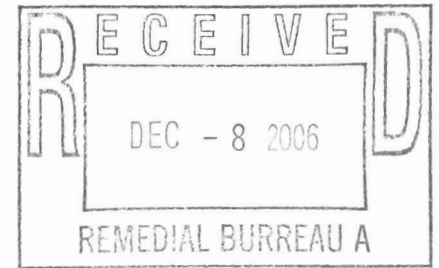




O'BRIEN & GERE



December 4, 2006

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-
August-September 2006**
1 Adams Boulevard
Farmingdale, New York
NYSDEC Site 1-52-140

File: 10653/35518 #5

Dear Mr. Dyber:

This letter provides an overview of the ongoing operation of the soil vapor extraction (SVE) system at the National Heatset Printing Site in Farmingdale, New York (Figure 1). A site visit was performed by YEC, Inc. (YEC) personnel on September 21, 2006 on behalf of O'Brien & Gere Engineers, Inc (OBG) in accordance with our approved Work Plan.

System Operation

Based on the run time meter, the system was operational for a total of 1085 hours during this reporting period (August 7, 2006 to September 21, 2006). However, during a site visit on August 30, 2006, OBG personnel observed that the system blower was not operating, but that the run-time meter continued to operate. The elapsed time the blower was not in operation is not known. The blower was reset and restarted, and operated for the remainder of the site visit. To be on the conservative side, discharge data for this report have been calculated assuming the blower was operational for 100% of the reporting period. The system operational data is summarized in Table 1 and on the site visit data collection form provided in Appendix A.

A flow of 124.5 cfm and a vacuum of 53 inches of water column were observed at the extraction well. The SVE blower operated at a flow of 227 cubic feet per minute (cfm) as measured at the SVE influent. Field personnel recorded a tetrachloroethene (PCE) concentration of 4.0 ppm (by Draeger tube) and a concentration of volatile organic compounds (VOCs) of 8.9 ppm (by PID) from the extraction well (pre-dilution).

VOC concentrations of 7.7 ppm (by PID) and a PCE concentration of 9.0 ppm (by Draeger Tube) were observed at the SVE influent port during the site visit. VOC concentrations of 9.7 ppm (by PID) and a PCE concentration of 7.0 ppm (by Draeger Tube) were observed from the Vapor-phase Granular Activated Carbon (VGAC) mid sampling port, and a VOC concentration of 2.1 ppm (by PID) and a PCE concentration of 0.0 ppm (by Draeger Tube) were observed from the effluent sampling port. Refer to Table 1.

Monitoring Probes

A vacuum of 2.6, 0.75, 0.35, 0.55, 0.50, 0.20, 0.25, 0.11, 0.05, 0.02 and 0.00 inches of water column were observed during the site visit at vapor monitoring points VP-1, VP-2, VP-3, VP-7, VP-8, VP-9, VP-11, VP-12, VP-13, VP-14, and VP-15, respectively. Monitoring point VP-10 was covered by boxes in Eagle Box Company and was inaccessible. The vapor points will continue to be monitored during future site visits.

PCE Removal

PCE removal was calculated for this reporting period using SVE influent PCE concentrations and flow rate measured at the SVE influent sampling point. The SVE system removed approximately 27 pounds of PCE from the extraction well during this reporting period and has removed approximately 2,494 pounds of PCE to date. A summary of the estimated PCE mass removal over time is presented in Table 2.

Air Discharge Monitoring

YEC personnel collected an air sample from the system effluent and submitted the sample to Mitkem Corporation for analysis. The sample was analyzed for volatile organic compounds (VOCs) using USEPA method TO-14. PCE was detected at a value of 2.0 mg/m³. TCE was detected at an estimated value of 0.8 mg/m³, and Cis-1,2-DCE was detected at an estimated value of 0.4 mg/m³. Analytical results are summarized in Table 3 and the laboratory data report is presented in Appendix B. A summary of the field monitoring and laboratory air discharge monitoring results is presented as Table 4.

Based on the effluent sampling results, 1.64 lb of PCE, 0.66 lb of TCE and 0.33 lb Cis-1,2-DCE was discharged during the reporting period. A total of 3.42 lb of PCE has been discharged during the year 2006 toward the permitted annual discharge limit of 270 lb. A total of 0.71 lb of cis-1, 2-DCE has been discharged during the year 2006 toward the permitted annual discharge limit of 5,510 lbs. A total of 0.66 lb of TCE has been discharged during the year 2006 toward the permitted annual discharge limit of 120 lb.

Conclusions and Recommendations

Based on the data collected from the SVE system during this reporting period, OBG recommends continued operation of the SVE system. The extraction well (MW-F) valve remained at the 100% open position, and the dilution valve remained at the 50% open position during this site visit. Because VOCs were present at the effluent port, the granular activated carbon (GAC) was replaced on October 11, 2006.

Mr. Jeff Dyber, P.E.
December 5, 2006
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Please do not hesitate to contact me at 315-437-6100 with any questions you might have regarding this report.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

A handwritten signature in black ink that reads "Marc J. Dent". The signature is written in a cursive, flowing style.

