Operation, Maintenance and Monitoring Report
January 2003

NOW Corporation Site
Site 3-14-008

Work Assignment No.
D003821-29

Prepared for:

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

Prepared by:

Earth Tech of New York, Inc.
40 British American Boulevard
Latham, New York 12110

40 British American Boulevard, Latham, New York 12110

February 28, 2003

Mr. Saiban Mahamooth
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561

Re: NOW Corporation - Site #3-14-008
Monthly Summary Report – "January" 2003

Dear Mr. Mahamooth:

Telephone
518.951.2200
Facsimile
518.951.2300

Enclosed is a monthly summary report for the operation, monitoring and maintenance (OM&M) of the groundwater treatment system at the NOW Corporation site in the Town of Clinton, New York. This report covers the OM&M of the vapor extraction system and the groundwater pump and treatment system for a six-week period (December 20, 2002 – January 31, 2003).

The system was online and operational without interruption for the duration of the reporting period. Approximately 923,600 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 21,990 gallons per day (gpd). During the prior reporting period, the average discharge was 16,611 gpd. According to flow meter readings, all of the treated effluent was discharged to Crum Elbow Creek. When the snowpack melts to a degree that allows safe access to the distribution pit, Earth Tech will try to assess whether the infiltration wells are accepting water, or if the flow meters in the pit have failed or jammed (the flow meter readings were identical to those observed last month).

As of the last day of the reporting period, a total of 27,716,600 gallons of groundwater had been recovered and treated by the system since it became operational.

Table 1 summarizes influent and effluent data for samples collected on January 20, 2003. All effluent discharge requirements were met. Table 2 summarizes the operation and maintenance data collected on the last day of the reporting period. Table 3 summarizes monitoring well water-level data collected on the sampling date. Table 4 summarizes the vapor extraction system air sampling data, as well as the air-stripper emissions (sample PAS). The data indicate that changeout of the primary and secondary carbon adsorbers should be performed in the near future. A copy of the laboratory data is included in this report.

Earth Tech made three site visits to conduct the required system inspections, maintenance, monitoring well water-level measurements, and monthly sampling. On January 3rd, oil was added to the vapor blower motor. On January 20th, water was pumped down in the meter pit after a nearby contractor performed snow removal to allow access to the pit. On January 31st, the oil was changed in the vapor extraction system blower, and Kingston Oil Service Company repaired the propane building heater.

Please feel free to contact me at (518) 951-2262 if you have any questions regarding either this report, or the operation of the treatment system.

Sincerely,

Stephen R. Choiniere
Project Manager

Attachments

Table 1
Summary of Influent and Effluent Data
Sampling Date: January 20, 2003
NOW Corporation Site
Town of Clinton, New York

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Treatment Requirements	(units)
			TW-1	TW-2A	TW-3		
Flow		22,355				Monitor	gpd
pH	6.8	7.0	NA	NA	NA	6.5 to 8.5	standard units
TSS	<1	<1	NA	NA	NA	50	mg/L
TDS	**280**	**295**	NA	NA	NA	1000	mg/L
Oil and Grease	<1.0	<1.0	NA	NA	NA	15	mg/L
Cyanide	<0.01	<0.01	NA	NA	NA	0.01	mg/L
Zinc	<0.01	<0.01	NA	NA	NA	0.15	mg/L
Aluminum, Total	<0.1	<0.1	NA	NA	NA	2	mg/L
Arsenic, Total	<0.005	<0.005	NA	NA	NA	0.05	mg/L
Barium, Total	**0.07**	**0.07**	NA	NA	NA	2	mg/L
Copper	<0.005	**0.014**	NA	NA	NA	0.024	mg/L
Chromium	<0.005	<0.005	NA	NA	NA	0.1	mg/L
Iron	<0.05	<0.05	NA	NA	NA	0.6	mg/L
Manganese	**0.11**	**0.08**	NA	NA	NA	0.6	mg/L
Mercury	<0.0004	<0.0004	NA	NA	NA	0.0008	mg/L
Nickel	<0.05	<0.05	NA	NA	NA	0.2	mg/L
Benzene	<5	<0.5	<5	<5	<5	0.8	ug/L
Chlorobenzene	<5	<0.5	<5	<5	<5	5	ug/L
Chloroethane	<10	<0.5	<10	<10	<10	5	ug/L
1,1-Dichloroethane	**120**	<0.5	**86**	**190**	**17**	5	ug/L
1,2-Dichloroethane	<5	<0.5	<5	<5	<5	1.6	ug/L
cis-1,2-Dichloroethene	**10**	<0.5	**11**	**14**	<5	5	ug/L
trans-1,2-Dichloroethene	<5	<0.5	<5	<5	<5	5	ug/L
1,1-Dichloroethene	**13**	<0.5	**12**	**18**	<5	0.5	ug/L
Ethylbenzene	<5	<0.5	<5	<5	<5	5	ug/L
Tetrachloroethene	<5	<0.5	<5	<5	<5	1.4	ug/L
Toluene	<5	<0.5	<5	<5	<5	5	ug/L
1,1,1-Trichloroethane	**500**	<0.5	**34**	**990**	**9**	5	ug/L
1,1,2-Trichloroethane	<5	<0.5	<5	<5	<5	1.2	ug/L
Trichloroethene	**270**	<0.5	**100**	**430**	**15**	5	ug/L
Vinyl Chloride	<10	<0.5	<10	<10	<10	0.6	ug/L
1,2- and 1,4-Xylenes	<5	<0.5	<5	<5	<5	10	ug/L
1,3-Xylene	<5	<0.5	<5	<5	<5	5	ug/L

Notes:

1) Positive results are presented in ***bold*** *typeface. Numeric values are in units shown in far right column.*

2) Boxed in ***bold*** *denotes exceedance of treatment requirements.*

3) NA indicates not analyzed for the indicated analyte.

*4) "**J**" indicates an estimated concentration below the method detection limit.*

Table 2
Summary of January 2003 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		1/31/2003	Units
TW-1			
	Pumping Rate	5	GPM
	Water Level Above Transducer	39.85	feet
	Flow Meter Reading	9,743,700	gallons
	Pump Pressure	63	psi
TW-2A			
	Pumping Rate	11	GPM
	Water Level Above Transducer	49.08	feet
	Flow Meter Reading	6,439,100	gallons
	Pump Pressure	43	psi
TW-3			
	Pumping Rate	4	GPM
	Water Level Above Transducer	61.16	feet
	Flow Meter Reading	6,336,200	gallons
	Pump Pressure	79	psi
Air Stripper			
	Stripper Blower Pressure	18	inches H_2O
	Air Temperature in Stripper	48	°F
	Pressure Gauge - Left Leg	1.6	inches H_2O
	Pressure Gauge - Right Leg	1.3	inches H_2O
	Pressure/Vacuum on the Stripper	3	inches H_2O
Sand Filter			
	Influent Pressure	Offline	
	Effluent Pressure	Offline	
	Differential Pressure Across Filter	-	
Effluent Flow			
	Total System Meter Reading	27,716,600	gallons
	IW-1 Flow Meter Reading	1,313,195	gallons
	IW-2 Flow Meter Reading	1,748,748	gallons
Vapor Extraction System			
	Vapor Blower Vacuum	11.0	inches Hg
	Vacuum before Filter with Dilution Air	11.0	inches Hg
	Vacuum on Knock-out Pot	13.5	inches Hg
	Blower Inlet Temperature	60	°F
	Blower Outlet Temperature	210	°F
	Pressure After Blower	32	psi
	Heat Exchanger Outlet Temperature	61	°F

Note: N/A indicates Not Available.
NW - Not working

Table 3
January 2003 Groundwater Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	MP Elevation	1/20/2003 Depth to Water (Ft below MP)	1/20/2003 GW Elevation
MW-1	289.50	10.76	278.74
MW-2	332.51	27.03	305.48
MW-3	312.83	25.64	287.19
MW-3S	312.51	23.86	288.65
MW-4	298.29	21.57	276.72
MW-4D	298.16	21.40	276.76
MW-5	285.48	19.07	266.41
MW-6S	287.90	4.47	283.43
MW-6D	287.25	7.58	279.67
MW-7S	292.12	21.63	270.49
MW-7D	292.54	47.02	245.52
OW-1	307.75	46.74	261.01
OW-2	305.96	66.66	239.30
OW-6	294.81	5.09	289.72
IW-1	312.46	8.86	303.60
IW-2	306.56	3.02	303.54
MW-8	283.65	N/A	N/A
MW-9	275.37	N/A	N/A
MW-10	280.92	N/A	N/A
MW-11	283.72	N/A	N/A
OW-3	307.35	N/A	N/A
OW-4	308.30	N/A	N/A
OW-5	307.41	N/A	N/A
TW-2	290.52	N/A	N/A

Note: N/A indicates groundwater level was not measured.
MP denotes measuring point.

Table 4
Groundwater Treatment System Air Sampling Data
Sampling Date: January 20, 2003

NOW Corporation Site
Town of Clinton, New York

Analyte	TW-1VE		VE-1VE		VE-2VE		TW-2AVE		ST-1		PAS		SVE-EXH		ST-4	
	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0
1,1-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	**16.0**	4.0	ND	1.0	ND	1.0
1,1-Dichloroethane	**1.3**	1.0	**1.1**	1.0	ND	1.0	**1.1**	1.0	**2.9**	1.0	**154.0**	4.0	**1.5**	1.0	ND	1.0
cis-1,2-Dichloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	**12.0**	4.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	**5.5**	1.0	**4.3**	1.0	**4.3**	1.0	**4.8**	1.0	**11.0**	1.0	**441.0**	4.0	**4.3**	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	**1.2**	1.0	**4.9**	4.0	**1.0**	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0
Trichloroethene	**20.0**	1.0	**19.0**	1.0	**18.0**	1.0	**20.0**	1.0	**26.0**	1.0	**224.0**	4.0	ND	1.0	ND	1.0
Toluene	**3.8**	1.0	**3.9**	1.0	**11.0**	1.0	**2.2**	1.0	**3.0**	1.0	**12.0**	4.0	**3.7**	1.0	**3.6**	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	**67.0**	4.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0
p&m -Xylene	**1.1**	1.0	ND	1.0	**1.9**	1.0	ND	1.0	**1.4**	1.0	**11.0**	4.0	**1.5**	1.0	**1.3**	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0

Notes:

1) All results are reported in ppbv.
*2) Positive results are presented in **bold** typeface.*
3) ND indicates Not Detected (Below RL).
4) RL = Reporting Limit

Sample IDs:

TW-1VE = Well TW-1 Dual-Phase Vapor Extraction
TW-2AVE = Well TW-2A Dual-Phase Vapor Extraction
VE-1VE = Well VE-1 Vapor Extraction
VE-2VE = Well VE-2 Vapor Extraction
ST-1 = Sampling Tap #1 (Raw; Four Vapor Extraction Wells Combined)
SVE-EXH = Intermediate Sampling Tap, Between (2) 55-gal. drum carbon adsorbers
ST-4 = Sampling Tap #4 (Final, After 2nd Carbon Adsorber)
PAS = Air-stripper stack emissions

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

LABORATORY REPORT

for

Earth Tech, Inc.
40 British American Blvd.
Latham, NY 12110

Attention: Keith Decker

PJ:55849.01

Report date: 02/04/03
Number of samples analyzed: 6
AES Project ID: 030120 A
Invoice #: 251501

ELAP ID#: 10709

AIHA ID#: 100307

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: EFF. 1/03
AES sample #: 030120 A01
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 01/20/03
Date sample received: 01/20/03
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-J-28	01/23/03
Total Dissolved Solids	SW-846	295	mg/l	LS-J-31	01/24/03
Oil & Grease	EPA-9070	<1	mg/l	JK-G-36	01/22/03
Cyanide,Total	EPA-9012	<0.01	mg/l	MC-L	01/27/03
Zinc	EPA-6010	<0.01	mg/l	KH-I-3J-12	01/31/03
Aluminum	EPA-6010	<0.1	mg/l	KH-I-3J-12	01/31/03
Arsenic	EPA-6010	<0.005	mg/l	KH-I-3J-12	01/31/03
Barium	EPA-6010	0.07	mg/l	KH-I-3J-12	01/31/03
Copper	EPA-6010	0.014	mg/l	KH-I-3J-12	01/31/03
Chromium	EPA-6010	<0.005	mg/l	KH-I-3J-12	01/31/03
Iron	EPA-6010	<0.05	mg/l	KH-I-3J-12	01/31/03
Manganese	EPA-6010	0.08	mg/l	KH-I-3J-12	01/31/03
Mercury	EPA-7471	<0.0004	mg/l	KH-HG-C-31	01/21/03
Nickel	EPA-6010	<0.05	mg/l	KH-I-3J-12	01/31/03
Benzene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Chlorobenzene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Chloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
1,1-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
1,2-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
cis-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc. Date Sampled: 01/20/03
CLIENT'S SAMPLE ID: EFF. 1/03 Date sample received: 01/20/03
AES sample #: 030120 A01 Samples taken by: R. Gray Location: Now Corp.
MATRIX: Water grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
trans-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
1,1-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Ethylbenzene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Tetrachloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Toluene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
1,1,1-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
1,1,2-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Trichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Vinyl Chloride	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
m,p-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
o-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc. Date Sampled: 01/20/03
CLIENT'S SAMPLE ID: INF. 1/03 Date sample received: 01/20/03
AES sample #: 030120 A02 Samples taken by: R. Gray Location: Now Corp.
MATRIX: Water grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-J-28	01/23/03
Total Dissolved Solids	SW-846	280	mg/l	LS-J-31	01/24/03
Oil & Grease	EPA-9070	<1	mg/l	JK-G-36	01/22/03
Cyanide,Total	EPA-9012	<0.01	mg/l	MC-L	01/30/03
Zinc	EPA-6010	<0.01	mg/l	KH-I-3J-12	01/31/03
Aluminum	EPA-6010	<0.1	mg/l	KH-I-3J-12	01/31/03
Arsenic	EPA-6010	<0.005	mg/l	KH-I-3J-12	01/31/03
Barium	EPA-6010	0.07	mg/l	KH-I-3J-12	01/31/03
Copper	EPA-6010	<0.005	mg/l	KH-I-3J-12	01/31/03
Chromium	EPA-6010	<0.005	mg/l	KH-I-3J-12	01/31/03
Iron	EPA-6010	<0.05	mg/l	KH-I-3J-12	01/31/03
Manganese	EPA-6010	0.11	mg/l	KH-I-3J-12	01/31/03
Mercury	EPA-7471	<0.0004	mg/l	KH-HG-C-31	01/21/03
Nickel	EPA-6010	<0.05	mg/l	KH-I-3J-12	01/31/03
Benzene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-F25	01/23/03
1,1-Dichloroethane	EPA-8260	120	ug/l	MG-SAT-F25	01/23/03
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
cis-1,2-Dichloroethene	EPA-8260	10	ug/l	MG-SAT-F25	01/23/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc. Date Sampled: 01/20/03
CLIENT'S SAMPLE ID: INF. 1/03 Date sample received: 01/20/03
AES sample #: 030120 A02 Samples taken by: R. Gray Location: Now Corp.
MATRIX: Water grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
1,1-Dichloroethene	EPA-8260	13	ug/l	MG-SAT-F25	01/23/03
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Toluene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
1,1,1-Trichloroethane	EPA-8260	500	ug/l	MG-SAT-F25	01/23/03
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Trichloroethene	EPA-8260	270	ug/l	MG-SAT-F25	01/23/03
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-F25	01/23/03
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: TW-1
AES sample #: 030120 A03
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 01/20/03
Date sample received: 01/20/03
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-F25	01/23/03
1,1-Dichloroethane	EPA-8260	86	ug/l	MG-SAT-F25	01/23/03
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
cis-1,2-Dichloroethene	EPA-8260	11	ug/l	MG-SAT-F25	01/23/03
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
1,1-Dichloroethene	EPA-8260	12	ug/l	MG-SAT-F25	01/23/03
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Toluene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
1,1,1-Trichloroethane	EPA-8260	34	ug/l	MG-SAT-F25	01/23/03
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Trichloroethene	EPA-8260	100	ug/l	MG-SAT-F25	01/23/03
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-F25	01/23/03
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: TW-2A
AES sample #: 030120 A04
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 01/20/03
Date sample received: 01/20/03
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-F25	01/23/03
1,1-Dichloroethane	EPA-8260	190	ug/l	MG-SAT-F25	01/23/03
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
cis-1,2-Dichloroethene	EPA-8260	14	ug/l	MG-SAT-F25	01/23/03
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
1,1-Dichloroethene	EPA-8260	18	ug/l	MG-SAT-F25	01/23/03
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Toluene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
1,1,1-Trichloroethane	EPA-8260	990	ug/l	MG-SAT-F25	01/23/03
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Trichloroethene	EPA-8260	430	ug/l	MG-SAT-F25	01/23/03
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-F25	01/23/03
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: TW-3
AES sample #: 030120 A05
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 01/20/03
Date sample received: 01/20/03
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-F25	01/23/03
1,1-Dichloroethane	EPA-8260	17	ug/l	MG-SAT-F25	01/23/03
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
cis-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
1,1-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Toluene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
1,1,1-Trichloroethane	EPA-8260	9	ug/l	MG-SAT-F25	01/23/03
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
Trichloroethene	EPA-8260	15	ug/l	MG-SAT-F25	01/23/03
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-F25	01/23/03
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-F25	01/23/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc. Date Sampled: 01/20/03
CLIENT'S SAMPLE ID: Trip Blank Date sample received: 01/20/03
AES sample #: 030120 A06 Samples taken by: R. Gray Location: Now Corp.
MATRIX: Water grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Chlorobenzene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Chloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
1,1-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
1,2-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
cis-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
trans-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
1,1-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Ethylbenzene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Tetrachloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Toluene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
1,1,1-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
1,1,2-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Trichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
Vinyl Chloride	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
m,p-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03
o-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-F25	01/23/03

APPROVED BY: Sara
Report date: 02/04/03

Chain of Custody Record

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Custody Seal #	Earth Tech Cooler #

Project Number	Project Name/Client
55849.01	NOW CORP.

Sample Custodian: (Signature) Roger Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: EPA 8260	METALS: ZN, AL, AS, BA, CN	CU, FE, MN, HG, NI	TDS, TSS	O+G	CYANIDE	Matrix: Sample Type: GW	Sample Container: 40 mL.
1	A01 EFF. 1/03	1-20-03	8.45	X				X						X	2
2			9:10	|					X	X			|	1
3			9:05	|							X		|	1
4			9:00	|								X	|	1
5			9:15	|									|	1
6	INF A02 1/03		9:30	|				X					|	2
7			9:45	|					X	X			|	1
8			9:40	|							X		|	1
9			9:35	|								X	|	1
10			9:50	|									|	1
11	TW-1 A03		10:05	|				X					|	2
12	TW-2A A04		10:10	|				X					|	2
13	TW-3 A05			↓					X					↓	2
14	TRIP BLANK A06								X						1
15															
16															
17	030120 A														
18															

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	1-20-03 1:50				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To: KEITH DECKER
EARTH TECH.
40 BRITISH AMERICAN BLVD.
LATHAM, N.Y. 12110

Remarks:

Federal Express Airbill No.:
Lab:

Check Delivery Method:

- ☐ Samples delivered in person
- ☐ Common carrier

Laboratory Receiving Notes:

Custody Seal Intact?

