



13 British American Boulevard
Latham, NY 12110-1405
518.783.1996 (Phone)
518.783.8397 (Fax)

June 3, 2004

Mr. Jeff Dyber, P.E.
Environmental Engineer 2
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Eastern Remedial Action
625 Broadway
Albany, New York 12233

**RE: National Heatset Printing
Operation & Maintenance Report, April 2004
1 Adams Boulevard
Farmingdale, New York
NYSDEC Site 1-52-140**

Dear Mr. Dyber:

This letter provides an overview of the ongoing operation of the soil vapor extraction (SVE) system for the National Heatset Printing Site in Farmingdale, New York (**Figure 1**) for the reporting period including April 2004. A site visit was performed by Shaw Environmental and Infrastructure Engineering of New York, P.C. (Shaw) personnel on April 29, 2004 in accordance with our contract with the NYSDEC.

System Operation

Operation of SVE system began on September 17, 2002. The SVE system has been operational for approximately 66% of the reporting period. The system operational data is summarized in **Table 1** and is presented as **Appendix A**.

The SVE blower operated at a vacuum of 76 inches of water column as observed during the site visit. A flow of 131 cfm and a vacuum of >60 inches of water column were observed at the extraction well. The extraction well and dilution valves were 75% and 50% open respectively at the beginning of the site visit. Volatile organic compound (VOC) and tetrachloroethene (PCE) concentrations from the extraction well were observed to be 2.4 parts per million (ppm) and non-detect, respectively. The observed VOC and PCE concentrations were lower than their typical values. This is likely due to higher than normal water level elevations observed during the site visit. The positioning of the well extraction and dilution air valves will be modified based on continued monitoring of VOC concentrations.

No water was collected from the knockout vessel during this reporting period. A small quantity of water has been collected during the previous reporting periods and placed in an accumulation drum for storage until the drum has been filled, at which time proper characterization and disposal procedures will be followed.

VOC concentrations of 2.2 ppm and a non-detectable PCE concentration were observed at the VGAC influent port during the site visit. Detectable VOC and PCE concentrations were not observed at the VGAC mid and effluent ports during the site visit. Due to VOC and PCE concentrations observed from the VGAC effluent port during the March 2004 site visit, a carbon change out was performed on April 8, 2004.

Monitoring Probes

The vapor monitoring points were not monitored during the site visit. Monitoring of the vapor points will resume during future site visits.

PCE Removal

The SVE system removed approximately 12 pounds of PCE from the extraction well during this reporting period and has removed approximately 2,323 pounds of PCE to date. A summary of the estimated PCE mass removal over time is presented in **Table 2**.

Air Discharge Monitoring

Shaw personnel collected a sample of the system effluent air for laboratory analyses during the site visit. The laboratory analysis revealed a PCE concentration of 10 mg/m³ in the system effluent sample. Analytical results are summarized in **Table 3** and the laboratory report of analyses is presented as **Appendix B**.

Field monitoring of the system discharge conducted during the site visit indicated non-detectable VOC and PCE concentrations. A summary of the field monitoring and laboratory air discharge monitoring results is presented as **Table 4**.

Conclusions and Recommendations

Based on the data collected from the SVE system during this reporting period, Shaw recommends continued operation of the SVE system at 1 Adams Boulevard. As site conditions change, adjustments will be made to optimize the system operation.

Please do not hesitate to contact me at 518-783-1996 with any questions you might have regarding this report.

Sincerely,
Shaw Environmental, Inc.



John A. Skaarup
Project Engineer

Cc: File

Attachments: Tables
Figures
Appendix A – Site Visit Documentation
Appendix B – Laboratory Report of Analyses

