EARTH TECH | AECOM

Operation, Maintenance and Monitoring Report
Third Quarter, 2008

Fort Edward Landfill
Site 5-58-001

Work Assignment No.
D004445-19

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

Earth Tech AECOM
40 British American Blvd., Latham, NY 12110
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November 26, 2008

Mr. Payson Long
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7013

Subject: **Fort Edward Landfill**
NYSDEC Site #5-58-001
Work Assignment D004445-19
Quarterly O&M Report: Third Quarter - 2008

Dear Mr. Long:

On June 19 2007, Earth Tech Northeast (Earth Tech) assumed responsibility for the operation and maintenance (O&M) of the groundwater remedial system at the subject site, under New York State Department of Environmental Conservation (NYSDEC) work assignment (WA) D004445-19. This letter constitutes the fifth quarterly report regarding operations, maintenance and discharge water quality at the facility. The report describes activities during the months of July, August and September of 2008.

The remedial system has been operating without any problems, although not at full capacity, as of the most recent system inspection on November 24th. Only one of three extraction wells (W-1) is online. The remaining extraction wells will be brought online once treatment-system controls upgrades, proposed by Aztech Technologies and forwarded to you via email on November 10, are approved by the NYSDEC and implemented.

Sampling Results

Earth Tech conducted monthly sampling of influent and effluent water on July 21, August 18 and September 15, 2008. The samples were submitted to Mitkem Laboratories in Warwick, RI for analysis. Effluent samples were analyzed by EPA Method OLM 4.3 for volatile organic compounds (VOCs), SW 8082 (modified) for polychlorinated biphenyls (PCBs), ILM 4.1 (+ mercury) for metals, SM2540 for total dissolved solids (TDS) and total suspended solids (TSS), and SM5530 for phenolics. PCB analysis of system effluent is performed on a once-per-quarter basis (the August sample this quarter), as required in the Effluent Limitations and Monitoring Requirements (ELMR). Influent samples were analyzed for metals and VOCs only. Analytical results for all Earth Tech sampling events are summarized on the attached tables. The laboratory analytical reports for the current quarter are also attached.

The aggregate concentrations of reported VOCs in the *influent* samples this quarter were very low; the highest concentration (97 ug/L) was reported for the August sample. In the 14 monthly influent samples Earth Tech has collected, the highest total VOC concentration was 1,849 ug/L; the lowest were the three

samples in which no VOCs were detected. The variability of reported VOCs may be related to the relative proportions of collection-trench groundwater and extraction-well groundwater in the single force-main entering the treatment plant. The extraction well is subject to drawdown and recovery periods, resulting in intermittent contributions to the influent stream. No flow meters exist on the treatment system, so inflows from the collection trench cannot be compared to inflows from the extraction well. Moreover, samples cannot be drawn from individual influent streams for chemical analysis.

Concentrations of iron in the three influent samples collected this quarter ranged from 26,600 to 40,100 ug/L, while effluent concentrations ranged from 1,200 to 11,500 ug/L, demonstrating iron reductions of 71 to 95 percent.

The *effluent* samples met all limitations for VOCs, TSS, phenolics, pH and PCBs. Exceedances were reported for iron in all three samples; for lead in two; and for TDS and copper in one. Because of high water levels in the feeder canal, effluent samples for July and August were collected from the inflow pipe to the effluent collection pond. Note that the iron levels in these two "effluent" samples were much greater than the iron level in the true effluent sample collected in September. Please refer to the attached table for summarized analytical results and ELMR concentrations.

System Maintenance

The following is an activity summary for the system inspection and maintenance visits performed during the reporting period.

July 7 - Backflushed the four holding tank discharge pumps (P-201 through P-204). Inspected *phragmites* cells for "runners." Trimmed weeds around extraction wells, treatment plant, and cells 2 and 3.

July 17 – Disassembled and cleaned the four holding tank discharge pumps as well as pipes and valves between the pumps and the holding tank. All four pumps now have properly sized impellers.

July 21 – Collected monthly influent and effluent samples. Backflushed the four holding tank discharge pumps. Cleared paths to sample collection points at feeder canal and effluent collection pond. Collected effluent sample at head of collection pond; effluent sampling port at feeder canal was under seasonal high water.

August 4 - Backflushed the four holding tank discharge pumps. Washed building floor. Checked treatment cells for "runners."

August 11 – Received call from Payson Long indicating there was a likely overflow of the holding tank. Sent Dan Tagliento (IEG) to the site to turn off the pump in the collection trench sump, while extraction well W-1 was shut off remotely. Noted that apparent electrical storms in the area had reset the VFDs on the four pumps to only 20% of capacity. This was the likely cause of the overflow. Accordingly, VFDs

were remotely reset to the proper drive (100%).

August 12 – Dharma Iyer (IEG), Gerald Pratt and Payson Long (NYSDEC) were onsite today. Backflushed the four holding tank discharge pumps. At NYSDEC request, Earth Tech installed used mechanical flow meters at three of the pumps. Later, from office, remotely started pump in extraction well.

August 18 - Backflushed the four holding tank discharge pumps. Replaced the pressure gauge on each pump. Collected influent and effluent samples (the latter was collected at the head of the effluent collection pond).

September 3 - Backflushed the four holding tank discharge pumps.

September 4 – Disassembled discharge pumps; cleaned impellers and check-valves. Installed new stainless-steel impellers in P-203 and P-204.

September 8 – Onsite to investigate reason for high water in collection trench sump. Discovered that temporary sump pump had sufficient discharge only when it was not connected to the forcemain. Biological fouling of the two-inch forcemain is the likely cause of the high sump water levels.

September 15 – Collected monthly samples. Flushed holding tank discharge pumps. Removed the plugged flow meters that had been installed on August 12. Set them aside. Checked treatment cells for "runners."

September 26 - Flushed holding tank discharge pumps. Repaired a leak on PVC pipe connected to one of the pumps.

Earth Tech appreciates the opportunity to perform this work for the NYSDEC. If you have any questions about this report, please call me at (518) 951-2262, or contact me by email at stephen.choiniere@earthtech.com.

Very truly yours,
Earth Tech Northeast, Inc.

Stephen R. Choiniere
Project Manager

FORT EDWARD LANDFILL
SITE #: 5-58-001
MONTHLY PERFORMANCE MONITORING
INFLUENT RESULTS

Analyte	Units	INFLUENT - 2007 & 2008													
		8/30/07	9/20/07	10/24/07	11/19/07	12/17/07	1/21/08	2/18/08	3/20/08	4/24/08	5/13/08	6/23/08	7/21/08	8/18/08	9/15/08
Vinyl Chloride	ug/L	210 D	43	170			510 D		67	180	780 D	180 D		65	42
1,1-Dichloroethene	"						4 J				6.9 J				
trans-1,2-Dichloroethene	"			3 J			7 J			3.1 J	11				
cis-1,2-Dichloroethene	"	190	85	310 D			690 D		140	270 D	1,000 D	240 D	5.9 J	32	18
Benzene	"			6 J			15		3.8 J	3.7 J	23	3.4 J			
Toluene	"			7 J			12								
Chlorobenzene	"			4 J			10		2.7 J	2.9 J	15	3.0 J			
Ethylbenzene	"						3 J				3.1 J				
Xylene (total)	"			11			27		5.1 J	4.9 J	3.9 J	4.9 J			
Isopropylbenzene	"						4 J				5.7 J				
Arsenic	"		5.1 B	105					8.1 B			4.6 B	4.0 B	5.3 B	4.0 B
Barium	"	110 B	107 B	286	47.2 B	62.0 B	263	62.5 B	134 B	89.8 B	270	91.9 B	83.2 B	68.2 B	65.5 B
Cadmium	"			0.61 B		0.23 B		0.53 B				0.24 B			
Chromium	"						1.2 B	2.3 B	0.22 B			0.45 B	0.17 B		0.25 B
Cobalt	"	7.8 B	7.6 B	11.3 B	5.5 B	4.8 B	8.0 B	3.9 B	5.1 B	6.3 B	8.4 B	4.3 B	3.2 B	4.2 B	4.1 B
Copper	"		1.2 B	26.6	4.5 B	1.0 B		0.60 B	4.4 B	2.5 B	3.3 B	3.2 B			3.0 B
Iron	"	39,800	40,500	187,000	15,800	18,200	44,200	21,300	46,300	32,700	27,600	38,100	39,800	40,100	26,600
Lead	"		3.5	8.6		1.8 B	1.6 B			1.6 B		2.0 B		2.0 B	
Mercury	"				0.062 B		0.086 B				0.084 B				
Nickel	"	4.9 B	7.3 B	11.4 B	4.4 B	5.6 B	17.5 B	5.2 B	6.8 B	6.6 B	23.5 B	5.1 B	2.8 B	1.9 B	4.0 B
Vanadium	"	0.81 B	1.8 B	14.0 B	1.6 B	1.2 B	4.7 B	0.96 B		1.0 B	1.8 B				1.1 B
Zinc	"	3.5 B	1.0 B	7.6 B	6.7 B	2.2 B	0.74 B	6.5 B	6.2 B	4.5 B	8.5 B	12.0 B	9.9 B	11.3 B	15.2 B

NOTES:

Data are shown only for detected VOCs, and for metals subject to effluent limitations. **Blank cell** = below RL for that sampling event

Analysis by EPA Method OLM 4.3 for volatile organics, and ILM 4.1 (+ mercury) for metals.

D - Analysis performed on diluted sample.

J - Estimated concentration.

B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.