Marc J. Dent P.E.
Managing Engineer

cc. Trevor Staniec – O'Brien & Gere
Dan Simpson - YEC

I:\DIV71\Projects\10653\35518\5_rpts\SVE Monthly reports-OBG\OM Report_Aug-Sept-06.doc
Attachments

TABLES

TABLE 1
SUMMARY OF SOIL 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 MWV-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	Available	Actual	(%)	(%)	(% Open)	(% Open)	(%)	(%)	(scfm)	(inches H2O)	(inches H2O)	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)	Flow (cfm)	Temp. (°F)	PID (ppm)	PCE (ppm)		
12/8/2005	2918	647	647	647	100	100	50	50	50	79	29	29	235	--	113.5	7.2	2.0	2.0	212	79.8	6.8	2.0	212	79.8	0.1	0.0	265	77.5	5.8	0.0		
1/6/2006	3614	696	696	696	100	100	50	50	75	120	42	42	245	--	82	32.5	4.0	4.0	280	83.9	19.0	2.0	280	83.9	0.1	0.0	265	77.5	5.8	0.0		
Spent Carbon Replaced 1/25/06																																
2/6/2006	4332	718	718	718	97	97	75	75	75	80	25	25	292	--	78	3.6	2.0	2.0	333	90.9	0.0	0.0	333	90.9	0.0	0.0	322	77	0.0	0.0		
3/14/2006	5200	868	868	868	100	100	75	75	75	188	49	49	212	--	132.8	5.5	5.0	5.0	287	135.6	0.0	0.0	287	135.6	0.0	0.0	232	115.1	0.0	0.0		
4/12/2006	5895	695	695	695	100%	100%	75	75	75	115	47	47	259	--	152.1	6.1	6.0	6.0	249	153.2	0.0	0.0	249	153.2	0.0	0.0	271	135.1	0.0	0.0		
5/4/2006	6420	525	525	525	100%	100%	50	50	75	189	51	51	199	--	145.2	7.8	5.0	5.0	186	136.1	0.1	0.0	186	136.1	0.0	0.0	214	117.8	0.0	0.0		
6/12/2006	7354	934	934	934	100%	100%	50	50	100	156	53	53	216	--	141	7.9	9.0	9.0	270	134	4.1	3.0	253	116	0.0	0.0	253	116	0.0	0.0		
7/12/2006	8074	720	720	720	100%	100%	50	50	100	163	54	54	191	--	146	8.3	8.0	8.0	210	145	8.8	10.0	196	134	0.0	0.0	196	134	0.0	0.0		
8/7/2006	8696	622	622	622	100%	100%	50	50	100	136	54	54	201	--	148.7	8.7	7.5	7.5	239	135.6	2.0	0.0	210	118.3	0.0	0.0	210	118.3	0.0	0.0		
9/21/2006	9781	1085	1085	1085	100%	100%	50	50	100	124.5	53	53	227	--	127	7.7	9.0	9.0	143	106.9	9.7	7.0	203	99.2	2.1	0.0	203	99.2	2.1	0.0		

Notes:
 (1) Calculated flows based on the average of flows measured on 3-29-05 and 4-28-05
 (2) Run time meter reading not indicative of SVE system run time; actual hours run is assumed 100% of available.
 PID = Total VOC concentration measured with photoionization detector
 ppm = parts per million (volume/volume basis)
 PCE = Tetrachloroethene (PCE) concentration measured with Dräger tube of 10-500 ppm range
 scfm = standard cubic feet per minute
 cfm = cubic feet per minute
 -- = measurement not recorded or not applicable.
 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
 As of 4/28/05, the calculation of "Available" run time hours is based on 24 hours, rather than 24.5 hours as previously calculated.

**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) ⁽²⁾	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	2000 ⁽¹⁾	500 ⁽¹⁾	25.0	34.5	12	126	126
10/14/2002	1,011	400	39.6	38	14	127	253
11/19/2002	0	0	--	49	36	113	367
12/16/2002	560	200	35.7	36.5	27	69	436
1/13/2003	485	400	82.5	28.5	28	154	589
1/21/2003	0	0	--	0	8	63	652
2/10/2003	639	400	62.6	38	20	64	715
3/5/2003	263	200	76.0	24.4	23	129	844
3/18/2003	125	100	80.0	92	13	76	920
4/29/2003	152	50	32.9	75	42	105	1,025
5/13/2003	127	50	39.4	78	14	65	1,090
6/30/2003	82.4	50	60.7	115	48	89	1,179
7/22/2003	406	400	98.5	99.5	12	187	1,367
8/26/2003	137	10	7.3	79	35	276	1,643
9/23/2003	141	15	10.6	218	14	14	1,657
10/21/2003	37.5	20	53.3	166	28	41	1,698
11/24/2003	141	125	88.7	130	34	179	1,877
1/6/2004	118	100	84.7	98.5	43	--	1,877
2/9/2004	23.1	10	43.3	121	34	91	1,968
3/30/2004	22	10	45.5	103	50	22	1,990
4/29/2004	2.4	0	0.0	131	30	8	1,999
5/24/2004	43.8	50	114.2	144	25	49	2,047
6/22/2004	57	10	17.5	127	29	54	2,102
7/28/2004	53.2	7	13.2	142	36	21	2,122
8/12/2004	48	0	0	157	15	8	2,130
9/29/2004	27.7	0	--	139	48	0	2,130
10/20/2004	19.1	10	--	140	21	14	2,144
11/17/2004	17.9	10	55.9	160	28	16	2,160
12/22/2004	15.8	5	31.6	143	35	9	2,169
1/20/2005	--	--	--	--	--	--	--
2/23/2005	174	50	28.7	87.5	34	--	--
Date	VOC Influent Concentration (ppmv)	PCE Influent Concentration (ppmv)	% PCE of Total VOCs	SVE Influent Flow Rate (cfm) ⁽²⁾	Elapsed Time Since Last Visit (day)	PCE Removal Since Last Visit (lb)	Cumulative PCE Removal (lb)
3/29/2005	6.4	4.5	70.3	158	34	11	2,180
4/28/2005	8.9	5	56.2	227	30	10	2,190
5/31/2005	10.4	10	96.2	208	33	18	2,208
6/24/2005	8.3	7	84.3	266	24	16	2,224
8/4/2005	8.8	12	136.4	353	41	39	2,263

Notes:

⁽¹⁾ = 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.