TABLES

**TABLE 1
SUMMARY OF SOL VAPOR EXTRACTION SYSTEM READINGS
NATIONAL HEATSET PRINTING
1 ADAMS BLVD., FARMINGDALE, NY**

Date	Run Time Meter Reading (hours)	Run Time Since Last Visit (hours)		Operation Time Since Last Visit (%)	Dilution Valve Position (% Open)	Extraction Well MW-F Valve Position (% Open)	Air Flow at Well (scfm)	Vacuum at Well (inches H2O)	Pre-Dilution PID (ppm)	Pre-Dilution PCE (ppm)	Influent SVE					Mid GAC				Effluent GAC				
		Available	Actual								Blower Flow (cfm)	Vacuum (inches H2O)	Temp. (°F)	PID (ppm)	PCE (ppm)	Flow (cfm)	Temp. (°F)	PID (ppm)	PCE (ppm)	Flow (cfm)	Temp. (°F)	PID (ppm)	PCE (ppm)	
9/18/2002	--	--		--							SVE PILOT TEST STARTUP													
9/30/2002	304	294	/	294	100%	100	50	34.5	5	2,000	500	256	25	107.2	1,015	--	317	102.3	0	--	290	89.5	0	--
10/14/2002	642	343	/	338	99%	100	50	38	7	1,011	400	258	27	--	75.3	50	--	--	0	--	--	--	0	--
11/19/2002	1508	882	/	866	98%	100	50	49	12	0	0	120	28	106	0	0	209	92	0	--	290	80.3	0	--
12/4/2002	--	368	/	--	--	--	--	--	--	77	200	--	--	--	14.3	10	--	--	15.5	10	--	--	0	0
12/16/2002	2153	294	/	645	98%	100	50	36.5	10	560	200	253	28	92	46.4	50	302	60	3.4	--	340	53.9	0	--
1/21/2003	3016	882	/	863	98%	100	50	--	--	--	--	70	52	98	0	0	220	--	0	--	220	--	0	--
2/10/2003	3496	490	/	480	98%	100	50	38	--	639	400	262	27	102	72	50	266	90	26	10	258	83	3.2	10
3/18/2003	4360	882	/	864	98%	100	50	92	12	125	100	266	25	123	15	10	278	124	0	0	282	117	0	0
4/29/2003	5359	1029	/	999	97%	75	50	75	50	152	50	132	16	118.5	48.2	25	302	96	18.6	10	287	86	0.6	0
5/13/2003	5700	343	/	341	99%	75	50	78	--	127	50	239	48	130	41.8	50	246	108	46	25	245	97	0.6	0
6/30/2003	6850	1176	/	1150	98%	50	50	115	32	82.4	50	140	66	173	36.8	50	198	157	25.1	25	240	150	29.8	100
7/10/2003	6851	245	/	1	0%	50	50	99.5	25	406	400	151	68	156	221	215	260	76	0	0	222	81.9	0	0
7/22/2003	7144	294	/	294	100%	50	50	--	--	127	--	--	--	168	65	--	--	107	0	--	--	106	0	--
8/26/2003	7957	858	/	813	95%	50	50	79	13.5	137	10	186	65	170	51.4	5	291	--	55.4	10	232	--	35.6	10
9/23/2003	8274	686	/	317	46%	50	50	218	33	141	15	194	64	160	55	30	254	124	0	0	210	110	0	0
10/21/2003	8945	686	/	671	98%	50	50	166	45	--	20	158	68	166	37.5	25	214	130	30.7	15	225	112	0	0
11/24/2003	9749	833	/	805	97%	50	50	130	46	141	125	178	72	138	261	200	225	52	0	0	205	51.4	0	0
1/6/2004	9750	1054	/	1	0%	50	50	98.5	74	118	100	164	12	140	247	250	224	48.6	0	0	200	48.4	0	0
2/9/2004	10336	833	/	586	70%	50	50	121	44	23.1	10	172	70	155.8	29.8	25	233	137	41.4	25	235	117	0	0
3/30/2004	11289	1225	/	953	78%	50	50	103	>50	34	<10	198	70	160	22	<10	240	128	22	<10	160	115	24	<5
4/8/2004	11441	221	/	152	69%	50	75	127	--	23.7	<10	--	--	--	--	--	180	83	30	--	206	83	0.9	--
4/29/2004	11768	515	/	327	64%	50	75	131	>60	2.4	0	--	76	170	2.2	0	209	128	0	0	255	116	0	0

Notes:

PID = Total VOC concentration measured with photoionization detector

ppm = parts per million (volume/volume basis)

PCE = Tetrachloroethene (PCE) concentration measured with Drager tube of 10-500 ppm range

scfm = standard cubic feet per minute

cfm = cubic feet per minute

Influent SVE = Readings collected between the SVE Blower and the Carbon Units

Mid GAC = Readings collected between the lead and lag carbon units

Effluent GAC = Readings collected after the lag carbon unit

GAC = granular activated carbon unit

-- = measurement not recorded

TABLE 2
PCE
REMOVAL ESTIMATE
NATIONAL HEATSET PRINTING
1 ADAMS BLVD., FARMINGDALE, NY

Date	VOC Influent Concentration * (ppmv)	PCE Influent Concentration * (ppmv)	% PCE of Total VOCs	Extraction Well Flow Rate (cfm)	Elapsed Time Since Last Visit (day)	PCE Removal Since Last Visit (lb)	Cumulative PCE Removal (lb)
9/18/2002	SVE PILOT TEST STARTUP						
9/30/2002	2,000	500	25.0	34.5	12	126	126
10/14/2002	1,011	400	39.6	38	14	129	255
11/19/2002	0	0	--	49	36	116	371
12/16/2002	560	200	35.7	36.5	27	70	441
1/13/2003	485	400	82.5	28.5	28	157	597
1/21/2003	0	0	--	0	8	63	660
2/10/2003	639	400	62.6	38	20	65	725
3/5/2003	263	200	76.0	24.4	23	132	856
3/18/2003	125	100	80.0	92	13	77	934
4/29/2003	152	50	32.9	75	42	109	1,042
5/13/2003	127	50	39.4	78	14	65	1,107
6/30/2003	82.4	50	60.7	115	48	91	1,198
7/22/2003	406	400	98.5	99.5	12	416	1,615
8/26/2003	137	10	7.3	79	35	291	1,906
9/23/2003	141	15	10.6	218	14	30	1,936
10/21/2003	37.5	20	53.3	166	28	42	1,978
11/24/2003	141	125	88.7	130	34	179	2,157
1/6/2004	118	100	84.7	98.5	43	--	2,157
2/9/2004	23.1	10	43.3	121	34	126	2,283
3/30/2004	22	10	45.5	103	50	28	2,311
4/29/2004	2.4	0	0.0	131	30	12	2,323

Notes:

* = VOC concentrations of 2,000 ppm and PCE concentrations of 500 ppm are greater than the limit of their respective monitoring device and are to be taken as estimations.