Temp. of Shipping Container:

Sample Condition:

White Copy - Lab Yellow Copy - File Pink Copy - Client

01/30/2003

Earth Tech
ATTN: Steve Choinere
40 British American Blvd.
Latham, NY 12110

Project Reference: NOW Corp., 55849.01
Lab Number: A3012101-01/08

Enclosed are results for sample(s) received 1/21/03 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Steve Choinere on 1/29/03.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: EarthTech
Attn: Steve Choiniere

Client's Project: NOW CORP., 55849.01
Date Received: 01/21/03
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A3012101-01		A3012101-02		A3012101-03		A3012101-04		A3012101-05	
Client Sample I.D.:		TW-1VE		VE-1VE		VE-2VE		TW-2AVE		ST	
Date Sampled:		01/20/03		01/20/03		01/20/03		01/20/03		01/20/03	
Date Analyzed:		01/21/03		01/21/03		01/21/03		01/21/03		01/22/03	
QC Batch No:		030121MS2A1		030121MS2A1		030121MS2A1		030121MS2A1		030122MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
ANALYTE	PQL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	1.3	1.0	1.1	1.0	ND	1.0	1.1	1.0	2.9	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	5.5	1.0	4.3	1.0	4.3	1.0	4.8	1.0	11	1.0
Benzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	1.2	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	20	1.0	19	1.0	18	1.0	20	1.0	26	1.0
Toluene	1.0	3.8	1.0	3.9	1.0	11	1.0	2.2	1.0	3.0	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	1.1	1.0	ND	1.0	1.9	1.0	ND	1.0	1.4	1.0
o-Xylene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

PQL = Practical Quantitation Limit
ND= Not Detected (below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date 1-29-03

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Client: EarthTech
Attn: Steve Choiniere

Client's Project: NOW CORP., 55849.01
Date Received: 01/21/03
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A3012101-06		A3012101-07		A3012101-08					
Client Sample I.D.:		PAS		SVE-EXH.		ST-4					
Date Sampled:		01/20/03		01/20/03		01/20/03					
Date Analyzed:		01/22/03		01/22/03		01/22/03					
QC Batch No:		030122MS2A1		030122MS2A1		030122MS2A1					
Analyst Initials:		SC		SC		SC					
Dilution Factor:		4.0		1.0		1.0					
ANALYTE	PQL	Result	RL	Result	RL	Result	RL				
Vinyl Chloride	1.0	ND	4.0	ND	1.0	ND	1.0				
Chloroethane	1.0	ND	4.0	ND	1.0	ND	1.0				
1,1-Dichloroethene	1.0	16	4.0	ND	1.0	ND	1.0				
1,1-Dichloroethane	1.0	154	4.0	1.5	1.0	ND	1.0				
c-1,2-Dichloroethene	1.0	12	4.0	ND	1.0	ND	1.0				
1,1,1-Trichloroethane	1.0	441	4.0	4.3	1.0	ND	1.0				
Benzene	1.0	4.9	4.0	1.0	1.0	ND	1.0				
1,2-Dichloroethane	1.0	ND	4.0	ND	1.0	ND	1.0				
Trichloroethene	1.0	224	4.0	ND	1.0	ND	1.0				
Toluene	1.0	12	4.0	3.7	1.0	3.6	1.0				
1,1,2-Trichloroethane	1.0	ND	4.0	ND	1.0	ND	1.0				
Tetrachloroethene	1.0	67	4.0	ND	1.0	ND	1.0				
Chlorobenzene	1.0	ND	4.0	ND	1.0	ND	1.0				
Ethylbenzene	1.0	ND	4.0	ND	1.0	ND	1.0				
p,&m-Xylene	1.0	11	4.0	1.5	1.0	1.3	1.0				
o-Xylene	1.0	ND	4.0	ND	1.0	ND	1.0				

PQL = Practical Quantitation Limit
ND= Not Detected (below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date 1-29-03

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 030121MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	01/21/03		01/21/03		01/21/03						
Data File ID:	21JAN005.D		21JAN003.D		21JAN004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	**Result ppbv**	**Spike Amount**	**Result ppbv**	**% Rec**	**Result ppbv**	**% Rec**	**RPD**	**Low %Rec**	**High %Rec**	**Max. RPD**	**Pass/ Fail**
1,1-Dichloroethene	0.0	10.0	9.3	93	9.2	92	1.0	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.5	95	9.6	96	1.5	70	130	30	Pass
Trichloroethene	0.0	10.0	10.7	107	10.2	102	5.3	70	130	30	Pass
Toluene	0.0	10.0	9.2	92	8.8	88	4.7	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	7.4	74	7.4	74	0.3	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson **Date:** 1-29-03

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 030122MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	01/22/03		01/22/03		01/22/03						
Data File ID:	22JAN005.D		22JAN003.D		22JAN004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	**Result ppbv**	**Spike Amount**	**Result ppbv**	**% Rec**	**Result ppbv**	**% Rec**	**RPD**	**Low %Rec**	**High %Rec**	**Max. RPD**	**Pass/ Fail**
1,1-Dichloroethene	0.0	10.0	9.5	95	9.3	93	2.2	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.0	100	9.5	95	4.5	70	130	30	Pass
Trichloroethene	0.0	10.0	10.9	109	10.4	104	5.2	70	130	30	Pass
Toluene	0.0	10.0	9.0	90	8.7	87	3.7	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	7.5	75	7.5	75	0.3	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 1-29-03

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Chain of Custody Record

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

FA A3012101

Custody Seal #	Earth Tech Cooler #

Project Number	Project Name/Client
55849.01	EARTH TECH NOW CORP.

Sample Custodian: (Signature) Roger Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: VOLATILE ORGANICS (ANALYTE LIST PER 2/12/98 BID FORM)	Matrix: Sample Type: AIR	Matrix: Sample Container: TEDLAR BAGS
01	TW-1VE	1-20-03	12:35	N/A	N/A			X	X	X
02	VE-1VE		12:30							
03	VE-2VE		12:25							
04	TW-2AVE		12:20							
05	ST		12:15							
06	PAS		12:10							
07	SVE-EXH.		12:05							
08	ST-4		12:00							
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	1-20-03 12:45				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
STEVE CHOINIERE	1/21/03 9:15	ATL via Fedex			

Send Lab Results To: ~~KEITH BECKER~~
EARTH TECH
40 BRITISH AMERICAN BLVD.
LATHAM, N.Y. 12110

Remarks: SEND ENOUGH BAGS BACK WITH NEXT COOLER FOR NEXT SAMP. EVENT.

~~Federal Express~~ Airbill No.:
Lab: 8334-6098-6592

Check Delivery Method:
- ☐ Samples delivered in person
- ☒ Common carrier

Laboratory Receiving Notes:
Custody Seal Intact?
Temp. of Shipping Container:
Sample Condition: VE-1VE 1 OF 2 RECV'D FLAT 01/21/03

White Copy - Lab Yellow Copy - File Pink Copy - Client

Operation, Maintenance and Monitoring Report
February 2003

NOW Corporation Site
Site 3-14-008

Work Assignment No.
D003821-29

Prepared for:

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

Prepared by:

Earth Tech of New York, Inc.
40 British American Boulevard
Latham, New York 12110

40 British American Boulevard, Latham, New York 12110

March 20, 2003

Mr. Saiban Mahamooth
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561

Re: NOW Corporation - Site #3-14-008
Monthly Summary Report – "February" 2003

Dear Mr. Mahamooth:

Telephone
518.951.2200
Facsimile
518.951.2300

Enclosed is a monthly summary report for the operation, monitoring and maintenance (OM&M) of the groundwater treatment system at the NOW Corporation site in the Town of Clinton, New York. This report covers the OM&M of the vapor extraction system (VES) and the groundwater pump-and-treat (P&T) system for a 31-day period (January 31 – March 3, 2003).

Except for a 1½-day interval in mid-February, the system was online and operational throughout the reporting period. Approximately 662,200 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 21,400 gallons per day (gpd). During the prior reporting period, the average discharge was 21,990 gpd. According to flow meter readings, all of the treated effluent was discharged to Crum Elbow Creek.

As of the last day of the reporting period, a total of 28,379,000 gallons of groundwater had been recovered and treated by the system since it became operational.

Table 1 summarizes influent and effluent data for samples collected on February 17, 2003. All effluent discharge requirements were met. Table 2 summarizes the operation and maintenance data collected on the last day of the reporting period. Table 3 summarizes monitoring well water-level data collected on the sampling date. Table 4 summarizes the vapor extraction system air sampling data, as well as the air-stripper emissions (sample PAS). A copy of the laboratory data is included in this report.

Earth Tech made four site visits to conduct the required system inspections, maintenance, monitoring well water-level measurements, and monthly sampling. On February 17th, both air stripper carbon barrels were exchanged for new carbon barrels. Pumping rates on two of the submersible pumps were increased on that date to enhance water table drawdown. On February 18th, the system was intentionally shut down; the three concrete settling tanks were drained and cleaned; and the system was restarted. Later that day, Earth Tech received an alarm fax report that the system had shut down due to high water in the final settling tank. Out technicians responded to the alarm on February 20th. The cause of the alarm was obstruction of the screen in the effluent flow meter, allowing water in the settling tank to rise to the alarm trigger level. The screen was

cleaned and the system was restarted. Our technicians also cleaned the flow meter and screen for recovery well TW-2A. As of the date of this report, the system has been operational without interruption since it was restarted on February 20th. As previously reported, the flow meters for the two infiltration wells have been indicating little to no flow into the wells. On March 3rd, the flow meters were disassembled, cleaned with dilute acid, and reassembled. They had become heavily caked with mineral deposits, hindering flow into the wells. It remains to be seen whether that was the only problem, or if perhaps the wells themselves need to be redeveloped. This will be evaluated on subsequent site visits.

Please feel free to contact me at (518) 951-2262 if you have any questions regarding either this report, or the operation of the treatment system.

Sincerely,

Stephen R. Choiniere
Project Manager

Attachments

Table 1
Summary of Influent and Effluent Data
Sampling Date: February 17, 2003
NOW Corporation Site
Town of Clinton, New York

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Treatment Requirements	(units)
			TW-1	TW-2A	TW-3		
Flow		21,361				Monitor	gpd
pH	6.8	7.1	NA	NA	NA	6.5 to 8.5	standard units
TSS	<1	<1	NA	NA	NA	50	mg/L
TDS	**285**	**278**	NA	NA	NA	1000	mg/L
Oil and Grease	<1.0	<1.0	NA	NA	NA	15	mg/L
Cyanide	<0.01	<0.01	NA	NA	NA	0.01	mg/L
Zinc	<0.01	<0.01	NA	NA	NA	0.15	mg/L
Aluminum, Total	<0.1	<0.1	NA	NA	NA	2	mg/L
Arsenic, Total	<0.005	<0.005	NA	NA	NA	0.05	mg/L
Barium, Total	**0.08**	**0.07**	NA	NA	NA	2	mg/L
Copper	<0.005	<0.005	NA	NA	NA	0.024	mg/L
Chromium	<0.005	<0.005	NA	NA	NA	0.1	mg/L
Iron	<0.05	<0.05	NA	NA	NA	0.6	mg/L
Manganese	**0.16**	**0.11**	NA	NA	NA	0.6	mg/L
Mercury	<0.0004	<0.0004	NA	NA	NA	0.0008	mg/L
Nickel	<0.05	<0.05	NA	NA	NA	0.2	mg/L
Benzene	<5	<0.5	<5	<5	<5	0.8	ug/L
Chlorobenzene	<5	<0.5	<5	<5	<5	5	ug/L
Chloroethane	<10	<0.5	<10	<10	<10	5	ug/L
1,1-Dichloroethane	**170**	<0.5	**88**	**270**	**20**	5	ug/L
1,2-Dichloroethane	<5	<0.5	<5	<5	<5	1.6	ug/L
cis-1,2-Dichloroethene	**9.9**	<0.5	**6**	**15**	<5	5	ug/L
trans-1,2-Dichloroethene	<5	<0.5	<5	<5	<5	5	ug/L
1,1-Dichloroethene	<5	<0.5	**9.7**	**29**	<5	0.5	ug/L
Ethylbenzene	<5	<0.5	<5	<5	<5	5	ug/L
Tetrachloroethene	<5	<0.5	<5	<5	<5	1.4	ug/L
Toluene	<5	<0.5	<5	<5	<5	5	ug/L
1,1,1-Trichloroethane	**820**	<0.5	**14**	**1800**	**17**	5	ug/L
1,1,2-Trichloroethane	<5	<0.5	<5	<5	<5	1.2	ug/L
Trichloroethene	**340**	<0.5	**63**	**640**	**16**	5	ug/L
Vinyl Chloride	<10	<0.5	<10	<10	<10	0.6	ug/L
1,2- and 1,4-Xylenes	<5	<0.5	<5	<5	<5	10	ug/L
1,3-Xylene	<5	<0.5	<5	<5	<5	5	ug/L

Notes:

*1) Positive results are presented in **bold** typeface. Numeric values are in units shown in far right column.*

*2) Boxed in **bold** denotes exceedance of treatment requirements.*

3) NA indicates not analyzed for the indicated analyte.

*4) "**J**" indicates an estimated concentration below the method detection limit.*

Table 2
Summary of February 2003 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		3/3/2003	Units
TW-1			
	Pumping Rate	4	GPM
	Water Level Above Transducer	19.27	feet
	Flow Meter Reading	9,934,900	gallons
	Pump Pressure	66	psi
TW-2A			
	Pumping Rate	12	GPM
	Water Level Above Transducer	18.15	feet
	Flow Meter Reading	6,872,400	gallons
	Pump Pressure	16	psi
TW-3			
	Pumping Rate	6	GPM
	Water Level Above Transducer	25.52	feet
	Flow Meter Reading	6,489,900	gallons
	Pump Pressure	60	psi
Air Stripper			
	Stripper Blower Pressure	20	inches H_2O
	Air Temperature in Stripper	45	°F
	Pressure Gauge - Left Leg	1.5	inches H_2O
	Pressure Gauge - Right Leg	1.7	inches H_2O
	Pressure/Vacuum on the Stripper	-	inches H_2O
Sand Filter			
	Influent Pressure	Offline	
	Effluent Pressure	Offline	
	Differential Pressure Across Filter	-	
Effluent Flow			
	Total System Meter Reading	28,378,800	gallons
	IW-1 Flow Meter Reading	1,313,195	gallons
	IW-2 Flow Meter Reading	1,748,748	gallons
Vapor Extraction System			
	Vapor Blower Vacuum	10.0	inches Hg
	Vacuum before Filter with Dilution Air	9.5	inches Hg
	Vacuum on Knock-out Pot	12.5	inches Hg
	Blower Inlet Temperature	62	°F
	Blower Outlet Temperature	200	°F
	Pressure After Blower	40	psi
	Heat Exchanger Outlet Temperature	68	°F

Note: N/A indicates Not Available.
NW - Not working

Table 3
February 2003 Groundwater Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	MP Elevation	2/17/2003 Depth to Water (Ft below MP)	2/17/2003 GW Elevation
MW-1	289.50	16.12	273.38
MW-2	332.51	30.05	302.46
MW-3	312.83	31	281.83
MW-3S	312.51	26.45	286.06
MW-4	298.29	24.95	273.34
MW-4D	298.16	24.82	273.34
MW-5	285.48	19.65	265.83
MW-6S	287.90	22.99	264.91
MW-6D	287.25	13.75	273.50
MW-7S	292.12	31.58	260.54
MW-7D	292.54	66.00	226.54
OW-1	307.75	54.85	252.90
OW-2	305.96	72.45	233.51
OW-6	294.81	6.38	288.43
IW-1	312.46	9.19	303.27
IW-2	306.56	3.44	303.12
MW-8	283.65	N/A	N/A
MW-9	275.37	N/A	N/A
MW-10	280.92	N/A	N/A
MW-11	283.72	N/A	N/A
OW-3	307.35	N/A	N/A
OW-4	308.30	N/A	N/A
OW-5	307.41	N/A	N/A
TW-2	290.52	N/A	N/A

Note: N/A indicates groundwater level was not measured.
MP denotes measuring point.

Table 4
Groundwater Treatment System Air Sampling Data
Sampling Date: February 17, 2003

NOW Corporation Site
Town of Clinton, New York

Analyte	TW-1VE		VE-1VE		VE-2VE		TW-2AVE		ST-1		PAS		SVE-EXH		ST-4	
	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0
1,1-Dichloroethene	**5.0**	1.0	**4.9**	1.0	**4.7**	1.0	**4.7**	1.0	**4.6**	1.0	**13.0**	4.0	ND	1.0	ND	1.0
1,1-Dichloroethane	**18.0**	1.0	**21.0**	1.0	**21.0**	1.0	**21.0**	1.0	**22.0**	1.0	**160.0**	4.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	**4.6**	1.0	**5.9**	1.0	**6.1**	1.0	**6.2**	1.0	**6.7**	1.0	**8.1**	4.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	**32.0**	1.0	**37.0**	1.0	**38.0**	1.0	**37.0**	1.0	40.0	1.0	**590.0**	4.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0
Trichloroethene	**110.0**	1.0	**140.0**	1.0	**140.0**	1.0	**140.0**	1.0	**150.0**	1.0	**220.0**	4.0	ND	1.0	ND	1.0
Toluene	**7.8**	1.0	**6.2**	1.0	**3.1**	1.0	**5.9**	1.0	**4.2**	1.0	ND	4.0	**3.1**	1.0	**2.6**	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	**9.9**	4.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0
p&m -Xylene	**1.2**	1.0	**1.4**	1.0	**1.0**	1.0	**1.2**	1.0	**1.0**	1.0	ND	4.0	ND	1.0	ND	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	4.0	ND	1.0	ND	1.0

Notes:

1) All results are reported in ppbv.

2) Positive results are presented in ***bold*** *typeface.*

3) ND indicates Not Detected (Below RL).

4) RL = Reporting Limit

Sample IDs:

TW-1VE = Well TW-1 Dual-Phase Vapor Extraction

TW-2AVE = Well TW-2A Dual-Phase Vapor Extraction

VE-1VE = Well VE-1 Vapor Extraction

VE-2VE = Well VE-2 Vapor Extraction

ST-1 = Sampling Tap #1 (Raw; Four Vapor Extraction Wells Combined)

SVE-EXH = Intermediate Sampling Tap, Between (2) 55-gal. drum carbon adsorbers

ST-4 = Sampling Tap #4 (Final, After 2nd Carbon Adsorber)

PAS = Air-stripper stack emissions

Adirondack Environmental Services, Inc.

