/2011 19:26561041,1-Dichloroethane1108.0µg/L16 02/09/2011 19:2656104cis-1,2-Dichloroethane108.0µg/L16 02/09/2011 19:2656104cis-1,2-Dichloroethane108.0µg/L16 02/09/2011 19:26561041,1-Trichloroethane3108.0µg/L16 02/09/2011 19:26561041,2-DichloroethaneND8.0µg/L16 02/09/2011 19:26561041,2-Dichloroethane3008.0µg/L16 02/09/2011 19:26561041,2-Dichloroethane3008.0µg/L16 02/09/2011 19:26561041,2-Dichloroethane3008.0µg/L16 02/09/2011 19:26561041,1,2-TrichloroethaneND8.0µg/L16 02/09/2011 19:26561041,1,2-TrichloroethaneND8.0µg/L16 02/09/2011 19:26561041,1,2-TrichloroethaneND8.0µg/L16 02/09/2011 19:26561041,1,2-TrichloroethaneND8.0µg/L16 02/09/2011 19:26561041,1,2-TrichloroethaneND8.0µg/L16 02/09/2011 19:2656104ChlorobenzeneND8.0µg/L16 02/09/2011 19:2656104Mp.P-XyleneND8.0µg/L16 02/09/2011 19:2656104Mp.P-XyleneND8.0µg/L16 02/09		ND	8.0 μg/L	16 02/09/2011 19:26	56104
Methyl tetr- butyl ether ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1-Dichloroethane 110 8.0 µg/L 16 02/09/2011 19:26 56104 cis-1,2-Dichloroethane 10 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,1-Trichloroethane 310 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 Benzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 Toluene ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 Chlorobenzene ND 8.0 <		ND	8.0 µg/L	16 02/09/2011 19:26	56104
1.1-Dichloroethane 110 8.0 µg/L 16 02/09/2011 19:26 56104 cis-1,2-Dichloroethane 10 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,1-Trichloroethane 310 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 Benzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Trichloroethane 300 8.0 µg/L 16 02/09/2011 19:26 56104 Toluene ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1.2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 Chlorobenzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Chlorobenzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 c-Xylene ND 8.0		ND	8.0 μg/L	16 02/09/2011 19:26	56104
cis-1,2-Dichloroethene 10 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,1-Trichloroethane 310 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,2-Dichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 Benzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Trichloroethane 300 8.0 µg/L 16 02/09/2011 19:26 56104 Toluene ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 Chlorobenzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Ethylbenzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 o-Xylene ND 8.0 µg/L <		110	8.0 µg/L	16 02/09/2011 19:26	56104
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ND 8.0 µg/L 16 02/09/2011 19:26 56104 Benzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Trichloroethene 300 8.0 µg/L 16 02/09/2011 19:26 56104 Toluene ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 Chlorobenzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Ethylbenzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 o-Xylene ND 8.0 µg/L 16 02/09/2011 19:26 56104 o-Xylene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Surrogate: Dibromofluoromethane 101 88-124 %REC 16 02/09/2011 19:26 56104 Surrogate: Toluene-d8 97.5 80-114 %REC <td></td> <td>310</td> <td>8.0 μg/L</td> <td>16 02/09/2011 19:26</td> <td>56104</td>		310	8.0 μg/L	16 02/09/2011 19:26	56104
Benzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Trichloroethene 300 8.0 µg/L 16 02/09/2011 19:26 56104 Toluene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Toluene ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 1,1,2-Trichloroethane ND 8.0 µg/L 16 02/09/2011 19:26 56104 Tetrachloroethene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Chlorobenzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Ethylbenzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 o-Xylene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Surrogate: Dibromofluoromethane 101 88-124 %REC 16 02/09/2011 19:26 56104 Surrogate: Toluene-d8 97.5 80-114 %REC		ND	8.0 μg/L	16 02/09/2011 19:26	56104
Trichloroethene3008.0µg/L16 02/09/2011 19:2656104TolueneND8.0µg/L16 02/09/2011 19:26561041,1,2-TrichloroethaneND8.0µg/L16 02/09/2011 19:26561041,1,2-TrichloroethaneND8.0µg/L16 02/09/2011 19:2656104TetrachloroetheneND8.0µg/L16 02/09/2011 19:2656104ChlorobenzeneND8.0µg/L16 02/09/2011 19:2656104EthylbenzeneND8.0µg/L16 02/09/2011 19:2656104m,p-XyleneND8.0µg/L16 02/09/2011 19:2656104o-XyleneND8.0µg/L16 02/09/2011 19:2656104Surrogate: 1,2-Dichloroethane-d489.979-115%REC16 02/09/2011 19:2656104Surrogate: Toluene-d897.580-114%REC16 02/09/2011 19:2656104Surrogate: Toluene-d897.580-114%REC16 02/09/2011 19:2656104		ND	8.0 µg/L	16 02/09/2011 19:26	56104
TolueneND8.0µg/L16 02/09/2011 19:26561041,1,2-TrichloroethaneND8.0µg/L16 02/09/2011 19:2656104TetrachloroetheneND8.0µg/L16 02/09/2011 19:2656104ChlorobenzeneND8.0µg/L16 02/09/2011 19:2656104EthylbenzeneND8.0µg/L16 02/09/2011 19:2656104m,p-XyleneND8.0µg/L16 02/09/2011 19:2656104o-XyleneND8.0µg/L16 02/09/2011 19:2656104Surrogate: Dibromofluoromethane10188-124%REC16 02/09/2011 19:2656104Surrogate: 1,2-Dichloroethane-d489.979-115%REC16 02/09/2011 19:2656104Surrogate: Toluene-d897.580-114%REC16 02/09/2011 19:2656104		300	8.0 µg/L	16 02/09/2011 19:26	56104
1,1,2-TrichloroethaneND8.0µg/L16 02/09/2011 19:2656104TetrachloroetheneND8.0µg/L16 02/09/2011 19:2656104ChlorobenzeneND8.0µg/L16 02/09/2011 19:2656104EthylbenzeneND8.0µg/L16 02/09/2011 19:2656104m,p-XyleneND8.0µg/L16 02/09/2011 19:2656104o-XyleneND8.0µg/L16 02/09/2011 19:2656104Surrogate: Dibromofluoromethane10188-124%REC16 02/09/2011 19:2656104Surrogate: 1,2-Dichloroethane-d489.979-115%REC16 02/09/2011 19:2656104Surrogate: Toluene-d897.580-114%REC16 02/09/2011 19:2656104		ND	8.0 µg/L	16 02/09/2011 19:26	56104
Tetrachloroethene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Chlorobenzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Ethylbenzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 m,p-Xylene ND 8.0 µg/L 16 02/09/2011 19:26 56104 o-Xylene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Surrogate: Dibromofluoromethane 101 88-124 %REC 16 02/09/2011 19:26 56104 Surrogate: 1,2-Dichloroethane-d4 89.9 79-115 %REC 16 02/09/2011 19:26 56104 Surrogate: Toluene-d8 97.5 80-114 %REC 16 02/09/2011 19:26 56104		ND	8.0 µg/L	16 02/09/2011 19:26	56104
Chlorobenzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Ethylbenzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 m,p-Xylene ND 8.0 µg/L 16 02/09/2011 19:26 56104 o-Xylene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Surrogate: Dibromofluoromethane 101 88-124 %REC 16 02/09/2011 19:26 56104 Surrogate: 1,2-Dichloroethane-d4 89.9 79-115 %REC 16 02/09/2011 19:26 56104 Surrogate: Toluene-d8 97.5 80-114 %REC 16 02/09/2011 19:26 56104		ND	8.0 μg/L	16 02/09/2011 19:26	56104
Ethylbenzene ND 8.0 µg/L 16 02/09/2011 19:26 56104 m,p-Xylene ND 8.0 µg/L 16 02/09/2011 19:26 56104 o-Xylene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Surrogate: Dibromofluoromethane 101 88-124 %REC 16 02/09/2011 19:26 56104 Surrogate: 1,2-Dichloroethane-d4 89.9 79-115 %REC 16 02/09/2011 19:26 56104 Surrogate: Toluene-d8 97.5 80-114 %REC 16 02/09/2011 19:26 56104		ND	8.0 µg/L	16 02/09/2011 19:26	56104
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o-Xylene ND 8.0 µg/L 16 02/09/2011 19:26 56104 Surrogate: Dibromofluoromethane 101 88-124 %REC 16 02/09/2011 19:26 56104 Surrogate: 1,2-Dichloroethane-d4 89.9 79-115 %REC 16 02/09/2011 19:26 56104 Surrogate: Toluene-d8 97.5 80-114 %REC 16 02/09/2011 19:26 56104		ND	8.0 µg/L	16 02/09/2011 19:26	56104
Surrogate: Dibromofluoromethane 101 88-124 %REC 16 02/09/2011 19:26 56104 Surrogate: 1,2-Dichloroethane-d4 89.9 79-115 %REC 16 02/09/2011 19:26 56104 Surrogate: 1,2-Dichloroethane-d4 97.5 80-114 %REC 16 02/09/2011 19:26 56104 Surrogate: Toluene-d8 97.5 80-114 %REC 16 02/09/2011 19:26 56104		ND	8.0 µg/L	16 02/09/2011 19:26	56104
Surrogate: 1,2-Dichloroethane-d4 89.9 79-115 %REC 16 02/09/2011 19:26 56104 Surrogate: Toluene-d8 97.5 80-114 %REC 16 02/09/2011 19:26 56104		101	88-124 %REC	16 02/09/2011 19:26	56104
Surrogate: Toluene-d8 97.5 80-114 %REC 16 02/09/2011 19:26 56104 Surrogate: Toluene-d8 97.5 80-124 %REC 16 02/09/2011 19:26 56104		89.9	79-115 %REC	16 02/09/2011 19:26	56104
Sundgale. Holdene-60		97.5	80-114 %REC	16 02/09/2011 19:26	56104
		85.6		16 02/09/2011 19:26	56104

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

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

Date: 15-Feb-11

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-1 Lab ID: K0149-03 **Project:** NOW Corp. Site **Collection Date:** 01/26/11 11:50

Analyses	Result	Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS (25 mL Purge)					SW8260_25_W
Vinvl chloride	ND		1.0 µg/L	2 02/09/2011 19:55	56104
Chloroethane	ND		1.0 µg/L	2 02/09/2011 19:55	56104
1,1-Dichloroethene	12		1.0 µg/L	2 02/09/2011 19:55	56104
trans-1,2-Dichloroethene	ND		1.0 µg/L	2 02/09/2011 19:55	56104
Methyl tert-butyl ether	ND		1.0 µg/L	2 02/09/2011 19:55	56104
1.1-Dichloroethane	54		1.0 µg/L	2 02/09/2011 19:55	56104
cis-1,2-Dichloroethene	3.1		1.0 µg/L	2 02/09/2011 19:55	56104
1,1,1-Trichloroethane	1.8		1.0 µg/L	2 02/09/2011 19:55	56104
1,2-Dichloroethane	ND	· .	1.0 µg/L	2 02/09/2011 19:55	56104
Benzene	ND		1.0 µg/L	2 02/09/2011 19:55	56104
Trichloroethene	61		1.0 µg/L	2 02/09/2011 19:55	56104
Toluene	ND		1.0 µg/L	2 02/09/2011 19:55	56104
1,1,2-Trichloroethane	ND		1.0 µg/L	2 02/09/2011 19:55	56104
Tetrachloroethene	ND		1.0 µg/L	2 02/09/2011 19:55	56104
Chlorobenzene	ND		1.0 µg/L	2 02/09/2011 19:55	56104
Ethylbenzene	ND		1.0 µg/L	2 02/09/2011 19:55	56104
m,p-Xylene	ND		1.0 µg/L	2 02/09/2011 19:55	56104
o-Xylene	ND		1.0 µg/L	2 02/09/2011 19:55	56104
Surrogate: Dibromofluoromethane	103		88-124 %REC	2 02/09/2011 19:55	56104
Surrogate: 1.2-Dichloroethane-d4	98.0		79-115 %REC	2 02/09/2011 19:55	56104
Surrogate: Toluene-d8	112		80-114 %REC	2 02/09/2011 19:55	56104
Surrogate: Bromofluorobenzene	104		60-123 %REC	2 02/09/2011 19:55	56104