FORT EDWARD LANDFILL
SITE #: 5-58-001
MONTHLY PERFORMANCE MONITORING
EFFLUENT RESULTS

Analyte	Units	EFFLUENT-2007 & 2008														
		8/30/07	9/20/07	10/24/07	11/19/07	12/17/07	1/21/08	2/18/08	3/20/08	4/24/08	5/13/08	6/23/08	7/21/08	8/18/08	9/15/08	Discharge Limit
Vinyl Chloride	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	50
Chloroethane	"	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	20
Methylene Chloride	"	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	50
1,1-Dichloroethane	"	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	30
1,2-Dichloroethene (Total)	"	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	30
Chloroform	"	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	150
Bromodichloromethane	"	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	30
Benzene	"	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10
Toluene	"	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10
Chlorobenzene	"	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10
Ethylbenzene	"	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10
Xylenes, Total	"	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10
Phenols, Total Phenolics	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	Monitor
PCB, Aroclor 1016	ug/L	<0.050	NA	NA	<0.050	NA	NA	<0.050	NA	NA	<0.050	NA	NA	<0.050	NA	0.065
PCB, Aroclor 1221	"	<0.050	NA	NA	<0.050	NA	NA	<0.050	NA	NA	<0.050	NA	NA	<0.050	NA	0.065
PCB, Aroclor 1242	"	<0.050	NA	NA	<0.050	NA	NA	<0.050	NA	NA	<0.050	NA	NA	<0.050	NA	0.065
pH	SU	NA	NA	NA	7.1	NA	7.5	7	7.4	7	NA	6.9	7.2	6.7	6.9	6.0-9.0
Arsenic, Total	ug/L	<4.6	<4.6	15.5	<2.9	<2.9	<2.8	<2.8	<2.8	<2.8	<3.3	<2.5	7.9 B	6.8 B	<2.5	150
Barium, Total	"	88.1 B	59.2 B	141 B	45.2 B	60.6 B	33.5 B	44.7 B	38.4 B	29.0 B	40.1	27.7 B	86.2 B	78.7 B	39.3 B	Monitor
Cadmium, Total	"	<0.10	<0.10	<0.20	<0.20	<0.20	<0.16	<0.16	<0.16	<0.16	<0.08	<0.13	<0.13	<0.050	<0.22	1
Chromium, Total	"	0.38 B	<0.20	0.68 B	<0.30	<0.30	<0.15	0.70 B	2.9 B	0.23 B	<0.44	0.79 B	1.1 B	0.86 B	0.67 B	210
Cobalt, Total	"	6.7 B	4.0 B	3.7 B	2.0 B	1.6 B	0.73 B	0.97 B	1.4 B	1.6 B	1.3 B	0.65 B	1.2 B	2.5 B	2.9 B	5
Copper, Total	"	5.0 B	6.0 B	11.7 B	4.9 B	7.3 B	7.3 B	3.6 B	10.0 B	4.4 B	16.7 B	5.3 B	24.9 B	5.2 B	10 B	24
Iron, Total	"	20,100	9,460	35,600	2,080	569	123	2,160	2,500	270	1,450	586	11,500	9,420	1,200	300
Lead, Total	"	1.3 B	4.0	9.4	<1.1	1.2 B	<1.4	<1.4	1.8 B	1.9 B	1.6 B	1.8 B	6.9	3.5	<2.0	3.2
Mercury, Total	"	<0.010	<0.010	<0.010	0.075 B	<0.020	0.088 B	<0.040	<0.040	<0.040	0.092 B	<0.06	<0.060	<0.040	<0.040	0.8
Nickel, Total	"	6.0 B	6.0 B	7.7 B	4.2 B	6.0 B	3.3 B	3.4 B	3.2 B	3.2 B	2.7 B	3.4 B	3.2 B	3.7 B	4.6 B	9.6 or 96
Vanadium, Total	"	4.1 B	1.5 B	7.6 B	2.7 B	1.6 B	<0.43	1.4 B	3.3 B	<0.43	0.52 B	0.85 B	2.9 B	<4.4	1.3 B	14
Zinc, Total	"	29.0	12.3 B	39.8 E	20 B	23.7	7.9 B	8.6 B	16.2 B	11.5 B	27.7	22.2	45.6	25.9	20.4	170
Total Dissolved Solids	mg/L	620	600	520	370	430	320	220	170	310	380	360	410	370	860	500
Total Suspended Solids	"	100	46	78	<10	<10	<10	<10	<10	<10	<10	<10	<10	18	<10	50

NOTES:
August, September, October 2007 & May, July, August 2008 effluent samples were collected prior to treatment in polishing pond.
Data are shown for all analytes for which monitoring requirements have been established. Detected concentrations are shown in **bold font**.
Concentrations exceeding discharge limitations are shown in **bold font** in a shaded cell.
Analysis by EPA Method OLM 4.3 for volatile organics, SW 8082 (modified) for PCBs, ILM 4.1 (+ mercury) for metals, SM2540 for TDS & TSS, and SM5530 for phenolics.
J & E - Each indicates an estimated concentration. **NA** - Not analyzed.
B - Indicates a "trace" concentration below the reporting limit, and equal to or above the detection limit for the metal.

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

August 8, 2008

Earth Tech
40 British American Boulevard
Latham, NY 12110
Attn: Mr. Stephen Choiniere

RE: Client Project: Fort Edward Landfill, reference number: 99163.02
Lab Project #: G1171

Dear Mr. Choiniere:

Enclosed please find the data report for the analyses of samples associated with the above referenced project. Please discard the old data package.

If you have any questions, please do not hesitate to call me.

We appreciate your business.

Sincerely,

Shirley S. Ng
Project Manager

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

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : Fort Edward Landfill

SDG : G1171

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
FELF-EFF	G1171-01	OLM4.2_VOA_W			ILM4.1_HG_W	SEE DATA
FELF-EFF	G1171-01				ILM4.1_ICP_W	
FELF-INF	G1171-02	OLM4.2_VOA_W			ILM4.1_HG_W	
FELF-INF	G1171-02				ILM4.1_ICP_W	
TRIP BLANK	G1171-03	OLM4.2_VOA_W				

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : Fort Edward Landfill **SDG :** G1171

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
OLM4.2_VOA_W					
G1171-01A	AQ	7/21/2008	7/22/2008	NA	7/26/2008
G1171-02A	AQ	7/21/2008	7/22/2008	NA	7/26/2008
G1171-03A	AQ	7/21/2008	7/22/2008	NA	7/26/2008

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : Fort Edward Landfill **SDG :** G1171

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
OLM4.2_VOA_W					
G1171-01A	AQ	OLM4.2_VOA_W	NA	LOW	1
G1171-02A	AQ	OLM4.2_VOA_W	NA	LOW	1
G1171-03A	AQ	OLM4.2_VOA_W	NA	LOW	1

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary ME

Project Name : Fort Edward Landfill **SDG :** G1171

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
ILM4.1_HG_W				
G1171-01C	AQ	ILM4.1_HG_W	7/22/2008	7/31/2008
G1171-01CDUP	AQ	ILM4.1_HG_W	7/22/2008	7/31/2008
G1171-01CMS	AQ	ILM4.1_HG_W	7/22/2008	7/31/2008
G1171-02B	AQ	ILM4.1_HG_W	7/22/2008	7/31/2008
ILM4.1_ICP_W				
G1171-01C	AQ	ILM4.1_ICP_W	7/22/2008	7/31/2008
G1171-02B	AQ	ILM4.1_ICP_W	7/22/2008	7/31/2008
G1171-02BDUP	AQ	ILM4.1_ICP_W	7/22/2008	7/31/2008
G1171-02BMS	AQ	ILM4.1_ICP_W	7/22/2008	7/31/2008

Analytical Data Package for Earth Tech

Client Project: Fort Edward Landfill

SDG# MG1171

Mitkem Work Order ID: G1171

August 8, 2008

Prepared For:

Earth Tech
40 British American Boulevard
Latham, NY 12110
Attn: Mr. Stephen Choiniere

Prepared By:

Mitkem Laboratories
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

SDG Narrative

Mitkem Laboratories submits the enclosed data package in response to Earth Tech's Fort Edward Landfill project. Under this deliverable, analysis results are presented for three aqueous samples that were received on July 22, 2008. Analyses were performed per specifications in the project's contract and the chain of custody form. Following the narrative is the Mitkem Work Order for cross-referencing client sample ID and laboratory sample ID.

The analyses were performed according to NYSDEC ASP protocols (2000 update) and reported per NYSDEC ASP requirement for Category A deliverable with the exception of wet chemistry analysis. Wet chemistry analysis results are reported using standard Mitkem laboratory report format.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.
- M6 software did not integrate peak
- M7 partial peak integration

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. OLM 4.3 Volatile Analysis:

Trap used for instrument V2: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve.

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

Samples were preserved with hydrochloric acid with pH<2.

Surrogate recovery: recoveries were within the QC limits.

Lab control sample: spike recoveries were within the QC limits.

Sample analysis: no unusual observation was made for the analysis.

3. ILM 4.1 Metals Analysis:

All elements were analyzed using either a Perkin Elmer Model 3100XL Optima or a Perkin Elmer Model 4300DV ICAP.

Samples were preserved with nitric acid with pH<2.

Lab control sample: spike recoveries were within the QC limits.

Matrix spike analysis: matrix spikes were performed on sample FELF-EFF for mercury analysis and on sample FELF-INF by ICP method. Spike recoveries were within the QC limits. The matrix spike percent recoveries for iron and manganese in sample FELF-INF could not be accurately determined, as the sample concentration was significantly greater than the spike concentration. When the sample concentration is more than four times the spike concentration, it tends to obscure the relatively smaller spike amount; control limits do not apply in this circumstance.

Duplicate analysis: sample duplicates were performed on sample FELF-EFF for mercury analysis and on sample FELF-INF by ICP method. Percent RPD was within the QC limits.

Sample analysis: serial dilution was performed on sample FELF-INF. Percent differences were within the QC limits. No unusual observations were made during sample analysis.

4. Wet Chemistry Analysis:

Lab control sample: spike recoveries were within the QC limits for phenol, total dissolved solids and total suspended solids analysis.

Duplicate analysis: duplicate analyses were performed on sample FELF-EFF for phenol, total dissolved solids and total suspended solids analysis. Percent recoveries were within the QC limits.

Matrix spike analysis: matrix spike was performed on sample FELF-EFF for phenol analysis. Spike recovery was within the QC limits.