⁽²⁾ SVE Influent (post-dilution) monitoring point data used for calculation of PCE Removal for dates including and subsequent to March 29, 2005; Removal updated on 1-3-06 to represent SVE Influent flow rate.

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

⁽³⁾ Run time meter reading not indicative of SVE system run time; actual hours run is assumed equal to elapsed time.

Where: MW = molecular weight
Molecular weight (MW) of PCE is 165.85
C = degrees centigrade, as measured
flow = average of the present and the previous months measured SVE influent rate in cubic feet per minute (cfm)
lb = pounds
ppmv = parts per million (volume/volume basis)
-- = information not available

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)
5/24/2004	ND (1)	ND (1)	ND (1)
6/22/2004	ND (1)	ND (1)	ND (1)
7/28/2004	ND (5)	ND (5)	ND (5)
8/12/2004	--	--	--
9/29/2004	ND (1)	ND (1)	ND (1)
10/20/2004	ND (1)	ND (1)	ND (1)
11/17/2004	ND (1)	ND (1)	ND (1)
12/22/2004	ND (1)	ND (1)	ND (1)
1/20/2005	--	--	--
3/29/2005	2	ND (1)	ND (1)
4/28/2005	1	0.5J	ND (1)
5/31/2005	1	5	2
6/24/2005	0.8J	64	2
8/4/2005	0.7J	57	1J
<i>Spent Carbon Replaced 8/10/05</i>			
9/13/2005	ND (1)	ND (1)	ND (1)
10/10/2005	ND (1)	ND (1)	ND (1)
11/11/2005	ND (1)	ND (1)	ND (1)
12/8/2005	ND (1)	ND (1)	ND (1)
1/6/2006	ND (1)	ND (1)	ND (1)
<i>Spent Carbon Replaced 1/25/06</i>			
2/6/2006	ND (1)	1	ND (1)

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

-- = sample not collected

SVE = Soil vapor extraction

J = Estimated Value

VGAC = vapor-phase granular activated carbon

mg/m3 = milligrams per cubic meter

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

Date	Field Monitoring		Laboratory Results			Discharge based on Field Monitoring					Discharge based on Laboratory Results				
	System Effluent Flow Rate (cfm)	PCE System Effluent Concentration (ppmv)	System Effluent VOC Concentration (ppmv)	Elapsed Time (day)	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	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	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	0.0654	31.40	0.008	0.006	3.71	2.78	0.00	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)	0.0000	0.00	0.005	1.54	0.00	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)	--	--	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8/26/2003	232	10	35.6	35	29.0	3.6	0.0588	49.42	0.025	21.17	0.003	2.63	0.00	0.00	0.00
9/23/2003	210	0	0	28	ND (5)	ND (5)	0.0000	0.00	0.000	0.00	0.000	0.00	0.00	0.00	0.00
10/21/2003	225	0	0	28	ND (5)	ND (5)	0.0000	0.00	0.000	0.00	0.000	0.00	0.00	0.00	0.00
11/24/2003	205	0	0	34	--	--	0.0000	0.00	--	--	--	--	--	--	--
2003 Totals:								431.38			26.42	5.41			0.00
1/6/2004	200	0	0	43	--	--	0.0000	0.00	--	--	--	--	--	--	--
2/9/2004	235	0	0	34	ND (5)	ND (5)	10	0.000	0.000	0.000	0.00	0.00	0.009	0.00	7.18
3/30/2004	160	5	24	50	77	1J	0.0203	24.34	0.046	55.38	0.001	0.72	0.001	1.44	1.44
4/29/2004	255	0	0	30	10	ND (5)	0.0000	0.00	0.010	6.88	0.001	0.69	0.002	1.38	1.38
5/24/2004	198	0	0	25	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00
6/22/2004	210	0	0	29	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00
7/28/2004	181	0	3.1	36	ND (5)	ND (5)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00
8/12/2004	187	0	0.1	15	--	--	0.0000	0.00	--	--	--	--	--	--	--
9/29/2004	205	--	0	48	ND (1)	ND (1)	--	--	0.000	0.00	0.000	0.00	0.000	0.00	0.00
10/20/2004	230	0	0	21	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00
11/17/2004	173	0	0	28	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00
12/22/2004	131	0	0	35	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.00
2004 Totals:								24.34			62.26	1.41			10.00

Notes:
 -- = Measurement not recorded
 Discharge Rate (Field Mon., 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 Rate (Lab Res., lb) = Discharge Rate (lb/hr) * # of days*24hours/day*60 minutes/hr
 Discharge Rate (Lab Res., lb) = flow (cfm)*effluent conc. (mg/cu. m.)*1g/1000mg*1lb/453.6g*1cu. m./35.31cu. ft*60min/1 hr
 Discharge Rate (Lab Res., lb) = Discharge Rate (lb/hr) * # of days*24hours/day
 Where:
 C = degrees centigrade, assumed to be 25
 J = Estimated Value
 hr = hours
 Molecular weight (MW) of PCE=165.85; TCE=131.4; cis-1,2-DCE=96.94
 ppmv = cubic feet per minute
 lb = pounds
 mg/cu. m = milligrams per cubic meter
 lb = pounds