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

0013

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

Date: 15-Feb-11

Client: AECOM Technical Services, Inc. Client Sample ID: TW-2A Lab ID: K0149-04

Project: NOW Corp. Site Collection Date: 01/26/11 11:55

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS (25 mL Purge)			SM	/8260_25_W
	ND	13 µg/L	25 02/09/2011 20:24	56104
Vinyl chloride Chloroethane	ND	13 µg/L	25 02/09/2011 20:24	56104
1.1-Dichloroethene	ND	13 µg/L	25 02/09/2011 20:24	56104
	ND	13 µg/L	25 02/09/2011 20:24	56104
trans-1,2-Dichloroethene	ND	13 µg/L	25 02/09/2011 20:24	56104
Methyl tert-butyl ether	180	13 µg/L	25 02/09/2011 20:24	56104
1,1-Dichloroethane	15	13 μg/L	25 02/09/2011 20:24	56104
cis-1,2-Dichloroethene	480	13 µg/L	25 02/09/2011 20:24	56104
1,1,1-Trichloroethane	ND	13 µg/L	25 02/09/2011 20:24	56104
1,2-Dichloroethane	ND	13 µg/L	25 02/09/2011 20:24	56104
Benzene	440	13 µg/L	25 02/09/2011 20:24	56104
	ND	13 µg/L	25 02/09/2011 20:24	56104
Toluene	ND	13 µg/L	25 02/09/2011 20:24	56104
1,1,2-Trichloroethane	ND	13 µg/L	25 02/09/2011 20:24	56104
Tetrachloroethene	ND	13 µg/L	25 02/09/2011 20:24	56104
Chlorobenzene	ND	13 µg/L	25 02/09/2011 20:24	56104
Ethylbenzene	ND	13 μg/L	25 02/09/2011 20:24	56104
m,p-Xylene		13 μg/L	25 02/09/2011 20:24	56104
o-Xylene	ND	88-124 %REC	25 02/09/2011 20:24	56104
Surrogate: Dibromofluoromethane	102		25 02/09/2011 20:24	56104
Surrogate: 1,2-Dichloroethane-d4	109	79-115 %REC	25 02/09/2011 20:24	56104
Surrogate: Toluene-d8	107	80-114 %REC		56104
Surrogate: Bromofluorobenzene	85,7	60-123 %REC	25 02/09/2011 20:24	50104

Qualifiers:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quanititation limits
- B Analyte detected in the associated Method Blank

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

Date: 15-Feb-11

Client: AECOM Technical Services, Inc.

Client Sample ID: TW-3

Lab ID: K0149-05

Project: NOW Corp. Site Collection Date: 01/26/11 12:00

Analyses	Result Qual	RL Units	DF Date Analyzed Batch ID
SW846 8260C VOC by GC-MS (25 mL Purge)			SW8260_25_W
Vinyl chloride	ND	0.50 µg/L	1 02/09/2011 20:53 56104
Chloroethane	ND	0.50 µg/L	1 02/09/2011 20:53 56104
1,1-Dichloroethene	1.9	0.50 µg/L	1 02/09/2011 20:53 56104
trans-1,2-Dichloroethene	ND	0.50 µg/L	1 02/09/2011 20:53 56104
Methyl tert-butyl ether	ND	0.50 µg/L	1 02/09/2011 20:53 56104
1,1-Dichloroethane	16	0.50 µg/L	1 02/09/2011 20:53 56104
cis-1,2-Dichloroethene	ND	0.50 µg/L	1 02/09/2011 20:53 56104
1,1,1-Trichloroethane	5.5	0.50 µg/L	1 02/09/2011 20:53 56104
1,2-Dichloroethane	ND	0.50 µg/L	1 02/09/2011 20:53 56104
Benzene	ND	0.50 µg/L	1 02/09/2011 20:53 56104
Trichloroethene	17	0.50 µg/L	1 02/09/2011 20:53 56104
Toluene	ND	0.50 µg/L	1 02/09/2011 20:53 56104
1,1,2-Trichloroethane	ND	0.50 µg/L	1 02/09/2011 20:53 56104
Tetrachloroethene	ND	0.50 µg/L	1 02/09/2011 20:53 56104
Chlorobenzene	ND	0.50 µg/L	1 02/09/2011 20:53 56104
Ethylbenzene	ND	0.50 µg/L	1 02/09/2011 20:53 56104
m,p-Xylene	ND	0.50 µg/L	1 02/09/2011 20:53 56104
o-Xylene	ND	0.50 µg/L	1 02/09/2011 20:53 56104
Surrogate: Dibromofluoromethane	106	88-124 %REC	1 02/09/2011 20:53 56104
Surrogate: 1,2-Dichloroethane-d4	105	79-115 %REC	1 02/09/2011 20:53 56104
Surrogate: Toluene-d8	105	80-114 %REC	1 02/09/2011 20:53 56104
Surrogate: Bromofluorobenzene	86.5	60-123 %REC	1 02/09/2011 20:53 56104

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Date: 15-Feb-11

Client: AECOM Technical Services, Inc. Client Sample ID: TRIP BLANK Lab ID: K0149-06

Project:NOW Corp. SiteCollection Date:01/26/11 0:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C VOC by GC-MS (25 mL Purge)		S	W8260_25_W
Vinyl chloride	ND	0.50 µg/L	1 02/09/2011 21:22	56104
Chloroethane	ND	0.50 µg/L	1 02/09/2011 21:22	56104
1,1-Dichloroethene	ND	0.50 µg/L	1 02/09/2011 21:22	56104
trans-1,2-Dichloroethene	ND	0.50 µg/L	1 02/09/2011 21:22	56104
Methyl tert-butyl ether	ND	0.50 µg/L	1 02/09/2011 21:22	56104
1,1-Dichloroethane	ND	0.50 µg/L	1 02/09/2011 21:22	56104
cis-1,2-Dichloroethene	ND	0.50 µg/L	1 02/09/2011 21:22	56104
1,1,1-Trichloroethane	ND	0.50 µg/L	1 02/09/2011 21:22	56104
1,2-Dichloroethane	ND	0.50 µg/L	1 02/09/2011 21:22	56104
Benzene	ND	0.50 µg/L	1 02/09/2011 21:22	56104
Trichloroethene	ND	0.50 µg/L	1 02/09/2011 21:22	56104
Toluene	ND	0.50 µg/L	1 02/09/2011 21:22	56104
1,1,2-Trichloroethane	ND	0.50 µg/L	1 02/09/2011 21:22	56104
Tetrachloroethene	ND ND	0.50 µg/L	1 02/09/2011 21:22	56104
Chlorobenzene	ND	0.50 µg/L	1 02/09/2011 21:22	56104
Ethylbenzene	ND	0.50 µg/L	1 02/09/2011 21:22	56104
m,p-Xylene	ND	0.50 µg/L	1 02/09/2011 21:22	56104
o-Xylene	ND	0.50 µg/L	1 02/09/2011 21:22	56104
Surrogate: Dibromofluoromethane	108	88-124 %REC	1 02/09/2011 21:22	56104
Surrogate: 1,2-Dichloroethane-d4	104	79-115 %REC	1 02/09/2011 21:22	56104
Surrogate: Toluene-d8	104	80-114 %REC	1 02/09/2011 21:22	56104
Surrogate: Bromofluorobenzene	80.1	60-123 %REC	1 02/09/2011 21:22	56104

Qualifiers:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quanititation limits
- B Analyte detected in the associated Method Blank

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

Work Order: K0149 Project: NOW Corp. Site											
			SWS	SW8260 25 W							
	o. Site		3MS	SW846 8260C VOC by GC-MS (25 mL Purge)	/OC by GC-I	MS (25 ml	, Purge)				
Sample ID: MB-56104	SampType: MBLK	TestCod	TestCode: SW8260_25_W		Prep Date:	e: 02/09/11 6:55	:55	Run ID: V5_110209A	209A		
Client ID: MB-56104	Batch ID: 56104	Unit	Units: µg/L		Analysis Date:	e: 02/09/11 18:28	8:28	SeqNo: 1476877	7		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val		%REC LowLimit HighLimit	hLimit RPD Ref Val		%RPD RPDLimit	Qual
Vinyl chloride	DN	0.15	0.50								
Chloroethane	ΠN	0.24	0.50								
1,1-Dichloroethene	QN	0.19	0.50								
trans-1,2-Dichloroethene	QN	0.14	0.50								
Methyl tert-butyl ether	ŪN	0.13	0.50								
1,1-Dichloroethane	ΠN	0.18	0.50								
cis-1,2-Dichloroethene	QN QN	0.19	0.50								
1.2-Dichloroethane	QN AN	0.16	0.50								
Renzene Benzene	QN	0.12	0.50								
Trichloroethene	ND	0.13	0.50								
Toluene	QN	0.14	0.50								
1,1,2-Trichloroethane	DN	0.20	0.50								
Tetrachloroethene	ND	0.17	0.50								
Chlorobenzene	ΠN	0.13	0.50								
Ethylbenzene	ΩN	0.13	0.50								
m,p-Xylene	QN	0.22	0.50								
o-Xylene	ΠΝ	0.17	0.50								
Surrogate: Dibromofluoromethane	10.19		0.50	10.00	0	102	88	124 0			
Surrogate: 1,2-	10.67		0.50	10.00	0	107	62	115 0			
Dichloroethane-d4											
Surrogate: Toluene-d8	10.21		0.50	10.00	0	102	80				
Surrogate: Bromofluorobenzene	9.067		0.50	10.00	0	90.7	60	123 0			
Outsite and ND Not Detected of	ND Not Detroited of the Demotion I limit	0 D00000	C Dominant and another limits		MDI Mathead Date of the						