Sample analysis: no unusual observation was made to the 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".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Shirley Ng
Project Manager
08/08/08

Sample Transmittal Documentation

Mitkem Laboratories

08/Aug/08 15:19

WorkOrder: G1171

Client ID: EARTH_NY
Project: Fort Edward Landfill
Location:
Comments: under contract D004445-18-19-20-21-MIT-01

Case:
SDG:
PO: 99163.04

Report Level: ASP-A
EDD:
HC Due: 08/12/08
Fax Due: 08/05/08

Sample ID	HS Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
G1171-01A	FELF-EFF	07/21/2008 10:15	07/22/2008	Aqueous	OLM4.2_VOA_W	NYS ADD LCS	☐	☐	☐	VOA
G1171-01B	FELF-EFF	07/21/2008 10:15	07/22/2008	Aqueous	SM5530_W		☐	☐	☐	C2
G1171-01C	FELF-EFF	07/21/2008 10:15	07/22/2008	Aqueous	ILM4.1_HG_W	ILM	☐	☐	☐	M2
					ILM4.1_ICP_W	ILM	☐	☐	☑	M2
G1171-01D	FELF-EFF	07/21/2008 10:15	07/22/2008	Aqueous	SM2540_TDS		☐	☐	☐	C2
					SM2540_TSS		☐	☐	☐	C2
G1171-02A	FELF-INF	07/21/2008 10:00	07/22/2008	Aqueous	OLM4.2_VOA_W	NYS ADD LCS	☐	☐	☐	VOA
G1171-02B	FELF-INF	07/21/2008 10:00	07/22/2008	Aqueous	ILM4.1_HG_W	ILM	☐	☐	☐	M2
					ILM4.1_ICP_W	ILM	☐	☐	☑	M2
G1171-03A	TRIP BLANK	07/21/2008 0:00	07/22/2008	Aqueous	OLM4.2_VOA_W	NYS ADD LCS	☐	☐	☐	VOA

Client Rep: Shirley S Ng

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- ☐ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: ________
- · All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- · Samples disposed of after 60 days unless otherwise instructed.

Report To: Earth Tech
40 British American Blvd.
Latham NY 12110

Project Mgr.: Stephen Choiniere

Invoice To: Same

P.O. No.: ________ RQN: ________

Project No.: 99163.02
Site Name: Ft. Edward LF
Location: Fort Edward State: NY
Sampler(s): SRG

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=________ 10=________

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

G=Grab C=Composite

Lab Id: G0171	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		OLM4.2VOA	Phenols	ILM4.1	TDS/TSS				
01	FELF-EFF	7/21/08	10:15	G	GW	2,3,4	2	1		2		X	X	X	X				
02	FELF-INF	7/21/08	10:00	G	GW	2,4	2			1		X		X					
03	Tripblank	6/12/08	—				2					X							

QA Reporting Notes: (check if needed)

- ☐ Provide MA DEP MCP CAM Report
- ☐ Provide CT DEP RCP Report

QA/QC Reporting Level
☐ Standard ☐ No QC
☐ Other ________

State specific reporting standards: ________

☐ Fax results when available to (____) ________
☐ E-mail to ________
EDD Format ________

Condition upon receipt: ☒ Iced ☐ Ambient ☒ °C 4

Relinquished by:	Received by:	Date:	Time:
Steve Gray		7/21/08	13:30
	[signature]	7/22/08	8:41

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

MITKEM LABORATORIES

Sample Condition Form

Received By: CAW | Reviewed By: SN | Date: 7/22/08 | MITKEM Workorder #: G1171

Client Project: Ft Edward LF | Client: EArth Tech

Lab Sample ID	Preservation (pH) HNO_3	Preservation (pH) H_2SO_4	Preservation (pH) HCl	Preservation (pH) NaOH	VOA Matrix	Soil Headspace or Air Bubbles ≥ 1/4"
G1171 01	<2	<2			H	
G1171 02	<2				H	
G1171 03					H	

1) Cooler Sealed (Yes) / No

2) Custody Seal(s) (Present) / Absent

(Coolers) / Bottles

(Intact) / Broken

3) Custody Seal Number(s) NA

4) Chain-of-Custody (Present) / Absent

5) Cooler Temperature 4 C

Coolant Condition Ice

6) Airbill(s) (Present) / Absent

Airbill Number(s) fedex

8655392396?

7) Sample Bottles Intact/Broken/Leaking

8) Date Received 7/22/08

9) Time Received 8:41

Preservative Name/Lot No:

CAW 7/22/08 1:52

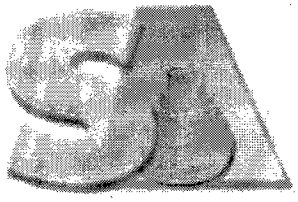
VOA Matrix Key:

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

MITKEM LABORATORIES



* Volatiles *

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FELF-EFF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1171-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5401.D

Level: (TRACE/LOW/MED) LOW Date Received: 07/22/2008

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

EPA OLM

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FELF-EFF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1171-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5401.D

Level: (TRACE/LOW/MED) LOW Date Received: 07/22/2008

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

FELF-EFF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1171-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5401.D

Level: (TRACE or LOW/MED) LOW Date Received: 07/22/2008

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FELF-INF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1171-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5402.D

Level: (TRACE/LOW/MED) LOW Date Received: 07/22/2008

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	5.9	J
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

EPA OLM

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FELF-INF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1171-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5402.D

Level: (TRACE/LOW/MED) LOW Date Received: 07/22/2008

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

FELF-INF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1171-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5402.D

Level: (TRACE or LOW/MED) LOW Date Received: 07/22/2008

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1171-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5403.D

Level: (TRACE/LOW/MED) LOW Date Received: 07/22/2008

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

EPA OLM

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1171-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5403.D

Level: (TRACE/LOW/MED) LOW Date Received: 07/22/2008

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1171-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5403.D

Level: (TRACE or LOW/MED) LOW Date Received: 07/22/2008

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V2GLCS

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-37845

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5399.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	43	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	46	
107-06-2	1,2-Dichloroethane	10	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

EPA OLM

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V2GLCS

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-37845

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5399.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	46	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	44	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	45	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Level: (TRACE or LOW) LOW

	CLIENT SAMPLE NO.	VDMC1 (TOL) #	VDMC2 (BFB) #	VDMC3 (DCE) #					TOT OUT
01	VBLK2G	97	101	98					0
02	V2GLCS	105	110	108					0
03	FELF-EFF	107	113	112					0
04	FELF-INF	103	109	106					0
05	TRIP BLANK	106	108	103					0
06	VHBLKG2	110	111	108					0

		QC LIMITS
VDMC1	(TOL) = Toluene-d8	(88-110)
VDMC2	(BFB) = Bromofluorobenzene	(86-115)
VDMC3	(DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

EPA OLM

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
V2GLCS

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Lab Sample ID: LCS-37845 LCS Lot No.:

Date Extracted: 07/26/2008 Date Analyzed (1): 07/26/2008

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,1-Dichloroethene	50.0000	0.0000	42.5431	85		61 - 145
Benzene	50.0000	0.0000	45.7844	92		76 - 127
Trichloroethene	50.0000	0.0000	45.6152	91		71 - 120
Toluene	50.0000	0.0000	44.3675	89		76 - 125
Chlorobenzene	50.0000	0.0000	44.7644	90		75 - 130

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

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLK2G

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Lab File ID: V2K5398.D Lab Sample ID: MB-37845

Instrument ID: V2

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 07/26/2008

Level: (TRACE or LOW/MED) LOW Time Analyzed: 14:02

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V2GLCS	LCS-37845	V2K5399.D	14:44
02	FELF-EFF	G1171-01A	V2K5401.D	15:56
03	FELF-INF	G1171-02A	V2K5402.D	16:24
04	TRIP BLANK	G1171-03A	V2K5403.D	16:53
05	VHBLKG2	VHBLKG2	V2K5405.D	17:50

COMMENTS:

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLK2G

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-37845

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5398.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

EPA OLM

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLK2G

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-37845

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5398.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK2G

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-37845

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5398.D

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLKG2

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VHBLKG2

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5405.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

EPA OLM

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLKG2

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VHBLKG2

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5405.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VHBLKG2

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VHBLKG2

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V2K5405.D

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 07/26/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1171

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 07/26/2008 07/26/2008

EPA Sample No.(VSTD#####): VSTD050G2 Date Analyzed: 07/26/2008

Lab File ID (Standard): V2K5393.D Time Analyzed: 10:56

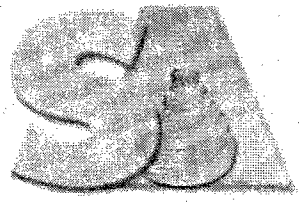
Instrument ID: V2 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	342591		5.396		1780898		6.506		1432445		10.086	
	UPPER LIMIT	685182		5.896		3561796		7.006		2864890		10.586	
	LOWER LIMIT	171296		4.896		890449		6.006		716223		9.586	
	SAMPLE NO.												
01	VBLK2G	346405		5.396		1778000		6.517		1404743		10.087	
02	V2GLCS	322554		5.398		1648497		6.518		1349483		10.088	
03	FELF-EFF	317365		5.395		1640597		6.515		1335926		10.096	
04	FELF-INF	323845		5.398		1677659		6.508		1350268		10.088	
05	TRIP BLANK	314516		5.398		1561814		6.507		1258976		10.088	
06	VHBLKG2	323378		5.398		1656793		6.508		1329741		10.088	

IS1 () = Bromochloromethane
IS2 () = 1,4-Difluorobenzene
IS3 () = Chlorobenzene-d5
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

MITKEM
LABORATORIES



* Metals *

U.S.EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1171

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID
FELF-EFF	G1171-01
FELF-EFFD	G1171-01DUP
FELF-EFFS	G1171-01MS
FELF-INF	G1171-02
FELF-INFD	G1171-02DUP
FELF-INFS	G1171-02MS

Were ICP interelement corrections applied?	Yes/No	YES
Were background corrections applied?	Yes/No	YES
If yes-were raw data generated before application of background corrections?	Yes/No	NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Dawne E. Smart Name: Dawne E. Smart