Experience is the solution

314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

LABORATORY REPORT

for

Earth Tech, Inc.
40 British American Blvd.
Latham, NY 12110

Attention: Steve Choiniere

PJ:55849.02

Report date: 03/05/03
Number of samples analyzed: 6
AES Project ID: 030218 F
Invoice #: 251846

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc. Date Sampled: 02/17/03
CLIENT'S SAMPLE ID: EFF. 2/03 Date sample received: 02/18/03
AES sample #: 030218 F01 Samples taken by: R. Gray Location: Now Corp.
MATRIX: Water grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-A-19	02/20/03
Total Dissolved Solids	SW-846	278	mg/l	LS-J-37	02/21/03
Oil & Grease	EPA-9070	<1	mg/l	JK-H-2	02/28/03
Cyanide,Total	EPA-9012	<0.01	mg/l	MC-L	02/25/03
Zinc	EPA-6010	<0.01	mg/l	KH-I-4F-30	02/26/03
Aluminum	EPA-6010	<0.1	mg/l	KH-I-4F-30	02/26/03
Arsenic	EPA-6010	<0.005	mg/l	KH-I-4F-30	02/26/03
Barium	EPA-6010	0.07	mg/l	KH-I-4F-30	02/26/03
Copper	EPA-6010	<0.005	mg/l	KH-I-4F-30	02/26/03
Chromium	EPA-6010	<0.005	mg/l	KH-I-4F-30	02/26/03
Iron	EPA-6010	<0.05	mg/l	KH-I-4F-30	02/26/03
Manganese	EPA-6010	0.11	mg/l	KH-I-4F-30	02/26/03
Mercury	EPA-7471	<0.0004	mg/l	KH-HG-C-48	02/20/03
Nickel	EPA-6010	<0.05	mg/l	KH-I-4F-30	02/26/03
Benzene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Chlorobenzene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Chloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
1,1-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
1,2-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
cis-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc. Date Sampled: 02/17/03
CLIENT'S SAMPLE ID: EFF. 2/03 Date sample received: 02/18/03
AES sample #: 030218 F01 Samples taken by: R. Gray Location: Now Corp.
MATRIX: Water grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
trans-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
1,1-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Ethylbenzene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Tetrachloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Toluene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
1,1,1-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
1,1,2-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Trichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Vinyl Chloride	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
m,p-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
o-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc. Date Sampled: 02/17/03
CLIENT'S SAMPLE ID: INF. 2/03 Date sample received: 02/18/03
AES sample #: 030218 F02 Samples taken by: R. Gray Location: Now Corp.
MATRIX: Water grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Total Suspended Solids	EPA-160.2	<1	mg/l	JK-A-19	02/20/03
Total Dissolved Solids	SW-846	285	mg/l	LS-J-37	02/21/03
Oil & Grease	EPA-9070	<1	mg/l	JK-H-2	02/28/03
Cyanide,Total	EPA-9012	<0.01	mg/l	MC-L	02/25/03
Zinc	EPA-6010	<0.01	mg/l	KH-I-4F-30	02/26/03
Aluminum	EPA-6010	<0.1	mg/l	KH-I-4F-30	02/26/03
Arsenic	EPA-6010	<0.005	mg/l	KH-I-4F-30	02/26/03
Barium	EPA-6010	0.08	mg/l	KH-I-4F-30	02/26/03
Copper	EPA-6010	<0.005	mg/l	KH-I-4F-30	02/26/03
Chromium	EPA-6010	<0.005	mg/l	KH-I-4F-30	02/26/03
Iron	EPA-6010	<0.05	mg/l	KH-I-4F-30	02/26/03
Manganese	EPA-6010	0.16	mg/l	KH-I-4F-30	02/26/03
Mercury	EPA-7471	<0.0004	mg/l	KH-HG-C-48	02/20/03
Nickel	EPA-6010	<0.05	mg/l	KH-I-4F-30	02/26/03
Benzene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-F27	02/24/03
1,1-Dichloroethane	EPA-8260	170	ug/l	MG-SAT-F27	02/24/03
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
cis-1,2-Dichloroethene	EPA-8260	9.9	ug/l	MG-SAT-F27	02/24/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc. Date Sampled: 02/17/03
CLIENT'S SAMPLE ID: INF. 2/03 Date sample received: 02/18/03
AES sample #: 030218 F02 Samples taken by: R. Gray Location: Now Corp.
MATRIX: Water grab

continued:

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
1,1-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Toluene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
1,1,1-Trichloroethane	EPA-8260	820	ug/l	MG-SAT-F27	02/24/03
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Trichloroethene	EPA-8260	340	ug/l	MG-SAT-F27	02/24/03
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-F27	02/24/03
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: TW-1
AES sample #: 030218 F03
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 02/17/03
Date sample received: 02/18/03
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-F27	02/24/03
1,1-Dichloroethane	EPA-8260	88	ug/l	MG-SAT-F27	02/24/03
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
cis-1,2-Dichloroethene	EPA-8260	6.0	ug/l	MG-SAT-F27	02/24/03
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
1,1-Dichloroethene	EPA-8260	9.7	ug/l	MG-SAT-F27	02/24/03
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Toluene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
1,1,1-Trichloroethane	EPA-8260	14	ug/l	MG-SAT-F27	02/24/03
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Trichloroethene	EPA-8260	63	ug/l	MG-SAT-F27	02/24/03
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-F27	02/24/03
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: TW-2A
AES sample #: 030218 F04
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 02/17/03
Date sample received: 02/18/03
Location: New Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-F27	02/24/03
1,1-Dichloroethane	EPA-8260	270	ug/l	MG-SAT-F27	02/24/03
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
cis-1,2-Dichloroethene	EPA-8260	15	ug/l	MG-SAT-F27	02/24/03
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
1,1-Dichloroethene	EPA-8260	29	ug/l	MG-SAT-F27	02/24/03
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Toluene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
1,1,1-Trichloroethane	EPA-8260	1800	ug/l	MG-SAT-F27	02/24/03
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Trichloroethene	EPA-8260	640	ug/l	MG-SAT-F27	02/24/03
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-F27	02/24/03
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: TW-3
AES sample #: 030218 F05
Samples taken by: R. Gray
MATRIX: Water
Date Sampled: 02/17/03
Date sample received: 02/18/03
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Chlorobenzene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Chloroethane	EPA-8260	<10	ug/l	MG-SAT-F27	02/24/03
1,1-Dichloroethane	EPA-8260	20	ug/l	MG-SAT-F27	02/24/03
1,2-Dichloroethane	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
cis-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
trans-1,2-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
1,1-Dichloroethene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Ethylbenzene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Tetrachloroethene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Toluene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
1,1,1-Trichloroethane	EPA-8260	17	ug/l	MG-SAT-F27	02/24/03
1,1,2-Trichloroethane	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
Trichloroethene	EPA-8260	16	ug/l	MG-SAT-F27	02/24/03
Vinyl Chloride	EPA-8260	<10	ug/l	MG-SAT-F27	02/24/03
m,p-Xylene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03
o-Xylene	EPA-8260	<5	ug/l	MG-SAT-F27	02/24/03

Adirondack Environmental Services, Inc.
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

CLIENT: Earth Tech, Inc.
CLIENT'S SAMPLE ID: Trip Blank
AES sample #: 030218 F06 Samples taken by: R. Gray
MATRIX: Water

Date Sampled: 02/17/03
Date sample received: 02/18/03
Location: Now Corp.
grab

PARAMETER PERFORMED	METHOD	RESULT	UNITS	NOTEBK REF	TEST DATE
Benzene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Chlorobenzene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Chloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
1,1-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
1,2-Dichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
cis-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
trans-1,2-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
1,1-Dichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Ethylbenzene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Tetrachloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Toluene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
1,1,1-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
1,1,2-Trichloroethane	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Trichloroethene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
Vinyl Chloride	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
m,p-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03
o-Xylene	EPA-8260	<0.5	ug/l	MG-SAT-F27	02/24/03

APPROVED BY:
Report date: 03/05/03

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Chain of Custody Record

030218 F

Custody Seal #	Earth Tech Cooler #

Project Number	Project Name/Client
55849.02	EARTH TECH. NOW CORP.

Sample Custodian: (Signature) Roger Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: EPA 8260	METALS: ZN, AL, AS, BA, CU, FE, MN, HG, NI	TDS, TSS	O+G	CYANIDE	Matrix: Sample Type: GW	Sample Container: 40 mL.
1	EFF 2/03	2-17-03	10:30	X				X					X	3
2			10:50						X	X				1
3	FO1		10:40							X				1
4			10:35								X			1
5			10:45									X		1
6	INF. 2/03		11:00					X						3
7			11:15						X	X				1
8	FO2		11:10							X				1
9			11:05								X			1
10			11:20									X		1
11	TW-1 FO3		11:25					X						2
12	TW-2A FO4		11:30					X						2
13	TW-3 FO5		11:35	↓				X					↓	2
14	TRIP-BLANK FO6							X						1
15														
16														
17														
18														

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	2-18-03 8:15				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
		M L 2/18/03 816			

Send Lab Results To: STEVE CHOINIERE
EARTH TECH.
40 BRITISH AMERICAN BLVD.
LATHAM, N.Y. 12110

Remarks:

Federal Express Airbill No.:
Lab:

Check Delivery Method:

- ☐ Samples delivered in person
- ☐ Common carrier

Laboratory Receiving Notes:

Custody Seal Intact?

Temp. of Shipping Container:

Sample Condition:

White Copy - Lab Yellow Copy - File Pink Copy - Client

Rev. 10/98

F514/Earth.Sci

02/27/2003

Earth Tech
ATTN: Steve Choinere
40 British American Blvd.
Latham, NY 12110

Project Reference: NOW Corp., 55849.02
Lab Number: A3021901-01/08

Enclosed are results for sample(s) received 2/19/03 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Steve Choinere on 2/27/03.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: EarthTech
Attn: Steve Choiniere

Client's Project: NOW CORP., 55849.02
Date Received: 02/19/03
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A3021901-01		A3021901-02		A3021901-03		A3021901-04		A3021901-05	
Client Sample I.D.:		TW-1VE 2/03		VE-1VE 2/03		VE-2VE 2/03		TW-2AVE 2/03		ST-1 2/03	
Date Sampled:		02/17/03		02/17/03		02/17/03		02/17/03		02/17/03	
Date Analyzed:		02/20/03		02/20/03		02/20/03		02/20/03		02/20/03	
QC Batch No:		030220MS2A1		030220MS2A1		030220MS2A1		030220MS2A1		030220MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
ANALYTE	PQL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	1.0	5.0	1.0	4.9	1.0	4.7	1.0	4.7	1.0	4.6	1.0
1,1-Dichloroethane	1.0	18	1.0	21	1.0	21	1.0	21	1.0	22	1.0
c-1,2-Dichloroethene	1.0	4.6	1.0	5.9	1.0	6.1	1.0	6.2	1.0	6.7	1.0
1,1,1-Trichloroethane	1.0	32	1.0	37	1.0	38	1.0	37	1.0	40	1.0
Benzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	110	1.0	140	1.0	140	1.0	140	1.0	150	1.0
Toluene	1.0	7.8	1.0	6.2	1.0	3.1	1.0	5.9	1.0	4.2	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	1.2	1.0	1.4	1.0	1.0	1.0	1.2	1.0	1.0	1.0
o-Xylene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

PQL = Practical Quantitation Limit
ND= Not Detected (below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date 2-27-03

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Client: EarthTech
Attn: Steve Choiniere

Client's Project: NOW CORP., 55849.02
Date Received: 02/19/03
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A3021901-06		A3021901-07		A3021901-08					
Client Sample I.D.:		PAS 2/03		SVE-EXH 2/03		ST-4 2/03					
Date Sampled:		02/17/03		02/17/03		02/17/03					
Date Analyzed:		02/20/03		02/20/03		02/20/03					
QC Batch No:		030220MS2A1		030220MS2A1		030220MS2A1					
Analyst Initials:		SC		SC		SC					
Dilution Factor:		4.0		1.0		1.0					
ANALYTE	PQL	Result	RL	Result	RL	Result	RL				
Vinyl Chloride	1.0	ND	4.0	ND	1.0	ND	1.0				
Chloroethane	1.0	ND	4.0	ND	1.0	ND	1.0				
1,1-Dichloroethene	1.0	13	4.0	ND	1.0	ND	1.0				
1,1-Dichloroethane	1.0	160	4.0	ND	1.0	ND	1.0				
c-1,2-Dichloroethene	1.0	8.1	4.0	ND	1.0	ND	1.0				
1,1,1-Trichloroethane	1.0	590	4.0	ND	1.0	ND	1.0				
Benzene	1.0	ND	4.0	ND	1.0	ND	1.0				
1,2-Dichloroethane	1.0	ND	4.0	ND	1.0	ND	1.0				
Trichloroethene	1.0	220	4.0	ND	1.0	ND	1.0				
Toluene	1.0	ND	4.0	3.1	1.0	2.6	1.0				
1,1,2-Trichloroethane	1.0	ND	4.0	ND	1.0	ND	1.0				
Tetrachloroethene	1.0	9.9	4.0	ND	1.0	ND	1.0				
Chlorobenzene	1.0	ND	4.0	ND	1.0	ND	1.0				
Ethylbenzene	1.0	ND	4.0	ND	1.0	ND	1.0				
p,&m-Xylene	1.0	ND	4.0	ND	1.0	ND	1.0				
o-Xylene	1.0	ND	4.0	ND	1.0	ND	1.0				

PQL = Practical Quantitation Limit
ND= Not Detected (below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 2-27-03

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 030220MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	02/20/03		02/20/03		02/20/03						
Data File ID:	20FEB005.D		20FEB003.D		20FEB004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	**Result ppbv**	**Spike Amount**	**Result ppbv**	**% Rec**	**Result ppbv**	**% Rec**	**RPD**	**Low %Rec**	**High %Rec**	**Max. RPD**	**Pass/ Fail**
1,1-Dichloroethene	0.0	10.0	10.1	101	9.9	99	2.2	70	130	25	Pass
Methylene Chloride	0.0	10.0	9.9	99	9.4	94	5.0	70	130	25	Pass
Trichloroethene	0.0	10.0	10.1	101	9.7	97	4.3	70	130	25	Pass
Toluene	0.0	10.0	10.0	100	9.4	94	6.1	70	130	25	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	12.6	126	12.1	121	4.1	70	130	25	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson **Date:** 2-27-03

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Chain of Custody Record

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

A302180|

Custody Seal #	Earth Tech Cooler #

Project Number	Project Name/Client
55849.02	EARTH TECH. NOW CORP.

Sample Custodian: (Signature) Roger Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: VOLATILE ORGANICS (ANALYTE LIST PER 2/12/98 BID FORM)	Matrix: Sample Type: AIR	Sample Container: TEDLAR BAGS
1	TW-1VE 2/03	2-17-03	11:35	N/A	N/A			X	X	2
2	VE-1VE 2/03		11:40							
3	VE-2VE 2/03		11:45							
4	TW-2AVE 2/03		11:50							
5	ST-1 2/03		12:05							
6	PAS 2/03		12:10							
7	SVE-EXH. 2/03		11:55							
8	ST-4 2/03		[illegible] 12:00							
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	2-17-03 12:30	FedEX			
Relinquished by: (Signature) FedEX	Date / Time 2/19/03 0900	Received by: (Signature) Paul Cox ATC	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To: STEVE CHOINIERE
EARTH TECH
40 BRITISH AMERICAN BLVD.
LATHAM, N.Y. 12110

Remarks: SEND ENOUGH BAGS BACK WITH COOLER FOR OUR NEXT SAMP. EVENT C/O ROGER GRAY

Federal Express Airbill No.:

Lab: 8389-5040-9805

Check Delivery Method:

- ☐ Samples delivered in person
- ☐ Common carrier

Laboratory Receiving Notes:

Custody Seal Intact?

Temp. of Shipping Container:

Sample Condition:

White Copy - Lab Yellow Copy - File Pink Copy - Client

Operation, Maintenance and Monitoring Report
March 2003

NOW Corporation Site
Site 3-14-008

Work Assignment No.
D003821-29

Prepared for:

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

Prepared by:

Earth Tech of New York, Inc.
40 British American Boulevard
Latham, New York 12110

April 18, 2003

Mr. Saiban Mahamooth
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561

Re: NOW Corporation - Site #3-14-008
Monthly Summary Report – "March" 2003

Dear Mr. Mahamooth:

Enclosed is a monthly summary report for the operation, monitoring and maintenance (OM&M) of the groundwater treatment system at the NOW Corporation site in the Town of Clinton, New York. This report covers the OM&M of the vapor extraction system (VES) and the groundwater pump-and-treat (P&T) system for a 25-day period (March 3 – March 28, 2003).

The system was online and operational throughout the reporting period, with no downtime. Approximately 752,000 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 30,100 gallons per day (gpd). During the prior reporting period, the average discharge was 21,400 gpd. According to flow meter readings, nearly all of the treated effluent was discharged to Crum Elbow Creek. Upon completion of the maintenance procedures presented in last month's report, at least 1300 gallons of effluent flowed into infiltration well IW-1during the reporting period; the comparable figure for IW-2 was 500 gallons.

As of the last day of the reporting period, a total of 29,131,000 gallons of groundwater had been recovered and treated by the system since it became operational.

Table 1 summarizes influent and effluent data for samples collected on March 14, 2003. All effluent discharge requirements were met. Table 2 summarizes the operation and maintenance data collected on the last day of the reporting period. Table 3 summarizes monitoring well water-level data collected on the sampling date. Table 4 summarizes the vapor extraction system air sampling data, as well as air-stripper emissions (sample PAS). A copy of the laboratory data is included in this report.

Earth Tech made two site visits to conduct the required system inspections, maintenance, monitoring well water-level measurements, and monthly sampling. On March 14th, in addition to the monthly sampling, the oil was changed in the vapor blower motor, and the sight glass was cleaned. It was noted on March 28th that surface water had accumulated in the meter pit to a depth such that the pit will need to be pumped out on the next site visit. Pumping rates on the submersible pumps were also increased to enhance water table drawdown.

40 British American Boulevard, Latham, New York 12110

As of the date of this report, the system has been operational without interruption since it was restarted following "emergency" service on February 20th. As previously reported, the flow meters for the two infiltration wells were disassembled on March 3rd, cleaned with dilute acid, and reassembled. They had become heavily caked with mineral deposits, hindering flow into the wells. Since that maintenance service was performed, some flow into the wells has been reestablished, albeit at a very low rate. It remains to be seen whether the clogged meters were the only problem, or if perhaps the wells themselves need to be redeveloped. This will be evaluated on future site visits.

Please feel free to contact me at (518) 951-2262 if you have any questions regarding either this report, or the operation of the treatment system.

Sincerely,

Earth Tech of New York, Inc.