Date: 02/15/2011 10-21

fork Order: ojject: ample ID: LCS-56 anyl chloride nyl chloride noroethane ans-1,2-Dichloroethane ethyl tert-butyl ethe ethyl tert-butyl ethe 1,1-Trichloroethane 1,1-Trichloroethane 1,1-Trichloroethane errachoroethane errachoroethane arsene 1,2-Trichloroethane enzene nichloroethane errachloroethane Surrogate: Surrogate: Surrogate: Toluene ND-Muorobenzene	CLIENT: AECO	AECOM Technical Services, Inc.			ANALY	ANALYTICAL QC SUMMARY REPORT	C SUMN	AARY	REPO	DRT		
Operation Non-rotation Earl Desire Section Tarlocoles: SN2260, 26, W Prep Desire CO0811 6:55 Ru Ru Bien (L) LCS66104 Sam(P) (Pie (LC3) Tarlocoles: SN2260, 26, W Amysis Date: CO0811 6:55 Ru So	ler:	l9 7 Com Site		SWS	1	OC by GC-M	IS (25 mL	Purge)				
annylation Samplyate LCS Tenclode: SWR280, 2.4 , N Prep Date C203011 6.55 Rule						,						
Interfact Description Ontext part Constrained Constrained <thconstrained< th=""> <thconstrained< th=""></thconstrained<></thconstrained<>	Sample ID: 1 CS-56104	SampType: LCS	TestCod	le: SW8260_25_W		Prep Date:		:55	Run II): V5_110209A		
aye Rait MD. R. K. MD. R. R. MD. R.	Client ID: LCS-56104	Batch ID: 56104	Unit	s: µg/L		Analysis Date:		7:30	SeqN	o: 1476875		
Questioned 0.13 0.13 0.10 0 94.5 71 125 Questioned 9,450 0.13 0.13 0.10 0 11 12 Chorkoethene 11.07 0.14 0.50 0.13 0.50 110.00 0 11 12 Chorkoethene 11.07 0.14 0.50 0.10 0 94.5 12 Chorkoethene 11.07 0.11 0.50 10.00 0 14 12 Chorkoethene 11.07 0.11 0.50 10.00 0 14 12 Chorkoethene 10.37 0.11 0.50 10.00 0 124 124 Chorkoethene 0.12 0.11 0.50 10.00 0 124 124 Chorkoethene 0.12 0.11 0.50 10.00 0 124 124 Chorkoethene 0.11 0.11 0.11 0.11 0.50 10.00 0 124	Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC Lov	wLimit Hig	hLimit	RPD Ref Val		1
Operating 5,400 0.21 0.20 10,00 0 9,43 74 73 73 74 73 74 73 74 73 74 73 74 73 74 73 74 73 74 73 74 73 74 73 74 73 74 73 74 73 74 73 74 73 74 73 74 73 73 74 73 73 74 73 74 73 74 73 74 73 74 73 74 <th></th> <th>a 292</th> <th>0.15</th> <th>0.50</th> <th>10.00</th> <th>0</th> <th>92.9</th> <th>LL</th> <th>120</th> <th>0</th> <th></th> <th></th>		a 292	0.15	0.50	10.00	0	92.9	LL	120	0		
Openation 0.10 0.10 0.11 0.1 0.11	Vinyl chloride	0.450 0.450	0.24	0.50	10.00	0	94.5	75	135	0		
Transformetion 110 0.14 0.50 100 0 11 60 137 Transformetione 1.03 0.11 0.50 100 0 94.1 61 134 Tobbiooretine 1.03 0.11 0.50 100.00 0 94.1 61 134 Tobbiooretine 10.33 0.11 0.50 100.00 0 144 61 134 Zobbiooretine 10.37 0.11 0.50 100.00 0 144 61 134 Zobbiooretine 10.37 0.11 0.50 100.00 0 134 61 137 Zobbiooretine 10.77 0.13 0.50 10.00 0 134 131 Zobbiooretine 10.77 0.11 0.50 10.00 0 134 132 Globooretine 9.317 0.11 0.50 10.00 0 111 14 144 Zobbiooretine 11.06 0.11 <td< td=""><th>Chloroethane</th><td>00 10 10</td><td>0.19</td><td>0.50</td><td>10.00</td><td>0</td><td>101</td><td>81</td><td>125</td><td>0</td><td></td><td></td></td<>	Chloroethane	00 10 10	0.19	0.50	10.00	0	101	81	125	0		
American 5.40 0.13 0.50 10.00 0 94.1 61 134 1.11/Ichanorehane 9.10 0.11 0.50 10.00 0 94.1 61 124 1.11/Ichanorehane 9.13 0.11 0.50 10.00 0 94.1 61 124 2.016/norehane 9.13 0.12 0.50 10.00 0 94.1 61 124 2.016/norehane 9.13 0.12 0.50 10.00 0 94.3 61 124 2.016/norehane 9.13 0.12 0.50 10.00 0 94.3 61 124 2.016/norehane 9.13 0.12 0.50 10.00 0 94.3 61 124 2.016/norehane 9.13 0.12 0.13 0.50 10.00 0 94.3 124 2.016/norehane 9.13 0.12 0.13 0.50 10.00 0 94.3 124 1.217/nichtorehane <th>1,1-Dichloroethene</th> <td>11.07</td> <td>0.14</td> <td>0.50</td> <td>10.00</td> <td>0</td> <td>111</td> <td>60</td> <td>137</td> <td>0</td> <td></td> <td></td>	1,1-Dichloroethene	11.07	0.14	0.50	10.00	0	111	60	137	0		
Environment 5.38 0.18 0.50 10.00 0 9.40 82 110 7.17(chlorosthame 10.37 0.119 0.36 10.00 0 104 82 124 2.Dichlorosthame 10.37 0.119 0.36 10.00 0 104 84 124 2.Dichlorosthame 10.77 0.12 0.50 10.00 0 104 84 112 2.Dichlorosthame 10.77 0.13 0.50 10.00 0 104 84 112 entered 0.13 0.50 10.00 0 943 82 112 entered 9.435 0.11 0.50 10.00 0 943 82 112 entered 9.435 0.13 0.13 0.50 10.00 0 943 82 entere 11.0 0.13 0.50 10.00 0 914 114 entere 11.0 0.12 0.13 <td< td=""><th>trans-1, 2-Dicnioroeuterie</th><td>9.407</td><td>0.13</td><td>0.50</td><td>10.00</td><td>0</td><td>94.1</td><td>61</td><td>134</td><td>0</td><td></td><td></td></td<>	trans-1, 2-Dicnioroeuterie	9.407	0.13	0.50	10.00	0	94.1	61	134	0		
All contentions 10.37 0.19 0.56 10.00 0 104 64 115 11-11/controlations 0.11 0.56 0.00 0 94.9 66 113 11-11/controlations 0.12 0.56 10.00 0 94.9 66 113 11-11/controlations 0.12 0.56 10.00 0 94.3 66 113 0.11/controlations 9.133 0.12 0.50 10.00 0 94.3 67 113 0.11/controlations 9.133 0.12 0.50 10.00 0 94.3 113 0.11/controlations 9.13 0.13 0.50 10.00 0 94.4 113 0.11/controlation 0.11 0.50 10.00 0 114 114 0.11/controlation 0.11 0.50 10.00 0 111 11 114 0.11/controlation 0.11 0.11 0.12 0.10 0.11 114 <th>Methyr tert-buryr eurer 1 1 Dichloroethane</th> <td>9.398</td> <td>0.18</td> <td>0.50</td> <td>10.00</td> <td>0</td> <td>94.0</td> <td>82</td> <td>120</td> <td>0</td> <td></td> <td></td>	Methyr tert-buryr eurer 1 1 Dichloroethane	9.398	0.18	0.50	10.00	0	94.0	82	120	0		
10.33 0.11 0.55 10.00 0 104 80 1.24 10.46 0.13 0.50 10.00 0 104 81 121 10.46 0.11 0.50 10.00 0 94.4 81 121 9.475 0.13 0.50 10.00 0 94.4 81 121 9.433 0.214 0.50 10.00 0 94.4 81 121 9.435 0.17 0.50 10.00 0 94.4 81 121 9.435 0.17 0.50 10.00 0 94.4 81 121 9.435 0.17 0.50 10.00 0 91.8 114 11.06 0.13 0.50 10.00 0 101 81 124 11.10 0.17 0.50 10.00 0 101 81 124 10.06 0.12 0.50 10.00 0 101 81 <th>r, 1-Dichtoroethene</th> <td>10.37</td> <td>0.19</td> <td>0.50</td> <td>10.00</td> <td>0</td> <td>104</td> <td>84</td> <td>116</td> <td>0</td> <td></td> <td></td>	r, 1-Dichtoroethene	10.37	0.19	0.50	10.00	0	104	84	116	0		
Chromoethane 9.467 0.16 0.50 10.00 0 95.13 121 Controlement 10.77 0.11 0.50 10.00 0 95.13 121 Colorentene 10.77 0.11 0.50 10.00 0 95.13 121 Colorentene 9.730 0.21 0.50 10.00 0 95.13 121 Colorentene 9.745 0.11 0.50 10.00 0 95.13 121 Colorentene 9.745 0.11 0.50 10.00 0 95.13 121 Motobarsene 11.0 0.13 0.50 10.00 0 91.4 83 123 Motobarsene 11.00 0.11 0.50 10.00 0 91.4 114 Surrogate: 10.00 0.11 0.50 10.00 0 91.4 114 Surrogate: 10.00 0.10 0 10.00 0 101 114 Su	1 1 1-Trichloroethane	10.39	0.11	0.50	10.00	0		08	124	5		
enzere 10.46 0.12 0.50 10.00 0 103 74 121 (12.7) 0.13 0.55 10.00 0 97.3 66 117 (12.7) 0.13 0.50 10.00 0 97.3 68 112 (12.7) 0.13 0.50 10.00 0 97.3 68 112 (12.7) 0.13 0.50 10.00 0 97.3 68 112 (12.7) 0.13 0.50 10.00 0 111 97 114 h(benchmen 9.11 0.12 0.12 0.50 10.00 0 114 h(benchmen 9.11 0.12 0.12 0.11 97 114 h(benchmen 11.10 0.17 0.12 0.10 0 114 114 N(bench 11.10 0.17 0.10 0 10 11 114 Surgate: 11.10 11.2 0.50	1.2-Dichloroethane	9.487	0.16	0.50	10.00	0 0		ο τ ο	101 101			
Circleroethene 10.77 0.13 0.50 10.00 0 97.3 88 117 (1.7)Treinformethene 9.733 0.14 0.550 10.00 0 97.4 85 111 (1.7)Treinformethene 9.743 0.11 0.550 10.00 0 97.4 85 111 (1.7)Treinformethene 9.743 0.11 0.550 10.00 0 97.1 111 (1.7)Treinformethene 9.743 0.13 0.50 10.00 0 97.1 111 (1.7)Treinformethene 9.743 0.13 0.50 10.00 0 97.1 111 (1.7)Treinformethene 0.11 0.17 0.50 10.00 0 111 87 114 (1.7)Support 0.17 0.50 10.00 0 101 87 114 (2.7)Support 0.10 0.10 0 10.00 0 114 114 Support 10.06 0.10 0.10	Benzene	10.46	0.12	0.50	10.00	0.0	50T	-1 F	122	» с		
Othere 9,730 0.14 0.50 10.00 0 9,43 93 111 1,17:Troincentrane 9,43 0.17 0.50 10.00 0 9,43 93 111 1,17:Troincentrane 9,41 0.13 0.50 10.00 0 94,4 93 111 Monoberaene 9,41 0.13 0.50 10.00 0 111 87 114 MyNeme 11.10 0.17 0.50 10.00 0 111 87 114 MyNeme 11.10 0.17 0.50 10.00 0 111 87 114 MyNeme 11.10 0.17 0.50 10.00 0 111 87 114 MyNeme 11.10 0.17 0.50 10.00 0 101 89 114 Surrogate: 11.2 9.81 10.00 0 102 80 114 Surrogate: 10.23 0.50 10.00	Trichloroethene	10.77	0.13	0.50	10.0U	5 0	00 T	r 8	117			
(1,2-Trichloreethane 9,439 0.20 0.50 10.00 0 97.3 7.4 incachioncethane 9,745 0.11 0.55 10.00 0 91.4 114 incachioncethane 9,745 0.11 0.50 10.00 0 91.4 114 incachioncethane 9,817 0.11 0.11 0.50 10.00 0 91.4 114 inplomation 11.105 0.11 0.11 0.11 0.50 10.00 0 114 Whene 11.106 0.11 0.11 0.11 0.10 0 114 Surgate: 11.00 0.11 0.11 0.50 10.00 0 114 Surgate: 10.06 0.10 0.050 10.00 0 114 Surgate: 10.06 0.10 0.050 10.00 0 114 Surgate: 10.06 0.10 0.050 10.00 0 114 Surgate: 10.06 0.10 0.00 0 101 0 114 Surgate: 10.06 0.10 0 10.00 0 114 Surgate: 10.06 0 10.00 0 104	Toluene	9.730	0.14	0.50	00 01	5 0	0.10	5 C C	121) C		
errachloroeftene 9.145 0.17 0.50 10.00 0 91.1 incohenzene 9.145 0.17 0.50 10.00 0 111 87 114 incohenzene 11.05 0.17 0.50 10.00 0 111 87 114 iporberzene 11.05 0.17 0.50 10.00 0 111 87 114 Xyene 11.10 0.17 0.50 10.00 0 101 89 124 Xyene 11.10 0.17 0.50 10.00 0 101 89 124 Xyene 10.06 0.17 0.50 10.00 0 101 89 124 Xingate: 10.06 0.17 0.50 10.00 0 101 89 124 Sungate: 10.01 0.10 0 10.00 0 102 0 114 Sungate: 10.41 0.50 10.00 0 10.00 0 114 Sungate: 10.41 0.50 10.00 0 102 0 114 Sungate: 10.41 10.23 0.50 10.00 0 102 0 123 </td <th>1,1,2-Trichloroethane</th> <td>9.439</td> <td>0.20</td> <td>0.50</td> <td>10.00</td> <td>5 c</td> <td>94.4 07 F</td> <td>CO DL</td> <td>1 1 1</td> <td>0</td> <td></td> <td></td>	1,1,2-Trichloroethane	9.439	0.20	0.50	10.00	5 c	94.4 07 F	CO DL	1 1 1	0		
Monobalizate 9.817 0.113 0.50 1000 0 111 67 110 Mylberzene 11.05 0.13 0.50 10.00 0 111 87 114 Vp/strate 11.10 0.17 0.50 10.00 0 111 87 114 Xylene 11.10 0.17 0.50 10.00 0 111 87 114 Xylene 11.10 0.17 0.50 10.00 0 101 87 124 Xylene 10.06 0.17 0.50 10.00 0 111 87 124 Xylene 10.41 0.50 10.00 0 102 80 124 Surrogate: 10.41 0.50 10.00 0 102 80 123 Surrogate: 10.123 0.50 10.00 0 102 90 123 Surrogate: 10.123 0.50 10.00 0 102 10 </td <th>Tetrachloroethene</th> <td>9.745</td> <td>0.17</td> <td>0.50</td> <td></td> <td></td> <td>98.2</td> <td>- 60 - 80</td> <td>112</td> <td>0</td> <td></td> <td></td>	Tetrachloroethene	9.745	0.17	0.50			98.2	- 60 - 80	112	0		
thylbenzene 11.05 0.13 0.50 20.00 0 111 87 114 Tychne 12.10 0.22 0.50 10.00 0 101 84 124 Surrogate: 10.06 0.17 0.50 10.00 0 101 84 124 Surrogate: 10.06 0.17 0.50 10.00 0 101 86 124 Surrogate: 10.01 0.17 0.50 10.00 0 104 60 123 Surrogate: 10.23 0.50 10.00 0 104 60 123 Surrogate: 10.10 0 0 10.00 0 104 60 123 Surrogate:	Chlorobenzene	9.817	0.13	00		o c	111	87	110	0		S
Tp:Xylene 22:10 0.17 0.22 0.00 0 111 84 114 Xyneae: 11.10 0.17 0.50 10.00 0 101 88 124 Xyneae: 10.06 0.17 0.50 10.00 0 91.8 79 115 Surrogate: 10.23 0.50 10.00 0 92.8 79 114 Surrogate: 10.41 0.50 10.00 0 103 80 123 Surrogate: 10.23 0.50 10.00 0 104 60 123 Surrogate: 10.41 10.00 0 104 60 123 Surrogate: 10.41 10.00 0 10	Ethylbenzene	11.05	0.13	0.50		5 C		87	114	0		
Xylene 11.10 0.17 0.10 0.10 0.11 0.10 0.11 11.10 Surrogate: 10.06 0.10 0.50 10.00 0 101 88 124 Surrogate: 9.881 10.06 0.50 10.00 0 98.8 79 114 Surrogate: 10.23 0.50 10.00 0 104 60 123 Surrogate: 10.41 0.50 10.00 0 104 60 123 Surrogate: 10.41 0.50 10.00 0 104 60 123 Surrogate: 0.50 10.00 0 104 60 123 Surrogate: 0.50 10.00 0 104 60 123 Suropate: 0.51 0.50 10.00 0 104 60 123 Suropate: Suropate: 0.50 10.00 0 104 60 123 Suropate: 0.50	m,p-Xylene	22.10	0.22	0.50			+ - + + + +	84	114	0		
Surrogate: 10.06 0.50 10.00 0 99.8 79 115 Surrogate: 12. 9.891 0.50 10.00 0 99.8 79 114 Surrogate: Tolenne-d4 Surrogate: Tolenne-d8 10.41 0.23 0.50 10.00 0 104 60 123 Surrogate: Tolenne-d8 10.41 0.00 0 104 60 123	o-Xylene	11.10	0.17	0.50	10 00		101	5 88	124	0		
Brunogate: 9.881 0.50 10.00 0 98.8 79 115 Brunogate: 10.123 0.50 10.00 0 104 60 123 Surrogate: 10.41 S. Surrogate: 10.50 101.00 0 104 60 123 Surrogate: ND-NotDetected at the Reporting Limit S. Recovery outside accepted recovery limits MD1Method Detection Limit	Surrogate:	10.06) • •) 						
Surrogate: 1.2. Distribution Surrogate: Tolutened8 10.23 0.50 10.00 0 104 60 123 Surrogate: 10.41 0.010 0 104 60 123 Surrogate: 10.41 0.00 0 104 60 123 Surrogate: 10.41 0.00 0 104 60 123 Surrogate: 10.41 S. Reovery outside accepted recovery limits MDL - Method Detection Limit allow 1.2.4 J. Analyte detected below quantitation limits R. RPD outside accepted recovery limits RL. Reporting Limit allow 1.2.4 J. Analyte detected below quantitation limits R. RPD outside accepted recovery limits RL. Reporting Limit	Dibromofluoromethane	0 881		0.50	10.00	0	98.8	67	115	0		
Outlotrone 10.23 0.50 10.00 0 102 80 114 Surrogate: 0.50 10.00 0 104 60 123 Surrogate: 0.50 10.00 0 104 60 123 Stornofluorobenzene 0.50 10.00 0 104 60 123 Stornofluorobenzene 0.50 10.00 0 104 60 123 Gualiffers: ND-Not Detected at the Reporting Limit S-Recovery outside accepted recovery limits MDL-Method Detection Limit miotosi.t J-Analyte detected below quanititation limits R-RPD outside accepted recovery limits RL-Reporting Limit	Surrogate: 1,2-	100.0										
Surrogate: 0.50 10.00 0 104 60 123 Surrogate: 0.50 10.00 0 104 60 123 Surrogate: 0.50 10.01 0 104 60 123 Surrogate: 0.50 10.01 0 104 60 123 Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit allosi 1.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit	Dicritol Detriane-u4	10.23		0.50	10.00	0	102	80	114	0		
Stomofluorobenzene Stomofluorobenzene Joundfures: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit and 008.12 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit RL - Reporting Limit				0.50	10.00	0	104	60	123	0		
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit mloss i:A J - Analyte detected below quanititation limits R - RPD outside accepted recovery limits RL - Reporting Limit	Surrogate. Bromofluorobenzene											
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit aloos 12.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit												
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit mlotos 12.A J - Analyte detected below quantitation limits R - Reporting Limit RL - Reporting Limit												
Oualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit m1008.12A J - Analyte detected below quantitration limits R - RPD outside accepted recovery limits RL - Reporting Limit												
Oualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit M108.12A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit												
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit m1008.12.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit												
Qualifiers:ND - Not Detected at the Reporting LimitS - Recovery outside accepted recovery limitsMDL - Method Detection Limitmiloos 12.AJ - Analyte detected below quantitation limitsR - RPD outside accepted recovery limitsRL - Reporting Limit												
Qualifiers:ND - Not Detected at the Reporting LimitS - Recovery outside accepted recovery limitsMDL - Method Detection Limitmiloos 12.AJ - Analyte detected below quantitation limitsR - RPD outside accepted recovery limitsRL - Reporting Limit												
Qualifiers:ND - Not Detected at the Reporting LimitS - Recovery outside accepted recovery limitsMDL - Method Detection Limitmioos 12.AJ - Analyte detected below quantitation limitsR - RPD outside accepted recovery limitsRL - Reporting Limit												
Qualifiers:ND - Not Detected at the Reporting LimitS - Recovery outside accepted recovery limitsMDL - Method Detection Limitm1008.12.AJ - Analyte detected below quantitation limitsR - RPD outside accepted recovery limitsRL - Reporting Limit												
Qualifiers:ND - Not Detected at the Reporting LimitS - Recovery outside accepted recovery limitsMDL - Method Detection Limitm100812.AJ - Analyte detected below quantitation limitsR - RPD outside accepted recovery limitsRL - Reporting Limit												
Qualifiers:ND - Not Detected at the Reporting LimitS - Recovery outside accepted recovery limitsMDL - Method Detection Limitm100812.AJ - Analyte detected below quantitation limitsR - RPD outside accepted recovery limitsRL - Reporting Limit												
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit motors 12.A J - Analyte detected below quantitiation limits R - RPD outside accepted recovery limits RL - Reporting Limit												
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit m10.08.12.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit												
rs: NID - Not Detected at the Reporting Limit 5 - Accord outside accepted recovery limits 1 - Analyte detected below quantititation limits R - RPD outside accepted recovery limits			Damanoo (L D	outside accented recove		- Method Detection	Limit		в.	Analyte detected	l in the associated M	ethod Blank
J - Analyte detected below quantitation limits K - KPD outside accepted recovery muus	ž	Jetected at the Reporting Limit		il monore Fitter - F.		Renorting I imit						
		detected below quantitation limit		side accepteu recovery m		Annual Summeday						