Removal Rate = [(flow(cfm)*influent conc.(ppmv)*MW*12.187)/(273.15+C)]*1 cu. m./35.31 cu. ft*1g/1000 mg*1 lb/453.6 g
*60 min/1 hr*24 hr/1 day*days of operation

Where:

MW = molecular weight

Molecular weight (MW) of PCE is 165.85

C = degrees centigrade, assumed to be 25

lb = pounds

cfm = cubic feet per minute

ppmv = parts per million (volume/volume basis)

TABLE 3
AIR SAMPLE ANALYTICAL RESULTS
NATIONAL HEATSET PRINTING
1 ADAMS BLVD., FARMINGDALE, NY

SVE Influent Concentration (mg/m3)			
Date	cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene
9/18/2002	5	600E	31
9/30/2002	ND (5)	360E	23
10/14/2002	--	--	--
11/19/2002	--	--	--

VGAC Effluent Concentration (mg/m3)			
Date	cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene
9/18/2002	--	--	--
9/30/2002	--	--	--
10/14/2002	--	--	--
11/19/2002	--	--	--
12/16/2002	ND (5)	ND (5)	ND (5)
1/21/2003	--	--	--
2/10/2003	ND (5)	8	6
3/18/2003	--	--	--
4/29/2003	--	--	--
5/13/2003	ND (1)	5	ND (1)
6/30/2003	--	--	--
7/22/2003	ND (1)	ND (1)	ND (1)
8/26/2003	ND (5)	29	3.6
9/23/2003	ND (5)	ND (5)	ND (5)
10/21/2003	ND (5)	ND (5)	ND (5)
11/24/2003	--	--	--
1/6/2004	--	--	--
2/9/2004	10	ND (5)	ND (5)
3/30/2004	2J	77	1J
4/29/2004	ND (5)	10	ND (5)

Notes:

Only compounds that were detected above the method reporting limit were presented above