Stephen R. Choiniere
Project Manager

Attachments

Telephone
518.951.2200
Facsimile
518.951.2300

Table 1
Summary of Influent and Effluent Data
Sampling Date: March 14, 2003
NOW Corporation Site
Town of Clinton, New York

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Treatment Requirements	(units)
			TW-1	TW-2A	TW-3		
Flow		30,080				Monitor	gpd
pH	6.8	7.1	NA	NA	NA	6.5 to 8.5	standard units
TSS	<1	<1	NA	NA	NA	50	mg/L
TDS	**282**	**262**	NA	NA	NA	1000	mg/L
Oil and Grease	<1.0	<1.0	NA	NA	NA	15	mg/L
Cyanide	<0.01	<0.01	NA	NA	NA	0.01	mg/L
Zinc	<0.01	<0.01	NA	NA	NA	0.15	mg/L
Aluminum, Total	<0.1	<0.100	NA	NA	NA	2	mg/L
Arsenic, Total	<0.005	<0.005	NA	NA	NA	0.05	mg/L
Barium, Total	**0.082**	**0.082**	NA	NA	NA	2	mg/L
Copper	<0.005	<0.005	NA	NA	NA	0.024	mg/L
Chromium	<0.005	<0.005	NA	NA	NA	0.1	mg/L
Iron	<0.05	<0.05	NA	NA	NA	0.6	mg/L
Manganese	**0.12**	**0.095**	NA	NA	NA	0.6	mg/L
Mercury	<0.0004	<0.0004	NA	NA	NA	0.0008	mg/L
Nickel	<0.020	<0.020	NA	NA	NA	0.2	mg/L
Benzene	<5	<0.5	<5	<5	<5	0.8	ug/L
Chlorobenzene	<5	<0.5	<5	<5	<5	5	ug/L
Chloroethane	<10	<0.5	<10	<10	<10	5	ug/L
1,1-Dichloroethane	<5	<0.5	**59**	**170**	**17**	5	ug/L
1,2-Dichloroethane	**120**	<0.5	<5	<5	<5	1.6	ug/L
cis-1,2-Dichloroethene	**7.5**	<0.5	<5	**13**	<5	5	ug/L
trans-1,2-Dichloroethene	<5	<0.5	<5	<5	<5	5	ug/L
1,1-Dichloroethene	**12**	<0.5	<5	**18**	<5	0.5	ug/L
Ethylbenzene	<5	<0.5	<5	<5	<5	5	ug/L
Tetrachloroethene	<5	<0.5	<5	<5	<5	1.4	ug/L
Toluene	<5	<0.5	<5	<5	<5	5	ug/L
1,1,1-Trichloroethane	<5	<0.5	<5	<5	<5	5	ug/L
1,1,2-Trichloroethane	<5	<0.5	<5	<5	<5	1.2	ug/L
Trichloroethene	**280**	<0.5	**32**	**440**	**15**	5	ug/L
Vinyl Chloride	<10	<0.5	<10	<10	<10	0.6	ug/L
1,2- and 1,4-Xylenes	<5	<0.5	<5	<5	<5	10	ug/L
1,3-Xylene	<5	<0.5	<5	<5	<5	5	ug/L

Notes:

1) Positive results are presented in ***bold*** *typeface. Numeric values are in units shown in far right column.*

2) Boxed in ***bold*** *denotes exceedance of treatment requirements.*

3) NA indicates not analyzed for the indicated analyte.

*4) "**J**" indicates an estimated concentration below the method detection limit.*

Table 2
Summary of March 2003 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		3/28/2003	Units
TW-1			
	Pumping Rate	7	GPM
	Water Level Above Transducer	25.4	feet
	Flow Meter Reading	74,100	gallons
	Pump Pressure	57	psi
TW-2A			
	Pumping Rate	13	GPM
	Water Level Above Transducer	34.83	feet
	Flow Meter Reading	7,325,700	gallons
	Pump Pressure	19	psi
TW-3			
	Pumping Rate	6	GPM
	Water Level Above Transducer	25.57	feet
	Flow Meter Reading	6,690,200	gallons
	Pump Pressure	52	psi
Air Stripper			
	Stripper Blower Pressure	19	inches H_2O
	Air Temperature in Stripper	48	°F
	Pressure Gauge - Left Leg	1.4	inches H_2O
	Pressure Gauge - Right Leg	1.4	inches H_2O
	Pressure/Vacuum on the Stripper	0.2	inches H_2O
Sand Filter			
	Influent Pressure	9	psi
	Effluent Pressure	8	psi
	Differential Pressure Across Filter	1	psi
Effluent Flow			
	Total System Meter Reading	29,130,800	gallons
	IW-1 Flow Meter Reading	2,977,300	gallons
	IW-2 Flow Meter Reading	1,032,800	gallons
Vapor Extraction System			
	Vapor Blower Vacuum	11.5	inches Hg
	Vacuum before Filter with Dilution Air	11.0	inches Hg
	Vacuum on Knock-out Pot	14.5	inches Hg
	Blower Inlet Temperature	66	°F
	Blower Outlet Temperature	218	°F
	Pressure After Blower	30	psi
	Heat Exchanger Outlet Temperature	66	°F

Note: N/A indicates Not Available.
NW - Not working

Table 3
March 2003 Groundwater Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	MP Elevation	3/14/2003 Depth to Water (Ft below MP)	3/14/2003 GW Elevation
MW-1	289.50	10.83	278.67
MW-2	332.51	26.52	305.99
MW-3	312.83	24.88	287.95
MW-3S	312.51	23.57	288.94
MW-4	298.29	21.68	276.61
MW-4D	298.16	21.50	276.66
MW-5	285.48	18.55	266.93
MW-6S	287.90	4.74	283.16
MW-6D	287.25	7.39	279.86
MW-7S	292.12	27.39	264.73
MW-7D	292.54	72.00	220.54
OW-1	307.75	53.68	254.07
OW-2	305.96	71.36	234.60
OW-6	294.81	4.77	290.04
IW-1	312.46	8.84	303.62
IW-2	306.56	6.68	299.88
MW-8	283.65	N/A	N/A
MW-9	275.37	N/A	N/A
MW-10	280.92	N/A	N/A
MW-11	283.72	N/A	N/A
OW-3	307.35	N/A	N/A
OW-4	308.30	N/A	N/A
OW-5	307.41	N/A	N/A
TW-2	290.52	N/A	N/A

Note: N/A indicates groundwater level was not measured.
MP denotes measuring point.

Table 4
Groundwater Treatment System Air Sampling Data
Sampling Date: March 14, 2003

NOW Corporation Site
Town of Clinton, New York

Analyte	TW-1VE		VE-1VE		VE-2VE		TW-2AVE		ST-1		PAS		SVE-EXH		ST-4	
	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0
1,1-Dichloroethene	**2.1**	1.0	**2.1**	1.0	**2.3**	1.0	**2.4**	1.0	**2.6**	1.0	**24.0**	10.0	ND	1.0	ND	1.0
1,1-Dichloroethane	**10.0**	1.0	**10.0**	1.0	**11.0**	1.0	**11.0**	1.0	**14.0**	1.0	**250.0**	10.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	**4.7**	1.0	**4.9**	1.0	**4.9**	1.0	**5.0**	1.0	**5.5**	1.0	**13.0**	10.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	**13.0**	1.0	**15.0**	1.0	**15.0**	1.0	**17.0**	1.0	**29.0**	1.0	**870.0**	10.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0
Trichloroethene	**100.0**	1.0	**100.0**	1.0	**110.0**	1.0	**110.0**	1.0	**120.0**	1.0	**330.0**	10.0	ND	1.0	ND	1.0
Toluene	**1.7**	1.0	**2.2**	1.0	**1.9**	1.0	**1.6**	1.0	**1.6**	1.0	ND	10.0	**1.3**	1.0	**1.3**	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	**11.0**	10.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0
p&m -Xylene	**1.4**	1.0	**2.1**	1.0	**1.9**	1.0	**1.4**	1.0	**1.2**	1.0	ND	10.0	ND	1.0	**1.1**	1.0
o-Xylene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	10.0	ND	1.0	ND	1.0

Notes:

1) All results are reported in ppbv.
*2) Positive results are presented in **bold** typeface.*
3) ND indicates Not Detected (Below RL).
4) RL = Reporting Limit

Sample IDs:

TW-1VE = Well TW-1 Dual-Phase Vapor Extraction
TW-2AVE = Well TW-2A Dual-Phase Vapor Extraction
VE-1VE = Well VE-1 Vapor Extraction
VE-2VE = Well VE-2 Vapor Extraction
ST-1 = Sampling Tap #1 (Raw; Four Vapor Extraction Wells Combined)
SVE-EXH = Intermediate Sampling Tap, Between (2) 55-gal. drum carbon adsorbers
ST-4 = Sampling Tap #4 (Final, After 2nd Carbon Adsorber)
PAS = Air-stripper stack emissions

Adirondack Environmental Services, Inc.®
Experience is the solution
314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

March 28, 2003

Steve Choiniere
Earth Tech
40 British American Boulevard
Latham, NY 12110

TEL: (518) 951-2200
FAX

RE: NOW Corp Site

Order No.: 030314032

Dear Steve Choiniere:

Adirondack Environmental Services, Inc received 6 samples on 3/14/2003 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709
AIHA#: 100307

Tara Daniels
Laboratory Manager

Adirondack Environmental Services, Inc

Date: *28-Mar-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030314032

Lab ID: 030314032-001
Collection Date: 3/14/2003
Client Sample ID: Effluent
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**E200.7**		**(SW3010A)**		Analyst: **SM**
Aluminum	< 0.100	0.100		mg/L	1	3/26/2003
Arsenic	< 0.005	0.005		mg/L	1	3/26/2003
Barium	0.082	0.010		mg/L	1	3/26/2003
Chromium	< 0.005	0.005		mg/L	1	3/26/2003
Copper	< 0.005	0.005		mg/L	1	3/26/2003
Iron	< 0.050	0.050		mg/L	1	3/26/2003
Manganese	0.095	0.020		mg/L	1	3/26/2003
Nickel	< 0.020	0.020		mg/L	1	3/26/2003
Zinc	< 0.010	0.010		mg/L	1	3/26/2003
MERCURY IN WATER		**E245.1**		**(E245.1)**		Analyst: **KH**
Mercury	< 0.0004	0.0004		mg/L	1	3/18/2003
VOLATILE ORGANICS		**E624**				Analyst: **AJ**
Vinyl chloride	< 0.50	0.50		µg/L	1	3/20/2003
Chloroethane	< 0.50	0.50		µg/L	1	3/20/2003
1,1-Dichloroethene	< 0.50	0.50		µg/L	1	3/20/2003
1,1-Dichloroethane	< 0.50	0.50		µg/L	1	3/20/2003
cis-1,2-Dichloroethene	< 0.50	0.50		µg/L	1	3/20/2003
trans-1,2-Dichloroethene	< 0.50	0.50		µg/L	1	3/20/2003
1,2-Dichloroethane	< 0.50	0.50		µg/L	1	3/20/2003
1,1,1-Trichloroethane	< 0.50	0.50		µg/L	1	3/20/2003
Trichloroethene	< 0.50	0.50		µg/L	1	3/20/2003
1,1,2-Trichloroethane	< 0.50	0.50		µg/L	1	3/20/2003
Benzene	< 0.50	0.50		µg/L	1	3/20/2003
Tetrachloroethene	< 0.50	0.50		µg/L	1	3/20/2003
Toluene	< 0.50	0.50		µg/L	1	3/20/2003
Chlorobenzene	< 0.50	0.50		µg/L	1	3/20/2003
Ethylbenzene	< 0.50	0.50		µg/L	1	3/20/2003
m,p-Xylene	< 0.50	0.50		µg/L	1	3/20/2003
o-Xylene	< 0.50	0.50		µg/L	1	3/20/2003
CYANIDE, TOTAL		**E335.3**				Analyst: **MC**
Cyanide	< 0.01	0.01		mg/L	1	3/27/2003
OIL AND GREASE		**E1664**				Analyst: **JK**
Oil & Grease	< 1.0	1.0		mg/L	1	3/21/2003
TOTAL DISSOLVED SOLIDS		**E160.1**				Analyst: **LS**
TDS (Residue, Filterable)	262	5		mg/L	1	3/14/2003
TOTAL SUSPENDED SOLIDS		**E160.2**				Analyst: **JK**
TSS (Residue, Non-Filterable)	< 1.0	1.0		mg/L	1	3/19/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *28-Mar-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030314032

Lab ID: 030314032-002
Collection Date: 3/14/2003
Client Sample ID: Influent
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**E200.7**		**(SW3010A)**		Analyst: **SM**
Aluminum	< 0.100	0.100		mg/L	1	3/26/2003
Arsenic	< 0.005	0.005		mg/L	1	3/26/2003
Barium	0.082	0.010		mg/L	1	3/26/2003
Chromium	< 0.005	0.005		mg/L	1	3/26/2003
Copper	< 0.005	0.005		mg/L	1	3/26/2003
Iron	< 0.050	0.050		mg/L	1	3/26/2003
Manganese	0.120	0.020		mg/L	1	3/26/2003
Nickel	< 0.020	0.020		mg/L	1	3/26/2003
Zinc	< 0.010	0.010		mg/L	1	3/26/2003
MERCURY IN WATER		**E245.1**		**(E245.1)**		Analyst: **KH**
Mercury	< 0.0004	0.0004		mg/L	1	3/18/2003
VOLATILE ORGANICS		**E624**				Analyst: **AJ**
Vinyl chloride	< 10	10		µg/L	10	3/20/2003
Chloroethane	< 10	10		µg/L	10	3/20/2003
1,1-Dichloroethene	12	5.0		µg/L	10	3/20/2003
1,1-Dichloroethane	< 5.0	5.0		µg/L	10	3/20/2003
cis-1,2-Dichloroethene	7.5	5.0		µg/L	10	3/20/2003
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	10	3/20/2003
1,2-Dichloroethane	120	5.0		µg/L	10	3/20/2003
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	10	3/20/2003
Trichloroethene	280	5.0		µg/L	10	3/20/2003
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	10	3/20/2003
Benzene	< 5.0	5.0		µg/L	10	3/20/2003
Tetrachloroethene	< 5.0	5.0		µg/L	10	3/20/2003
Toluene	< 5.0	5.0		µg/L	10	3/20/2003
Chlorobenzene	< 5.0	5.0		µg/L	10	3/20/2003
Ethylbenzene	< 5.0	5.0		µg/L	10	3/20/2003
m,p-Xylene	< 5.0	5.0		µg/L	10	3/20/2003
o-Xylene	< 5.0	5.0		µg/L	10	3/20/2003
CYANIDE, TOTAL		**E335.3**				Analyst: **MC**
Cyanide	< 0.01	0.01		mg/L	1	3/27/2003
OIL AND GREASE		**E1664**				Analyst: **JK**
Oil & Grease	< 1.0	1.0		mg/L	1	3/21/2003
TOTAL DISSOLVED SOLIDS		**E160.1**				Analyst: **LS**
TDS (Residue, Filterable)	282	5		mg/L	1	3/14/2003
TOTAL SUSPENDED SOLIDS		**E160.2**				Analyst: **JK**
TSS (Residue, Non-Filterable)	< 1.0	1.0		mg/L	1	3/19/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *28-Mar-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030314032

Lab ID: 030314032-003
Collection Date: 3/14/2003
Client Sample ID: TW-1
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS		**E624**				Analyst: **AJ**
Vinyl chloride	< 10	10		µg/L	10	3/20/2003
Chloroethane	< 10	10		µg/L	10	3/20/2003
1,1-Dichloroethene	< 5.0	5.0		µg/L	10	3/20/2003
1,1-Dichloroethane	59	5.0		µg/L	10	3/20/2003
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	10	3/20/2003
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	10	3/20/2003
1,2-Dichloroethane	< 5.0	5.0		µg/L	10	3/20/2003
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	10	3/20/2003
Trichloroethene	32	5.0		µg/L	10	3/20/2003
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	10	3/20/2003
Benzene	< 5.0	5.0		µg/L	10	3/20/2003
Tetrachloroethene	< 5.0	5.0		µg/L	10	3/20/2003
Toluene	< 5.0	5.0		µg/L	10	3/20/2003
Chlorobenzene	< 5.0	5.0		µg/L	10	3/20/2003
Ethylbenzene	< 5.0	5.0		µg/L	10	3/20/2003
m,p-Xylene	< 5.0	5.0		µg/L	10	3/20/2003
o-Xylene	< 5.0	5.0		µg/L	10	3/20/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *28-Mar-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030314032

Lab ID: 030314032-004
Collection Date: 3/14/2003
Client Sample ID: TW-2A
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS		**E624**				Analyst: **AJ**
Vinyl chloride	< 10	10		µg/L	10	3/20/2003
Chloroethane	< 10	10		µg/L	10	3/20/2003
1,1-Dichloroethene	18	5.0		µg/L	10	3/20/2003
1,1-Dichloroethane	170	5.0		µg/L	10	3/20/2003
cis-1,2-Dichloroethene	13	5.0		µg/L	10	3/20/2003
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	10	3/20/2003
1,2-Dichloroethane	< 5.0	5.0		µg/L	10	3/20/2003
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	10	3/20/2003
Trichloroethene	440	5.0		µg/L	10	3/20/2003
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	10	3/20/2003
Benzene	< 5.0	5.0		µg/L	10	3/20/2003
Tetrachloroethene	< 5.0	5.0		µg/L	10	3/20/2003
Toluene	< 5.0	5.0		µg/L	10	3/20/2003
Chlorobenzene	< 5.0	5.0		µg/L	10	3/20/2003
Ethylbenzene	< 5.0	5.0		µg/L	10	3/20/2003
m,p-Xylene	< 5.0	5.0		µg/L	10	3/20/2003
o-Xylene	< 5.0	5.0		µg/L	10	3/20/2003

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *28-Mar-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030314032

Lab ID: 030314032-005
Collection Date: 3/14/2003
Client Sample ID: TW-3
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS		**E624**				Analyst: **AJ**
Vinyl chloride	< 10	10		µg/L	10	3/20/2003
Chloroethane	< 10	10		µg/L	10	3/20/2003
1,1-Dichloroethene	< 5.0	5.0		µg/L	10	3/20/2003
1,1-Dichloroethane	17	5.0		µg/L	10	3/20/2003
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	10	3/20/2003
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	10	3/20/2003
1,2-Dichloroethane	< 5.0	5.0		µg/L	10	3/20/2003
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	10	3/20/2003
Trichloroethene	15	5.0		µg/L	10	3/20/2003
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	10	3/20/2003
Benzene	< 5.0	5.0		µg/L	10	3/20/2003
Tetrachloroethene	< 5.0	5.0		µg/L	10	3/20/2003
Toluene	< 5.0	5.0		µg/L	10	3/20/2003
Chlorobenzene	< 5.0	5.0		µg/L	10	3/20/2003
Ethylbenzene	< 5.0	5.0		µg/L	10	3/20/2003
m,p-Xylene	< 5.0	5.0		µg/L	10	3/20/2003
o-Xylene	< 5.0	5.0		µg/L	10	3/20/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *28-Mar-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030314032

Lab ID: 030314032-006
Collection Date: 3/14/2003
Client Sample ID: Trip Blank
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS		**E624**				Analyst: **AJ**
Vinyl chloride	< 0.50	0.50		µg/L	1	3/20/2003
Chloroethane	< 0.50	0.50		µg/L	1	3/20/2003
1,1-Dichloroethene	< 0.50	0.50		µg/L	1	3/20/2003
1,1-Dichloroethane	< 0.50	0.50		µg/L	1	3/20/2003
cis-1,2-Dichloroethene	< 0.50	0.50		µg/L	1	3/20/2003
trans-1,2-Dichloroethene	< 0.50	0.50		µg/L	1	3/20/2003
1,2-Dichloroethane	< 0.50	0.50		µg/L	1	3/20/2003
1,1,1-Trichloroethane	< 0.50	0.50		µg/L	1	3/20/2003
Trichloroethene	< 0.50	0.50		µg/L	1	3/20/2003
1,1,2-Trichloroethane	< 0.50	0.50		µg/L	1	3/20/2003
Benzene	< 0.50	0.50		µg/L	1	3/20/2003
Tetrachloroethene	< 0.50	0.50		µg/L	1	3/20/2003
Toluene	< 0.50	0.50		µg/L	1	3/20/2003
Chlorobenzene	< 0.50	0.50		µg/L	1	3/20/2003
Ethylbenzene	< 0.50	0.50		µg/L	1	3/20/2003
m,p-Xylene	< 0.50	0.50		µg/L	1	3/20/2003
o-Xylene	< 0.50	0.50		µg/L	1	3/20/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Chain of Custody Record

0303140032

Custody Seal # | Earth Tech Cooler #

Project Number 01 55849.08 | Project Name/Client EARTH TECH. NOW CORP.