CLIENT: AECOM Te	AECOM Technical Services, Inc.			ANALY	ANALYTICAL QC SUMMARY REPORT	SUMN	IARY	REPO	RT			
der:			SWS	SW8260_25_W								
Project: NOW Corp. Site	Site		SW	SW846 8260C V	VOC by GC-MS (25 mL Purge)	S (25 mL	Purge)					
Sample ID: LCSD-56104	SampType: LCSD	TestCode:	TestCode: SW8260_25_W		Prep Date:	02/09/11 6:55	55	Run ID:	Run ID: V5_110209A			
Client ID: LCSD-56104	Batch ID: 56104	Units: µg/L	µg/L		Analysis Date:	02/09/11 17:59	7:59	SeqNo	SeqNo: 1476876			
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC Lov	LowLimit HighLimit	hLimit	RPD Ref Val	%RPD RPDLimit		Qual
	8.438	0.15	0.50	10.00	0	84.4	77	120	9.292	9.64	40	
	9.011	0.24	0.50	10.00	0	90.1	75	135	9.450	4.76	40	
	9 813	0.19	0.50	10.00	0	98.1	81	125	10.05	2.44	40	
1, 1-DICRIOTOEUTERE	10.44	0.14	0.50	10.00	0	104	60	137	11.07	5.92	40	
Mothed for hited other	9.930	0.13	0.50	10.00	0	.99.3	61	134	9.407	5.41	40	
Wettyl telt-Dutyl ether 4 4 Dichloroothone	9.301	0.18	0.50	10.00	0	93.0	82	120	9.398	1.03	40	
	10.26	0.19	0.50	10.00	0	103	84	116	10.37	1.14	40	
dis-1,2-Dignoloeulerie	10.03	0.11	0.50	10.00	0	100	80	124	10.39	3.46	40	
1, 1, 1-1110/10/00/11aire	9.159	0.16	0.50	10.00	0	91.6	86	117	9.487	3.52	40	
	9 623	0.12	0.50	10.00	0	96.2	81	121	10.46	8.35	40	
	0.930	0.13	0.50	10.00	0	99.3	74	123	10.77	8.12	40	
	0 860	0.14	0.50	10.00	0	98.6	88	117	9.730	1.33	40	
I oluene	10.46	0.20	0.50	10.00	0	105	83	121	9.439	10.2	40	
1, 1, 2-1 honoreniare Tetrochorocthoro	9.182	0.17	0.50	10.00	0	91.8	74	115	9.745	5.95	40	
Chlorohonzone	9.552	0.13	0.50	10.00	0	95.5	83	112	9.817	2.73	40	
	10.89	0.13	0.50	10.00	0	109	87	110	11.05	1.51	40	
	21.77	0.22	0.50	20.00	0	109	87	114	22.10	1.51	40	
	11.65	0.17	0.50	10.00	0	117	84	114	11.10	4.89	40	ß
o-Ajlerie Surrocate:	9.661		0.50	10.00	0	96.6	88	124	0			
Dibromofluoromethane							(c			
Surrogate: 1,2-	9.389		0.50	10.00	5	yy	2	CTT	D .			
Dichloroethane-d4				10 00	U	102	80	114	0			
Surrogate: Toluene-d8	LU.24				• • C	103	60	123	0			
Surrogate:	10.31			00. 01	>	7 2 4	0) 1 ·)			
Bromofluorobenzene												

B - Analyte detected in the associated Method Blank

MDL - Method Detection Limit RL - Reporting Limit

 ND - Not Detected at the Reporting Limit
 S - Recovery outside accepted recovery limits

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

Qualifiers: m10.08.12.A

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Date: 01-Feb-11

Client: AECOM Technical Services, Inc. Client Sample ID: EFF-012611 Lab ID: K0149-01

Project:NOW Corp. SiteCollection Date:01/26/11 11:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
EPA 1664A Oil & Grease, HEM				E1664
Oil & Grease, Total Recoverable	8.4	5.0 mg/L	1 02/01/2011 14:05	57209

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

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

Date: 01-Feb-11

Client: AECOM Technical Services, Inc. Client Sample ID: INF-012611 Lab ID: K0149-02