Date: 3/28/03 Title:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

FELF-EFF

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1171

Matrix (soil/water): WATER Lab Sample ID: G1171-01

Level (low/med): MED Date Received: 07/22/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	61.6	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	7.9	B		P
7440-39-3	Barium	86.2	B		P
7440-41-7	Beryllium	0.050	B		P
7440-43-9	Cadmium	0.13	U		P
7440-70-2	Calcium	101000			P
7440-47-3	Chromium	1.1	B		P
7440-48-4	Cobalt	1.2	B		P
7440-50-8	Copper	24.9	B		P
7439-89-6	Iron	11500			P
7439-92-1	Lead	6.9			P
7439-95-4	Magnesium	14700			P
7439-96-5	Manganese	1270			P
7439-97-6	Mercury	0.060	U		CV
7440-02-0	Nickel	3.2	B		P
7440-09-7	Potassium	5260			P
7782-49-2	Selenium	3.2	U		P
7440-22-4	Silver	1.8	B		P
7440-23-5	Sodium	18900			P
7440-28-0	Thallium	2.3	U		P
7440-62-2	Vanadium	2.9	B		P
7440-66-6	Zinc	45.6			P

Color Before YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

FELF-INF

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1171

Matrix (soil/water): WATER Lab Sample ID: G1171-02

Level (low/med): MED Date Received: 07/22/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.8	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	4.0	B		P
7440-39-3	Barium	83.2	B		P
7440-41-7	Beryllium	0.034	B		P
7440-43-9	Cadmium	0.13	U		P
7440-70-2	Calcium	100000			P
7440-47-3	Chromium	0.17	B		P
7440-48-4	Cobalt	3.2	B		P
7440-50-8	Copper	0.67	U		P
7439-89-6	Iron	39800			P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	26200			P
7439-96-5	Manganese	2760			P
7439-97-6	Mercury	0.060	U		CV
7440-02-0	Nickel	2.8	B		P
7440-09-7	Potassium	4760	B		P
7782-49-2	Selenium	3.2	U		P
7440-22-4	Silver	0.45	U		P
7440-23-5	Sodium	44700			P
7440-28-0	Thallium	2.3	U		P
7440-62-2	Vanadium	0.50	U		P
7440-66-6	Zinc	9.9	B		P

Color Before COLORLESS Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1171

Preparation Blank Matrix (soil/water): WATER Method Blank ID: **MB-37919**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

FIMS1_080731B

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Mercury	0.060	U	0.060	U	0.060	U			-0.062	B	

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1171

Preparation Blank Matrix (soil/water): WATER Method Blank ID: **MB-37921**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA2_080731A

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Selenium	3.2	U	3.2	U	3.2	U	3.2	U	3.180	U	

3

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1171

Preparation Blank Matrix (soil/water): WATER Method Blank ID: **MB-37921**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA3_080730C

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Potassium	45.1	B	63.0	B	47.1	B			40.646	B	
Sodium	43.5	B	29.0	B	23.7	B			18.870	U	

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1171

Preparation Blank Matrix (soil/water): WATER Method Blank ID: **MB-37921**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA3_080730D

	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
Analyte		C	1	C	2	C	3	C		C	M
Aluminum	7.6	U	7.6	U	7.6	U	7.6	U	13.928	B	
Antimony	2.0	U	2.0	U	2.0	U	2.0	U	1.990	U	
Arsenic	2.5	U	2.5	U	2.5	U	2.5	U	-2.492	B	
Barium	1.2	B	0.7	B	0.8	B	0.8	B	0.844	B	
Beryllium	0.0	U	0.0	U	0.0	U	0.0	U	0.030	U	
Cadmium	0.1	U	0.2	B	0.1	U	0.1	U	0.130	U	
Calcium	73.0	U	73.0	U	73.0	U	73.0	U	86.666	B	
Chromium	0.2	U	0.2	U	0.2	U	0.2	U	0.160	U	
Cobalt	0.3	B	0.2	B	0.3	B	0.3	B	0.210	U	
Copper	0.7	B	0.9	B	0.7	U	0.7	U	1.458	B	
Iron	0.7	U	4.3	B	1.9	B	4.9	B	9.773	B	
Lead	2.3	B	1.3	U	1.4	B	1.4	B	1.280	U	
Magnesium	7.3	B	10.8	B	6.5	B	13.3	B	20.851	B	
Manganese	1.1	U	1.1	U	1.1	U	1.1	U	1.070	U	
Nickel	0.4	U	0.3	U	0.3	U	0.3	U	0.350	U	
Silver	1.0	B	0.5	U	0.5	U	0.5	U	1.418	B	
Thallium	2.3	U	3.1	B	3.6	B	2.3	U	2.330	U	
Vanadium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	
Zinc	0.5	B	0.2	U	0.4	B	0.4	B	3.230	B	

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

FELF-EFFS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1171

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75-125	0.9361		0.0600	U	1.00	93.6		CV

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

FELF-INFS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1171

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2108.0179		12.7624	B	2000.00	104.8		P
Antimony	75-125	105.7839		1.9900	U	100.00	105.8		P
Arsenic	75-125	48.4804		4.0202	B	40.00	111.2		P
Barium	75-125	2316.3571		83.1819	B	2000.00	111.7		P
Beryllium	75-125	54.4142		0.0339	B	50.00	108.8		P
Cadmium	75-125	4.9814	B	0.1300	U	5.00	99.6		P
Chromium	75-125	217.3462		0.1748	B	200.00	108.6		P
Cobalt	75-125	541.5049		3.2083	B	500.00	107.7		P
Copper	75-125	271.5703		0.6700	U	250.00	108.6		P
Iron		41110.5190		39793.7650		1000.00	131.7		P
Lead	75-125	23.5795		1.2800	U	20.00	117.9		P
Manganese		3299.5182		2759.5426		500.00	108.0		P
Nickel	75-125	542.9954		2.7855	B	500.00	108.0		P
Selenium	75-125	12.2123		3.1800	U	10.00	122.1		P
Silver	75-125	52.7457		0.4500	U	50.00	105.5		P
Thallium	75-125	54.9669		2.3300	U	50.00	109.9		P
Vanadium	75-125	536.9081		0.5000	U	500.00	107.4		P
Zinc	75-125	545.5583		9.8906	B	500.00	107.1		P

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

FELF-EFFD

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1171

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury		0.0600	U	0.0600	U			CV

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

FELF-INFD

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1171

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		12.7624	B	11.4231	B	11.1		P
Antimony		1.9900	U	1.9900	U			P
Arsenic		4.0202	B	5.4290	B	29.8		P
Barium		83.1819	B	84.8256	B	2		P
Beryllium		0.0339	B	0.0300	U	200		P
Cadmium		0.1300	U	0.1300	U			P
Calcium		100257.9528		101416.4745		1.1		P
Chromium		0.1748	B	0.1630	B	7		P
Cobalt		3.2083	B	3.1857	B	0.7		P
Copper		0.6700	U	0.6700	U			P
Iron		39793.7650		39514.9551		0.7		P
Lead		1.2800	U	2.3214	B	200		P
Magnesium		26234.0316		26032.6235		0.8		P
Manganese		2759.5426		2716.9577		1.6		P
Nickel		2.7855	B	2.4767	B	11.7		P
Potassium		4759.7944	B	4798.8039	B	0.8		P
Selenium		3.1800	U	3.1800	U			P
Silver		0.4500	U	0.4500	U			P
Sodium		44666.9942		45127.0842		1		P
Thallium		2.3300	U	2.6472	B	200		P
Vanadium		0.5000	U	0.5000	U			P
Zinc		9.8906	B	9.3569	B	5.5		P

7

LABORATORY CONTROL SAMPLE

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1171

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCS-37921**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	9100.0	9149.35	100.5						
Antimony	455.0	507.93	111.6						
Arsenic	455.0	488.27	107.3						
Barium	9100.0	9912.57	108.9						
Beryllium	227.0	240.39	105.9						
Cadmium	227.0	241.35	106.3						
Calcium	22700.0	22842.56	100.6						
Chromium	910.0	959.55	105.4						
Cobalt	2270.0	2407.48	106.1						
Copper	1130.0	1166.22	103.2						
Iron	4550.0	4750.67	104.4						
Lead	455.0	490.07	107.7						
Magnesium	22700.0	23873.02	105.2						
Manganese	2270.0	2429.32	107.0						
Nickel	2270.0	2420.20	106.6						
Potassium	22700.0	23664.71	104.2						
Selenium	455.0	487.60	107.2						
Silver	1130.0	1157.74	102.5						
Sodium	22700.0	23849.50	105.1						
Thallium	455.0	475.87	104.6						
Vanadium	2270.0	2351.67	103.6						
Zinc	2270.0	2428.10	107.0						

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

FELF-INF

Lab Name: Mitkem Laboratories Contract: 99163.04

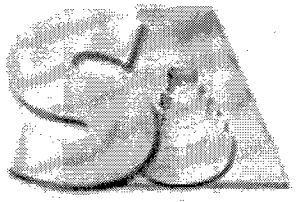
Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1171

Matrix (soil/water): WATER Level (low/med): MED

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	12.76	B	38.00	U	100		P
Antimony	1.99	U	9.95	U			P
Arsenic	4.02	B	12.40	U	100		P
Barium	83.18	B	91.18		10		P
Beryllium	0.03	B	0.15	U			P
Cadmium	0.13	U	0.65	U			P
Calcium	100257.95		98801.13		2		P
Chromium	0.17	B	0.80	U	100		P
Cobalt	3.21	B	3.36		5		P
Copper	0.67	U	3.35	U			P
Iron	39793.76		42336.20		6		P
Lead	1.28	U	6.40	U			P
Magnesium	26234.03		27803.14		6		P
Manganese	2759.54		2908.87		5		P
Nickel	2.79	B	1.82		35		P
Potassium	4759.79	B	4937.05		4		P
Selenium	3.18	U	15.90	U			P
Silver	0.45	U	2.25	U			P
Sodium	44666.99		45490.42		2		P
Thallium	2.33	U	11.65	U			P
Vanadium	0.50	U	2.50	U			P
Zinc	9.89	B	22.87		131		P

MITKEM LABORATORIES



* Wet Chemistry *

Mitkem Laboratories

Date: *25-Jul-08*

Client: Earth Tech
Client Sample ID: FELF-EFF
Lab ID: G1171-01

Project: Fort Edward Landfill
Collection Date: 07/21/08 10:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	410		10	mg/L	1	07/23/2008 16:30	37785
SM 2540D -- TOTAL SUSPENDED SOLIDS							**SM2540_TSS**
Total Suspended Solids	ND		10	mg/L	1	07/23/2008 16:30	37786
SM 5530B-D -- PHENOLS by 4-Aminoantipyrine Method							**SM5530_W**
Phenolics, Total Recoverable	ND		0.20	mg/L	1	07/23/2008 9:00	37769