Sample Custodian: (Signature) Steve Choiniere

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: EPA 8260	METALS: ZN, AL, AS, BA, CD, FE, MN, HG, NI	TDS, TSS	O+G	CYANIDE	Matrix: Sample Type: GW	Sample Container: 40 mL.
001	1 EFF 3/03	3-14-03	10:10	X				X					X	2
	2		10:15						X	X				1
	3		10:20							X				1
	4		10:25								X			1
	5		10:30									X		1
004	6 INF 3/03		10:35					X						2
	7		10:40						X	X				1
	8		10:45							X				1
	9		10:50								X			1
	10		10:55									X		1
003	11 TW-1		11:00					X						2
001	12 TW-2A		11:05					X						2
005	13 TW-3		11:10					X						2
006	14 TRIP BLANK							X						1
	15													
	16													
	17													
	18													

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Steve Choiniere	3-14-03 1:45				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
		Fabrizia A. Zappa			

Send Lab Results To: STEVE CHOINIERE
EARTH TECH.
40 BRITISH AMERICAN BLVD.
LATHAM. N.Y. 12110

Remarks:

Federal Express Airbill No.:
Lab:

Check Delivery Method:

☐ Samples delivered in person
☐ Common carrier

Laboratory Receiving Notes:

Custody Seal Intact?

Temp. of Shipping Container:

Sample Condition:

White Copy - Lab Yellow Copy - File Pink Copy - Client

Rev. 10/98

F514/Earth.Sci

Adirondack Environmental Services, Inc.®
Experience is the solution
314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

(a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or non-performance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.

(b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.

(c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.

(d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.

(e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**

(f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.

03/31/2003

Earth Tech
ATTN: Steve Choinere
40 British American Blvd.
Latham, NY 12110

Project Reference: NOW Corp., 55849.01
Lab Number: A3031702-01/08

Enclosed are results for sample(s) received 3/17/03 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Steve Choinere on 3/28/03.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: EarthTech
Attn: Steve Choiniere

Client's Project: NOW CORP., 55849.02
Date Received: 03/17/03
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A3031702-01		A3031702-02		A3031702-03		A3031702-04		A3031702-05	
Client Sample I.D.:		TW-1VE 3/03		VE-1VE 3/03		VE-2VE 3/03		TW-2AVE 3/03		ST-1 3/03	
Date Sampled:		03/14/03		03/14/03		03/14/03		03/14/03		03/14/03	
Date Analyzed:		03/17/03		03/17/03		03/17/03		03/17/03		03/17/03	
QC Batch No:		030317MS2A1		030317MS2A1		030317MS2A1		030317MS2A1		030317MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
ANALYTE	PQL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	1.0	2.1	1.0	2.1	1.0	2.3	1.0	2.4	1.0	2.6	1.0
1,1-Dichloroethane	1.0	10	1.0	10	1.0	11	1.0	11	1.0	14	1.0
c-1,2-Dichloroethene	1.0	4.7	1.0	4.9	1.0	4.9	1.0	5.0	1.0	5.5	1.0
1,1,1-Trichloroethane	1.0	13	1.0	15	1.0	15	1.0	17	1.0	29	1.0
Benzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	100	1.0	100	1.0	110	1.0	110	1.0	120	1.0
Toluene	1.0	1.7	1.0	2.2	1.0	1.9	1.0	1.6	1.0	1.6	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	1.4	1.0	2.1	1.0	1.9	1.0	1.4	1.0	1.2	1.0
o-Xylene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

PQL = Practical Quantitation Limit
ND= Not Detected (below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date 3-28-03

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Client: EarthTech
Attn: Steve Choiniere

Client's Project: NOW CORP., 55849.02
Date Received: 03/17/03
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A3031702-06		A3031702-07		A3031702-08					
Client Sample I.D.:		PAS 3/03		SVE-EXH 3/03		ST-4 3/03					
Date Sampled:		03/14/03		03/14/03		03/14/03					
Date Analyzed:		03/17/03		03/17/03		03/17/03					
QC Batch No:		030317MS2A1		030317MS2A1		030317MS2A1					
Analyst Initials:		SC		SC		SC					
Dilution Factor:		10		1.0		1.0					
ANALYTE	PQL	Result	RL	Result	RL	Result	RL				
Vinyl Chloride	1.0	ND	10	ND	1.0	ND	1.0				
Chloroethane	1.0	ND	10	ND	1.0	ND	1.0				
1,1-Dichloroethene	1.0	24	10	ND	1.0	ND	1.0				
1,1-Dichloroethane	1.0	250	10	ND	1.0	ND	1.0				
c-1,2-Dichloroethene	1.0	13	10	ND	1.0	ND	1.0				
1,1,1-Trichloroethane	1.0	870	10	ND	1.0	ND	1.0				
Benzene	1.0	ND	10	ND	1.0	ND	1.0				
1,2-Dichloroethane	1.0	ND	10	ND	1.0	ND	1.0				
Trichloroethene	1.0	330	10	ND	1.0	ND	1.0				
Toluene	1.0	ND	10	1.3	1.0	1.3	1.0				
1,1,2-Trichloroethane	1.0	ND	10	ND	1.0	ND	1.0				
Tetrachloroethene	1.0	11	10	ND	1.0	ND	1.0				
Chlorobenzene	1.0	ND	10	ND	1.0	ND	1.0				
Ethylbenzene	1.0	ND	10	ND	1.0	ND	1.0				
p,&m-Xylene	1.0	ND	10	ND	1.0	1.1	1.0				
o-Xylene	1.0	ND	10	ND	1.0	ND	1.0				

PQL = Practical Quantitation Limit
ND= Not Detected (below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date 3-28-03

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 030317MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	03/17/03		03/17/03		03/17/03						
Data File ID:	17MAR005.D		17MAR003.D		17MAR004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.7	97	9.2	92	5.1	70	130	25	Pass
Methylene Chloride	0.0	10.0	10.5	105	9.6	96	9.1	70	130	25	Pass
Trichloroethene	0.0	10.0	9.8	98	9.3	93	4.9	70	130	25	Pass
Toluene	0.0	10.0	10.1	101	9.4	94	8.0	70	130	25	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	12.6	126	11.9	119	6.4	70	130	25	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 3-28-03

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Chain of Custody Record

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

Project Number	Project Name/Client	Custody Seal #	Earth Tech Cooler #
55849.01 ~~02~~	NOW CORP.		

Sample Custodian: (Signature) Roger Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: VOLATILE ORGANICS (ANALYTE LIST PER 2/12/98 BID FORM)												Matrix: Sample Type: AIR	Matrix: Sample Container: TEDLAR BAGS
1	TW-1VE 3/03	3-14-03	12:05	N/A	N/A			X											1A3031707	04	X	2
2	VE-1VE 3/03		12:00																	02		
3	VE-2VE 3/03		11:55																	03		
4	TW-2AVE 3/03		11:50																	04		
5	ST-1 3/03		11:45																	05		
6	PAS 3/03		11:40																	06		
7	SVE-EXH 3/03		11:35																	07		
8	ST-4 3/03		11:30																	08		
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	3-14-03 12:30	FedEx			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
FedEx	3/17/03 0900	ATL			

Send Lab Results To: STEVE CHOINIERE
EARTH TECH
40 BRITISH AMERICAN BLVD.
LATHAM, N.Y. 12110

Remarks: SEND ENOUGH BAGS BACK WITH NEXT COOLER FOR FOR NEXT SAMP. EVENT c/o ROGER GRAY
Federal Express Airbill No.: Lab: 8372-5564-2118

Check Delivery Method:
☐ Samples delivered in person
☒ Common carrier

Laboratory Receiving Notes:
Custody Seal Intact?
Temp. of Shipping Container: NA
Sample Condition: INTACT, EXCEPT TW-1VE, I bag leak

3/17/03

White Copy - Lab Yellow Copy - File Pink Copy - Client

Rev. 10/98

F514/Earth.Sci

Operation, Maintenance and Monitoring Report
April 2003

NOW Corporation Site
Site 3-14-008

RECEIVED
MAY 30 2003
NYS-DEC
REGION 3-NEW PALTZ

Work Assignment No.
D003821-29

Prepared for:

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

Prepared by:

Earth Tech of New York, Inc.
40 British American Boulevard
Latham, New York 12110

40 British American Boulevard, Latham, New York 12110

May 27, 2003

Mr. Saiban Mahamooth
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561

Re: NOW Corporation - Site #3-14-008
Monthly Summary Report – "April" 2003

Dear Mr. Mahamooth:

Telephone
518.951.2200
Facsimile
518.951.2300

Enclosed is a monthly summary report for the operation, monitoring and maintenance (OM&M) of the groundwater treatment system at the NOW Corporation site in the Town of Clinton, New York. This report covers the OM&M of the vapor extraction system (VES) and the groundwater pump-and-treat (P&T) system for a 28-day period (March 28 – April 25, 2003).

Except for brief maintenance shutdowns on April 1st and 25th, the system was online and operational throughout the reporting period. The submersible pump in recovery well TW-3 was inoperable for nine days (details below). Nevertheless, approximately 778,000 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 27,800 gallons per day (gpd). During the prior reporting period, the average discharge was 30,100 gpd. Because of ongoing problems with the two infiltration well (IW-1 & IW-2) flow meters, the proportion of effluent discharged to those wells and to Crum Elbow Creek cannot be determined.

As of the last day of the reporting period, a total of 29,909,000 gallons of groundwater had been recovered and treated by the system since it became operational.

Table 1 summarizes influent and effluent data for samples collected on April 11, 2003. All effluent discharge requirements were met. Table 2 summarizes the operation and maintenance data collected on the last day of the reporting period. Table 3 summarizes monitoring well water-level data collected on the sampling date. Table 4 summarizes the vapor extraction system air sampling data, as well as air-stripper emissions (sample PAS). A copy of the laboratory data is included in this report.

Earth Tech made three site visits during the reporting period to conduct the required system inspections, maintenance, monitoring well water-level measurements, and monthly sampling. It was noted during the prior reporting period that surface water had accumulated in the meter pit to a depth such that the pit needed to be pumped out. This was accomplished on April 1. Our technicians also rewired the electrical connections in the pit for meter displays in the plant building. They disassembled and cleaned the flow meter for TW-1. On April 11, in addition to the monthly sampling, the air filters were changed in the blower for the heat exchanger. Pumping rates

on the submersible pumps were also adjusted to optimize water table drawdown.

During daily remote monitoring of system status on April 16, it was noted that the water level in recovery well TW-3 appeared to be at a static level, suggesting that either the pump was off, or the pressure transducer had failed. The software indicated that the pump was on. Earth Tech technicians arrived on our next scheduled maintenance visit (April 25) to discover that the pump was off – a thermal alarm had tripped the power breaker. This alarm condition should have generated an "Alarm Fax Report", but did not. The reason will be investigated. The pump was restarted. The air stripper was disassembled and scale was removed from the trays. TW-2 flow meter was cleaned. The meter face needs to be replaced. A new one will be ordered soon. Experimentation demonstrated that either the sending unit for the flow meter on infiltration well IW-1 has malfunctioned, or the meter face needs to be replaced. Pumping rates on the submersible pumps were also adjusted to optimize water table drawdown.

Please feel free to contact me at (518) 951-2262 if you have any questions regarding either this report, or the operation of the treatment system.

Sincerely,

Stephen Choiniere

Earth Tech Northeast

Stephen R. Choiniere
Project Manager

Attachments

Table 1
Summary of Influent and Effluent Data
Sampling Date: April 11, 2003
NOW Corporation Site
Town of Clinton, New York

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Treatment Requirements	(units)
			TW-1	TW-2A	TW-3		
Flow		27,789				Monitor	gpd
pH	6.8	6.8	NA	NA	NA	6.5 to 8.5	standard units
TSS	**1.3**	**1.3**	NA	NA	NA	50	mg/L
TDS	**233**	**235**	NA	NA	NA	1000	mg/L
Oil and Grease	<1.0	<1.0	NA	NA	NA	15	mg/L
Cyanide	<0.01	<0.01	NA	NA	NA	0.01	mg/L
Zinc	<0.01	<0.01	NA	NA	NA	0.15	mg/L
Aluminum, Total	<0.1	<0.100	NA	NA	NA	2	mg/L
Arsenic, Total	<0.005	<0.005	NA	NA	NA	0.05	mg/L
Barium, Total	**0.073**	**0.067**	NA	NA	NA	2	mg/L
Copper	<0.005	<0.005	NA	NA	NA	0.024	mg/L
Chromium	<0.005	<0.005	NA	NA	NA	0.1	mg/L
Iron	**0.102**	<0.05	NA	NA	NA	0.6	mg/L
Manganese	**0.367**	**0.08**	NA	NA	NA	0.6	mg/L
Mercury	<0.0002	<0.0002	NA	NA	NA	0.0008	mg/L
Nickel	<0.020	<0.020	NA	NA	NA	0.2	mg/L
Benzene	<5	<0.5	<5	<5	<5	0.8	ug/L
Chlorobenzene	<5	<0.5	<5	<5	<5	5	ug/L
Chloroethane	<10	<0.5	<10	<10	<10	5	ug/L
1,1-Dichloroethane	**120**	<0.5	**52**	**210**	**8.3**	5	ug/L
1,2-Dichloroethane	<5	<0.5	<5	<5	<5	1.6	ug/L
cis-1,2-Dichloroethene	**10**	<0.5	<5	**18**	<5	5	ug/L
trans-1,2-Dichloroethene	<5	<0.5	<5	<5	<5	5	ug/L
1,1-Dichloroethene	**6.9**	<0.5	<5	**16**	<5	0.5	ug/L
Ethylbenzene	<5	<0.5	<5	<5	<5	5	ug/L
Tetrachloroethene	<5	<0.5	<5	<5	<5	1.4	ug/L
Toluene	<5	<0.5	<5	<5	<5	5	ug/L
1,1,1-Trichloroethane	**350**	<0.5	<5	**640**	<5	5	ug/L
1,1,2-Trichloroethane	<5	<0.5	<5	<5	<5	1.2	ug/L
Trichloroethene	**190**	<0.5	**28**	**320**	**5.1**	5	ug/L
Vinyl Chloride	<10	<0.5	<10	<10	<10	0.6	ug/L
1,2- and 1,4-Xylenes	<5	<0.5	<5	<5	<5	10	ug/L
1,3-Xylene	<5	<0.5	<5	<5	<5	5	ug/L

Notes:

1) Positive results are presented in ***bold*** *typeface. Numeric values are in units shown in far right column.*

2) Effluent concentration boxed in ***bold*** *denotes exceedance of treatment requirements.*

3) NA indicates not analyzed for the indicated analyte.

*4) "**J**" indicates an estimated concentration below the method detection limit.*

Table 2
Summary of April 2003 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		4/25/2003	Units
TW-1			
	Pumping Rate	4	GPM
	Water Level Above Transducer	10.61	feet
	Flow Meter Reading	236,200	gallons
	Pump Pressure	65	psi
TW-2A			
	Pumping Rate	4	GPM
	Water Level Above Transducer	30.3	feet
	Flow Meter Reading	7,810,100	gallons
	Pump Pressure	16	psi
TW-3			
	Pumping Rate	6	GPM
	Water Level Above Transducer	44.46	feet
	Flow Meter Reading	6,844,600	gallons
	Pump Pressure	64	psi
Air Stripper			
	Stripper Blower Pressure	17.5	inches H_2O
	Air Temperature in Stripper	48	°F
	Pressure Gauge - Left Leg	1.3	inches H_2O
	Pressure Gauge - Right Leg	1	inches H_2O
	Pressure/Vacuum on the Stripper	0.5	inches H_2O
Sand Filter			
	Influent Pressure	Offline	
	Effluent Pressure	Offline	
	Differential Pressure Across Filter	-	
Effluent Flow			
	Total System Meter Reading	29,908,900	gallons
	IW-1 Flow Meter Reading	0	gallons
	IW-2 Flow Meter Reading	2,724	gallons
Vapor Extraction System			
	Vapor Blower Vacuum	12.5	inches Hg
	Vacuum before Filter with Dilution Air	12.0	inches Hg
	Vacuum on Knock-out Pot	15.5	inches Hg
	Blower Inlet Temperature	64	°F
	Blower Outlet Temperature	228	°F
	Pressure After Blower	26	psi
	Heat Exchanger Outlet Temperature	64	°F

Note: N/A indicates Not Available.
NW - Not working

Table 3
April 2003 Groundwater Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	MP Elevation	4/11/2003 Depth to Water (Ft below MP)	4/11/2003 GW Elevation
MW-1	289.50	10.71	278.79
MW-2	332.51	26.72	305.79
MW-3	312.83	24.08	288.75
MW-3S	312.51	21.67	290.84
MW-4	298.29	21.59	276.70
MW-4D	298.16	21.47	276.69
MW-5	285.48	28.20	257.28
MW-6S	287.90	4.66	283.24
MW-6D	287.25	7.17	280.08
MW-7S	292.12	25.34	266.78
MW-7D	292.54	65.42	227.12
OW-1	307.75	52.86	254.89
OW-2	305.96	72.58	233.38
OW-6	294.81	4.90	289.91
IW-1	312.46	8.00	304.46
IW-2	306.56	6.00	300.56
MW-8	283.65	N/A	N/A
MW-9	275.37	N/A	N/A
MW-10	280.92	N/A	N/A
MW-11	283.72	N/A	N/A
OW-3	307.35	N/A	N/A
OW-4	308.30	N/A	N/A
OW-5	307.41	N/A	N/A
TW-2	290.52	N/A	N/A

Note: N/A indicates groundwater level was not measured.
MP denotes measuring point.