Project:NOW Corp. SiteCollection Date:01/26/11 11:40

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 02/01/2011 14:05	57209

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

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

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14:09
01/2011
Date: 02/0

Mitkem Laboratories	S					Date: 0	Date: 02/01/2011 14:09	
CLIENT: AECOM	AECOM Technical Services, Inc.	c.	ANALY	TICAL QC	ANALYTICAL QC SUMMARY REPORT	PORT		
Work Order: K0149			E1664					
Project: NOW Corp. Site	orp. Site		EPA 1664A Oil & Grease, HEM	& Grease, HE	М			
Sample ID: MB-57209	SampType: MBLK	TestCode: E1664		Prep Date:	Prep Date: 02/01/11 8:14 R	Run ID: MANUAL_110201A)201A	
Client ID: MB-57209	Batch ID: 57209	Units: mg/L		Analysis Date: 02/01/11 14:05		SeqNo: 1471789		
Analyte	Result	MDL RL	SPK value	SPK Ref Vai	%REC LowLimit HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Oil & Grease, Total Recoverable	DN	1.2 5.0						
Sample ID: LCS-57209	SampType: LCS	TestCode: E1664		Prep Date:	Prep Date: 02/01/11 8:14 R	Run ID: MANUAL_110201A	0201A	
Client ID: LCS-57209	Batch ID: 57209	Units: mg/L		Analysis Date:	02/01/11 14:05 S	SeqNo: 1471787		
Analyte	Result	MDL RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Oil & Grease, Total Recoverable	36.70	1.2 5.0	40.00	0	91.8 78 114	0		
Sample ID: LCSD-57209	SampType: LCSD	TestCode: E1664		Prep Date:		Run ID: MANUAL_110201A	0201A	
Client ID: LCSD-57209 Analyte	Batch ID: 57209 Result	MDL RL	SPK value	SPK Ref Val	Ariarysis Date: 02/01/11 14:00 3 SPK Ref Val %REC LowLimit HighLimit	t RPD Ref Val	%RPD RPDLimit	Qual
Oil & Grease, Total Recoverable	39.60	. 2	40.00	0	99.0 78 114	36.70	7.6 18]

MDL - Method Detection Limit RL - Reporting Limit S - Recovery outside accepted recovery limits R - RPD outside accepted recovery limits J - Analyte detected below quanititation limits ND - Not Detected at the Reporting Limit Qualifiers: m10.08.12.A 0022

B - Analyte detected in the associated Method Blank

Date: 15-Feb-11

Client: AECOM Technical Services, Inc. Client Sample ID: EFF-012611 Lab ID: K0149-01

Project: NOW Corp. Site Collection Date: 01/26/11 11:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C Metals by ICP				SW6010_W
Aluminum	ND	200 µg/L	1 02/09/2011 11:31	57356
Arsenic	ND	20 µg/L	1 02/09/2011 11:31	57356
Barium	71 J	200 µg/L	1 02/09/2011 11:31	57356
Chromium	ND	20 µg/L	1 02/09/2011 11:31	57356
Copper	ND	25 µg/L	1 02/09/2011 11:31	57356
Iron	ND	200 µg/L	1 02/09/2011 11:31	57356
Manganese	75	50 µg/L	1 02/09/2011 11:31	57356
Nickel	ND	50 µg/L	1 02/09/2011 11:31	57356
Zinc	11 J	50 µg/L	1 02/09/2011 11:31	57356
SW846 7470A Mercury by FIA				SW7470
Mercury	ND	0.20 µg/L	1 02/04/2011 16:51	57313

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

0023

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

Date: 15-Feb-11

Client: AECOM Technical Services, Inc. Client Sample ID: INF-012611 Lab ID: K0149-02

Project: NOW Corp. Site **Collection Date:** 01/26/11 11:40

Aluminum ND 200 µg/L 1 02/09/2011 11:34 55 Arsenic ND 20 µg/L 1 02/09/2011 11:34 55 Barium 72 J 200 µg/L 1 02/09/2011 11:34 55 Barium 72 J 200 µg/L 1 02/09/2011 11:34 55 Chromium ND 20 µg/L 1 02/09/2011 11:34 55 Copper ND 20 µg/L 1 02/09/2011 11:34 55 Iron ND 200 µg/L 1 02/09/2011 11:34 55 Manganese 140 50 µg/L 1 02/09/2011 11:34 55 Nickel 1.0 J 50 µg/L 1 02/09/2011 11:34 55 SW846 7470A Mercury by FIA SW74	Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
Arsenic ND 20 µg/L 1 02/09/2011 11:34 57 Barium 72 J 200 µg/L 1 02/09/2011 11:34 57 Barium 72 J 200 µg/L 1 02/09/2011 11:34 57 Chromium ND 20 µg/L 1 02/09/2011 11:34 57 Copper ND 25 µg/L 1 02/09/2011 11:34 57 Iron ND 200 µg/L 1 02/09/2011 11:34 57 Manganese 140 50 µg/L 1 02/09/2011 11:34 57 Nickel 1.0 J 50 µg/L 1 02/09/2011 11:34 57 Zinc 12 J 50 µg/L 1 02/09/2011 11:34 57 SW846 7470A Mercury by FIA SW74	SW846 6010C Metals by ICP	·			SW6010_W
Barium 72 J 200 µg/L 1 02/09/2011 11:34 57 Chromium ND 20 µg/L 1 02/09/2011 11:34 57 Copper ND 25 µg/L 1 02/09/2011 11:34 57 Iron ND 25 µg/L 1 02/09/2011 11:34 57 Manganese 140 50 µg/L 1 02/09/2011 11:34 57 Nickel 1.0 J 50 µg/L 1 02/09/2011 11:34 57 Zinc 12 J 50 µg/L 1 02/09/2011 11:34 57 SW846 7470A Mercury by FIA SW74	Aluminum	ND	200 µg/L	1 02/09/2011 11:34	57356
Chromium ND 20 µg/L 1 02/09/2011 11:34 57 Copper ND 25 µg/L 1 02/09/2011 11:34 57 Iron ND 200 µg/L 1 02/09/2011 11:34 57 Manganese 140 50 µg/L 1 02/09/2011 11:34 57 Nickel 1.0 J 50 µg/L 1 02/09/2011 11:34 57 Zinc 12 J 50 µg/L 1 02/09/2011 11:34 57 SW846 7470A Mercury by FIA SW74	Arsenic	ND	20 µg/L	1 02/09/2011 11:34	57356
Copper ND 25 µg/L 1 02/09/2011 11:34 57 Iron ND 200 µg/L 1 02/09/2011 11:34 57 Manganese 140 50 µg/L 1 02/09/2011 11:34 57 Nickel 1.0 J 50 µg/L 1 02/09/2011 11:34 57 Zinc 12 J 50 µg/L 1 02/09/2011 11:34 57	Barium	72 J	200 µg/L	1 02/09/2011 11:34	57356
Iron ND 200 µg/L 1 02/09/2011 11:34 57 Manganese 140 50 µg/L 1 02/09/2011 11:34 57 Nickel 1.0 J 50 µg/L 1 02/09/2011 11:34 57 Zinc 12 J 50 µg/L 1 02/09/2011 11:34 57 SW846 7470A Mercury by FIA SW74	Chromium	ND	20 µg/L	1 02/09/2011 11:34	57356
Manganese 140 50 µg/L 1 02/09/2011 11:34 51 Nickel 1.0 J 50 µg/L 1 02/09/2011 11:34 51 Zinc 12 J 50 µg/L 1 02/09/2011 11:34 51 SW846 7470A Mercury by FIA SW74	Copper	ND	25 µg/L	1 02/09/2011 11:34	57356
Nickel 1.0 J 50 µg/L 1 02/09/2011 11:34 57 Zinc 12 J 50 µg/L 1 02/09/2011 11:34 57 SW846 7470A Mercury by FIA SW74	Iron	ND	200 µg/L	1 02/09/2011 11:34	57356
Zinc 12 J 50 µg/L 1 02/09/2011 11:34 57 SW846 7470A Mercury by FIA SW74	Manganese	140	50 µg/L	1 02/09/2011 11:34	57356
SW846 7470A Mercury by FIA	Nickel	1.0 J	50 µg/L	1 02/09/2011 11:34	57356
	Zinc	12 J	50 µg/L	1 02/09/2011 11:34	57356
ND 0.20 us/l 1.02/04/2014 16:52 55	SW846 7470A Mercury by FIA				SW7470
	Mercury	ND	0.20 µg/L	1 02/04/2011 16:53	57313

Qualifiers:

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

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

Weith Christing (1) SW6010 (1) SW60100 (1) SW60100 (1) SW60100 (1) SW60100 (1) SW601000 (1) SW6010000 (1) SW60100000 (1) SW60100000000000000000000000000000000000		ATTOOTA TO TRATTON T ATOON ATON			WINNAU W						
Now Now Now Corp. Sile Swr946 6010C - Metals by ICP Reg Date: 2009/11 10:01 S SampType: MELK TestCode: Swe010_W Reg Date: 2009/11 10:01 S SampType: MELK TestCode: Swe010_W Reg Date: 2009/11 10:01 S Almonia Batch D: 5736 Junis: JpdL Analysis Date: 2009/11 10:01 S Analysis Batch D: 5736 Batch D: 7736 Unis: JpdL SPK KerVal SFK FerVal SFK FerVal </th <th></th> <th>49</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>		49									
Rindle (I): Samo/Type: MBLK Tencode: Swerin_U/M Fing Date: Code/11 (10:7) S alyter MB-57356 Barch (D: 57356 Unix. gu/L SFK Raf Val. Amysis Date: Code/11 (10:7) S alyter Amssis Date: Date: J J SFK Raf Val. Kent (10:7) S anim 101 L SFK Raf Val. SFK Raf Val. Kent (10:7) S anim 101 101 S <td< th=""><th></th><th>W Corp. Site</th><th></th><th>S2</th><th>W846 6010C I</th><th>Metals by ICP</th><th></th><th></th><th>-</th><th>-</th><th></th></td<>		W Corp. Site		S 2	W846 6010C I	Metals by ICP			-	-	
Client (D. Med 7756. Batch (D. 5736 Units Analysis Date Code/11 (to 7) S anyon Result MDL RL S/PK ref Val %FEC LowLinh Hightinki S anyon Result MDL RL S/PK ref Val %FEC LowLinh Hightinki S refunition RD 1.1 2.00 S S Ref Ker Val %FEC LowLinh Hightinki S refunition RD 1.1 2.00 S S Ref Ker Val % FEC LowLinh Hightinki refunition RD 1.1 2.00 S S S Ref Ker Val % FEC LowLinh Hightinki refunition RD 1.1 2.00 S	Sample ID: MB-57356	SampType: MBLK	TestCode: SV	W6010_W		Prep Date:	02/08/11 1	0:30		110209B	
molyeit Result MDL RL SPK value SPK Ret Val SRCE Lowithin HighLindt umminum 1 200 200 50 200 50		Batch ID: 57356	Units: µc	3/L		Analysis Date:	02/09/11 1	0:07	SeqNo: 1475986		
Menium EG 200 sertic 1.1 2.00 sertic 1.1 2.00 sertic 1.1 2.00 sertic 1.1 2.00 coper 1.1 2.00 coper 1.1 2.00 coper 1.0 0.65 50 coper 1.0 0.65 200 coper 1.0 0.65 200 2001110.0 coper 1.0 0.65 200 2001110.0 coper 1.0 0.0 1.10 0.0 coper 1.0 0.0 1.10 <td< th=""><th>Analyte</th><th></th><th></th><th>RL</th><th>SPK value</th><th>SPK Ref Val</th><th>%REC Lo</th><th>vLimit HighLim</th><th></th><th></th><th></th></td<>	Analyte			RL	SPK value	SPK Ref Val	%REC Lo	vLimit HighLim			
Refilt Total Total <t< td=""><td>Aluminum</td><td>ND</td><td>66 4 - 2</td><td>200</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Aluminum	ND	66 4 - 2	200							
m 10 0.64 20 m 1.6 2.6 20 m 1.9 2.6 20 m 1.9 2.6 20 m 1.9 2.6 20 m 1.9 0.85 50 m 1.0 1.0 2.0 2.0 D. LCS-5736 SampType LCS TestCode: SW6010_W Prep Date: 02/08/11 10:10 S D. LCS-5736 Barch ID: 5736 Units: JgL Analysis Date: 02/08/11 10:10 S D. LCS-5736 Barch ID: 5736 Units: JgL Analysis Date: 02/08/11 10:10 S CLCS-5736 Barch ID: 5736 Units: JgL Analysis Date: 02/08/11 10:10 S CLCS-5736 Barch ID: 790 TestCode: SW6010_W RL SPK Ref Val	Arsenic Barium	ON CIN	1.1 1.1	200							
Oper 10 3.6 30 Riggeres ND 1 200 Riggeres ND 0 5 50 Riggeres SampType: LCS TestCode: SW6HC, W Prep Date: 0200H110:10 S SampType: LCS FastCode: SW6HC, W NDL Prep Date: 0200H110:10 S SampType: LCS FastCode: SW6HC, W NDL Ru SFK Ref Value SFK Ref Value SFK Ref Value SPK Ref Value SPK Ref Value SP Rominum 8547 66 200 910:0 0 92:3 0 120 Rominum 8547 66 200 910:0 0 92:3 0 120 Rominum 855.7 0 11.1 200 910:0 0 95:7 80 120	Chromium	E N	0.64	20							
on (m) 31 200 cell (m) 31 200 cited (m) 1.9 50 cited (m) (m) (m) (m) (m) (m) Simultitie Elseuit MDL RL SPK value SPK ket Val MeEC Low/Imit Highumit adjvis Batch ID: 67366 1.1 2.00 910 0 95.7 90 120 adm B65 1.1 2.00 910.0 0 95.7 80 120 and B65 3.1 2.00 910.0 0 92.7 80 120 and B65 3.1 2.00 910.0 0 92.7 80 120 andm B65 50	Copper	QN	з . б	30							
ND 0.0 <th0.0< th=""> <th0.0< th=""> <th0.0< th=""></th0.0<></th0.0<></th0.0<>	Iron	UN	31 10	200							
Inc ND 4.9 50 Sample ID: LCS-57356 SampType: LCS TestCode: SW60f0_W Prep Date: 0208/1110:10 S Silent ID: LCS-57356 Batch ID: 57356 Units: jg/L Analysis Date: 0208/1110:10 S Alabye LCS-57356 Batch ID: 57366 Units: jg/L Analysis Date: 0208/1110:10 S Alabye Result MDL RL SPK Karl value SPK Karl value SPK Karl value SP 120 Infinitum 8547 66 200 9100 0 94.8 80 120 Analysis Date: 0.141 200 9100 0 93.9 120 Analysis Date: 0.051 0.051 200 9100 0 94.8 80 120 Analysis Date: 0.01 0.055 0 910.0 0 92.7 80 120 Analysis Date: 0.13 0.055 0 22770 0 92.1 120 Analysis Date: <	Manganese Nickel	ND	т. 0.85	200							
Sample ID: CS-5736 SampType: LCS TastCode: SweD10_W Free Date: 02/08/11 10::30 R Bint ID: LCS-5736 Batch ID: 5736 Units: pQL Analysis Date: 02/09/11 10::10 S Bint ID: LCS-5736 Batch ID: 5736 Units: pQL R Analysis Date: 02/09/11 10::10 S Bint ID: LCS-5736 Batch ID: F736 Units: pQL R Analysis Date: 02/09/11 10::10 S Bint ID: Result MDL R.L SPK value SPK Aalva SREC LowILmit HighLimit Immum 8547 66 200 9100 0 91.20 120 Renic 8864 1.1 200 910.0 0 91.20 120 Renic 1056 3.16 200 2130 0 120 120 Renic 2133 0.15 0 2130 0 0 2270 0 <td>Zinc</td> <td>QN</td> <td>4.9</td> <td>50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Zinc	QN	4.9	50							
Client ID: LCS-57365 Batch ID: F7365 Units: JpL Analysis Date: 020071110:10 S railyte Result NDL RL SYK value SYK Ret Val SAEC Low/ImitHightImit ruiminum 8547 66 200 9100 0 93-9 80 120 ruiminum 8547 66 200 9100 0 94-8 86 120 ruiminum 8547 0.6 200 9100 0 94-9 120 ruiminum 867.7 0.44 20 910.0 0 97.8 80 120 ruiminum 862.7 0.44 20 910.0 0 94.9 120 ruigamese 2193 10 200 910.0 0 94.7 80 120 ruigamese 2193 0 220 2270 0 94.7 80 120 ruigamese 2194 0.8 50	Sample ID: LCS-57356	SampType: LCS	TestCode: SV	W6010_W		Prep Date:	02/08/11 1	0:30	Run ID: OPTIMA3	110209B	- - -
Rayle Result MDL RL SPK value SPK Ref Val %KEC LowLimit HighLimit Iuminum 8547 66 200 9100 0 93.9 60 120 seenic 8547 66 200 9100 0 93.4 80 120 seenic 8547 66 200 9100 0 93.4 80 120 seenic 8647 1.1 200 910.0 0 93.4 80 120 opper 1055 3.6 30 1130 0 93.5 80 120 opper 2130 164 3.6 50 2270 0 93.8 80 120 icket 2130 0.16 0 2270 0 93.18 80 120 icket 2130 0.6 50 2270 0 93.18 80 120 icket 2130 4.9 50 2270		Batch ID: 57356	Units: µc	۵L		Analysis Date:	02/09/11 1	0:10	SeqNo: 1475988		
Iuminum 5547 66 200 9100 0 93.9 80 120 rsenic 436.8 4.3 20 910.0 0 94.4 80 120 atum 866.4 1.1 200 910.0 0 97.4 80 120 atum 866.4 1.1 200 910.0 0 97.4 80 120 atum 865.7 0.64 20 910.0 0 93.5 80 120 opper 1056 3.6 30 1130 0 93.5 80 120 opper 106.8 50 2270 0 95.7 80 120 inc 2130 1.9 50 2270 0 95.7 80 120 inc 2130 1.9 50 2270 0 95.6 80 120 inc 2130 4.9 50 2270 0 95.7 80.7 80 inc 2130 1.9 50 2270 0 95.6 80 120 inc 2130 2130 1.9 50 2270 0 95.6 80 inc <	Analyte			RL	SPK value	SPK Ref Val		vLimit HighLim			
isenic 4.3 2.0 4.5.0 0 9.0 8.0 1.20 arium 86.4 1.1 200 910.0 0 97.4 80 120 arium 85.2.7 0.64 20 910.0 0 94.3 80 120 opper 1056.7 0.64 20 910.0 0 94.3 80 120 opper 1056.3 3.6 30 1130.0 0 93.5 80 120 ingancese 2193 10 885 50 2270 0 96.6 80 120 ince 2130 0.88 50 2270 0 96.7 80 120 ince 2130 4.9 50 2270 0 96.6 80 120 ince 2130 0.88 50 2270 0 96.6 80 120 ince 2130 2130 2120 0 96.6	Aluminum	8547	66	200	9100	0	93.9				
atium 8864 1.1 200 9100 0 97.4 80 120 hromium 862.7 0.64 20 910.0 0 94.9 80 120 oper 1056 3.6 20 1210 0 93.5 80 120 anganese 2193 1.0 50 2270 0 96.7 80 120 ickel 2130 0.85 50 2270 0 96.7 80 120 ickel 2130 4.9 50 2270 0 95.7 80 120 ickel 2130 4.9 50 2270 0 95.6 80 120 ickel 2130 2.0 95.6 10 120 ickel 2130 1.0 85 50 2270 0 95.6 10 120 ickel 2130 2.0 95.7 80 120 ickel 2130 1.0 85 50 2270 0 95.6 80 120 ickel 2130 2.0 95.6 10 120 ickel 2130 1.0 85 50 2270 0 95.7 80 120 ickel 2130 2.0 120 0 95.6 10 120 ickel 2130 2.0 120 0 95.6 10 120 ickel 2130 2.0 120 0 95.7 100 ickel 2130 1.0 95.6 10 120 ickel 2130 1.0 100 ickel 2130 1.0 10	Arsenic	436.8	4.3	20		0	96.0				
Informitum 862.7 0.64 20 910.0 0 94.8 80 120 opper 1056 3.6 30 1130 0 93.5 80 120 opper 1056 3.6 30 4550 0 95.6 80 120 inc 2193 10 50 2270 0 95.6 80 120 inc 2130 0.85 50 2270 0 95.6 80 120 inc 2130 1.9 50 2270 0 95.8 80 120 inc 2130 1.9 50 2270 0 95.8 80 120 inc 2130 1.9 50 2270 0 95.8 80 120 inc 2130 1.2 0.85 50 2270 0 95.8 80 120 inc 2130 1.2 0.85 50 2270 0 95.8 80 120 inc 2130 2.9 50 2270 0 95.8 80 120 inc 31 31 31 31 31 31 31	Barium	8864		200	9100	0	97.4				
Opper 44550 00 4550 00 98.7 80 120 Inganese 2193 10 50 2270 0 96.7 80 120 Ince 2130 0.85 50 2270 0 96.7 80 120 ince 2130 2.9 50 2270 0 95.7 80 120 ince 2130 2.9 50 2270 0 95.8 120 ince 2130 2.9 50 2270 0 93.8 80 120 ince 2130 2.9 50 2270 0 93.8 80 120 ince 2130 2.8 50 2270 0 93.8 80 120 ince 231 30.8 50 2270 0 93.6 80 120 ince 231 30.8 30.8 30.8 30.8 30.8 30.8 30.8	Chromium	862.1 1056	0.64 2 6	07	910.0) c	94. 0 Л				
Imagemese 2193 10 50 2270 0 96.6 80 120 lickel 2194 0.85 50 2270 0 96.7 80 120 lickel 2130 0.85 50 2270 0 95.7 80 120 inc 2130 4.9 50 2270 0 93.8 80 120 inc 2130 2.9 50 2270 0 93.8 80 120 inc 2130 2.0 50 2270 0 93.8 80 120 inc 2130 2.0 2270 0 93.8 80 120 inc 2.0 2.270 0 0 93.8 80 120 inc 2.0 2.270 0 0 93.8 80 120 inc 2.0 2.0 2.0 2.0 2.270 0 93.6 120 in	Cupper	4493	31.3	200	4550	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	98.7				
lickei 2134 0.85 50 2270 0 96.7 80 120 linc 2130 4.9 50 2270 0 93.8 80 120 Reserved 201 20 50 2270 0 93.8 80 120 Qualifiers: ND-Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit	Manganese	2193	10	50	2270	0	96.6				
inc 2130 4.9 50 2270 0 93.8 80 120 Qualifiers: ND- Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit Q081A 1 - Andrea detected hole control limits B. P. PDD rutside accepted recovery limits R1 - Renoring Limit	Nickel	2194	0.85	50	2270	0	96.7				
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit 10.06.12.A 1. Analyte detected halow constitution limits R. 1. Recoving Limit R. 1. Recoving Limit	Zinc	2130	4.9	50	2270	0	93.8				
0.08.12.A 1 - Analyte detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit 0.08.12.A 1 - Analyte detected below constitution limits R 1. Reporting Limit R 1. Reporting Limit											
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit I Analyta detected halow constituation limits P - RPD outside accented recovery limits R1 - Analyta detected halow constituation limits P - RPD outside accented recovery limits R1 - Reporting 1 init											
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit 10.08.12A 1.2 Analyte detected below animities in R 2 RDD outside accented recovery limits R 1. Reporting Limit											
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit 10.08.12.A 1 - Analyte detected below animits P - RPD outside accented recovery limits R1 - Reporting 1 init											
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit 10.08.12A 1 - Analytic detected below animities in R - RPD outside accented recovery limits R 1 - Reporting Limit											
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit 10.08.12.A 1 - Analytic detected below animities P - RPD outside accented recovery limits R1 - Reporting Limit											
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit 10.08.12.A 1 - Analyze detected below anomititation limits R - RPD outside accented recovery limits R1 - Reporting Limit											
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit 1008.12A 1 - Analysis detected below anomistisation limits R - RDD outside accented recovery limits R1 - Reporting 1 init											
Qualifiers: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit 1008.12.A I - Analytic Alected helow animitation limits P - RPD outside accented recovery limits RI - Reporting I init							•				
rs: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit 1 - Analytic detected below manification limits P - PDD outside accented recovery limits R1 - Reporting I init											
	:S:	etected at the Reporting Limit	S - Recovery outside	e accepted reco	mits	Method Detection Li	mit		B - Analyte detected	in the associated Me	ethod Blank