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

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

Date	Field Monitoring			Laboratory Results			Discharge based on Field Monitoring						Discharge based on Laboratory Results					
	System Effluent Flow Rate (cfm)	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)	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)		
1/20/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
2/23/2005	245	0	0	--	--	--	0.0000	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.00		
3/29/2005	234 ⁽¹⁾	0	0	ND(1)	ND(1)	2	0.0000	0.00	0.00	0.0000	0.00	0.0000	0.00	0.0000	0.002	1.43		
4/28/2005	222	0	0	0.5	ND(1)	1	0.0000	0.00	0.00	0.0004	0.30	0.0000	0.00	0.0000	0.001	0.60		
5/31/2005	223	0	0	5	2	1	0.0000	0.00	0.00	0.0042	3.31	0.0017	1.32	0.0001	0.001	0.66		
6/24/2005	242	10.1	15	64	2	0.8J	0.0620	35.70	0.0580	33.42	1.04	0.0018	1.04	0.0001	0.001	0.42		
8/4/2005	381	12	7.5	57	1J	0.7J	0.1159	114.09	0.0814	80.05	1.40	0.0014	1.40	0.0001	0.001	0.98		
Spent Carbon Replaced 8/10/05																		
9/13/2005	248	0	0	ND(1)	ND(1)	ND(1)	0.0000	0.00	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00		
10/10/2005	211	0	0	ND(1)	ND(1)	ND(1)	0.0000	0.00	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00		
11/11/2005	239	0	0	ND(1)	ND(1)	ND(1)	0.0000	0.00	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00		
12/8/2005	212	0	0.1	ND(1)	ND(1)	ND(1)	0.0000	0.00	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00		
2005 Totals:								149.79		117.08			3.77		4.09			
1/6/2006	265	0	5.8	ND(1)	ND(1)	ND(1)	0.0000	0.00	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00		
Spent Carbon Replaced 1/25/06																		
2/6/2006	322	0	0	1	ND(1)	ND(1)	0.0000	0.00	0.0012	0.87	0.0000	0.0000	0.00	0.0000	0.0000	0.00		
3/14/2006	232	0	0	ND(1)	ND(1)	ND(1)	0.0000	0.00	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00		
4/12/2006	271	0	0	0.6J	ND(1)	ND(1)	0.0000	0.00	0.0006	0.42	0.0000	0.0000	0.00	0.0000	0.0000	0.00		
5/4/2006	214	0	0	ND(1)	ND(1)	ND(1)	0.0000	0.00	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00		
6/12/2006	253	0	0	ND(1)	ND(1)	ND(1)	0.0000	0.00	0.0000	0.00	0.0000	0.0000	0.00	0.0000	0.0000	0.00		
7/12/2006	196	0	0	ND(1)	ND(1)	0.6J	0.0000	0.00	0.0000	0.00	0.0000	0.0000	0.00	0.0001	0.001	0.38		
8/7/2006	210	0	0	1	ND(1)	ND(1)	0.0000	0.00	0.0008	0.49	0.0000	0.0000	0.00	0.0000	0.0000	0.00		
9/21/2006	203	0	2.1	2	0.8 J	0.4 J	0.0000	0.00	0.0015	1.64	0.0006	0.0006	0.66	0.0003	0.0003	0.33		
2006 Totals:								0.00		3.42			0.66		0.71			

Notes:
 -- = Measurement not recorded
 Discharge Rate (Field Mon., lb/hr) = [(flow/cfm)*inflow 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 Rate (Lab Res., lb/hr) = flow (cfm)*effluent conc. (mg/cu. m.)*1g/1000mg*1lb/453.6g*1cu. m./35.31cu. ft*60min/1 hr
 Discharge (Lab Res., lb) = Discharge Rate (lb/hr) * # of days*24hours/day
 Where:
 C = degrees centigrade, assumed to be 25
 J = Estimated Value
 hr = hours
 Molecular weight (MW) of PCE=165.85; TCE=131.4; cis-1,2-DCE=96.94
 cfm = cubic feet per minute
 mg/cu. m = milligrams per cubic meter
 lb = pounds
 ppmv = parts per million (vol./vol.)
 lb/yr = lb/yr