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Earth Tech
Work Order: G1171
Project: Fort Edward Landfill

ANALYTICAL QC SUMMARY REPORT

SM2540_TDS

SM 2540C -- TOTAL DISSOLVED SOLIDS

Sample ID: **MB-37785** SampType: **MBLK** TestCode: **SM2540_TDS** Prep Date: **7/23/2008** Run ID: **MANUAL_080723B**
Client ID: **MB-37785** Batch ID: **37785** Units: **mg/L** Analysis Date: **7/23/2008** SeqNo: **846814**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	10									

Sample ID: **LCS-37785** SampType: **LCS** TestCode: **SM2540_TDS** Prep Date: **7/23/2008** Run ID: **MANUAL_080723B**
Client ID: **LCS-37785** Batch ID: **37785** Units: **mg/L** Analysis Date: **7/23/2008** SeqNo: **846815**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	1241	10	1280	0	97.0	80	120	0			

Sample ID: **G1171-01DDUP** SampType: **DUP** TestCode: **SM2540_TDS** Prep Date: **7/23/2008** Run ID: **MANUAL_080723B**
Client ID: **FELF-EFF** Batch ID: **37785** Units: **mg/L** Analysis Date: **7/23/2008** SeqNo: **846817**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	426.0	10	0	0	0	0	0	412.0	3.34	20	

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

CLIENT: Earth Tech
Work Order: G1171
Project: Fort Edward Landfill

ANALYTICAL QC SUMMARY REPORT

SM2540_TSS

SM 2540D -- TOTAL SUSPENDED SOLIDS

Sample ID: **MB-37786**	SampType: **MBLK**	TestCode: **SM2540_TSS**			Prep Date: **7/23/2008**			Run ID: **MANUAL_080723C**			
Client ID: **MB-37786**	Batch ID: **37786**	Units: **mg/L**			Analysis Date: **7/23/2008**			SeqNo: **846818**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	ND	10									

Sample ID: **LCS-37786**	SampType: **LCS**	TestCode: **SM2540_TSS**			Prep Date: **7/23/2008**			Run ID: **MANUAL_080723C**			
Client ID: **LCS-37786**	Batch ID: **37786**	Units: **mg/L**			Analysis Date: **7/23/2008**			SeqNo: **846819**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	36.00	10	32.80	0	110	80	120	0			

Sample ID: **G1171-01DDUP**	SampType: **DUP**	TestCode: **SM2540_TSS**			Prep Date: **7/23/2008**			Run ID: **MANUAL_080723C**			
Client ID: **FELF-EFF**	Batch ID: **37786**	Units: **mg/L**			Analysis Date: **7/23/2008**			SeqNo: **846821**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	ND	10	0	0	0	0	0	0	200	20	

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

CLIENT: Earth Tech
Work Order: G1171
Project: Fort Edward Landfill

ANALYTICAL QC SUMMARY REPORT

SM5530_W

SM 5530B-D -- PHENOLS by 4-Aminoantipyrine Method

Sample ID: **MB-37769**	SampType: **MBLK**	TestCode: **SM5530_W**			Prep Date: **7/23/2008**			Run ID: **MANUAL_080723A**				
Client ID: **MB-37769**	Batch ID: **37769**	Units: **mg/L**			Analysis Date: **7/23/2008**			SeqNo: **845741**				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable		ND	0.20									
Sample ID: **LCS-37769**	SampType: **LCS**	TestCode: **SM5530_W**			Prep Date: **7/23/2008**			Run ID: **MANUAL_080723A**				
Client ID: **LCS-37769**	Batch ID: **37769**	Units: **mg/L**			Analysis Date: **7/23/2008**			SeqNo: **845742**				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable		0.2650	0.20	0.2940	0	90.1	80	120	0			
Sample ID: **G1171-01BDUP**	SampType: **DUP**	TestCode: **SM5530_W**			Prep Date: **7/23/2008**			Run ID: **MANUAL_080723A**				
Client ID: **FELF-EFF**	Batch ID: **37769**	Units: **mg/L**			Analysis Date: **7/23/2008**			SeqNo: **845744**				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable		ND	0.20	0	0	0	0	0	0	0	20	
Sample ID: **G1171-01BMS**	SampType: **MS**	TestCode: **SM5530_W**			Prep Date: **7/23/2008**			Run ID: **MANUAL_080723A**				
Client ID: **FELF-EFF**	Batch ID: **37769**	Units: **mg/L**			Analysis Date: **7/23/2008**			SeqNo: **845745**				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable		0.8620	0.20	1.000	0	86.2	75	125	0			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Last Page of Data Report

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

September 19, 2008

Earth Tech
40 British American Boulevard
Latham, NY 12110
Attn: Mr. Stephen Choiniere

RE: Client Project: Fort Edward Landfill, reference number: 99163.04
Lab Project #: G1347

Dear Mr. Choiniere:

Enclosed please find the data report for the analyses of samples associated with the above referenced project. Please discard the old data package.

If you have any questions, please do not hesitate to call me.

We appreciate your business.

Sincerely,

Shirley S. Ng
Project Manager

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

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : Fort Edward Landfill **SDG :** G1347

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
FELF EFF	G1347-01	OLM4.2_VOA_W			ILM4.1_HG_W	SEE DATA
FELF EFF	G1347-01				ILM4.1_ICP_W	
FELF INF	G1347-02	OLM4.2_VOA_W			ILM4.1_HG_W	
FELF INF	G1347-02				ILM4.1_ICP_W	
TRIP BLANK	G1347-03	OLM4.2_VOA_W				
FELF EFF	G1347-04			SW8082_W		

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : Fort Edward Landfill **SDG :** G1347

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
OLM4.2_VOA_W					
G1347-01A	AQ	8/18/2008	8/19/2008	NA	8/22/2008
G1347-02A	AQ	8/18/2008	8/19/2008	NA	8/22/2008
G1347-03A	AQ	8/18/2008	8/19/2008	NA	8/22/2008

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary GC*

Project Name : Fort Edward Landfill **SDG :** G1347

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
SW8082_W					
G1347-04A	AQ	9/2/2008	9/3/2008	9/3/2008	9/5/2008
G1347-04ARE	AQ	9/2/2008	9/3/2008	9/11/2008	9/12/2008

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : Fort Edward Landfill

SDG : G1347

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
OLM4.2_VOA_W					
G1347-01A	AQ	OLM4.2_VOA_W	NA	LOW	1
G1347-02A	AQ	OLM4.2_VOA_W	NA	LOW	1
G1347-03A	AQ	OLM4.2_VOA_W	NA	LOW	1

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary GC*

Project Name : Fort Edward Landfill **SDG :** G1347

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
SW8082_W					
G1347-04A	AQ	SW8082_W	PCB_W_PR	NA	1
G1347-04ARE	AQ	SW8082_W	PCB_W_PR	NA	1

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary ME

Project Name : Fort Edward Landfill

SDG : G1347

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
ILM4.1_HG_W				
G1347-01D	AQ	ILM4.1_HG_W	8/19/2008	8/20/2008
G1347-02B	AQ	ILM4.1_HG_W	8/19/2008	8/20/2008
G1347-02BDUP	AQ	ILM4.1_HG_W	8/19/2008	8/20/2008
G1347-02BMS	AQ	ILM4.1_HG_W	8/19/2008	8/20/2008
ILM4.1_ICP_W				
G1347-01D	AQ	ILM4.1_ICP_W	8/19/2008	8/25/2008
G1347-02B	AQ	ILM4.1_ICP_W	8/19/2008	8/25/2008

Analytical Data Package for Earth Tech

Client Project: Fort Edward Landfill

SDG# MG1347

Mitkem Work Order ID: G1347

September 19, 2008

Prepared For:

Earth Tech
40 British American Boulevard
Latham, NY 12110
Attn: Mr. Stephen Choiniere

Prepared By:

Mitkem Laboratories
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

SDG Narrative

Mitkem Laboratories submits the enclosed data package in response to Earth Tech's Fort Edward Landfill project. Under this deliverable, analysis results are presented for four aqueous samples that were received on August 19 and September 3, 2008. Analyses were performed per specifications in the project's contract and the chain of custody form. Following the narrative is the Mitkem Work Order for cross-referencing client sample ID and laboratory sample ID.

The analyses were performed according to NYSDEC ASP protocols and reported per NYSDEC ASP requirement for Category A deliverable with the exception of wet chemistry analysis. Wet chemistry analysis results are reported using standard Mitkem laboratory report format.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.
- M6 software did not integrate peak
- M7 partial peak integration

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. OLM 4.3 Volatile Analysis:

Trap used for instrument V5: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve.

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

Samples were preserved with hydrochloric acid with pH<2.

Surrogate recovery: recoveries were within the QC limits.

Lab control sample: spike recoveries were within the QC limits.

Sample analysis: no unusual observation was made for the analysis.

3. PCB Analysis:

The sample was analyzed by Method 8082 using a 2-liter sample volume with a final concentrated extract volume of 1mL to provide reduced reporting limits.

Surrogate recovery: recoveries were within the QC limits with the exception of low recoveries of TCX on both GC columns in the laboratory control samples and low recoveries of TCX and DCB on both GC columns for the sample. The sample was reextracted and reanalyzed with improved surrogate recoveries.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits.

Sample analysis: the sample was reextracted and reanalyzed due to low surrogate recoveries as described above. The reextraction occurred two days beyond the method holding time. Please note that PCB results between initial and reextraction were identical. The letters "RX" have been appended to the sample ID to identify the reextraction. No other unusual observation was made for the analysis.

4. ILM 4.1 Metals Analysis:

All elements were analyzed using either a Perkin Elmer Model 3100XL Optima or a Perkin Elmer Model 4300DV ICAP.

Samples were preserved with nitric acid with pH<2.

Lab control sample: spike recoveries were within the QC limits.