Table 4
Groundwater Treatment System Air Sampling Data
Sampling Date: April 11, 2003

NOW Corporation Site
Town of Clinton, New York

Analyte	TW-1VE		VE-1VE		VE-2VE		TW-2AVE		ST-1		PAS		SVE-EXH		ST-4	
	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,1-Dichloroethene	**6.1**	1.0	**5.9**	1.0	**5.7**	1.0	**5.8**	1.0	**5.7**	1.0	**21.0**	5.0	ND	1.0	ND	1.0
1,1-Dichloroethane	**21.0**	1.0	**21.0**	1.0	**20.0**	1.0	**21.0**	1.0	**19.0**	1.0	**240.0**	5.0	ND	1.0	ND	1.0
cis-1,2-Dichloroethene	**4.1**	1.0	**4.1**	1.0	**3.9**	1.0	**4.3**	1.0	**3.8**	1.0	**17.0**	5.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	**13.0**	1.0	**13.0**	1.0	**12.0**	1.0	**12.0**	1.0	**14.0**	1.0	**850.0**	5.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Trichloroethene	**96.0**	1.0	**94.0**	1.0	**94.0**	1.0	**97.0**	1.0	**85.0**	1.0	**320.0**	5.0	ND	1.0	ND	1.0
Toluene	**1.3**	1.0	**2.4**	1.0	**1.8**	1.0	**1.8**	1.0	**2.1**	1.0	ND	5.0	**1.7**	1.0	**2.5**	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Ethylbenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	**1.3**	1.0	ND	5.0	ND	1.0	**1.0**	1.0
p&m -Xylene	**2.4**	1.0	**3.0**	1.0	**3.7**	1.0	**2.1**	1.0	**5.2**	1.0	ND	5.0	**2.7**	1.0	**3.6**	1.0
o-Xylene	ND	1.0	ND	1.0	**1.1**	1.0	ND	1.0	**1.4**	1.0	ND	5.0	ND	1.0	ND	1.0

Notes:

1) All results are reported in ppbv.
2) Positive results are presented in ***bold*** *typeface.*
3) ND indicates Not Detected (Below RL).
4) RL = Reporting Limit

Sample IDs:

TW-1VE = Well TW-1 Dual-Phase Vapor Extraction
TW-2AVE = Well TW-2A Dual-Phase Vapor Extraction
VE-1VE = Well VE-1 Vapor Extraction
VE-2VE = Well VE-2 Vapor Extraction
ST-1 = Sampling Tap #1 (Raw; Four Vapor Extraction Wells Combined)
SVE-EXH = Intermediate Sampling Tap, Between (2) 55-gal. drum carbon adsorbers
ST-4 = Sampling Tap #4 (Final, After 2nd Carbon Adsorber)
PAS = Air-stripper stack emissions

Adirondack Environmental Services, Inc.®
Experience is the solution
314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

May 06, 2003

MAY - 7 2003

Steve Choiniere
Earth Tech
40 British American Boulevard
Latham, NY 12110

TEL: (518) 951-2200
FAX:

RE: NOW Corp Site

Order No.: 030411023

Dear Steve Choiniere:

Adirondack Environmental Services, Inc received 6 samples on 4/11/2003 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709
AIHA#: 100307

Tara Daniels
Laboratory Manager

Adirondack Environmental Services, Inc

Date: *06-May-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030411023

Lab ID: 030411023-001
Collection Date: 4/11/2003
Client Sample ID: Effluent
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**E200.7**		**(SW3010A)**		Analyst: **KH**
Aluminum	< 0.100	0.100		mg/L	1	4/23/2003
Arsenic	< 0.005	0.005		mg/L	1	4/23/2003
Barium	0.067	0.010		mg/L	1	4/23/2003
Chromium	< 0.005	0.005		mg/L	1	4/23/2003
Copper	< 0.005	0.005		mg/L	1	4/23/2003
Iron	< 0.050	0.050		mg/L	1	4/23/2003
Manganese	0.080	0.020		mg/L	1	4/23/2003
Nickel	< 0.020	0.020		mg/L	1	4/23/2003
Zinc	< 0.010	0.010		mg/L	1	4/23/2003
MERCURY IN WATER		**E245.1**		**(E245.1)**		Analyst: **SM**
Mercury	< 0.0002	0.0002		mg/L	1	4/14/2003
VOLATILE ORGANICS		**E624**				Analyst: **SO**
Vinyl chloride	< 0.50	0.50		µg/L	1	4/21/2003
Chloroethane	< 0.50	0.50		µg/L	1	4/21/2003
1,1-Dichloroethene	< 0.50	0.50		µg/L	1	4/21/2003
1,1-Dichloroethane	< 0.50	0.50		µg/L	1	4/21/2003
cis-1,2-Dichloroethene	< 0.50	0.50		µg/L	1	4/21/2003
trans-1,2-Dichloroethene	< 0.50	0.50		µg/L	1	4/21/2003
1,2-Dichloroethane	< 0.50	0.50		µg/L	1	4/21/2003
1,1,1-Trichloroethane	< 0.50	0.50		µg/L	1	4/21/2003
Trichloroethene	< 0.50	0.50		µg/L	1	4/21/2003
1,1,2-Trichloroethane	< 0.50	0.50		µg/L	1	4/21/2003
Benzene	< 0.50	0.50		µg/L	1	4/21/2003
Tetrachloroethene	< 0.50	0.50		µg/L	1	4/21/2003
Toluene	< 0.50	0.50		µg/L	1	4/21/2003
Chlorobenzene	< 0.50	0.50		µg/L	1	4/21/2003
Ethylbenzene	< 0.50	0.50		µg/L	1	4/21/2003
m,p-Xylene	< 0.50	0.50		µg/L	1	4/21/2003
o-Xylene	< 0.50	0.50		µg/L	1	4/21/2003
CYANIDE, TOTAL		**E335.3**				Analyst: **MC**
Cyanide	< 0.01	0.01		mg/L	1	4/22/2003
OIL AND GREASE		**E1664**				Analyst: **MC**
Oil & Grease	< 1.0	1.0		mg/L	1	4/24/2003
TOTAL DISSOLVED SOLIDS		**E160.1**				Analyst: **LS**
TDS (Residue, Filterable)	235	5		mg/L	1	4/18/2003
TOTAL SUSPENDED SOLIDS		**E160.2**				Analyst: **MC**
TSS (Residue, Non-Filterable)	1.3	1.0		mg/L	1	4/16/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *06-May-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030411023

Lab ID: 030411023-002
Collection Date: 4/11/2003
Client Sample ID: Influent
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP METALS		**E200.7**		**(SW3010A)**		Analyst: **KH**
Aluminum	< 0.100	0.100		mg/L	1	4/23/2003
Arsenic	< 0.005	0.005		mg/L	1	4/23/2003
Barium	0.073	0.010		mg/L	1	4/23/2003
Chromium	< 0.005	0.005		mg/L	1	4/23/2003
Copper	< 0.005	0.005		mg/L	1	4/23/2003
Iron	0.102	0.050		mg/L	1	4/23/2003
Manganese	0.367	0.020		mg/L	1	4/23/2003
Nickel	< 0.020	0.020		mg/L	1	4/23/2003
Zinc	< 0.010	0.010		mg/L	1	4/23/2003
MERCURY IN WATER		**E245.1**		**(E245.1)**		Analyst: **SM**
Mercury	< 0.0002	0.0002		mg/L	1	4/14/2003
VOLATILE ORGANICS		**E624**				Analyst: **AJ**
1,1,1-Trichloroethane	350	25		µg/L	5	4/23/2003 3:22:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	4/18/2003 1:36:00 PM
1,1-Dichloroethane	120	5.0		µg/L	1	4/18/2003 1:36:00 PM
1,1-Dichloroethene	6.9	5.0		µg/L	1	4/18/2003 1:36:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	4/18/2003 1:36:00 PM
Benzene	< 5.0	5.0		µg/L	1	4/18/2003 1:36:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	4/18/2003 1:36:00 PM
Chloroethane	< 10	10		µg/L	1	4/18/2003 1:36:00 PM
cis-1,2-Dichloroethene	10	5.0		µg/L	1	4/18/2003 1:36:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	4/18/2003 1:36:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	4/18/2003 1:36:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	4/18/2003 1:36:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1	4/18/2003 1:36:00 PM
Toluene	< 5.0	5.0		µg/L	1	4/18/2003 1:36:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	4/18/2003 1:36:00 PM
Trichloroethene	190	25		µg/L	5	4/23/2003 3:22:00 PM
Vinyl chloride	< 10	10		µg/L	1	4/18/2003 1:36:00 PM
CYANIDE, TOTAL		**E335.3**				Analyst: **MC**
Cyanide	< 0.01	0.01		mg/L	1	4/22/2003
OIL AND GREASE		**E1664**				Analyst: **MC**
Oil & Grease	< 1.0	1.0		mg/L	1	4/24/2003
TOTAL DISSOLVED SOLIDS		**E160.1**				Analyst: **LS**
TDS (Residue, Filterable)	233	5		mg/L	1	4/18/2003
TOTAL SUSPENDED SOLIDS		**E160.2**				Analyst: **MC**
TSS (Residue, Non-Filterable)	1.3	1.0		mg/L	1	4/16/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *06-May-03*

CLIENT: Earth Tech
Project: NOW Corp Site

Lab Order: 030411023

Lab ID: 030411023-003
Collection Date: 4/11/2003
Client Sample ID: TW-1
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS		**E624**				Analyst: **AJ**
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1	4/23/2003 3:49:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	4/23/2003 3:49:00 PM
1,1-Dichloroethane	52	5.0		µg/L	1	4/23/2003 3:49:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	4/23/2003 3:49:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	4/23/2003 3:49:00 PM
Benzene	< 5.0	5.0		µg/L	1	4/23/2003 3:49:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	4/23/2003 3:49:00 PM
Chloroethane	< 10	10		µg/L	1	4/23/2003 3:49:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	4/23/2003 3:49:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	4/23/2003 3:49:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	4/23/2003 3:49:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	4/23/2003 3:49:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1	4/23/2003 3:49:00 PM
Toluene	< 5.0	5.0		µg/L	1	4/23/2003 3:49:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	4/23/2003 3:49:00 PM
Trichloroethene	28	5.0		µg/L	1	4/23/2003 3:49:00 PM
Vinyl chloride	< 10	10		µg/L	1	4/23/2003 3:49:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *06-May-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030411023

Lab ID: 030411023-004
Collection Date: 4/11/2003
Client Sample ID: TW-2A
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS		**E624**				Analyst: **AJ**
1,1,1-Trichloroethane	640	50		µg/L	10	4/23/2003 4:16:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	4/18/2003 2:29:00 PM
1,1-Dichloroethane	210	5.0		µg/L	1	4/18/2003 2:29:00 PM
1,1-Dichloroethene	16	5.0		µg/L	1	4/18/2003 2:29:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	4/18/2003 2:29:00 PM
Benzene	< 5.0	5.0		µg/L	1	4/18/2003 2:29:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	4/18/2003 2:29:00 PM
Chloroethane	< 10	10		µg/L	1	4/18/2003 2:29:00 PM
cis-1,2-Dichloroethene	18	5.0		µg/L	1	4/18/2003 2:29:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	4/18/2003 2:29:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	4/18/2003 2:29:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	4/18/2003 2:29:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1	4/18/2003 2:29:00 PM
Toluene	< 5.0	5.0		µg/L	1	4/18/2003 2:29:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	4/18/2003 2:29:00 PM
Trichloroethene	320	50		µg/L	10	4/23/2003 4:16:00 PM
Vinyl chloride	< 10	10		µg/L	1	4/18/2003 2:29:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *06-May-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030411023

Lab ID: 030411023-005
Collection Date: 4/11/2003
Client Sample ID: TW-3
Matrix: GROUNDWATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS		**E624**				Analyst: **AJ**
1,1,1-Trichloroethane	< 5.0	5.0		µg/L	1	4/23/2003 4:43:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	4/23/2003 4:43:00 PM
1,1-Dichloroethane	8.3	5.0		µg/L	1	4/23/2003 4:43:00 PM
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	4/23/2003 4:43:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	4/23/2003 4:43:00 PM
Benzene	< 5.0	5.0		µg/L	1	4/23/2003 4:43:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	4/23/2003 4:43:00 PM
Chloroethane	< 10	10		µg/L	1	4/23/2003 4:43:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	4/23/2003 4:43:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	4/23/2003 4:43:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	4/23/2003 4:43:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	4/23/2003 4:43:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1	4/23/2003 4:43:00 PM
Toluene	< 5.0	5.0		µg/L	1	4/23/2003 4:43:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	4/23/2003 4:43:00 PM
Trichloroethene	5.1	5.0		µg/L	1	4/23/2003 4:43:00 PM
Vinyl chloride	< 10	10		µg/L	1	4/23/2003 4:43:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *06-May-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030411023

Lab ID: 030411023-006
Collection Date: 4/11/2003
Client Sample ID: Trip Blank Lot # 067
Matrix: WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS		**E624**				Analyst: **SO**
Vinyl chloride	< 0.50	0.50		µg/L	1	4/21/2003
Chloroethane	< 0.50	0.50		µg/L	1	4/21/2003
1,1-Dichloroethene	< 0.50	0.50		µg/L	1	4/21/2003
1,1-Dichloroethane	< 0.50	0.50		µg/L	1	4/21/2003
cis-1,2-Dichloroethene	< 0.50	0.50		µg/L	1	4/21/2003
trans-1,2-Dichloroethene	< 0.50	0.50		µg/L	1	4/21/2003
1,2-Dichloroethane	< 0.50	0.50		µg/L	1	4/21/2003
1,1,1-Trichloroethane	< 0.50	0.50		µg/L	1	4/21/2003
Trichloroethene	< 0.50	0.50		µg/L	1	4/21/2003
1,1,2-Trichloroethane	< 0.50	0.50		µg/L	1	4/21/2003
Benzene	< 0.50	0.50		µg/L	1	4/21/2003
Tetrachloroethene	< 0.50	0.50		µg/L	1	4/21/2003
Toluene	< 0.50	0.50		µg/L	1	4/21/2003
Chlorobenzene	< 0.50	0.50		µg/L	1	4/21/2003
Ethylbenzene	< 0.50	0.50		µg/L	1	4/21/2003
m,p-Xylene	< 0.50	0.50		µg/L	1	4/21/2003
o-Xylene	< 0.50	0.50		µg/L	1	4/21/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Chain of Custody Record

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Custody Seal # | Rust E&I Cooler #

Project Number: 55849.01

Project Name/Client: EARTH TECH NOW CORP.

Sample Custodian: (Signature) Roger Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: EPA 8260	METALS: ZN, AL, AS, BA, CN	CU, FE, MN, HG, PB	TDS, TSS	O&G	CYANIDE	Matrix: Sample Type: GW	Sample Container: 40 ML
1	FFF 001 4/03	4-11-03	12:20	X				X						X	2
2			12:05						X	X					1
3			12:10								X				1
4			12:00									X			1
5			12:15										X		1
6	TNF 002 4/03		12:25					X							2
7			12:35						X	X					1
8			12:40								X				1
9			12:30									X			1
10			12:45										X		1
11	003 TW-1		12:50					X							2
12	004 TW 2A		1:00					X							2
13	005 TW 3		1:05					X							2
14	TRIP BLANK 006 LOTH067							X							1
15															
16															
17	030411033														
18															

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	4-11-03 2:10				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
	4/11/03 2:10	M			

Send Lab Results To: STEVE CHOINIERE
EARTH TECH
40 BRITISH AMERICAN BLVD.
LATHAM, N.Y. 12110

Remarks:

Federal Express Airbill No.:
Lab:

Check Delivery Method:
- ☐ Samples delivered in person
- ☐ Common carrier

Laboratory Receiving Notes:
Custody Seal Intact?
Temp. of Shipping Container:
Sample Condition:

Rev. 10/98 White Copy - Lab Yellow Copy - File Pink Copy - Client F514/Earth.Sci

04/28/2003

Earth Tech
ATTN: Steve Choiniere
40 British American Blvd.
Latham, NY 12110

Project Reference: NOW Corp., 55849.01
Lab Number: A3041401-01/08

Enclosed are results for sample(s) received 4/14/03 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Steve Choinere on 4/28/03.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: EarthTech
Attn: Steve Choiniere

Client's Project: NOW CORP., 55849.01
Date Received: 04/14/03
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A3041401-01		A3041401-02		A3041401-03		A3041401-04		A3041401-05	
Client Sample I.D.:		TW-1VE 4/03		VE-1VE 4/03		VE-2VE 4/03		TW-2AVE 4/03		ST-1 4/03	
Date Sampled:		04/11/03		04/11/03		04/11/03		04/11/03		04/11/03	
Date Analyzed:		04/14/03		04/14/03		04/14/03		04/14/03		04/14/03	
QC Batch No:		030414MS2A1		030414MS2A1		030414MS2A1		030414MS2A1		030414MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
ANALYTE	PQL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	1.0	6.1	1.0	5.9	1.0	5.7	1.0	5.8	1.0	5.7	1.0
1,1-Dichloroethane	1.0	21	1.0	21	1.0	20	1.0	21	1.0	19	1.0
c-1,2-Dichloroethene	1.0	4.1	1.0	4.1	1.0	3.9	1.0	4.3	1.0	3.8	1.0
1,1,1-Trichloroethane	1.0	13	1.0	13	1.0	12	1.0	12	1.0	14	1.0
Benzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	96	1.0	94	1.0	94	1.0	97	1.0	85	1.0
Toluene	1.0	1.3	1.0	2.4	1.0	1.8	1.0	1.8	1.0	2.1	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	1.3	1.0
p,&m-Xylene	1.0	2.4	1.0	3.0	1.0	3.7	1.0	2.1	1.0	5.2	1.0
o-Xylene	1.0	ND	1.0	ND	1.0	1.1	1.0	ND	1.0	1.4	1.0

PQL = Practical Quantitation Limit
ND= Not Detected (below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date 4-28-03

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Client: EarthTech
Attn: Steve Choiniere