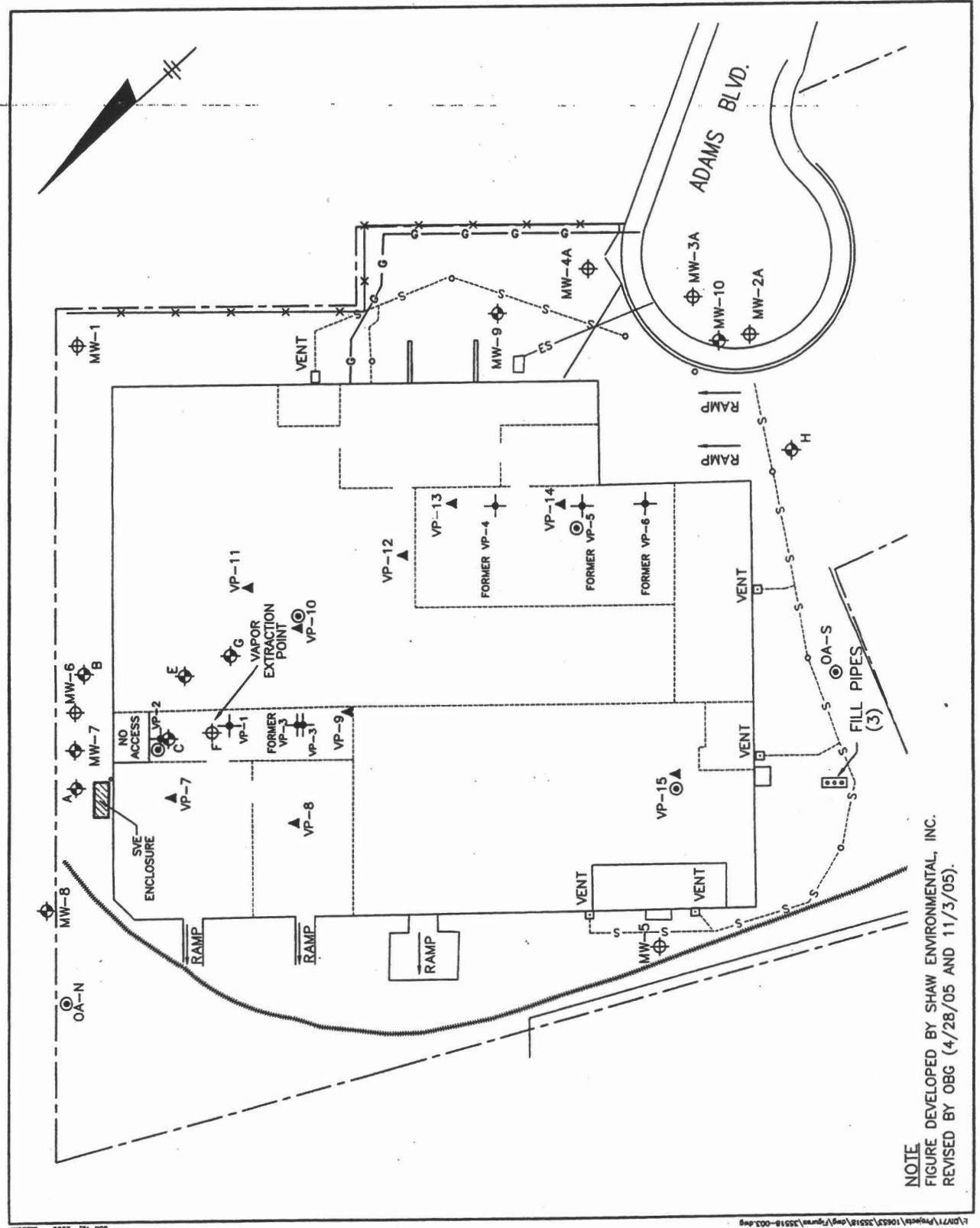
FIGURES

FIGURE 1

- LEGEND**
- +—+— TRAIN TRACK
 - ⊙ AIR SAMPLING POINT (LOCATIONS APPROXIMATE AS SHOWN)
 - ▲ SAMPLING/ VAPOR MONITORING POINT
 - ⊕ VAPOR MONITORING POINT
 - ⊕ DEEP MONITORING WELL (>30')
 - ⊕ SHALLOW MONITORING WELL (<30')
 - MANHOLE OR ACCESS POINT
 - *—*— FENCE LINE
 - ES— ELECTRIC LINE
 - G— GAS LINE
 - S— SANITARY SEWER
 - — — PROPERTY LINE
 - INTERIOR BUILDING WALL (DIVIDES WAREHOUSE)

NATIONAL HEATSET PRINTING
FARMINGDALE, NEW YORK

SUBSLAB INVESTIGATION
LOCATIONS



NOTE
FIGURE DEVELOPED BY SHAW ENVIRONMENTAL, INC.
REVISED BY OBG (4/28/05 AND 11/3/05).

FILE NO. 10653.35518.003
NOVEMBER 2005



APPENDIX A
SITE VISIT DOCUMENTATION

National Heatset Printing
 1 Adams Boulevard, Farmingdale, New York
 O'Brien & Gere Eng. - Job # 35518.005

Personnel: Dan Simpson Time: 1530
 Weather: Sunny 73° Date: 9/21/2006

System Status:

Arrival: 1530
 Departure: 1648
 Run Timer Reading: 0978062
 Electric Meter Reading: 05644

System Data:

Extraction Well F Gate Valve: 100 % Open
 Dilution Valve: 50 % Open

Pre-Bleed Air (Extraction Well):

Flow: 124.5 CFM
 Vacuum: 53 "H2O
 PID Reading: 8.9 PPM
 Draeger Tube: 4 PPM
 Temperature: 74 °F

Post-Bleed Air (SVE Influent):

Flow: 227 CFM
 Vacuum: -- "H2O
 PID Reading: 7.7 PPM
 Draeger Tube: 9 PPM
 Temperature: 127 °F

Carbon Monitoring:

Mid: 9.7 PPM 143 CFM 106.9 Temp. (°F) 7.0 PPM (Drager)
 Effluent: 2.1 PPM 203 CFM 99.2 Temp. (°F) 0.0 PPM (Drager)