ND(5) = Not detected above method reporting limit in parenthesis

E = Concentration exceeded calibration range

SVE = Soil vapor extraction

VGAC = vapor-phase granular activated carbon unit

mg/m3 = milligrams per cubic meter

-- = sample not collected

J = Estimated Value

TABLE 4
AIR DISCHARGE MONITORING
NATIONAL HEATSET PRINTING
1 ADAMS BLVD., FARMINGDALE, NY

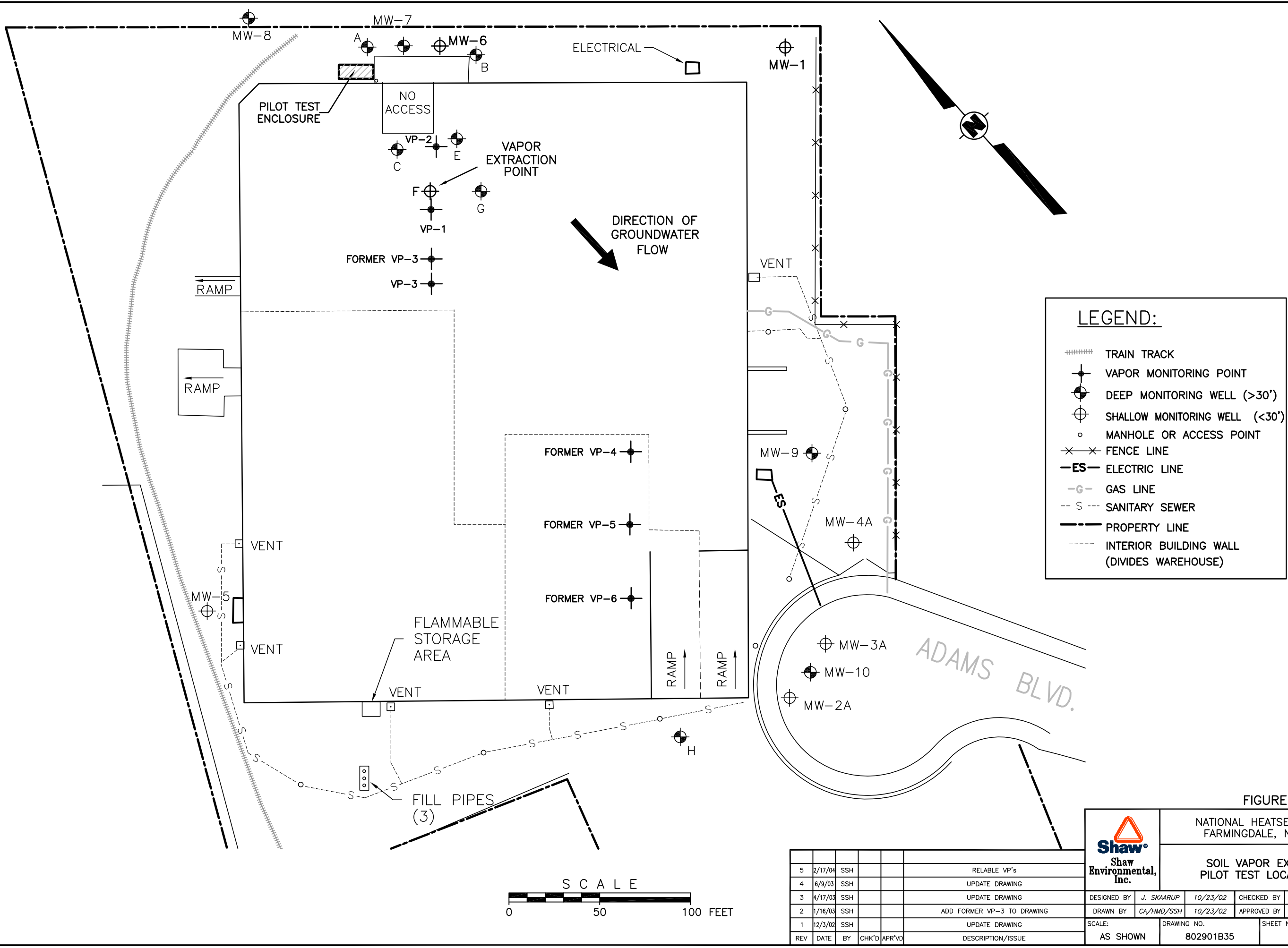
Date	System Effluent Flow Rate (cfm)	Field Monitoring		Elapsed Time (day)	Laboratory Results			Discharge based on Field Monitoring		Discharge based on Laboratory Results					
		PCE System Effluent Concentration (ppmv)	System Effluent VOC Concentration (ppmv)		PCE (mg/cu m.)	TCE (mg/cu m.)	cis-1,2-DCE (mg/cu m.)	PCE Discharge Since Last Visit (lb/hr)	PCE Discharge Since Last Visit (lb)	PCE Discharge Since Last Visit: lb/hr	PCE Discharge Since Last Visit (lb)	TCE Discharge Since Last Visit (lb/hr)	TCE Discharge Since Last Visit (lb)	cis-1,2-DCE Discharge Since Last Visit (lb/hr)	cis-1,2-DCE Discharge Since Last Visit (lb)
9/18/2002	SVE PILOT TEST STARTUP														
9/30/2002	290	--	0	12	--	--	--	--	--	--	--	--	--	--	--
10/14/2002	--	--	0	14	--	--	--	--	--	--	--	--	--	--	--
11/19/2002	290	--	0	36	--	--	--	--	--	--	--	--	--	--	--
12/16/2002	340	--	0	27	ND (5)	ND (5)	ND (5)	--	--	0.00	0.00	0.00	0.00	0.00	0.00
1/13/2003	45	0	--	28	--	--	--	0.0000	0.00	--	--	--	--	--	--
1/21/2003	220	--	0	8	--	--	--	--	--	--	--	--	--	--	--
2/10/2003	258	10	3.2	20	8.0	6.0	ND (5)	0.0654	31.40	0.008	3.71	0.006	2.78	0.00	0.00
3/5/2003	305	--	0	23	--	--	--	--	--	--	--	--	--	--	--
3/18/2003	282	0	0	13	--	--	--	0.0000	0.00	--	--	--	--	--	--
4/29/2003	287	0	0.6	42	--	--	--	0.0000	0.00	--	--	--	--	--	--
5/13/2003	245	0	0.6	14	5.0	ND (1)	ND (1)	0.0000	0.00	0.005	1.54	0.00	0.00	0.00	0.00
6/30/2003	240	100	29.8	48	--	--	--	0.3043	350.56	--	--	--	--	--	--
7/22/2003	222	--	0	12	ND (1)	ND (1)	ND (1)	--	--	0.00	0.00	0.00	0.00	0.00	0.00
8/26/2003	232	10	35.6	35	29.0	3.6	ND (5)	0.0588	49.42	0.025	21.17	0.003	2.63	0.00	0.00
9/23/2003	210	0	0	28	ND (5)	ND (5)	ND (5)	0.0000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
10/21/2003	225	0	0	28	ND (5)	ND (5)	ND (5)	0.0000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
11/24/2003	205	0	0	34	--	--	--	0.0000	0.00	--	--	--	--	--	--
2003 Totals:									431.38		26.424		5.412		0.000
1/6/2004	200	0	0	43	--	--	--	0.0000	0.00	--	--	--	--	--	--
2/9/2004	235	0	0	34	ND (5)	ND (5)	10	0.0000	0.00	0.000	0.00	0.000	0.00	0.009	7.18
3/30/2004	160	5	24	50	77	1J	2J	0.0203	24.34	0.046	55.38	0.001	0.72	0.001	1.44
4/29/2004	255	0	0	30	10	ND (5)	ND (5)	0.0000	0.00	0.010	6.88	0.001	0.69	0.002	1.38
2004 Totals:									24.34		62.26		1.41		10.00