Client's Project: NOW CORP., 55849.01
Date Received: 04/14/03
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A3041401-06		A3041401-07		A3041401-08					
Client Sample I.D.:		PAS 4/03		SVE-EXH 4/03		ST-4 4/03					
Date Sampled:		04/11/03		04/11/03		04/11/03					
Date Analyzed:		04/14/03		04/14/03		04/14/03					
QC Batch No:		030414MS2A1		030414MS2A1		030414MS2A1					
Analyst Initials:		SC		SC		SC					
Dilution Factor:		5.0		1.0		1.0					
ANALYTE	PQL	Result	RL	Result	RL	Result	RL				
Vinyl Chloride	1.0	ND	5.0	ND	1.0	ND	1.0				
Chloroethane	1.0	ND	5.0	ND	1.0	ND	1.0				
1,1-Dichloroethene	1.0	21	5.0	ND	1.0	ND	1.0				
1,1-Dichloroethane	1.0	240	5.0	ND	1.0	ND	1.0				
c-1,2-Dichloroethene	1.0	17	5.0	ND	1.0	ND	1.0				
1,1,1-Trichloroethane	1.0	850	5.0	ND	1.0	ND	1.0				
Benzene	1.0	ND	5.0	ND	1.0	ND	1.0				
1,2-Dichloroethane	1.0	ND	5.0	ND	1.0	ND	1.0				
Trichloroethene	1.0	320	5.0	ND	1.0	ND	1.0				
Toluene	1.0	ND	5.0	1.7	1.0	2.5	1.0				
1,1,2-Trichloroethane	1.0	ND	5.0	ND	1.0	ND	1.0				
Tetrachloroethene	1.0	ND	5.0	ND	1.0	ND	1.0				
Chlorobenzene	1.0	ND	5.0	ND	1.0	ND	1.0				
Ethylbenzene	1.0	ND	5.0	ND	1.0	1.0	1.0				
p,&m-Xylene	1.0	ND	5.0	2.7	1.0	3.6	1.0				
o-Xylene	1.0	ND	5.0	ND	1.0	ND	1.0				

PQL = Practical Quantitation Limit
ND= Not Detected (below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date 4-28-03

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 030414MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	04/14/03		04/14/03		04/14/03						
Data File ID:	14APR005.D		14APR003.D		14APR004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.4	104	10.1	101	2.8	70	130	25	Pass
Methylene Chloride	0.0	10.0	11.1	111	10.5	105	6.2	70	130	25	Pass
Trichloroethene	0.0	10.0	10.2	102	9.9	99	2.6	70	130	25	Pass
Toluene	0.0	10.0	10.6	106	10.3	103	2.7	70	130	25	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	11.6	116	11.6	116	0.4	70	130	25	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ **Date:** 4-28-03

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Chain of Custody Record

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

A304/401

Custody Seal #	Earth Tech Cooler #

Project Number 01 55849.~~02~~

Project Name/Client EARTH TECH NOW CORP

Sample Custodian: (Signature) Roger Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: VOLATILE ORGANICS (ANALYTE LIST PER 2/12/98 BID FORM)	Matrix: Sample Type: AIR	Sample Container: TEDLAR BAGS
1	TW-1VE 4/03	4-11-03	11:00	N/A	N/A			X	X	2
2	VE-1VE 4/03		10:55							
3	VE-2VE 4/03		10:50							
4	TW-2AVE 4/03		10:45							
5	ST-1 4/03		10:40							
6	PAS 4/03		10:35							
7	SVE-EXH. 4/03		10:30							
8	ST-4 4/03		10:25							
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Roger Gray	4-11-03 11:10	Fed Ex			
Relinquished by: (Signature) Fed EX STEVE CHOINIERE	Date / Time 4/11/03 0450	Received by: (Signature) LATL	Disposed of by: (Signature)	Items:	Date / Time

Send Lab Results To: ~~KEITH BECKER~~
EARTH TECH
40 BRITISH AMERICAN BLVD.
LATHAM, N.Y. 12110

Remarks: 10 BUS. DAYS TAT.
SEND ENOUGH BAGS BACK WITH COOLER FOR NEXT SAMP.
c/o ROGER GRAY

Federal Express Airbill No.: 8389-5040-9713

Lab:

Check Delivery Method:
- ☐ Samples delivered in person
- ☐ Common carrier

Laboratory Receiving Notes:
Custody Seal Intact?
Temp. of Shipping Container:
Sample Condition:

White Copy - Lab Yellow Copy - File Pink Copy - Client

Operation, Maintenance and Monitoring Report
May 2003

NOW Corporation Site
Site 3-14-008

Work Assignment No.
D003821-29

Prepared for:

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

Prepared by:

Earth Tech Northeast, Inc.
40 British American Boulevard
Latham, New York 12110

40 British American Boulevard, Latham, New York 12110

June 25, 2003

Mr. Saiban Mahamooth
NYSDEC Region 3
21 South Putt Corners Road
New Paltz, New York 12561

Re: NOW Corporation - Site #3-14-008
Monthly Summary Report – "May" 2003

Dear Mr. Mahamooth:

Telephone
518.951.2200
Facsimile
518.951.2300

Enclosed is a monthly summary report for the operation, monitoring and maintenance (OM&M) of the groundwater treatment system at the NOW Corporation site in the Town of Clinton, New York. This report covers the OM&M of the vapor extraction system (VES) and the groundwater pump-and-treat (P&T) system for a 28-day period (April 25 – May 23, 2003).

The system was online and operational throughout the reporting period, with no downtime. The submersible pump in recovery well TW-2 was inoperable for nine days (details below). Nevertheless, approximately 665,000 gallons of water were treated during the period. Discharge from the treatment system averaged approximately 23,800 gallons per day (gpd). During the prior reporting period, the average discharge was 27,800 gpd. Because of ongoing problems with the two infiltration well (IW-1 & IW-2) flow meters, the proportions of effluent discharged to those wells and to Crum Elbow Creek cannot be determined.

As of the last day of the reporting period, a total of 30,574,000 gallons of groundwater had been recovered and treated by the system since it became operational.

Table 1 summarizes influent and effluent data for samples collected on May 13, 2003. All effluent discharge requirements were met. Table 2 summarizes the operation and maintenance data collected on the last day of the reporting period. Table 3 summarizes monitoring well water-level data collected on the sampling date. Table 4 summarizes the vapor extraction system air sampling data, as well as air-stripper emissions (sample PAS). A copy of the laboratory data is included in this report.

Earth Tech made two site visits during the reporting period to conduct the required system inspections, maintenance, monitoring well water-level measurements, and monthly sampling. On May 13, the fan motor on the heat exchanger (VES) was observed to have failed, so it was removed. A replacement motor and a spare motor were ordered. In addition to the monthly sampling, pumping rates on the submersible pumps were also adjusted to optimize water table drawdown.

During daily remote monitoring of system status on May 14, it was noted that the water level in recovery well TW-2 appeared to be at a high, static level, suggesting that either the pump was off, or the pressure transducer had failed. The software indicated that the pump was on. Earth Tech technicians mobilized to the site on May 23 to discover that the pump was off – a thermal alarm had tripped the power breaker. The pump was removed from the well and cleaned on-site; the motor end of the pump was brought to our shop for inspection. Pumping rates on the two remaining submersible pumps were adjusted to optimize water table drawdown. A new fan motor was installed on the VES heat exchanger, and a new, identical spare motor was left at the site for future use. Following inspection of the motor end, and a phone conversation with the motor manufacturer, a new motor was ordered for the well TW-2A submersible pump.

Please feel free to contact me at (518) 951-2262 if you have any questions regarding either this report, or the operation of the treatment system.

Sincerely,

Stephen R. Choiniere

Earth Tech Northeast

Stephen R. Choiniere
Project Manager

Attachments

Table 1
Summary of Influent and Effluent Data
Sampling Date: May 13, 2003
NOW Corporation Site
Town of Clinton, New York

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Treatment Requirements	(units)
			TW-1	TW-2A	TW-3		
Flow		23,750				Monitor	gpd
pH	7.1	7.7	NA	NA	NA	6.5 to 8.5	standard units
TSS	<1.0	<1.0	NA	NA	NA	50	mg/L
TDS	**255**	**258**	NA	NA	NA	1000	mg/L
Oil and Grease	<1.0	<1.0	NA	NA	NA	15	mg/L
Cyanide	<0.01	<0.01	NA	NA	NA	0.01	mg/L
Zinc	<0.01	<0.01	NA	NA	NA	0.15	mg/L
Aluminum, Total	<0.1	<0.100	NA	NA	NA	2	mg/L
Arsenic, Total	<0.005	<0.005	NA	NA	NA	0.05	mg/L
Barium, Total	**0.061**	**0.062**	NA	NA	NA	2	mg/L
Copper	**0.007**	<0.005	NA	NA	NA	0.024	mg/L
Chromium	<0.005	<0.005	NA	NA	NA	0.1	mg/L
Iron	**0.051**	**0.055**	NA	NA	NA	0.6	mg/L
Manganese	**0.099**	**0.068**	NA	NA	NA	0.6	mg/L
Mercury	<0.0002	<0.0002	NA	NA	NA	0.0008	mg/L
Nickel	<0.020	<0.020	NA	NA	NA	0.2	mg/L
Benzene	<25	<0.5	<5	<25	<5	0.8	ug/L
Chlorobenzene	<25	<0.5	<5	<25	<5	5	ug/L
Chloroethane	<50	<0.5	<10	<50	<10	5	ug/L
1,1-Dichloroethane	**170**	<0.5	**90**	**280**	<5	5	ug/L
1,2-Dichloroethane	<25	<0.5	<5	<25	<5	1.6	ug/L
cis-1,2-Dichloroethene	<25	<0.5	<5	<25	<5	5	ug/L
trans-1,2-Dichloroethene	<25	<0.5	<5	<25	<5	5	ug/L
1,1-Dichloroethene	<25	<0.5	**9.5**	**27**	<5	0.5	ug/L
Ethylbenzene	<25	<0.5	<5	<25	<5	5	ug/L
Methyl tert-butyl ether	<5	NA	<5	<25	<5	None	ug/L
Tetrachloroethene	<25	<0.5	<5	<25	<5	1.4	ug/L
Toluene	<25	<0.5	<5	<25	<5	5	ug/L
1,1,1-Trichloroethane	**660**	<0.5	**8.4**	**1200**	**13**	5	ug/L
1,1,2-Trichloroethane	<25	<0.5	<5	<25	<5	1.2	ug/L
Trichloroethene	**280**	<0.5	**44**	**470**	**16**	5	ug/L
Vinyl Chloride	<50	<0.5	<10	<50	<10	0.6	ug/L
1,2- and 1,4-Xylenes	<25	<0.5	<5	<25	<5	10	ug/L
1,3-Xylene	<25	<0.5	<5	<25	<5	5	ug/L

Notes:

1) Positive results are presented in ***bold*** *typeface. Numeric values are in units shown in far right column.*

2) Effluent concentration boxed in ***bold*** *denotes exceedance of treatment requirements.*

3) NA indicates not analyzed for the indicated analyte.

*4) "**J**" indicates an estimated concentration below the method detection limit.*

Table 2
Summary of May 2003 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		5/23/2003	Units
TW-1			
	Pumping Rate	7	GPM
	Water Level Above Transducer	28.71	feet
	Flow Meter Reading	377,400	gallons
	Pump Pressure	52	psi
TW-2A			
	Pumping Rate	NW	GPM
	Water Level Above Transducer	80.49	feet
	Flow Meter Reading	8,109,300	gallons
	Pump Pressure	NW	psi
TW-3			
	Pumping Rate	5	GPM
	Water Level Above Transducer	31.13	feet
	Flow Meter Reading	7,053,400	gallons
	Pump Pressure	64	psi
Air Stripper			
	Stripper Blower Pressure	18.5	inches H_2O
	Air Temperature in Stripper	50	°F
	Pressure Gauge - Left Leg	1.5	inches H_2O
	Pressure Gauge - Right Leg	1.1	inches H_2O
	Pressure/Vacuum on the Stripper	-	inches H_2O
Sand Filter			
	Influent Pressure	Offline	
	Effluent Pressure	Offline	
	Differential Pressure Across Filter	-	
Effluent Flow			
	Total System Meter Reading	30,573,900	gallons
	IW-1 Flow Meter Reading	-	gallons
	IW-2 Flow Meter Reading	-	gallons
Vapor Extraction System			
	Vapor Blower Vacuum	10.5	inches Hg
	Vacuum before Filter with Dilution Air	10.0	inches Hg
	Vacuum on Knock-out Pot	13.5	inches Hg
	Blower Inlet Temperature	70	°F
	Blower Outlet Temperature	210	°F
	Pressure After Blower	36	psi
	Heat Exchanger Outlet Temperature	74	°F

Note: N/A indicates Not Available.
NW - Not working

Table 3
May 2003 Groundwater Levels

NOW Corporation Site
Town of Clinton, New York

Well ID	MP Elevation	5/13/2003 Depth to Water (Ft below MP)	5/13/2003 GW Elevation
MW-1	289.50	16.37	273.13
MW-2	332.51	29.06	303.45
MW-3	312.83	29.02	283.81
MW-3S	312.51	26.00	286.51
MW-4	298.29	25.04	273.25
MW-4D	298.16	25.01	273.15
MW-5	285.48	19.43	266.05
MW-6S	287.90	12.8	275.10
MW-6D	287.25	13.59	273.66
MW-7S	292.12	31.54	260.58
MW-7D	292.54	70.44	222.10
OW-1	307.75	57.48	250.27
OW-2	305.96	72.11	233.85
OW-6	294.81	5.71	289.10
IW-1	312.46	8.93	303.53
IW-2	306.56	4.20	302.36
MW-8	283.65	N/A	N/A
MW-9	275.37	N/A	N/A
MW-10	280.92	N/A	N/A
MW-11	283.72	N/A	N/A
OW-3	307.35	N/A	N/A
OW-4	308.30	N/A	N/A
OW-5	307.41	N/A	N/A
TW-2	290.52	N/A	N/A

Note: N/A indicates groundwater level was not measured.
MP denotes measuring point.

Table 4
Groundwater Treatment System Air Sampling Data
Sampling Date: May 13, 2003

NOW Corporation Site
Town of Clinton, New York

Analyte	TW-1VE		VE-1VE		VE-2VE		TW-2AVE		ST-1		PAS		SVE-EXH		ST-4	
	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL	Results	RL
Vinyl Chloride	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Chloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,1-Dichloroethene	**2.1**	1.0	**2.3**	1.0	**2.5**	1.0	**2.7**	1.0	**2.7**	1.0	**22.0**	5.0	**3.3**	1.0	ND	1.0
1,1-Dichloroethane	**12.0**	1.0	**14.0**	1.0	**14.0**	1.0	**15.0**	1.0	**16.0**	1.0	**231.0**	5.0	**2.1**	1.0	ND	1.0
cis-1,2-Dichloroethene	**5.7**	1.0	**6.4**	1.0	**6.6**	1.0	**7.1**	1.0	**6.6**	1.0	**11.0**	5.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	**17.0**	1.0	**19.0**	1.0	**20.0**	1.0	**22.0**	1.0	**27.0**	1.0	**766.0**	5.0	ND	1.0	ND	1.0
Benzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0
1,2-Dichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Trichloroethene	**117.0**	1.0	**126.0**	1.0	**132.0**	1.0	**134.0**	1.0	**136.0**	1.0	**331.0**	5.0	ND	1.0	ND	1.0
Toluene	**4.9**	1.0	**4.0**	1.0	**4.6**	1.0	**5.3**	1.0	**4.5**	1.0	ND	5.0	**4.3**	1.0	**4.4**	1.0
1,1,2-Trichloroethane	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Tetrachloroethene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	**21.0**	5.0	ND	1.0	ND	1.0
Chlorobenzene	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0
Ethylbenzene	**1.2**	1.0	**1.0**	1.0	**1.0**	1.0	**1.5**	1.0	**1.0**	1.0	ND	5.0	ND	1.0	ND	1.0
p&m -Xylene	**3.2**	1.0	**3.2**	1.0	**3.3**	1.0	**3.1**	1.0	**2.9**	1.0	ND	5.0	**2.7**	1.0	**2.9**	1.0
o-Xylene	ND	1.0	ND	1.0	**1.0**	1.0	ND	1.0	ND	1.0	ND	5.0	ND	1.0	ND	1.0

Notes:
1) All results are reported in ppbv.
2) Positive results are presented in ***bold*** *typeface.*
3) ND indicates Not Detected (Below RL).
4) RL = Reporting Limit

Sample IDs:
TW-1VE = Well TW-1 Dual-Phase Vapor Extraction
TW-2AVE = Well TW-2A Dual-Phase Vapor Extraction
VE-1VE = Well VE-1 Vapor Extraction
VE-2VE = Well VE-2 Vapor Extraction
ST-1 = Sampling Tap #1 (Raw; Four Vapor Extraction Wells Combined)
SVE-EXH = Intermediate Sampling Tap, Between (2) 55-gal. drum carbon adsorbers
ST-4 = Sampling Tap #4 (Final, After 2nd Carbon Adsorber)
PAS = Air-stripper stack emissions

Adirondack Environmental Services, Inc.®
Experience is the solution
314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

June 04, 2003

Steve Choiniere
Earth Tech
40 British American Boulevard
Latham, NY 12110

TEL: (518) 951-2200
FAX:

RE: NOW Corp Site

Order No.: 030513024

Dear Steve Choiniere:

Adirondack Environmental Services, Inc received 6 samples on 5/13/2003 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709
AIHA#: 100307

Tara Daniels
Laboratory Manager

CC:
Revised/Faxed Bob Sweeney6/3/03

Adirondack Environmental Services, Inc

Date: *04-Jun-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030513024

CASE NARRATIVE

This is a revised report . MTBE has been added to the Influent.