Date: 02/15/2011 12:11

Mitkem Laboratori

Monton: XMX40 XM1130 XM1130 <th></th> <th></th> <th>Testinitation Instant</th> <th></th> <th></th> <th>TATAT VAL</th> <th></th> <th>CI INANA N</th> <th></th> <th>TUT</th> <th></th> <th></th>			Testinitation Instant			TATAT VAL		CI INANA N		TUT		
Topics Number of the second sW170 SW440 (170) Research of the second sW170 Party bits Research of the second sW170 Research of	Vork Ore		ecnnical Services, inc			ALVALI	11CAL VC	DUNINTAL	VI KEFU	JKI		
Sample ML TextCols France Prance Count 11:1:3 Run D: France Run D: France Run D: France Calin D: Anaysis Date Oxur1 11:0:3 Run D: France Run D: France Run D: France Run D: France Anaysis Date Bacin More Run D: France Run D: France Run D: France Run D: France Anaysis Date Bacin More Run D: France Scont 11:1:0:1 Run D: France Run D: France Sample D: LC3-57313 SampType LC3 TextCode Stont D: France Scont 11:1:0:1 Run D: France Run D: France Sample D: LC3-57313 SampType LC3 TextCode Stont D: France Scont 11:1:0:1 Run D: France Sample D: LC3-57313 SampType LC3 Run D: France Run D: France Run D: France Run D: France Sample D: LC3-57313 Samt D: France Run D: France Run D: France Run D: France Run D: France Sample D: LC3-57313 Sam D: France Run D: France Run D: France Run D: France Run D: France Same D: L25-57313 <td< th=""><th>Project:</th><th></th><th>o. Site</th><th></th><th>SW8</th><th>46 7470A M</th><th>ercury by FIA</th><th></th><th></th><th></th><th></th><th></th></td<>	Project:		o. Site		SW8	46 7470A M	ercury by FIA					
anjo Result NOL RL Symple Display Result NOL Result No Result Reput Reput No Reput Repu Repu Repu	Sample ID Client ID:	: MB-57313 MB-57313	SampType: MBLK Batch ID: 57313	TestCode: S Units: µ	W7470 g/L		Prep Date: Analysis Date:	02/04/11 11:30 02/04/11 16:33	Run ID SeqNo): FIMS1_11020 \: 1474245	4E	
Rampia ID: SamoType: CGS WATO Prog. Date: OLIVIT113:0 Run ID: FINSI.	Analyte Mercury			MDL 0.028	RL 0.20	SPK value		%REC LowLimit I	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Imple Imple Result MDL RJ SPC radiust SPC fact val w/RED Condunit HighLimit RPD fact val WRPD RPDLimit Remory - <	Sample ID Client ID:	: LCS-57313 LCS-57313	SampType: LCS Batch ID: 57313	TestCode: S Units: µ	W7470 g/L		Prep Date: Analysis Date:	02/04/11 11:30 02/04/11 16:35	Run ID SeqNo): FIMS1_11020 1: 1474246	46	
Rampe ID Closh 57313 SamoType ILCSD Teaccode: SW7470 Rep Date: D0/4/111:00 Run ID: FIMS1_110204E Clent ID: LCSD-57313 Batch ID: 57313 Units: ppL Analysis Date: 20/4/111:100 Run ID: FIMS1_110204E Image Feault MDL R.L SPK Ret Val MREC Log Scott 474.54 Scott 474.54 Job Image Analysis Date Scott 9.5.2 Bio JJD 4.446 L-54 ZD Recury 4.379 0.023 0.020 9.5.0 9.5.2 Bio JJD 4.446 L-54 ZD Recury 4.379 0.023 0.020 9.5.20 9.5.20 JD 9.6.2 Bio JDD 9.6.24 ZD JD 4.446 L-54 ZD Recurd for the Reporting Limit 0.028 0.020 9.5.20 9.6.2 Bio JDD JD JD JD JD JD JD JD JD <t< td=""><td>Analyte Mercury</td><td></td><td>·</td><td>MDL 0.028</td><td>RL 0.20</td><td>SPK value 4.550</td><td></td><td>%REC LowLimit I 97.7 80</td><td>HighLimit 120</td><td>RPD Ref Val</td><td>%RPD RPDLimit</td><td>Qual</td></t<>	Analyte Mercury		·	MDL 0.028	RL 0.20	SPK value 4.550		%REC LowLimit I 97.7 80	HighLimit 120	RPD Ref Val	%RPD RPDLimit	Qual
maye Result MD. R.L SFK raulue SFK raulue SFK raulue SFK raulue RFD Carl vial KRPD RePDIum fereury 4.1319 0.228 0.20 4.550 0 96.2 00 130 4.145 1.54 20 fereury 4.0 3.0 0.20 0.20 0 96.2 00 130 4.145 1.54 20 fereury 4.0 3.0 0.20 0 96.2 00 130 4.145 1.54 20 Out 0.0 96.2 0 120 4.145 1.54 20 Out 0.0 96.2 0 130 4.145 1.54 20	Sample ID Client ID:	LCSD-57313 LCSD-57313	SampType: LCSD Batch ID: 57313	TestCode: S' Units: µ	W7470 g/L			02/04/11 11:30 02/04/11 16:36	Run ID SeqNo		4E	
Tercury 4.550 0 56.2 80 120 Outside 0.001 <th>Analyte</th> <th></th> <th></th> <th></th> <th>RL -</th> <th>SPK value</th> <th></th> <th>%REC LowLimit !</th> <th>- HighLimit</th> <th>RPD Ref Val</th> <th>%RPD RPDLimit</th> <th>Qual</th>	Analyte				RL -	SPK value		%REC LowLimit !	- HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
rs: ND - Not Detected at the Reporting Limit S - Recovery outside accepted recovery limits MDL - Method Detection Limit J - Analyte detected below quanititation limits R - RPD outside accepted recovery limits RL - Reporting Limit	Mercury		7 379	0.028	0.000	0 9 9	O		120	4. 4. 4. 6.		
	Qualifiers: m10.08.12.A		t the Reporting Limit below quantitation limits	S - Recovery outside R - RPD outside acc	e accepted recovery li cepted recovery limits		fethod Detection Lin orting Limit	nit	B - Ai	nalyte detected in	the associated Metho	l Blank

Date: 16-Feb-11

Client:AECOM Technical Services, Inc.Client Sample ID:EFF-012611Lab ID:K0149-01

Project:NOW Corp. SiteCollection Date:01/26/11 11:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2540C TOTAL DISSOLVED SOLIDS				SM2540_TDS
Total Dissolved Solids	247	5 mg/L	1 02/01/2011 0:00	SUBBED
SM 2540D TOTAL SUSPENDED SOLIDS				SM2540_TSS
Total Suspended Solids	ND	5 mg/L	1 02/01/2011 0:00	SUBBED
SW846 9012B Total Cyanide				SW9012_W
Cyanide	ND	10 ug/L	1 02/04/2011 10:29	57278

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

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

Date: 16-Feb-11

Client: AECOM Technical Services, Inc. Client Sample ID: INF-012611 Lab ID: K0149-02

Project:NOW Corp. SiteCollection Date:01/26/11 11:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SM 2540C TOTAL DISSOLVED SOLIDS				SM2540_TDS
Total Dissolved Solids	311	5 mg/L	1 02/01/2011 0:00	SUBBED
SM 2540D TOTAL SUSPENDED SOLIDS				SM2540_TSS
Total Suspended Solids	ND	5 mg/L	1 02/01/2011 0:00	SUBBED
SW846 9012B Total Cyanide				SW9012_W
Cyanide	ND	10 ug/L	1 02/04/2011 10:31	57278

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quanititation limits

B - Analyte detected in the associated Method Blank

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

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AECOM Technical Services, Inc.

CLIENT:

Date: 02/07/2011 12:45

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Work Order: K0149 Project: NOW Corp. Site	p. Site		SW9012_W SW846 9012B Total Cyanide	Total Cyanide				
Sample ID: MB-57278 Client ID: MB-57278	SampType: MBLK Batch ID: 57278	TestCode: SW9012_W Units: ug/L		Prep Date: Analysis Date:	Prep Date: 02/03/11 10:45 Ru Ilysis Date: 02/04/11 10:21 Se	Run ID: LACHAT1_110204A SeqNo: 1473922	04A	
Analyte Cyanide	Result MDL	lL RL 7.5 20	SPK value	SPK Ref Val	SPK Ref Val %REC LowLimit HighLimit	RPD Ref Val %	%RPD RPDLimit Qual	Qual
Sample ID: LCS-57278 Client ID: LCS-57278	SampType: LCS Batch ID: 57278	TestCode: SW9012_W Units: ug/L		Prep Date: Analysis Date:	Prep Date: 02/03/11 10:45 Ru Analysis Date: 02/04/11 10:24 Se	Run ID: LACHAT1_110204A SeqNo: 1473923	04A	a sa
Analyte Cyanide	Result MDL	1L RL 7.5 20	SPK value	SPK Ref Val	%REC LowLimit HighLimit 101 80 120	RPD Ref Val % 0	%RPD RPDLimit (Qual
Sample ID: LCSD-57278 Client ID: LCSD-57278	SampType: LCSD Batch ID: 57278	TestCode: SW9012_W Units: ug/L		Prep Date: Analysis Date:	Prep Date: 02/03/11 10:45 Ru Ilysis Date: 02/04/11 10:39 Se	Run ID: LACHAT1_110204A SeqNo: 1473929	04A	
Analyte	Result MDI	JL RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val %	%RPD RPDLimit	Qual
Cyanide	101.7	7.5 20	100.0	0	102 80 120	100.8 0	0.803 20	

S - Recovery outside accepted recovery limits R - RPD outside accepted recovery limits J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:

m10.08.12.A

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MDL - Method Detection Limit RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: AECOM 7	AECOM Technical Services, Inc.		ANALY	FICAL QC	ANALYTICAL QC SUMMARY REPORT	REPORT		
Work Order: K0149		SMC	SM2540 TDS					
	rp. Site	SM	SM 2540C - TOTAL DISSOLVED SOLIDS	AL DISSOLV	ED SOLIDS			
Sample ID: 1102059-BLK2 Client ID: 1102059-BLK2	SampType: MBLK Batch ID: SAI-1102059	TestCode: SM2540_TDS Units: mg/L		Prep Date: Analysis Date:	02/01/11 16:56 02/01/11 17:02	Run ID: SUB_110209A SeqNo: 1476435	A	
Analyte	Result MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	Limit RPD Ref Val	%RPD RPDLimit	Qual
Total Dissolved Solids	U	5.00	0		0 0	0		n
Sample ID: 1102059-BLK2	SampType: MBLK	TestCode: SM2540_TDS		Prep Date:	02/01/11 0:00	Run ID: SUB_110201A	A	
Client ID: 1102059-BLK2	Batch ID: SAI-1102059	Units: mg/L		Analysis Date:	02/01/11 0:00	SeqNo: 1479287		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	Limit RPD Ref Val	%RPD RPDLimit	Qual
Total Dissolved Solids	Ω	5.0	0		0 0	0		
Sample ID: 1102059-BS1	SampType: LCS	TestCode: SM2540_TDS		Prep Date:	02/01/11 16:56	Run ID: SUB_110209A	A	
Client ID: 1102059-BS1	Batch ID: SAI-1102059	Units: mg/L		Analysis Date:	02/01/11 17:02	SeqNo: 1476436		
Analyte	Result MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	ILimit RPD Ref Val	%RPD RPDLimit	Qual
Total Dissolved Solids	496.0	10.0	489.0	0	101 90	110		
Sample ID: 1102059-BS1	SampType: LCS	TestCode: SM2540_TDS		Prep Date:	02/01/11 0:00	Run ID: SUB_110201A	A	
Client ID: 1102059-BS1	Batch ID: SAI-1102059	Units: mg/L		Analysis Date:	02/01/11 0:00	SeqNo: 1479288		
Analyte	Result MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	Limit RPD Ref Val	%RPD RPDLimit	Qual
Total Dissolved Solids	496.0	10	489.0	0	101 90	110		
Sample ID: 1102059-BS2	SampType: LCS	TestCode: SM2540_TDS		Prep Date:	02/01/11 16:56	Run ID: SUB_110209A	V	
Client ID: 1102059-BS2	Batch ID: SAI-1102059	Units: mg/L		Analysis Date:	02/01/11 17:02	SeqNo: 1476437		
Analyte	Result MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	Limit RPD Ref Val	%RPD RPDLimit	Qual
Total Dissolved Solids	496.0	10.0	489.0	0	101 90	110		
Sample ID: 1102059-BS2	SampType: LCS	TestCode: SM2540_TDS		Prep Date:	02/01/11 0:00	Run ID: SUB_110201A	A	
Client ID: 1102059-BS2	Batch ID: SAI-1102059	Units: mg/L		Analysis Date:	02/01/11 0:00	SeqNo: 1479289		
Analyte	Result MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	ILimit RPD Ref Val	%RPD RPDLimit	Qual
Total Dissolved Solids	496.0	10	489.0	0	101 90	110		
							·	
Qualifiers:		S - Recovery outside accepted recovery limits		MDL - Method Detection Limit	mit	B - Analyte detected in	B - Analyte detected in the associated Method Blank	Blank
m10.08.12.A J - Analyte detected	J - Analyte detected below quanititation limits R -	R - RPD outside accepted recovery limits		RL - Reporting Limit				