Matrix spike analysis: matrix spike analysis was performed on sample FELF INF for mercury only. Spike recoveries were within the QC limits.

Duplicate analysis: duplicate analysis was performed on sample FELF INF for mercury only. Replicate RPDs were within the QC limits.

Sample analysis: serial dilution was performed on sample FELF INF. Percent differences were within the QC limits with the exception of zinc. Results for zinc are flagged with an "E" on the data sheets. No unusual observations were made during sample analysis.

5. Wet Chemistry Analysis:

Lab control sample: spike recoveries were within the QC limits for phenol, total dissolved solids and total suspended solids analysis.

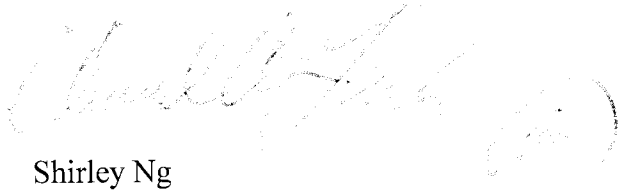
Matrix spike analysis: matrix spike analyses were performed on sample FELF EFF for total recoverable phenolics. Spike recoveries were within the QC limits.

Duplicate analysis: duplicate analyses were performed on sample FELF EFF for total dissolved solids, total suspended solids analysis, and total recoverable phenolics. Percent recoveries were within the QC limits.

Sample analysis: no unusual observation was made to the 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".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.



Shirley Ng
Project Manager
09/19/08

Sample Transmittal Documentation

Mitkem Laboratories

03/Sep/08 9:40

WorkOrder: G1347

Client ID: EARTH_NY
Project: Fort Edward Landfill
Location:
Comments: under contract D004445-18-19-20-21-MIT-01

Case:
SDG:
PO: 99163.04

Report Level: ASP-A
EDD:
HC Due: 09/10/08
Fax Due: 09/10/08

Sample ID	HS Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
G1347-01A	FELF EFF	08/18/2008 11:15	08/19/2008	Aqueous	OLM4.2_VOA_W	NYS ADD LCS	☐	☐	☐	VOA
G1347-01B	FELF EFF	08/18/2008 11:15	08/19/2008	Aqueous	SM5530_W		☐	☐	☐	J4
G1347-01C	FELF EFF	08/18/2008 11:15	08/19/2008	Aqueous	SM2540_TDS		☐	☐	☐	J4
					SM2540_TSS		☐	☐	☐	J4
G1347-01D	FELF EFF	08/18/2008 11:15	08/19/2008	Aqueous	ILM4.1_HG_W	ILM	☐	☐	☐	M4
					ILM4.1_ICP_W	ILM	☐	☐	☑	M4
G1347-01E	FELF EFF	08/18/2008 11:15	08/19/2008	Aqueous	SW8082_W	extract 2L to 1mL	☐	☐	☑	J4
G1347-02A	FELF INF	08/18/2008 11:30	08/19/2008	Aqueous	OLM4.2_VOA_W	NYS ADD LCS	☐	☐	☐	VOA
G1347-02B	FELF INF	08/18/2008 11:30	08/19/2008	Aqueous	ILM4.1_HG_W	ILM	☐	☐	☐	M4
					ILM4.1_ICP_W	ILM	☐	☐	☑	M4
G1347-03A	TRIP BLANK	08/18/2008 0:00	08/19/2008	Aqueous	OLM4.2_VOA_W	NYS ADD LCS	☐	☐	☐	VOA

Client Rep: Shirley S Ng

Mitkem Laboratories

03/Sep/08 9:40

WorkOrder: G1347

Client ID: EARTH_NY
Project: Fort Edward Landfill
Location:
Comments: under contract D004445-18-19-20-21-MIT-01

Case:
SDG:
PO: 99163.04

Report Level: ASP-A
EDD:
HC Due: 09/10/08
Fax Due: 09/10/08

Sample ID	HS Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
G1347-04A	FELF EFF	09/02/2008 11:35	09/03/2008	Aqueous	SW8082_W	extract 2L to 1mL	☐	☐	☑	J2

Client Rep: Shirley S Ng

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 10 to 15 business days
- ☐ Rush TAT - Date Needed: ______
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Earth Tech
40 British American Blvd.
Latham NY 12110

Project Mgr.: Stephen Choiniere

Invoice To: Same

P.O. No.: ______ RQN: ______

Project No.: 99163 .02
Site Name: Fort Edward Landfill
Location: Fort Edward State: NY
Sampler(s) SRG

$1=Na_2S_2O_3$ 2=HCl $3=H_2SO_4$ $4=HNO_3$ 5=NaOH 6=Ascorbic Acid
$7=CH_3OH$ $8=NaHSO_4$ 9=______ 10=______

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

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	OLM 4.2 VOA	Phenols	ILM 4.1+Hg	TDS/TSS	PCB's		
61347-01	FELF EFF	8/18/08	11:15	G	GW		2				X	X	X	X	X		
61347-02	FELF INF	8/18/08	11:30	G	GW		2				X		X				
61347-03	Trip Blank	—	—				2				X						

QA Reporting Notes: (check if needed)
- ☐ Provide MA DEP MCP CAM Report
- ☐ Provide CT DEP RCP Report

QA/QC Reporting Level
☐ Standard ☐ No QC
☐ Other ______

State specific reporting standards:

☐ Fax results when available to (____) ______
☐ E-mail to ______
EDD Format ______

Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C 4°C

Relinquished by:	Received by:	Date:	Time:
Steve Gro		8-18-08	15:00
	[signature]	8/19/08	8:30

MITKEM CORPORATION
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 Earth Tech	PHONE 518 951-2200	COMPANY Same	PHONE	LAB PROJECT #:
NAME Steve Chainiere	FAX 518 951-2300	NAME	FAX	
ADDRESS 40 British American Blvd.		ADDRESS		TURNAROUND TIME:
CITY/ST/ZIP Latham NY 12110		CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
Fort Edward Landfill	99163.02	

REQUESTED ANALYSES

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	PCB's	COMMENTS
FELF EFF	9/2/08 11:35		X	X					X	
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
	Steve Gus	12:30 9/2/08		/		
	/	/		/		
	/	/	[illegible]	9/3/08 19:00		

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

5555

MITKEM LABORATORIES

Sample Condition Form

Page ___ of ___

Received By:	Reviewed By: SN	Date:	MITKEM Workorder #
Client Project:		Client:	

Lab Sample ID		Preservation (pH) HNO_3	Preservation (pH) H_2SO_4	Preservation (pH) HCl	Preservation (pH) NaOH	VOA Matrix	Soil Headspace or Air Bubbles ≥ 1/4"

1) Cooler Sealed (Yes / No)

2) Custody Seal(s) (Present / Absent)
(Coolers / Bottles)
(Intact / Broken)

3) Custody Seal Number(s)

4) Chain-of-Custody (Present / Absent)

5) Cooler Temperature

Coolant Condition

6) Airbill(s) (Present / Absent)

Airbill Number(s)

7) Sample Bottles (Intact/Broken/Leaking)

8) Date Received

9) Time Received

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

MITKEM LABORATORIES

Sample Condition Form

Received By:	Reviewed By:	Date:	MITKEM Workorder #:
Client Project:		Client:	

1) Cooler Sealed Yes / No

2) Custody Seal(s) Present / Absent
Coolers / Bottles
Intact / Broken

3) Custody Seal Number(s)

4) Chain-of-Custody Present / Absent

5) Cooler Temperature

Coolant Condition

6) Airbill(s) Present / Absent

Airbill Number(s)

7) Sample Bottles Intact/Broken/Leaking

8) Date Received

9) Time Received

Preservative Name/Lot No:

Lab Sample ID		Preservation (pH) HNO_3	Preservation (pH) H_2SO_4	Preservation (pH) HCl	Preservation (pH) NaOH	VOA Matrix	Soil Headspace or Air Bubbles ≥ 1/4"

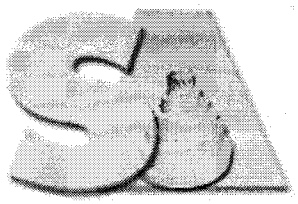
VOA Matrix Key:

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

MITKEM
LABORATORIES



* Volatiles *

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FELF EFF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1347-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0231.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/19/2008

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

EPA OLM

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FELF EFF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1347-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0231.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/19/2008

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

FELF EFF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1347-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0231.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/19/2008

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FELF INF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1347-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0232.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/19/2008

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	65	
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	32	
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FELF INF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1347-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0232.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/19/2008

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

FELF INF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1347-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0232.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/19/2008

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1347-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0233.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/19/2008

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1347-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0233.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/19/2008

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1347-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0233.D

Level: (TRACE or LOW/MED) LOW Date Received: 08/19/2008

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796 [1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VP5LCS

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-38283

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0230.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	43	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	41	
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	40	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	40	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VP5LCS

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-38283

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0230.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	40	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Level: (TRACE or LOW) LOW

	CLIENT SAMPLE NO.	VDMC1 (TOL) #	VDMC2 (BFB) #	VDMC3 (DCE) #					TOT OUT
01	VBLKP5	100	93	96					0
02	VP5LCS	99	94	99					0
03	FELF EFF	101	95	96					0
04	FELF INF	99	97	98					0
05	TRIP BLANK	101	98	99					0
06	VHBLKP5	101	96	96					0

		QC LIMITS
VDMC1	(TOL) = Toluene-d8	(88-110)
VDMC2	(BFB) = Bromofluorobenzene	(86-115)
VDMC3	(DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

EPA OLM

3 - FORM III

WATER LABORATORY CONTROL

SAMPLE RECOVERY

CLIENT SAMPLE NO.