Carbon effluent sample collected & shipped to Yes

Knockout Tank Drained? No
 # Gallons: N/A
 Purge water drums on-site: 0

Monitoring Well Gauging / Vapor Point Monitoring:

Well/V.P. ID:	MW-C	MW-E	MW-G	VP-1	VP-2	VP-3	VP-7	VP-8	VP-9	VP-10	VP-11	VP-12	VP-13	VP-14	VP-15
DTW (ft):	15.30	15.50	15.3	--	--	--	--	--	--	--	--	--	--	--	--
Vac. (" H2O):	--	--	--	2.6	0.75	0.35	0.55	0.50	0.20	N/A	0.25	0.11	0.05	0.02	0.0
PID (PPM):	--	--	--	--	--	--	0.0	0.4	0.0	N/A	0.0	0.0	0.0	0.0	0.0

Comments:

* VP-10 covered by cardboard in Eagle Box Co.

APPENDIX B
LABORATORY REPORT OF ANALYSES



"Environmental Testing For The New Millennium"

October 31, 2006

O'Brien & Gere
5000 Brittonfield Parkway
Syracuse, NY 13221-4873
Attn: Mr. Marc Dent


RE: Client Project: NYSDEC – National Heatset
Lab Project #: E1459

Dear Mr. Dent:

Enclosed please find the data report of the required analyses for the samples 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



Report of Laboratory Analyses for O'Brien & Gere

Client Project: National Heatset, 09/21/06

Mitkem Work Order ID: E1459

October 31, 2006

Prepared For: O'Brien & Gere
5000 Brittonfield Parkway
P. O. Box 4873
Syracuse, NY 13221-4873
Attn: Mr. Marc Dent

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



Client: O'Brien & Gere

Client Project: National Heatset, 09/21/06

Lab Project: E1459

Date samples received: 09/25/06

Project Narrative

This data report includes the analysis results for one (1) air sample in a Tedlar bag that was received from O'Brien & Gere on September 21, 2006. 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 cursive script, appearing to read "Agnes Ng".

Agnes Ng
CLP Project Manager

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SVE-EFFLUENT

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: ME1459

Matrix: (soil/water) AIR

Lab Sample ID: E1459-01A

Sample wt/vol: 25 (g/mL) ML

Lab File ID: V6E6335

Level: (low/med) LOW

Date Received: 09/25/06

% Moisture: not dec. _____

Date Analyzed: 09/28/06

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	1	U
74-87-3-----	Chloromethane	1	U
75-01-4-----	Vinyl Chloride	1	U
74-83-9-----	Bromomethane	1	U
75-00-3-----	Chloroethane	1	U
75-69-4-----	Trichlorofluoromethane	1	U
75-35-4-----	1,1-Dichloroethene	1	U
67-64-1-----	Acetone	1	U
74-88-4-----	Iodomethane	1	U
75-15-0-----	Carbon Disulfide	1	U
75-09-2-----	Methylene Chloride	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
1634-04-4-----	Methyl tert-butyl ether	1	U
75-34-3-----	1,1-Dichloroethane	1	U
108-05-4-----	Vinyl acetate	1	U
78-93-3-----	2-Butanone	1	U
156-59-2-----	cis-1,2-Dichloroethene	0.4	J
590-20-7-----	2,2-Dichloropropane	1	U
74-97-5-----	Bromochloromethane	1	U
67-66-3-----	Chloroform	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
563-58-6-----	1,1-Dichloropropene	1	U
56-23-5-----	Carbon Tetrachloride	1	U
107-06-2-----	1,2-Dichloroethane	1	U
71-43-2-----	Benzene	1	U
79-01-6-----	Trichloroethene	0.8	J
78-87-5-----	1,2-Dichloropropane	1	U
74-95-3-----	Dibromomethane	1	U
75-27-4-----	Bromodichloromethane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
108-10-1-----	4-Methyl-2-pentanone	1	U
108-88-3-----	Toluene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SVE-EFFLUENT

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: ME1459

Matrix: (soil/water) AIR

Lab Sample ID: E1459-01A

Sample wt/vol: 25 (g/mL) ML

Lab File ID: V6E6335

Level: (low/med) LOW

Date Received: 09/25/06

% Moisture: not dec. _____

Date Analyzed: 09/28/06

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6BLCS

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: ME1459

Matrix: (soil/water) AIR

Lab Sample ID: LCS-26159

Sample wt/vol: 25 (g/mL) ML

Lab File ID: V6E6333

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 09/28/06

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	9	
74-87-3	Chloromethane	8	
75-01-4	Vinyl Chloride	10	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	11	
75-35-4	1,1-Dichloroethene	9	
67-64-1	Acetone	11	
74-88-4	Iodomethane	9	
75-15-0	Carbon Disulfide	10	
75-09-2	Methylene Chloride	10	
156-60-5	trans-1,2-Dichloroethene	9	
1634-04-4	Methyl tert-butyl ether	10	
75-34-3	1,1-Dichloroethane	9	
108-05-4	Vinyl acetate	9	
78-93-3	2-Butanone	11	
156-59-2	cis-1,2-Dichloroethene	10	
590-20-7	2,2-Dichloropropane	9	
74-97-5	Bromochloromethane	10	
67-66-3	Chloroform	10	
71-55-6	1,1,1-Trichloroethane	9	
563-58-6	1,1-Dichloropropene	10	
56-23-5	Carbon Tetrachloride	10	
107-06-2	1,2-Dichloroethane	10	
71-43-2	Benzene	10	
79-01-6	Trichloroethene	9	
78-87-5	1,2-Dichloropropane	10	
74-95-3	Dibromomethane	10	
75-27-4	Bromodichloromethane	10	
10061-01-5	cis-1,3-Dichloropropene	9	
108-10-1	4-Methyl-2-pentanone	10	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	9	
79-00-5	1,1,2-Trichloroethane	10	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6BLCS