Notes:
 -- = Measurement not recorded
Discharge Rate (Field Monitoring, lb/hr) = [(flow(cfm)*influent conc.(ppmv)*MW*12.187)/(273.15+C)]*1 cu. m./35.31 cu. ft*1g/1000 mg*1 lb/453.6 g*60 min/1 hr
Discharge (Field Monitoring, lb) = Discharge Rate (lb/hr) * # of days*24hours/day*60 minutes/hr
Discharge Rate (Lab Results, lb/hr) = flow (cfm)*effluent conc. (mg/cu. m.)*1g/1000mg*1lb/453.6g*1cu. m./35.31cu. ft*60min/1 hr
Discharge (Lab Results, lb) = Discharge Rate (lb/hr) * # of days*24hours/day

Where:
 MW = molecular weight
 Molecular weight (MW) of PCE is 165.85, Molecular weight (MW) of TCE is 131.4, Molecular weight of cis-1,2-DCE is 96.94
 C = degrees centigrade, assumed to be 25
 cfm = cubic feet per minute
 mg/cu. m = milligrams per cubic meter
 ppmv = parts per million (volume/volume basis)
 lb = pounds
 hr = hours
 J = Estimated Value

Permit Limit		
	lb/hr	lb/yr
PCE	0.031	270
TCE	0.014	120
cis-1,2-DCE	0.63	5,510

FIGURES



5	2/17/04	SSH			RELAIBLE VP's
4	6/9/03	SSH			UPDATE DRAWING
3	4/17/03	SSH			UPDATE DRAWING
2	1/16/03	SSH			ADD FORMER VP-3 TO DRAWING
1	12/3/02	SSH			UPDATE DRAWING
REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION/ISSUE

FIGURE 1

NATIONAL HEATSET PRINTING
FARMINGDALE, NEW YORK

SOIL VAPOR EXTRACTION
PILOT TEST LOCATION MAP

DESIGNED BY	J. SKAARUP	10/23/02	CHECKED BY	
DRAWN BY	CA/HMD/SSH	10/23/02	APPROVED BY	
SCALE:	AS SHOWN	DRAWING NO.	802901B35	SHEET NO.
				REVISION NO.
				5

APPENDIX A
SITE VISIT DOCUMENTATION

Supplemental visit for Carbon Changeout National Heatset Printing

1 Adams Boulevard, Farmingdale, New York

Shaw Environmental, Inc. Job/Task Number 802901/06010000

 Personnel: B FRITZ
 Weather: SUNNY 45°

 Time: _____
 Date: 4-8-04
System Status:
 Arrival: 8:45
 Departure: 14:45
 Run Timer Reading: NA
 Electric Meter Reading: 1144088

 UPON ARRIVAL
 Blower ON
 FNF EFF
 VAC - 27" WC 0.5" WC
 TEMP — 113°F
System Data:
 Extraction Well F Gate Valve: Before 50 % Open After 75%
 Dilution Valve: 100 % Open 50%
Pre-Bleed Air (Extraction Well):
 Flow: 32.5 CFM
 Vacuum: NA "H2O
 PID Reading: 173 PPM
 Draeger Tube: 210 PPM
 Temperature: 56.7 °F

 Post-Bleed Air (SVE Intake): After Carbon Changeout Extraction Well
 Flow: 127 CFM
 Vacuum: NA "H2O
 PID Reading: 28.7 PPM
 Draeger Tube: 210 PPM
 Temperature: 58.7 °F

 Carbon Monitoring: Before Carbon Change
 Mid: 2.3 PPM 256 CFM
 Effluent: 7.0 PPM 281 CFM
 Temp: 108.9 °F
 Temp: 107.0 °F

 NA
210 PPM (Drager)
710 PPM (Drager)

Carbon effluent sample collected & shipped to lab?

YES

Knockout Tank Drained?

NO

Gallons:

Purge water drums on-site:

Monitoring Well Gauging / Vapor Point Monitoring:

Well/V.P. ID:	MW-C	MW-E	MW-F	MW-G	VP-1	VP-2	VP-3	VP-4	VP-5	VP-6
DTW (ft):	NA									
Vac. (" H2O):	NA									

Comments:

CARBON CHANGED OUT OF BOTH 1000 LB VESSELS
 NEW MASTER LOCKS PUT ON CONTAINER AND GATE
 12 CARBON DRUMS (55 GAL) GENERATED LIFT ON PALLETS AT NW
 CORNER OF BUILDING. EACH DRUM LABELED WITH HAZ CARBOL.