Adirondack Environmental Services, Inc

Date: *04-Jun-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030513024

Lab ID: 030513024-001
Collection Date: 5/13/2003
Client Sample ID: Effluent
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS		**E200.7**		**(SW3010A)**		Analyst: **KH**
Aluminum	< 0.100	0.100		mg/L	1	5/21/2003
Arsenic	< 0.005	0.005		mg/L	1	5/21/2003
Barium	0.062	0.010		mg/L	1	5/21/2003
Chromium	< 0.005	0.005		mg/L	1	5/21/2003
Copper	< 0.005	0.005		mg/L	1	5/21/2003
Iron	0.055	0.050		mg/L	1	5/21/2003
Manganese	0.068	0.020		mg/L	1	5/21/2003
Nickel	< 0.020	0.020		mg/L	1	5/21/2003
Zinc	< 0.010	0.010		mg/L	1	5/21/2003
MERCURY IN WATER		**E245.1**		**(E245.1)**		Analyst: **SM**
Mercury	< 0.0002	0.0002		mg/L	1	5/15/2003
VOLATILE ORGANICS		**E624**				Analyst: **SO**
Vinyl chloride	< 0.50	0.50		µg/L	1	5/19/2003
Chloroethane	< 0.50	0.50		µg/L	1	5/19/2003
1,1-Dichloroethene	< 0.50	0.50		µg/L	1	5/19/2003
1,1-Dichloroethane	< 0.50	0.50		µg/L	1	5/19/2003
cis-1,2-Dichloroethene	< 0.50	0.50		µg/L	1	5/19/2003
trans-1,2-Dichloroethene	< 0.50	0.50		µg/L	1	5/19/2003
1,2-Dichloroethane	< 0.50	0.50		µg/L	1	5/19/2003
1,1,1-Trichloroethane	< 0.50	0.50		µg/L	1	5/19/2003
Trichloroethene	< 0.50	0.50		µg/L	1	5/19/2003
1,1,2-Trichloroethane	< 0.50	0.50		µg/L	1	5/19/2003
Benzene	< 0.50	0.50		µg/L	1	5/19/2003
Tetrachloroethene	< 0.50	0.50		µg/L	1	5/19/2003
Toluene	< 0.50	0.50		µg/L	1	5/19/2003
Chlorobenzene	< 0.50	0.50		µg/L	1	5/19/2003
Ethylbenzene	< 0.50	0.50		µg/L	1	5/19/2003
m,p-Xylene	< 0.50	0.50		µg/L	1	5/19/2003
o-Xylene	< 0.50	0.50		µg/L	1	5/19/2003
CYANIDE, TOTAL		**E335.3**				Analyst: **MC**
Cyanide	< 0.01	0.01		mg/L	1	5/23/2003
OIL AND GREASE		**E1664**				Analyst: **MC**
Oil & Grease	< 1.0	1.0		mg/L	1	5/27/2003
TOTAL DISSOLVED SOLIDS		**E160.1**				Analyst: **LS**
TDS (Residue, Filterable)	258	5		mg/L	1	5/16/2003
TOTAL SUSPENDED SOLIDS		**E160.2**				Analyst: **PL**
TSS (Residue, Non-Filterable)	< 1.0	1.0		mg/L	1	5/19/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *04-Jun-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030513024

Lab ID: 030513024-002
Collection Date: 5/13/2003
Client Sample ID: Influent
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS		**E200.7**		**(SW3010A)**		Analyst: **KH**
Aluminum	< 0.100	0.100		mg/L	1	5/21/2003
Arsenic	< 0.005	0.005		mg/L	1	5/21/2003
Barium	0.061	0.010		mg/L	1	5/21/2003
Chromium	< 0.005	0.005		mg/L	1	5/21/2003
Copper	0.007	0.005		mg/L	1	5/21/2003
Iron	0.051	0.050		mg/L	1	5/21/2003
Manganese	0.099	0.020		mg/L	1	5/21/2003
Nickel	< 0.020	0.020		mg/L	1	5/21/2003
Zinc	< 0.010	0.010		mg/L	1	5/21/2003
MERCURY IN WATER		**E245.1**		**(E245.1)**		Analyst: **SM**
Mercury	< 0.0002	0.0002		mg/L	1	5/15/2003
VOLATILE ORGANICS		**E624**				Analyst: **AJ**
Methyl tert-butyl ether	< 5.0	5.0		µg/L	5	5/20/2003
Vinyl chloride	< 50	50		µg/L	5	5/20/2003
Chloroethane	< 50	50		µg/L	5	5/20/2003
1,1-Dichloroethene	< 25	25		µg/L	5	5/20/2003
1,1-Dichloroethane	170	25		µg/L	5	5/20/2003
cis-1,2-Dichloroethene	< 25	25		µg/L	5	5/20/2003
trans-1,2-Dichloroethene	< 25	25		µg/L	5	5/20/2003
1,2-Dichloroethane	< 25	25		µg/L	5	5/20/2003
1,1,1-Trichloroethane	660	25		µg/L	5	5/20/2003
Trichloroethene	280	25		µg/L	5	5/20/2003
1,1,2-Trichloroethane	< 25	25		µg/L	5	5/20/2003
Benzene	< 25	25		µg/L	5	5/20/2003
Tetrachloroethene	< 25	25		µg/L	5	5/20/2003
Toluene	< 25	25		µg/L	5	5/20/2003
Chlorobenzene	< 25	25		µg/L	5	5/20/2003
Ethylbenzene	< 25	25		µg/L	5	5/20/2003
m,p-Xylene	< 25	25		µg/L	5	5/20/2003
o-Xylene	< 25	25		µg/L	5	5/20/2003
CYANIDE, TOTAL		**E335.3**				Analyst: **MC**
Cyanide	< 0.01	0.01		mg/L	1	5/23/2003
OIL AND GREASE		**E1664**				Analyst: **MC**
Oil & Grease	< 1.0	1.0		mg/L	1	5/27/2003
TOTAL DISSOLVED SOLIDS		**E160.1**				Analyst: **LS**
TDS (Residue, Filterable)	255	5		mg/L	1	5/16/2003
TOTAL SUSPENDED SOLIDS		**E160.2**				Analyst: **PL**

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *04-Jun-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030513024

TOTAL SUSPENDED SOLIDS		E160.2			Analyst: **PL**
TSS (Residue, Non-Filterable)	< 1.0	1.0	mg/L	1	5/19/2003

Lab ID: 030513024-003 **Collection Date:** 5/13/2003
Client Sample ID: TW-1 **Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS		**E624**				Analyst: **MG**
1,1,1-Trichloroethane	8.4	5.0		µg/L	1	5/19/2003 7:24:00 PM
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	5/19/2003 7:24:00 PM
1,1-Dichloroethane	90	5.0		µg/L	1	5/19/2003 7:24:00 PM
1,1-Dichloroethene	9.5	5.0		µg/L	1	5/19/2003 7:24:00 PM
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	5/19/2003 7:24:00 PM
Benzene	< 5.0	5.0		µg/L	1	5/19/2003 7:24:00 PM
Chlorobenzene	< 5.0	5.0		µg/L	1	5/19/2003 7:24:00 PM
Chloroethane	< 10	10		µg/L	1	5/19/2003 7:24:00 PM
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/19/2003 7:24:00 PM
Ethylbenzene	< 5.0	5.0		µg/L	1	5/19/2003 7:24:00 PM
m,p-Xylene	< 5.0	5.0		µg/L	1	5/19/2003 7:24:00 PM
Methyl tert-butyl ether	< 5.0	5.0		µg/L	1	5/19/2003 7:24:00 PM
o-Xylene	< 5.0	5.0		µg/L	1	5/19/2003 7:24:00 PM
Tetrachloroethene	< 5.0	5.0		µg/L	1	5/19/2003 7:24:00 PM
Toluene	< 5.0	5.0		µg/L	1	5/19/2003 7:24:00 PM
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/19/2003 7:24:00 PM
Trichloroethene	44	5.0		µg/L	1	5/19/2003 7:24:00 PM
Vinyl chloride	< 10	10		µg/L	1	5/19/2003 7:24:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *04-Jun-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030513024

Lab ID: 030513024-004
Collection Date: 5/13/2003
Client Sample ID: TW-2A
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS		**E624**				Analyst: **AJ**
Methyl tert-butyl ether	< 25	25		µg/L	5	5/20/2003
Vinyl chloride	< 50	50		µg/L	5	5/20/2003
Chloroethane	< 50	50		µg/L	5	5/20/2003
1,1-Dichloroethene	27	25		µg/L	5	5/20/2003
1,1-Dichloroethane	280	25		µg/L	5	5/20/2003
cis-1,2-Dichloroethene	< 25	25		µg/L	5	5/20/2003
trans-1,2-Dichloroethene	< 25	25		µg/L	5	5/20/2003
1,2-Dichloroethane	< 25	25		µg/L	5	5/20/2003
1,1,1-Trichloroethane	1200	25		µg/L	5	5/20/2003
Trichloroethene	470	25		µg/L	5	5/20/2003
1,1,2-Trichloroethane	< 25	25		µg/L	5	5/20/2003
Benzene	< 25	25		µg/L	5	5/20/2003
Tetrachloroethene	< 25	25		µg/L	5	5/20/2003
Toluene	< 25	25		µg/L	5	5/20/2003
Chlorobenzene	< 25	25		µg/L	5	5/20/2003
Ethylbenzene	< 25	25		µg/L	5	5/20/2003
m,p-Xylene	< 25	25		µg/L	5	5/20/2003
o-Xylene	< 25	25		µg/L	5	5/20/2003

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *04-Jun-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030513024

Lab ID: 030513024-005
Collection Date: 5/13/2003
Client Sample ID: TW-3
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS		**E624**				Analyst: **AJ**
Methyl tert-butyl ether	< 5.0	5.0		µg/L	1	5/20/2003
Vinyl chloride	< 10	10		µg/L	1	5/20/2003
Chloroethane	< 10	10		µg/L	1	5/20/2003
1,1-Dichloroethene	< 5.0	5.0		µg/L	1	5/20/2003
1,1-Dichloroethane	< 5.0	5.0		µg/L	1	5/20/2003
cis-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/20/2003
trans-1,2-Dichloroethene	< 5.0	5.0		µg/L	1	5/20/2003
1,2-Dichloroethane	< 5.0	5.0		µg/L	1	5/20/2003
1,1,1-Trichloroethane	13	5.0		µg/L	1	5/20/2003
Trichloroethene	16	5.0		µg/L	1	5/20/2003
1,1,2-Trichloroethane	< 5.0	5.0		µg/L	1	5/20/2003
Benzene	< 5.0	5.0		µg/L	1	5/20/2003
Tetrachloroethene	< 5.0	5.0		µg/L	1	5/20/2003
Toluene	< 5.0	5.0		µg/L	1	5/20/2003
Chlorobenzene	< 5.0	5.0		µg/L	1	5/20/2003
Ethylbenzene	< 5.0	5.0		µg/L	1	5/20/2003
m,p-Xylene	< 5.0	5.0		µg/L	1	5/20/2003
o-Xylene	< 5.0	5.0		µg/L	1	5/20/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: *04-Jun-03*

CLIENT: Earth Tech
Project: NOW Corp Site
Lab Order: 030513024

Lab ID: 030513024-006
Collection Date: 5/13/2003
Client Sample ID: Trip Blank Lot # 069
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS		**E624**				Analyst: **SO**
Vinyl chloride	< 0.50	0.50		µg/L	1	5/19/2003
Chloroethane	< 0.50	0.50		µg/L	1	5/19/2003
1,1-Dichloroethene	< 0.50	0.50		µg/L	1	5/19/2003
1,1-Dichloroethane	< 0.50	0.50		µg/L	1	5/19/2003
cis-1,2-Dichloroethene	< 0.50	0.50		µg/L	1	5/19/2003
trans-1,2-Dichloroethene	< 0.50	0.50		µg/L	1	5/19/2003
1,2-Dichloroethane	< 0.50	0.50		µg/L	1	5/19/2003
1,1,1-Trichloroethane	< 0.50	0.50		µg/L	1	5/19/2003
Trichloroethene	< 0.50	0.50		µg/L	1	5/19/2003
1,1,2-Trichloroethane	< 0.50	0.50		µg/L	1	5/19/2003
Benzene	< 0.50	0.50		µg/L	1	5/19/2003
Tetrachloroethene	< 0.50	0.50		µg/L	1	5/19/2003
Toluene	< 0.50	0.50		µg/L	1	5/19/2003
Chlorobenzene	< 0.50	0.50		µg/L	1	5/19/2003
Ethylbenzene	< 0.50	0.50		µg/L	1	5/19/2003
m,p-Xylene	< 0.50	0.50		µg/L	1	5/19/2003
o-Xylene	< 0.50	0.50		µg/L	1	5/19/2003

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Chain of Custody Record

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

Project Number	Project Name/Client	Custody Seal #	Earth Tech Cooler #
55849.01	NOW CORP.		

Sample Custodian: (Signature) Steve Gnoz

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: EPA 8260	MTBE	METALS: ZN, AL, AS, BA, CN	CU, FE, MN, HG, NI	TDS, TSS	O&G	CYANIDE	Matrix: Sample Type: GW	Sample Container: 40 mL
1	001 EFF 5/03	5-13-03	9:40	X				X							X	2
2										X	X					1
3												X				1
4													X			1
5			↓											X		1
6	INF 002 5/03		10:00					X	X							2
7										X	X					1
8												X				1
9													X			1
10			↓											X		1
11	003 TW-1 5/03		10:18					X	X							2
12	004 TW-2A 5/03		10:12					X	X							2
13	005 TW-3 5/03		10:08					X	X							2
14	006 TRIP BLANK LOT # 069							X								1
15																
16																
17	030513024															
18																

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Steve Gnoz	5-13-03 1:55				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
	5/13/3 1:55	M			

Send Lab Results To: STEVE CHOINIERE
EARTH TECH
40 BRITISH AMERICAN BLVD.
LATHAM, N.Y. 12110

Remarks:

Federal Express Airbill No.:
Lab:

Check Delivery Method:
- [x] Samples delivered in person
- [ ] Common carrier

Laboratory Receiving Notes:
Custody Seal Intact?
Temp. of Shipping Container:
Sample Condition:

White Copy - Lab Yellow Copy - File Pink Copy - Client

05/21/2003

Earth Tech
ATTN: Steve Choiniere
40 British American Blvd.
Latham, NY 12110

Project Reference: NOW Corporation, 55849.02
Lab Number: A3051404-01/08

Enclosed are results for sample(s) received 5/14/03 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Steve Choiniere on 5/21/03.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

Client: EarthTech
Attn: Steve Choiniere

Client's Project: NOW CORP., 55849.02
Date Received: 05/14/03
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A3051404-01		A3051404-02		A3051404-03		A3051404-04		A3051404-05	
Client Sample I.D.:		TW-1VE 5/03		VE-1VE 5/03		VE-2VE 5/03		TW-2AVE 5/03		ST-1 5/03	
Date Sampled:		05/13/03		05/13/03		05/13/03		05/13/03		05/13/03	
Date Analyzed:		05/16/03		05/16/03		05/16/03		05/16/03		05/16/03	
QC Batch No:		030516MS2A1		030516MS2A1		030516MS2A1		030516MS2A1		030516MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
ANALYTE	PQL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethene	1.0	2.1	1.0	2.3	1.0	2.5	1.0	2.7	1.0	2.7	1.0
1,1-Dichloroethane	1.0	12	1.0	14	1.0	14	1.0	15	1.0	16	1.0
c-1,2-Dichloroethene	1.0	5.7	1.0	6.4	1.0	6.6	1.0	7.1	1.0	6.6	1.0
1,1,1-Trichloroethane	1.0	17	1.0	19	1.0	20	1.0	22	1.0	27	1.0
Benzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	117	1.0	126	1.0	132	1.0	134	1.0	136	1.0
Toluene	1.0	4.9	1.0	4.0	1.0	4.6	1.0	5.3	1.0	4.5	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	1.2	1.0	1.0	1.0	1.0	1.0	1.5	1.0	1.0	1.0
p,&m-Xylene	1.0	3.2	1.0	3.2	1.0	3.3	1.0	3.1	1.0	2.9	1.0
o-Xylene	1.0	ND	1.0	ND	1.0	1.0	1.0	ND	1.0	ND	1.0

PQL = Practical Quantitation Limit
ND= Not Detected (below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date 5-21-03

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Client: EarthTech
Attn: Steve Choiniere

Client's Project: NOW CORP., 55849.02
Date Received: 05/14/03
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A3051404-06		A3051404-07		A3051404-08					
Client Sample I.D.:		PAS 5/03		SVE-EXH 5/03		ST-4 5/03					
Date Sampled:		05/13/03		05/13/03		05/13/03					
Date Analyzed:		05/16/03		05/16/03		05/16/03					
QC Batch No:		030516MS2A1		030516MS2A1		030516MS2A1					
Analyst Initials:		SC		SC		SC					
Dilution Factor:		5.0		1.0		1.0					
ANALYTE	PQL	Result	RL	Result	RL	Result	RL				
Vinyl Chloride	1.0	ND	5.0	ND	1.0	ND	1.0				
Chloroethane	1.0	ND	5.0	ND	1.0	ND	1.0				
1,1-Dichloroethene	1.0	22	5.0	3.3	1.0	ND	1.0				
1,1-Dichloroethane	1.0	231	5.0	2.1	1.0	ND	1.0				
c-1,2-Dichloroethene	1.0	11	5.0	ND	1.0	ND	1.0				
1,1,1-Trichloroethane	1.0	766	5.0	ND	1.0	ND	1.0				
Benzene	1.0	ND	5.0	ND	1.0	ND	1.0				
1,2-Dichloroethane	1.0	ND	5.0	ND	1.0	ND	1.0				
Trichloroethene	1.0	331	5.0	ND	1.0	ND	1.0				
Toluene	1.0	ND	5.0	4.3	1.0	4.4	1.0				
1,1,2-Trichloroethane	1.0	ND	5.0	ND	1.0	ND	1.0				
Tetrachloroethene	1.0	21	5.0	ND	1.0	ND	1.0				
Chlorobenzene	1.0	ND	5.0	ND	1.0	ND	1.0				
Ethylbenzene	1.0	ND	5.0	ND	1.0	ND	1.0				
p,&m-Xylene	1.0	ND	5.0	2.7	1.0	2.9	1.0				
o-Xylene	1.0	ND	5.0	ND	1.0	ND	1.0				

PQL = Practical Quantitation Limit
ND= Not Detected (below RL)
RL = PQL X Dilution Factor

Reviewed/Approved By: _____ Date 5-21-03
Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 030516MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	05/16/03		05/16/03		05/16/03						
Data File ID:	16MAY005.D		16MAY003.D		16MAY004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	7.9	79	7.9	79	0.4	70	130	25	Pass
Methylene Chloride	0.0	10.0	8.7	87	8.6	86	2.1	70	130	25	Pass
Trichloroethene	0.0	10.0	8.3	83	8.1	81	3.0	70	130	25	Pass
Toluene	0.0	10.0	8.5	85	8.2	82	3.0	70	130	25	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.7	107	10.4	104	2.8	70	130	25	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 5-21-03

Mark Johnson

Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Chain of Custody Record

EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

Custody Seal #	Earth Tech Cooler #

Project Number	Project Name/Client
55849.02	EARTH TECH NOW CORP.

Sample Custodian: (Signature) Steve Gray

Item No.	Sample Description (Field ID Number)	Date	Time	Grab	Comp.	PID Reading (ppm)	Label Number	Analysis Required: VOLATILE ORGANICS (ANALYTE LIST PER 2/12/98 BID FORM)	Matrix: Sample Type: AIR	Matrix: Sample Container: TEDLAR BAGS	
1	TW-1VE 5/03	5-13-03	10:50	N/A	N/A			X	X	2	14305/1406/01
2	VE-1VE 5/03		10:45								02
3	VE-2VE 5/03		10:40								03
4	TW-2AVE 5/03		10:35								04
5	ST-1 5/03		10:30								05
6	PAS 5/03		10:25								06
7	SVE-EXH. 5/03		10:20								07
8	ST-4 5/03		10:15								08
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
Steve Gray	5/13/03 11:10	FED EX			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Disposed of by: (Signature)	Items:	Date / Time
FED EX	5/14/03 12:10				

Send Lab Results To: STEVE CHOINIERE
EARTH TECH
40 BRITISH AMERICAN BLVD.
LATHAM, N.Y. 12110

Remarks: TAT: 10 BUSINESS DAYS.
SEND ENOUGH BAGS BACK WITH COOLER FOR NEXT SAMP. d/o ROGER GRAY

Federal Express Airbill No.:

Lab:

Check Delivery Method:

- ☐ Samples delivered in person
- ☐ Common carrier

Laboratory Receiving Notes:

Custody Seal Intact?

Temp. of Shipping Container:

Sample Condition:

White Copy - Lab Yellow Copy - File Pink Copy - Client