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM Case No.:

SAS No.:

SDG No.: ME1459

Matrix: (soil/water) AIR

Lab Sample ID: LCS-26159

Sample wt/vol: 25 (g/mL) ML

Lab File ID: V6E6333

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 09/28/06

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	10	
127-18-4-----	Tetrachloroethene	9	
591-78-6-----	2-Hexanone	10	
124-48-1-----	Dibromochloromethane	9	
106-93-4-----	1,2-Dibromoethane	10	
108-90-7-----	Chlorobenzene	9	
630-20-6-----	1,1,1,2-Tetrachloroethane	10	
100-41-4-----	Ethylbenzene	10	
-----	m,p-Xylene	19	
95-47-6-----	o-Xylene	10	
1330-20-7-----	Xylene (Total)	29	
100-42-5-----	Styrene	10	
75-25-2-----	Bromoform	10	
98-82-8-----	Isopropylbenzene	9	
79-34-5-----	1,1,2,2-Tetrachloroethane	10	
108-86-1-----	Bromobenzene	9	
96-18-4-----	1,2,3-Trichloropropane	9	
103-65-1-----	n-Propylbenzene	9	
95-49-8-----	2-Chlorotoluene	10	
108-67-8-----	1,3,5-Trimethylbenzene	9	
106-43-4-----	4-Chlorotoluene	9	
98-06-6-----	tert-Butylbenzene	9	
95-63-6-----	1,2,4-Trimethylbenzene	9	
135-98-8-----	sec-Butylbenzene	9	
99-87-6-----	4-Isopropyltoluene	9	
541-73-1-----	1,3-Dichlorobenzene	9	
106-46-7-----	1,4-Dichlorobenzene	9	
104-51-8-----	n-Butylbenzene	9	
95-50-1-----	1,2-Dichlorobenzene	10	
96-12-8-----	1,2-Dibromo-3-chloropropane	9	
120-82-1-----	1,2,4-Trichlorobenzene	9	
87-68-3-----	Hexachlorobutadiene	8	
91-20-3-----	Naphthalene	9	
87-61-6-----	1,2,3-Trichlorobenzene	8	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK6B

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: ME1459

Matrix: (soil/water) AIR

Lab Sample ID: MB-26159

Sample wt/vol: 25 (g/mL) ML

Lab File ID: V6E6332

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 09/28/06

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK6B

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: ME1459

Matrix: (soil/water) AIR

Lab Sample ID: MB-26159

Sample wt/vol: 25 (g/mL) ML

Lab File ID: V6E6332

Level: (low/med) LOW

Date Received: _____

% Moisture: not dec. _____

Date Analyzed: 09/28/06

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

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM Case No.:

SAS No.:

SDG No.: ME1459

Matrix Spike - Sample No.: V6BLCS

COMPOUND	SPIKE ADDED (mg/m3)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (mg/m3)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	10		9	90	48-135
Chloromethane	10		8	80	60-118
Vinyl Chloride	10		10	100	65-113
Bromomethane	10		10	100	73-122
Chloroethane	10		10	100	72-118
Trichlorofluoromethane	10		11	110	68-129
1,1-Dichloroethene	10		9	90	67-121
Acetone	10		11	110	38-161
Iodomethane	10		9	90	72-130
Carbon Disulfide	10		10	100	53-137
Methylene Chloride	10		10	100	59-132
trans-1,2-Dichloroethen	10		9	90	71-124
Methyl tert-butyl ether	10		10	100	75-123
1,1-Dichloroethane	10		9	90	83-116
Vinyl acetate	10		9	90	44-160
2-Butanone	10		11	110	64-139
cis-1,2-Dichloroethene	10		10	100	83-120
2,2-Dichloropropane	10		9	90	70-129
Bromochloromethane	10		10	100	85-124
Chloroform	10		10	100	89-118
1,1,1-Trichloroethane	10		9	90	81-122
1,1-Dichloropropene	10		10	100	76-122
Carbon Tetrachloride	10		10	100	79-125
1,2-Dichloroethane	10		10	100	83-123
Benzene	10		10	100	81-120
Trichloroethene	10		9	90	77-121
1,2-Dichloropropane	10		10	100	81-116
Dibromomethane	10		10	100	86-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM Case No.:

SAS No.:

SDG No.: ME1459

Matrix Spike - Sample No.: V6BLCS

COMPOUND	SPIKE ADDED (mg/m3)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (mg/m3)	LCS % REC #	QC. LIMITS REC.
Bromodichloromethane	10		10	100	90-114
cis-1,3-Dichloropropene	10		9	90	78-119
4-Methyl-2-pentanone	10		10	100	57-138
Toluene	10		10	100	81-121
trans-1,3-Dichloroprope	10		9	90	85-118
1,1,2-Trichloroethane	10		10	100	44-159
1,3-Dichloropropane	10		10	100	79-125
Tetrachloroethene	10		9	90	73-121
2-Hexanone	10		10	100	53-145
Dibromochloromethane	10		9	90	80-124
1,2-Dibromoethane	10		10	100	80-124
Chlorobenzene	10		9	90	82-118
1,1,1,2-Tetrachloroetha	10		10	100	84-121
Ethylbenzene	10		10	100	80-122
m,p-Xylene	20		19	95	80-121
o-Xylene	10		10	100	81-121
Xylene (Total)	30		29	97	81-121
Styrene	10		10	100	77-128
Bromoform	10		10	100	77-130
Isopropylbenzene	10		9	90	58-148
1,1,2,2-Tetrachloroetha	10		10	100	76-125
Bromobenzene	10		9	90	76-124
1,2,3-Trichloropropane	10		9	90	57-140
n-Propylbenzene	10		9	90	72-119
2-Chlorotoluene	10		10	100	75-120
1,3,5-Trimethylbenzene	10		9	90	76-116
4-Chlorotoluene	10		9	90	78-116
tert-Butylbenzene	10		9	90	71-115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: ME1459

Matrix Spike - Sample No.: V6BLCS

COMPOUND	SPIKE ADDED (mg/m3)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (mg/m3)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trimethylbenzene	10		9	90	77-117
sec-Butylbenzene	10		9	90	67-117
4-Isopropyltoluene	10		9	90	68-118
1,3-Dichlorobenzene	10		9	90	80-116
1,4-Dichlorobenzene	10		9	90	80-114
n-Butylbenzene	10		9	90	58-121
1,2-Dichlorobenzene	10		10	100	81-116
1,2-Dibromo-3-chloropro	10		9	90	71-126
1,2,4-Trichlorobenzene	10		9	90	67-114
Hexachlorobutadiene	10		8	80	50-111
Naphthalene	10		9	90	58-133
1,2,3-Trichlorobenzene	10		8	80	64-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 68 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK6B

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM Case No.:

SAS No.:

SDG No.: ME1459

Lab File ID: V6E6332

Lab Sample ID: MB-26159

Date Analyzed: 09/28/06

Time Analyzed: 1001

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

Heated Purge: (Y/N) N

Instrument ID: V6

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	V6BLCS	LCS-26159	V6E6333	1034
02	SVE-EFFLUENT	E1459-01A	V6E6335	1220
03				
04				
05				
06				
07				
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COMMENTS:

Client ID: OBG

Project: National Heatset

Location:

Comments: Level 2 for air samples

Case:

SDG:

PO: HEATSET

Report Level: ASP-B

EDD: CLF

HC Due: 10/16/06

Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
E1459-01A	SVE-EFFLUENT	09/21/2006 17:00	09/25/2006	Air	TO14		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VOA





175 Metro Center Boulevard
 Warwick, Rhode Island 02886-1755
 (401) 732-3400 • Fax (401) 732-3499
 email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO				INVOICE TO				
COMPANY	PHONE	COMPANY	PHONE	LAB PROJECT #:	PHONE	LAB PROJECT #:	TURNAROUND TIME:	
O'Brien + Gere							STD	
NAME	FAX	NAME	FAX	ADDRESS	CITY/ST/ZIP	ADDRESS	CITY/ST/ZIP	
Marc Dent								
ADDRESS	CITY/ST/ZIP	ADDRESS	CITY/ST/ZIP	CLIENT PROJECT #:	CLIENT PO. #:	REQUESTED ANALYSES	COMMENTS	
5000 Brittonfield PKWY						HI-OK		
E. Syracuse, NY								
SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS
SVE - Effluent	9/21/06 1700		X			AV		1
	/							
	/							
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	/							
RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:			
David Sjiz	9/22/06 1400	Ken Pa	9/25/06 8:15		Ambient			
	/		/					
	/		/					

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION

Sample Condition Form

Page ___ of ___

Received By: <u>RL</u>	Reviewed By: <u>KRP</u>	Date: <u>9-25-06</u>	MITKEM Workorder #: <u>E1459</u>			
Client Project: <u>NAT. HEATSET</u>		Client: <u>086</u>			Soil Headspace or Air Bubbles ≥ 1/4"	
		Preservation (pH)				
	Lab Sample ID	HNO ₃	H ₂ SO ₄	HCl	NaOH	VOA Matrix
1) Cooler Sealed <input checked="" type="checkbox"/> Yes / No	<u>E1459 01</u>					<u>A</u>
2) Custody Seal(s) <input checked="" type="checkbox"/> Present / Absent <input checked="" type="checkbox"/> Coolers / Bottles <input checked="" type="checkbox"/> Intact / Broken						
3) Custody Seal Number(s) <u>NA</u>						
4) Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent						
5) Cooler Temperature <u>AMB</u> Coolant Condition						
6) Airbill(s) <input checked="" type="checkbox"/> Present / Absent Airbill Number(s) <u>FED EX</u> <u>857164476433</u>						
7) Sample Bottles <input checked="" type="checkbox"/> Intact / Broken / Leaking						
8) Date Received <u>9-25-06</u>						
9) Time Received <u>8:15</u>						
Preservative Name/Lot No:						

VOA Matrix Key:

US = Unpreserved Soil	A = Air
UA = Unpreserved Aqu.	H = HCl
M = MeOH	E = Encore
N = NaHSO ₄	F = Freeze

See Sample Condition Notification/Corrective Action Form yes / no

Rad OK yes/ no

01 _____ 201 _____

Last Page of Data Report