After Carbon Change

 Mid 30.3 PPM 180.0 CFM 83.1 TEMP NA PPM
 Effluent 0.9 206 83.6 NA

Blower Info After Carbon Change

 FNF EFF
 VAC - 25" 10"
 Temp - 170 °F

Monthly O+M Visit

National Heatset Printing

1 Adams Boulevard, Farmingdale, New York

Shaw Environmental, Inc. Job/Task Number 802901/06010000

Personnel:

B FRITZ

Weather:

SUNNY 62°

Time:

9:00

Date:

4/29/04**System Status:**

Arrival:

9:00

Departure:

11:00

Run Timer Reading:

Electric Meter Reading: 1176799 not recorded**System Data:**

Extraction Well F Gate Valve:

75

% Open

Dilution Valve:

50

% Open

Pre-Bleed Air (Extraction Well): Before Blower

Flow:

131

CFM

Vacuum:

>60

"H2O

PID Reading:

2.4

PPM

Draeger Tube:

~04400

PPM

Temperature:

64.1

°F

Post-Bleed Air (SVE Influent): At Blower

Flow:

2.5

CFM

Vacuum:

76

"H2O

PID Reading:

2.2

PPM

Draeger Tube:

0

PPM

Temperature:

170

°F

Carbon Monitoring:

Mid:

0.0

PPM

209

CFM

128.3 Temp. (°F)0

PPM (Drager)

Effluent:

0.0

PPM

235

CFM

116.5 Temp. (°F)0

PPM (Drager)

Carbon effluent sample collected & shipped to lab?

Yes

Knockout Tank Drained?

NA

Gallons:

NA

Purge water drums on-site:

NA**Monitoring Well Gauging / Vapor Point Monitoring:**

Well/V.P. ID:	MW-C	MW-E	MW-F	MW-G	VP-1	VP-2	VP-3	VP-4	VP-5	VP-6
DTW (ft):	<u>16.05</u>	<u>16.03</u>	<u>—</u>	<u>16.21</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
Vac. (" H2O):	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Comments:

CALIBRATED PID UPON ARRIVAL (99.8 MM)

SYSTEM OPERATING UPON ARRIVAL

AIR SAMPLE COLLECTED AND WILL BE SHIPPED TO MITCHELL

SYSTEM OPERATING UPON DEPARTURE

→ higher water table ←

APPENDIX B

LABORATORY REPORT OF ANALYSES



RECEIVED
6-1-04

"Environmental Testing For The New Millennium"

May 25, 2004

Shaw Environmental & Infrastructure, Inc.
13 British American Boulevard
Latham, NY 12110
Attn: Mr. John Skaarup

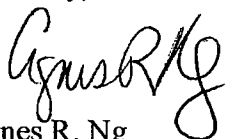
RE: Client Project: National Heatset, 802901 8A
Lab Project #: C0374

Dear Mr. Skaarup:

Enclosed please find the data report of the required analysis for the sample associated with the above referenced project. If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,


Agnes R. Ng
CLP Project Manager

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Report of Laboratory Analyses for Shaw Environmental & Infrastructure, Inc.

Client Project: National Heatset

SDG# C0374

Mitkem Work Order ID: C0374

May 25, 2004

Prepared For: Shaw Environmental & Infrastructure, Inc.
13 British American Boulevard
Latham, NY 12110
Attn: Mr. John Skaarup

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



Client: Shaw Environmental & Infrastructure, Inc.

Client Project: National Heatset, 802901

Lab Project: C0374

Date samples received: 04/30/04

Project Narrative

This data report includes the analysis results for one (1) air sample in a Tedlar bag that was received from Shaw Environmental & Infrastructure, Inc on April 30, 2004. Analyses were performed per specification in the Chain of Custody form. For reference, a copy of the Mitkem Work Order form is included for cross-referencing the client sample ID and laboratory sample ID.

All of the analyses were performed according to method specifications, as modified by Mitkem. No unusual occurrences were noted during sample analysis.

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

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

A handwritten signature in black ink, appearing to read "Agnes Ng", is positioned above the printed name and title.

Agnes Ng
CLP Project Manager

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CARBEFF

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: C0374

Matrix: (soil/water) AIR

Lab Sample ID: C0374-01A

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V1G1375

Level: (low/med) LOW

Date Received: 04/30/04

% Moisture: not dec. _____

Date Analyzed: 05/10/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/M3	Q
---------	----------	---	---