VP5LCS

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Lab Sample ID: LCS-38283 LCS Lot No.:

Date Extracted: 08/22/2008 Date Analyzed (1): 08/22/2008

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,1-Dichloroethene	50.0000	0.0000	42.9578	86		61 - 145
Benzene	50.0000	0.0000	40.9133	82		76 - 127
Trichloroethene	50.0000	0.0000	39.8671	80		71 - 120
Toluene	50.0000	0.0000	39.6860	79		76 - 125
Chlorobenzene	50.0000	0.0000	39.9990	80		75 - 130

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

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLKP5

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Lab File ID: V5K0229.D Lab Sample ID: MB-38283

Instrument ID: V5

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 08/22/2008

Level: (TRACE or LOW/MED) LOW Time Analyzed: 07:12

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VP5LCS	LCS-38283	V5K0230.D	07:38
02	FELF EFF	G1347-01A	V5K0231.D	08:05
03	FELF INF	G1347-02A	V5K0232.D	08:32
04	TRIP BLANK	G1347-03A	V5K0233.D	08:58
05	VHBLKP5	VHBLKP5	V5K0245.D	14:18

COMMENTS:

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKP5

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-38283

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0229.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLKP5

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-38283

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0229.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLKP5

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-38283

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0229.D

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLKP5

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VHBLKP5

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0245.D

Level: (TRACE/LOW/MED) LOW Date Received: 08/19/2008

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

EPA OLM

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLKP5

Lab Name: MITKEM LABORATORIES

Contract:

Lab Code: MITKEM Case No.:

Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER

Lab Sample ID: VHBLKP5

Sample wt/vol: 5.00 (g/mL) ML

Lab File ID: V5K0245.D

Level: (TRACE/LOW/MED) LOW

Date Received: 08/19/2008

% Moisture: not dec.

Date Analyzed: 08/22/2008

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

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VHBLKP5

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VHBLKP5

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V5K0245.D

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 08/22/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
E966796[1]	Total Alkanes	N/A		

[1] EPA-designated Registry Number.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 08/22/2008 08/22/2008

EPA Sample No.(VSTD#####): VSTD050O5 Date Analyzed: 08/22/2008

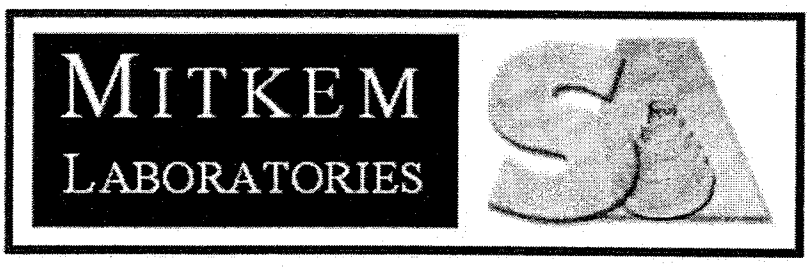
Lab File ID (Standard): V5K0227.D Time Analyzed: 06:19

Instrument ID: V5 Heated Purge: (Y/N) N

		IS1 (S1) AREA	#	RT	#	IS2 (S2) AREA	#	RT	#	IS3 (S3) AREA	#	RT	#
	12 HOUR STD	90812		4.781		489780		5.78		402414		8.846	
	UPPER LIMIT	181624		5.281		979560		6.28		804828		9.346	
	LOWER LIMIT	45406		4.281		244890		5.28		201207		8.346	
	SAMPLE NO.												
01	VBLKP5	96824		4.781		532994		5.780		427785		8.857	
02	VP5LCS	87707		4.780		489713		5.779		403770		8.856	
03	FELF EFF	100984		4.787		538577		5.774		440997		8.852	
04	FELF INF	98677		4.780		528953		5.779		437455		8.856	
05	TRIP BLANK	102306		4.781		561559		5.780		452825		8.845	
06	VHBLKP5	94451		4.788		480638		5.775		382090		8.852	

IS1 () = Bromochloromethane
IS2 () = 1,4-Difluorobenzene
IS3 () = Chlorobenzene-d5
AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area
AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area
RT UPPER LIMIT = +0.50 (Low-Medium Volatiles) and +0.33 (Trace Volatiles) minutes of internal standard RT
RT LOWER LIMIT = -0.50 (Low-Medium Volatiles) and -0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.



* PCB Organics *

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FELF EFF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1347-04A

Sample wt/vol: 2000 (g/mL) ML Lab File ID: E2H2480F.D/E2H2480R.D

% Moisture: Decanted: (Y/N) Date Received: 09/03/2008

Extraction: (Type) SEPF Date Extracted: 09/03/2008

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.050	U
11104-28-2	Aroclor-1221	0.050	U
11141-16-5	Aroclor-1232	0.050	U
53469-21-9	Aroclor-1242	0.050	U
12672-29-6	Aroclor-1248	0.050	U
11097-69-1	Aroclor-1254	0.050	U
11096-82-5	Aroclor-1260	0.050	U

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FELF EFFRX

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1347-04ARE

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1H0818F.D/E1H0818R.D

% Moisture: Decanted: (Y/N) Date Received: 09/03/2008

Extraction: (Type) SEPF Date Extracted: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/12/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.050	U
11104-28-2	Aroclor-1221	0.050	U
11141-16-5	Aroclor-1232	0.050	U
53469-21-9	Aroclor-1242	0.050	U
12672-29-6	Aroclor-1248	0.050	U
11097-69-1	Aroclor-1254	0.050	U
11096-82-5	Aroclor-1260	0.050	U

1H - FORM I PEST

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ALCS1F(1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-38647

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1H0816F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/12/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.42	
11104-28-2	Aroclor-1221	0.050	U
11141-16-5	Aroclor-1232	0.050	U
53469-21-9	Aroclor-1242	0.050	U
12672-29-6	Aroclor-1248	0.050	U
11097-69-1	Aroclor-1254	0.050	U
11096-82-5	Aroclor-1260	0.50	

SW846

1H - FORM I PEST

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ALCS1F(2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-38647

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1H0816R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/12/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.49	
11104-28-2	Aroclor-1221	0.050	U
11141-16-5	Aroclor-1232	0.050	U
53469-21-9	Aroclor-1242	0.050	U
12672-29-6	Aroclor-1248	0.050	U
11097-69-1	Aroclor-1254	0.050	U
11096-82-5	Aroclor-1260	0.45	

1H - FORM I PEST

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ALCSD1F(1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-38647

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1H0817F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/12/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.43	
11104-28-2	Aroclor-1221	0.050	U
11141-16-5	Aroclor-1232	0.050	U
53469-21-9	Aroclor-1242	0.050	U
12672-29-6	Aroclor-1248	0.050	U
11097-69-1	Aroclor-1254	0.050	U
11096-82-5	Aroclor-1260	0.50	

SW846

1H - FORM I PEST

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ALCSD1F(2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-38647

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1H0817R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/12/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.50	
11104-28-2	Aroclor-1221	0.050	U
11141-16-5	Aroclor-1232	0.050	U
53469-21-9	Aroclor-1242	0.050	U
12672-29-6	Aroclor-1248	0.050	U
11097-69-1	Aroclor-1254	0.050	U
11096-82-5	Aroclor-1260	0.44	

SW846

1H - FORM I PEST

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS2C(1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-38512

Sample wt/vol: 2000 (g/mL) ML Lab File ID: E2H2478F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 09/03/2008

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.23	P
11104-28-2	Aroclor-1221	0.050	U
11141-16-5	Aroclor-1232	0.050	U
53469-21-9	Aroclor-1242	0.050	U
12672-29-6	Aroclor-1248	0.050	U
11097-69-1	Aroclor-1254	0.050	U
11096-82-5	Aroclor-1260	0.19	

SW846

1H - FORM I PEST

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCS2C(2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-38512

Sample wt/vol: 2000 (g/mL) ML Lab File ID: E2H2478R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 09/03/2008

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.13	P
11104-28-2	Aroclor-1221	0.050	U
11141-16-5	Aroclor-1232	0.050	U
53469-21-9	Aroclor-1242	0.050	U
12672-29-6	Aroclor-1248	0.050	U
11097-69-1	Aroclor-1254	0.050	U
11096-82-5	Aroclor-1260	0.19	

1H - FORM I PEST

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSD2C(1)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-38512

Sample wt/vol: 2000 (g/mL) ML Lab File ID: E2H2479F.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 09/03/2008

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.21	P
11104-28-2	Aroclor-1221	0.050	U
11141-16-5	Aroclor-1232	0.050	U
53469-21-9	Aroclor-1242	0.050	U
12672-29-6	Aroclor-1248	0.050	U
11097-69-1	Aroclor-1254	0.050	U
11096-82-5	Aroclor-1260	0.14	

1H - FORM I PEST

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ALCSD2C(2)

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCSD-38512

Sample wt/vol: 2000 (g/mL) ML Lab File ID: E2H2479R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 09/03/2008

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.11	P
11104-28-2	Aroclor-1221	0.050	U
11141-16-5	Aroclor-1232	0.050	U
53469-21-9	Aroclor-1242	0.050	U
12672-29-6	Aroclor-1248	0.050	U
11097-69-1	Aroclor-1254	0.050	U
11096-82-5	Aroclor-1260	0.14	

2Q - FORM II ARO-1

WATER AROCLOR SURROGATE RECOVERY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC	#	TCX 2 %REC	#	DCB 1 %REC	#	DCB 2 %REC	#	OTHER (1)	OTHER (2)	TOT OUT
01	ABLK2C	42		41		93		93				0
02	ALCS2C	28	*	28	*	91		91				2
03	ALCSD2C	30	*	30	*	66		67				2
04	FELF EFF	25	*	25	*	35	*	35	*			4
05	ABLK1F	72		74		84		85				0
06	ALCS1F	66		67		90		98				0
07	ALCSD1F	74		73		88		98				0
08	FELF EFFRX	47		50		104		69				0

	QC LIMITS
TCX = Tetrachloro-m-xylene	(32-89)
DCB = Decachlorobiphenyl	(40-135)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

SW846

3N - FORM III ARO-3

WATER AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

CLIENT SAMPLE NO.

ALCS1F

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Lab Sample ID: LCS-38647 LCS Lot No.:

Date Extracted: 09/11/2008 Date Analyzed (1): 09/12/2008

Instrument ID (1): E1 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
Aroclor-1016	0.4000	0.4185	105		25-145
Aroclor-1260	0.4000	0.5029	126		30-145

Instrument ID (2): E1 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 09/12/2008

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
Aroclor-1016	0.4000	0.4914	123		25-145
Aroclor-1260	0.4000	0.4506	113		30-145

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS:

3N - FORM III ARO-3

WATER AROCLOR LABORATORY CONTROL

SAMPLE RECOVERY

CLIENT SAMPLE NO.