Date: 02/16/2011 14:03

Mitkem Laboratories

Project: NOW Corp. Site	rp. Site	SI	SM 2540C TOTAL DISSOLVED SOLIDS	AL DISSOLVE	ED SOLUDS	-			
Sample ID: K0149-01BDUP1 Client ID: EFF-012611	SampType: DUP Batch ID: SAI-1102059	TestCode: SM2540_TDS Units: mg/L		Prep Date: Analysis Date:	02/01/11 0:00 02/01/11 0:00	Run II SegN	Run ID: SUB_110201A SeqNo: 1479290	4	
Analyte	Result MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Total Dissolved Solids	247.0	5.0	247.0	0	0	20	247.0		

CLIENT: AECOM T	AECOM Technical Services, Inc.		ANALY	TICAL OC	ANALYTICAL OC SUMMARY REPORT	REPORT		
ler:		S	SM2540 TSS					
	p. Site	S	SM 2540D TOTAL SUSPENDED SOLIDS	AL SUSPEND	ED SOLIDS			
Sample ID: 1102058-BLK2	SampType: MBLK	TestCode: SM2540_TSS		Prep Date:	02/01/11 16:54	Run ID: SUB_110209B	0209B	
Client ID: 1102058-BLK2	Batch ID: SAI-1102058	Units: mg/L		Analysis Date:	02/01/11 18:11	SeqNo: 1476445	10	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	Limit RPD Ref Val	f Val %RPD RPDLimit	imit Qual
Total Suspended Solids	D	5.00	0		0 0	0		U
Sample ID: 1102058-BLK2	SampType: MBLK	TestCode: SM2540_TSS		Prep Date:	02/01/11 0:00	Run ID: SUB_110201A	0201A	
Client ID: 1102058-BLK2	Batch ID: SAI-1102058	Units: mg/L		Analysis Date:	02/01/11 0:00	SeqNo: 1479281		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	Limit RPD Ref Val	f Val %RPD RPDLimit	-imit Qual
Total Suspended Solids	n	5.0	0		0 0	0		
Sample ID: 1102058-BS1	SampType: LCS	TestCode: SM2540_TSS		Prep Date:	02/01/11 16:54	Run ID: SUB_110209B	0209B	
Client ID: 1102058-BS1	Batch ID: SAI-1102058	Units: mg/L		Analysis Date:	02/01/11 18:11	SeqNo: 1476446	0	
Analyte	Result MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	1 Limit RPD Ref Val	f Val %RPD RPDLimit	-imit Qual
Total Suspended Solids	88.00	10.0	82.00	0	107 90	110		
Sample ID: 1102058-BS1	SampType: LCS	TestCode: SM2540_TSS		Prep Date:	02/01/11 0:00	Run ID: SUB_110201A	10201A	
Client ID: 1102058-BS1	Batch ID: SAI-1102058	Units: mg/L		Analysis Date:	02/01/11 0:00	SeqNo: 1479282	5	
Analyte	Result MDL	R	SPK value	SPK Ref Val	%REC LowLimit HighLimit	hLimit RPD Ref Val	f Val %RPD RPDLimit	-imit Qual
Total Suspended Solids	88.00	10	82.00	0	107 90	110		
Sample ID: 1102058-BS2	SampType: LCS	TestCode: SM2540_TSS		Prep Date:	02/01/11 16:54	Run ID: SUB_110209B	10209B	
Client ID: 1102058-BS2	Batch ID: SAI-1102058	Units: mg/L		Analysis Date:	02/01/11 18:11	SeqNo: 1476447		
Analyte	Result MDL	RL	SPK value	SPK Ref Vai	%REC LowLimit HighLimit	hLimit RPD Ref Val	f Val %RPD RPDLimit	-imit Qual
Total Suspended Solids	90.00	10.0	82.00	0	110 90	110		
Sample ID: 1102058-BS2	SampType: LCS	TestCode: SM2540_TSS		Prep Date:	02/01/11 0:00	Run ID: SUB_110201A	10201A	
Client ID: 1102058-BS2	Batch ID: SAI-1102058	Units: mg/L		Analysis Date:	02/01/11 0:00	SeqNo: 1479283		
Analyte	Result MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	hLimit RPD Ref Val	f Val %RPD RPDLimit	_imit Qual
Total Suspended Solids	00.06	10	82.00	0	110 90	110		
						•		
Oualifiers:	ND - Not Detected at the Renorting Limit S - I	S - Recovery outside accented recovery limits	-	MDI Method Detection I imit	nit	B - Analyte detec	B - Analyte detected in the associated Method Blank	Aethod Blank
	mits	R - RPD outside accepted recovery limits	. *	RL - Reporting Limit				

WorkOrder: K0149

01/28/2011 14:16

Mitkem Laboratories

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

Case: SDG:

HC Due: 02/15/11 Fax Due:

Fax Report:

PO: 94017.02

Report Level: LEVEL 2 EDD: Special Program:

Lab Samp ID	Lab Samp ID Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF HT MS SEL Storage
K0149-01A	EFF-012611	01/26/2011 11:30	01/28/2011	Aqueous	SW8260_25_W	/ use for VOCs,	Y VOA
K0149-01B	EFF-012611	01/26/2011 11:30	01/28/2011	Aqueous	SM2540_TDS	SUB TO AGAWAM /	SUB
K0149-01B	EFF-012611	01/26/2011 11:30	01/28/2011	Aqueous	SM2540_TSS	SUB TO AGAWAM /	SUB
K0149-01C	EFF-012611	01/26/2011 11:30	01/28/2011	Aqueous	SW6010_W	/ See SEL list	Y M4
K0149-01C	EFF-012611	01/26/2011 11:30	01/28/2011	Aqueous	SW7470	/ See SEL list	M4
K0149-01D	EFF-012611	01/26/2011 11:30	01/28/2011	Aqueous	SW9012_W		Υ 13
K0149-01E	EFF-012611	01/26/2011 11:30	01/28/2011	Aqueous	E1664		13
K0149-02A	INF-012611	01/26/2011 11:40	01/28/2011	Aqueous	SW8260_25_W	/ use for VOCs,	Y VOA
K0149-02B	INF-012611	01/26/2011 11:40	01/28/2011	Aqueous	SM2540_TDS	SUB TO AGAWAM /	SUB
K0149-02B	INF-012611	01/26/2011 11:40	01/28/2011	Aqueous	SM2540_TSS	SUB TO AGAWAM /	SUB
K0149-02C	INF-012611	01/26/2011 11:40	01/28/2011	Aqueous	SW6010_W	/ See SEL list	Y M4
K0149-02C	INF-012611	01/26/2011 11:40	01/28/2011	Aqueous	SW7470	/ See SEL list	M4
K0149-02D	INF-012611	01/26/2011 11:40	01/28/2011	Aqueous	SW9012_W		Υ 13
K0149-02E	INF-012611	01/26/2011 11:40	01/28/2011	Aqueous	E1664		13
K0149-03A	TW-1	01/26/2011 11:50	01/28/2011	Aqueous	SW8260_25_W	/ use for VOCs,	Y VOA
K0149-04A	TW-2A	01/26/2011 11:55	01/28/2011	Aqueous	SW8260_25_W	/ use for VOCs,	Y VOA
K0149-05A	TW-3	01/26/2011 12:00	01/28/2011	Aqueous	SW8260_25_W	/ use for VOCs,	Y VOA
K0149-06A	TRIP BLANK	01/26/2011 00:00	01/28/2011	Aqueous	SW8260_25_W	/ use for VOCs,	Y VOA

HF = Fraction logged in but all tests have been placed on hold
Lab Client Rep: Edward A Lawler

Page 01 of 01

HT = Test logged in but has been placed on hold

MITKEM LABORATORIES	CHA	AIN (OF			•		DY /	E	C	J	RE)	All Min. Samp	Indica TATs 24-hou les dis	te Date s subjec ar notific	et to labor cation need f after 30 da	ratory approval. ed for rushes.
Report To: <u>AECOM</u> 40 British American È Latham NY 12110	<u> </u>	Invoice To		5	<u>a</u> m	E				Site I Loca	Name tion:		Voi tat	N ts b	Co: urg) Z	ate: <u>//</u> /
Project Mgr.: <u>Stephen Choiniere</u> 1=Na ₂ S2O ₃ 2=HCl 3=H ₂ SO ₄ 4 8= NaHSO ₄ 9= <u>None</u> DW=Drinking Water GW=Groundwater						7-0		11	1			-	e cod 5	e belo	w:			otes:
$\begin{array}{c cccc} $	SL=Sludge X3= te	A=Air	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	 	<u> </u>	TD3/755	Analy $O + O$	Cyanide			State	Level I Level III Other e specific rej	porting Level II Level IV Level IV porting standards:
1 EFF - OIZ611 1/26 2 INF - OIZ611 1/26/ 3 TW-1 1/26/ 4 TW-ZA 1/26/ 5 TW-3 1/26/ 1 Trip Blank	()/ /: /// /: ///]: /// R::	:30 :40 :50 :55 :00	G		2	<u>い</u> い い い い い い い い い い い い い		3 3				X X	X X			*, Ci 2	41, AS U, FE, N, N	, BA, C.R MN, E HC '
EDD Format				Re	linqu	ished	l by:	7			R	eceiv	d by	/			Date:	Time: 15:00
Condition upon receipt: 2 Iced Cambient	₽° C_3			<u> </u>	Z				 <	Z	~~		>	2)	1	28/11	8:5¥

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175 Metro Center Boulevard • Warwick, RI 02886-1755 • 401-732-3400 • Fax 401-732-3499 • www.mitkem.com

Same Same Same Same

MITKEM LABORATORIES

Sample Condition Form

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Received By: S	Reviewed By	<u>r: P</u> .	>		Date	128/11	Mitke	m Wo	ork Ord	ler #:	K0149
Client Project: NOV	J CORP				Clien				N	<u>}</u>	Soil' Headspace
								n (pH) T		VOA	Air Bubble
	•		Samp	1	1	H₂SO₄			H ₃ PO₄		1/4"
1) Cooler Sealed	Mes / No	KO	149	61	22	ļ		712		4	
				02	42		C2	7/2	ļ		
2) Custody Seal(s)	Reseat / Absent			<u>3</u>		[[
	Coolers / Bottles		,	04							
	ntaco/ Broken		V	05						\mathbf{V}	
		100	149	06						H	
3) Custody Seal Number(s	5) NA										
	/										
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			.			-				-A	
4) Chain-of-Custody	Present / Absent	<u> </u>						·		\vdash	
	ہ ح								- A		
5) Cooler Temperature	<u> </u>							11			
IR Temp Gun ID	M7-1	· · ·	· · · ·				- 13				· · · · · · · · · · · · · · · · · · ·
Coolant Condition	- i Ce						~ ~				
						()			1.1	
6) Airbill(s)	Present / Absent					1	° /				
Airbill Number(s)	Feder					_	/				11
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7) Samples Bottles	Intact / Broken / Leaking				/		- 19				
1) Samples Bollies	Inaci Dioken / Leaking							<u></u>			
	.150.1.			/	na na tan Ang						······································
8) Date Received	1/28/11										
						<u> </u>					
9) Time Received	P:54			11 E.							
				$X_{i}(\theta) = 0$							
Preservative Name/Lot No	•	<u> </u>	· · · · · · · · · · · · · · · · · · ·								<u> </u>
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				-1	M = M		А			E = Er	
See Sample (Condition Notification/Corre	ctive A	ction F			aHSO ଚ	4			F = Free	eeze
See Sample (Form ID: QAF.0006	Condition Notification/Correct	ctive A	ction F		v = N			Rad O	K Võs		<u>=e76</u>

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

Last Page of Data Report