75-71-8-----	Dichlorodifluoromethane	5	U
74-87-3-----	Chloromethane	5	U
75-01-4-----	Vinyl Chloride	5	U
74-83-9-----	Bromomethane	2	J
75-00-3-----	Chloroethane	5	U
75-69-4-----	Trichlorofluoromethane	5	U
75-35-4-----	1,1-Dichloroethene	5	U
67-64-1-----	Acetone	5	U
74-88-4-----	Iodomethane	5	U
75-15-0-----	Carbon Disulfide	5	U
75-09-2-----	Methylene Chloride	5	U
156-60-5-----	trans-1,2-Dichloroethene	5	U
1634-04-4-----	Methyl tert-butyl ether	5	U
75-34-3-----	1,1-Dichloroethane	5	U
108-05-4-----	Vinyl acetate	5	U
78-93-3-----	2-Butanone	5	U
156-59-2-----	cis-1,2-Dichloroethene	5	U
590-20-7-----	2,2-Dichloropropane	5	U
74-97-5-----	Bromochloromethane	5	U
67-66-3-----	Chloroform	5	U
71-55-6-----	1,1,1-Trichloroethane	5	U
563-58-6-----	1,1-Dichloropropene	5	U
56-23-5-----	Carbon Tetrachloride	5	U
107-06-2-----	1,2-Dichloroethane	5	U
71-43-2-----	Benzene	5	U
79-01-6-----	Trichloroethene	5	U
78-87-5-----	1,2-Dichloropropane	5	U
74-95-3-----	Dibromomethane	5	U
75-27-4-----	Bromodichloromethane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
108-10-1-----	4-Methyl-2-pentanone	5	U
108-88-3-----	Toluene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CARBEFF

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: C0374

Matrix: (soil/water) AIR

Lab Sample ID: C0374-01A

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V1G1375

Level: (low/med) LOW

Date Received: 04/30/04

% Moisture: not dec. _____

Date Analyzed: 05/10/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/M3	Q
---------	----------	---	---

142-28-9-----	1,3-Dichloropropane	5	U
127-18-4-----	Tetrachloroethene	10	
591-78-6-----	2-Hexanone	1	J
124-48-1-----	Dibromochloromethane	5	U
106-93-4-----	1,2-Dibromoethane	5	U
108-90-7-----	Chlorobenzene	5	U
630-20-6-----	1,1,1,2-Tetrachloroethane	5	U
100-41-4-----	Ethylbenzene	5	U
95-47-6-----	o-Xylene	5	U
-----	m,p-Xylene	5	U
1330-20-7-----	Xylene (Total)	5	U
100-42-5-----	Styrene	5	U
75-25-2-----	Bromoform	5	U
98-82-8-----	Isopropylbenzene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-86-1-----	Bromobenzene	5	U
96-18-4-----	1,2,3-Trichloropropane	5	U
103-65-1-----	n-Propylbenzene	5	U
95-49-8-----	2-Chlorotoluene	5	U
108-67-8-----	1,3,5-Trimethylbenzene	5	U
106-43-4-----	4-Chlorotoluene	5	U
98-06-6-----	tert-Butylbenzene	5	U
95-63-6-----	1,2,4-Trimethylbenzene	5	U
135-98-8-----	sec-Butylbenzene	5	U
99-87-6-----	4-Isopropyltoluene	5	U
541-73-1-----	1,3-Dichlorobenzene	5	U
106-46-7-----	1,4-Dichlorobenzene	5	U
104-51-8-----	n-Butylbenzene	5	U
95-50-1-----	1,2-Dichlorobenzene	5	U
96-12-8-----	1,2-Dibromo-3-chloropropane	5	U
120-82-1-----	1,2,4-Trichlorobenzene	5	U
87-68-3-----	Hexachlorobutadiene	1	J
91-20-3-----	Naphthalene	1	J
87-61-6-----	1,2,3-Trichlorobenzene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK1J

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: C0374

Matrix: (soil/water) AIR

Lab Sample ID: MB-12665

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V1G1372

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 05/10/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/M3	Q
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75-71-8-----	Dichlorodifluoromethane	5	U
74-87-3-----	Chloromethane	5	U
75-01-4-----	Vinyl Chloride	5	U
74-83-9-----	Bromomethane	5	U
75-00-3-----	Chloroethane	5	U
75-69-4-----	Trichlorofluoromethane	5	U
75-35-4-----	1,1-Dichloroethene	5	U
67-64-1-----	Acetone	5	U
74-88-4-----	Iodomethane	5	U
75-15-0-----	Carbon Disulfide	5	U
75-09-2-----	Methylene Chloride	5	U
156-60-5-----	trans-1,2-Dichloroethene	5	U
1634-04-4-----	Methyl tert-butyl ether	5	U
75-34-3-----	1,1-Dichloroethane	5	U
108-05-4-----	Vinyl acetate	5	U
78-93-3-----	2-Butanone	5	U
156-59-2-----	cis-1,2-Dichloroethene	5	U
590-20-7-----	2,2-Dichloropropane	5	U
74-97-5-----	Bromochloromethane	5	U
67-66-3-----	Chloroform	5	U
71-55-6-----	1,1,1-Trichloroethane	5	U
563-58-6-----	1,1-Dichloropropene	5	U
56-23-5-----	Carbon Tetrachloride	5	U
107-06-2-----	1,2-Dichloroethane	5	U
71-43-2-----	Benzene	5	U
79-01-6-----	Trichloroethene	5	U
78-87-5-----	1,2-Dichloropropane	5	U
74-95-3-----	Dibromomethane	5	U
75-27-4-----	Bromodichloromethane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
108-10-1-----	4-Methyl-2-pentanone	5	U
108-88-3-----	Toluene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK1J

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: C0374

Matrix: (soil/water) AIR

Lab Sample ID: MB-12665

Sample wt/vol: 5 (g/mL) ML

Lab File ID: V1G1372

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 05/10/04

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) MG/M3 Q

142-28-9-----	1,3-Dichloropropane	5	U
127-18-4-----	Tetrachloroethene	5	U
591-78-6-----	2-Hexanone	5	U
124-48-1-----	Dibromochloromethane	5	U
106-93-4-----	1,2-Dibromoethane	5	U
108-90-7-----	Chlorobenzene	5	U
630-20-6-----	1,1,1,2-Tetrachloroethane	5	U
100-41-4-----	Ethylbenzene	5	U
95-47-6-----	o-Xylene	5	U
-----	m,p-Xylene	5	U
1330-20-7-----	Xylene (Total)	5	U
100-42-5-----	Styrene	5	U
75-25-2-----	Bromoform	5	U
98-82-8-----	Isopropylbenzene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-86-1-----	Bromobenzene	5	U
96-18-4-----	1,2,3-Trichloropropane	5	U
103-65-1-----	n-Propylbenzene	5	U
95-49-8-----	2-Chlorotoluene	5	U
108-67-8-----	1,3,5-Trimethylbenzene	5	U
106-43-4-----	4-Chlorotoluene	5	U
98-06-6-----	tert-Butylbenzene	5	U
95-63-6-----	1,2,4-Trimethylbenzene	5	U
135-98-8-----	sec-Butylbenzene	5	U
99-87-6-----	4-Isopropyltoluene	5	U
541-73-1-----	1,3-Dichlorobenzene	5	U
106-46-7-----	1,4-Dichlorobenzene	5	U
104-51-8-----	n-Butylbenzene	5	U
95-50-1-----	1,2-Dichlorobenzene	5	U
96-12-8-----	1,2-Dibromo-3-chloropropane	5	U
120-82-1-----	1,2,4-Trichlorobenzene	5	U
87-68-3-----	Hexachlorobutadiene	5	U
91-20-3-----	Naphthalene	5	U
87-61-6-----	1,2,3-Trichlorobenzene	5	U

FORM I VOA

OLM03.0

0007

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VLK1J

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM Case No.:

SAS No.:

SDG No.: C0374

Lab File ID: V1G1372

Lab Sample ID: MB-12665

Date Analyzed: 05/10/04

Time Analyzed: 1048

GC Column: DB-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: V1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO. =====	LAB SAMPLE ID =====	LAB FILE ID =====	TIME ANALYZED =====
01	CARBEFF	C0374-01A	V1G1375	1247
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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27				
28				
29				
30				

COMMENTS:

Client ID: SHAW_LATHAM

Project: NYSDEC

Location: 802901

Comments: N/A

Case:

SDG:

PO: 205503

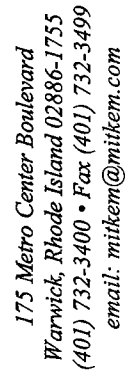
Report Level: LEVEL 2

EDD: XL

HC Due: 05/14/04

Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Invoice Remarks	Hold	MS	SEL	Storage
C0374-01A	CARBEFF	04/29/04 9:45	04/30/04	Air	TO14	Air samples - 95-1, run 5mL	☐	☐	☐	VOA



Sample Condition Form

Page 1 of 1

Received By: <u>SDAUS</u>		Reviewed By:		Date: <u>4-30-04</u>	MITKEM Project: <u>C0374</u>	
Heatset						
Client Project:		Client: <u>SHAW</u>				
Condition:		Preservation (pH)				VOA
1)Custody Seal(s)		<u>Present</u> / Absent	Matrix			
<u>Coolers</u> / Bottles						
<u>Intact</u> / Broken						
Custody Seal Numbers						
<u>7117</u>						
3)Chain-of- Custody		<u>Present</u> / Absent				
4)Airbill(s)		<u>Present</u> / Absent				
Airbill Number(s)		<u>8421</u>				
		<u>8289</u>				
		<u>7212</u>				
5)Cooler Temperature						
Coolant Condition		<u>Ambient</u>				
6)Sample Bottles		<u>Intact</u> / Broken / Leaking				
7)Date Received		<u>4-30-04</u>				
8)Time Received		<u>0900</u>				
VOA Matrix Key:						
US = Unpreserved Soil		A = Air				
UA = Unpreserved Aqueous		H = HCl				
M/N = MeOH& NaHSO4		E=Encore				
N = NaHSO4 M = MeOH						
See Sample Condition Notification / Corrective Action Form						
Comments / Remarks		yes (no) Rad Ok (Yes) / No				

0011

Last Page of Data Report