ALCSD1F

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Lab Sample ID: LCSD-38647 LCS Lot No.:

Date Extracted: 09/11/2008 Date Analyzed (1): 09/12/2008

Instrument ID (1): E1 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
Aroclor-1016	0.4000	0.4337	108		25-145
Aroclor-1260	0.4000	0.4952	124		30-145

Instrument ID (2): E1 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 09/12/2008

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
Aroclor-1016	0.4000	0.5032	126		25-145
Aroclor-1260	0.4000	0.4371	109		30-145

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS:

3N - FORM III ARO-3

WATER AROCLOR LABORATORY CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

ALCS2C

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Lab Sample ID: LCS-38512 LCS Lot No.:

Date Extracted: 09/03/2008 Date Analyzed (1): 09/05/2008

Instrument ID (1): E2 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
Aroclor-1016	0.2000	0.2302	115		25-145
Aroclor-1260	0.2000	0.1932	97		30-145

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 09/05/2008

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
Aroclor-1016	0.2000	0.1280	64		25-145
Aroclor-1260	0.2000	0.1916	96		30-145

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS:

3N - FORM III ARO-3

WATER AROCLOR LABORATORY CONTROL

SAMPLE RECOVERY

EPA SAMPLE NO.

ALCSD2C

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Lab Sample ID: LCSD-38512 LCS Lot No.:

Date Extracted: 09/03/2008 Date Analyzed (1): 09/05/2008

Instrument ID (1): E2 GC Column(1): CLPPest ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
Aroclor-1016	0.2000	0.2146	107		25-145
Aroclor-1260	0.2000	0.1437	72		30-145

Instrument ID (2): E2 GC Column(2): CLPPestII ID: 0.53 (mm)

Date Analyzed (2): 09/05/2008

COMPOUND	AMOUNT ADDED (UG/L)	AMOUNT RECOVERED (UG/L)	%REC	#	QC LIMITS
Aroclor-1016	0.2000	0.1147	57		25-145
Aroclor-1260	0.2000	0.1436	72		30-145

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

LCS Recovery: 0 out of 4 outside limits.

COMMENTS:

4F - FORM IV ARO

AROCLOR METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLK1F

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Lab File ID: E1H0815F.D / E1H0815R.D Lab Sample ID: MB-38647

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 09/11/2008

Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Acid Cleanup: (Y/N Y

Date Analyzed (1): 09/12/2008 Date Analyzed (2): 09/12/2008

Time Analyzed (1): 16:59 Time Analyzed (2): 16:59

Instrument ID (1): E1 Instrument ID (2): E1

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	ALCS1F	LCS-38647	09/12/2008	09/12/2008
02	ALCSD1F	LCSD-38647	09/12/2008	09/12/2008
03	FELF EFFRX	G1347-04ARE	09/12/2008	09/12/2008

COMMENTS:

SW846

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLK1F

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-38647

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E1H0815F.D/E1H0815R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 09/11/2008

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/12/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.050	U
11104-28-2	Aroclor-1221	0.050	U
11141-16-5	Aroclor-1232	0.050	U
53469-21-9	Aroclor-1242	0.050	U
12672-29-6	Aroclor-1248	0.050	U
11097-69-1	Aroclor-1254	0.050	U
11096-82-5	Aroclor-1260	0.050	U

SW846

4F - FORM IV ARO

AROCLOR METHOD BLANK SUMMARY

EPA SAMPLE NO.

ABLK2C

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Lab File ID: E2H2477F.D / E2H2477R.D Lab Sample ID: MB-38512

Matrix: (SOIL/SED/WATER) WATER Extraction: (Type) SEPF Date Extracted: 09/03/2008

Sulfur Cleanup: (Y/N) Y GPC Cleanup:(Y/N) N

Acid Cleanup: (Y/N Y

Date Analyzed (1): 09/05/2008 Date Analyzed (2): 09/05/2008

Time Analyzed (1): 10:53 Time Analyzed (2): 10:53

Instrument ID (1): E2 Instrument ID (2): E2

GC Column(1): CLPPest ID: 0.53 (mm) GC Column(2): CLPPestII ID: 0.53 (mm)

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED (1)	DATE ANALYZED (2)
01	ALCS2C	LCS-38512	09/05/2008	09/05/2008
02	ALCSD2C	LCSD-38512	09/05/2008	09/05/2008
03	FELF EFF	G1347-04A	09/05/2008	09/05/2008

COMMENTS:

1H - FORM I ARO

AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ABLK2C

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1347

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-38512

Sample wt/vol: 2000 (g/mL) ML Lab File ID: E2H2477F.D/E2H2477R.D

% Moisture: Decanted: (Y/N) Date Received:

Extraction: (Type) SEPF Date Extracted: 09/03/2008

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.00 Dilution Factor: 1.0

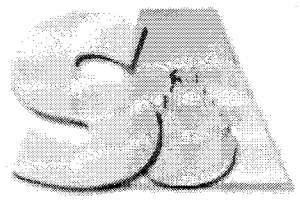
GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.050	U
11104-28-2	Aroclor-1221	0.050	U
11141-16-5	Aroclor-1232	0.050	U
53469-21-9	Aroclor-1242	0.050	U
12672-29-6	Aroclor-1248	0.050	U
11097-69-1	Aroclor-1254	0.050	U
11096-82-5	Aroclor-1260	0.050	U

SW846

MITKEM
LABORATORIES



* Metals *

U.S.EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1347

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID
FELF EFF	G1347-01
FELF INF	G1347-02
FELF INFD	G1347-02DUP
FELF INFS	G1347-02MS

Were ICP interelement corrections applied?	Yes/No	YES
Were background corrections applied?	Yes/No	YES
If yes-were raw data generated before application of background corrections?	Yes/No	NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature: Name:

Date: Title:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

FELF EFF

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1347

Matrix (soil/water): WATER Lab Sample ID: G1347-01

Level (low/med): MED Date Received: 08/19/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	67.6	B		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	6.8	B		P
7440-39-3	Barium	78.7	B		P
7440-41-7	Beryllium	0.078	B		P
7440-43-9	Cadmium	0.050	U		P
7440-70-2	Calcium	83000			P
7440-47-3	Chromium	0.86	B		P
7440-48-4	Cobalt	2.5	B		P
7440-50-8	Copper	5.2	B		P
7439-89-6	Iron	9420			P
7439-92-1	Lead	3.5			P
7439-95-4	Magnesium	15700			P
7439-96-5	Manganese	1220			P
7439-97-6	Mercury	0.040	U		CV
7440-02-0	Nickel	3.7	B		P
7440-09-7	Potassium	8760			P
7782-49-2	Selenium	3.2	U		P
7440-22-4	Silver	4.4	B		P
7440-23-5	Sodium	22900			P
7440-28-0	Thallium	3.8	U		P
7440-62-2	Vanadium	4.4	U		P
7440-66-6	Zinc	25.9		E	P

Color Before YELLOW Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

FELF INF

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1347

Matrix (soil/water): WATER Lab Sample ID: G1347-02

Level (low/med): MED Date Received: 08/19/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.8	B		P
7440-36-0	Antimony	2.1	U		P
7440-38-2	Arsenic	5.3	B		P
7440-39-3	Barium	68.2	B		P
7440-41-7	Beryllium	0.040	B		P
7440-43-9	Cadmium	0.050	U		P
7440-70-2	Calcium	95800			P
7440-47-3	Chromium	0.52	U		P
7440-48-4	Cobalt	4.2	B		P
7440-50-8	Copper	0.55	U		P
7439-89-6	Iron	40100			P
7439-92-1	Lead	2.0	B		P
7439-95-4	Magnesium	25200			P
7439-96-5	Manganese	2700			P
7439-97-6	Mercury	0.040	U		CV
7440-02-0	Nickel	1.9	B		P
7440-09-7	Potassium	5420			P
7782-49-2	Selenium	3.2	U		P
7440-22-4	Silver	4.1	B		P
7440-23-5	Sodium	45700			P
7440-28-0	Thallium	3.8	U		P
7440-62-2	Vanadium	4.4	U		P
7440-66-6	Zinc	11.3	B	E	P

Color Before COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

3

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1347

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-38241**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

FIMS1_080820D

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury	0.040	U	0.040	U	0.040	U			0.040	U	

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1347

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-38239**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA2_080821B

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	11.1	U	11.1	U	11.1	U	11.1	U	11.140	U	
Antimony	2.1	U	2.1	U	2.1	U	2.1	U	2.080	U	
Arsenic	2.1	U	2.1	U	2.1	U	2.1	U	2.060	U	
Barium	1.5	B	0.9	B	0.8	B	1.1	B	0.211	B	
Beryllium	0.1	B	0.0	B	0.0	U	0.0	B	0.030	U	
Cadmium	0.1	B	0.1	U	0.1	U	0.1	U	0.050	U	
Calcium	56.4	U	56.4	U	56.4	U	56.4	U	56.350	U	
Chromium	0.5	U	0.5	U	0.5	U	0.5	U	0.616	B	
Cobalt	0.5	B	0.3	B	0.3	U	0.3	U	0.270	U	
Copper	0.6	U	0.6	U	0.6	U	0.6	B	0.550	U	
Iron	1.0	B	1.7	B	1.0	B	1.7	B	18.947	B	
Lead	0.6	U	0.6	U	0.6	U	0.6	U	0.664	B	
Magnesium	5.4	U	5.4	U	5.4	U	5.4	U	5.390	U	
Manganese	0.4	B	0.2	B	0.2	B	0.3	B	0.357	B	
Nickel	0.4	B	0.2	B	0.1	B	0.2	B	0.110	U	
Silver	2.1	B	0.7	B	0.5	U	0.5	U	4.740	B	
Thallium	3.8	U	3.8	U	4.2	B	3.8	U	3.810	U	
Vanadium	4.4	U	4.4	U	4.4	U	4.4	U	4.390	U	
Zinc	1.6	B	1.0	B	0.7	B	0.9	B	4.046	B	

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1347

Preparation Blank Matrix (soil/water): WATER Method Blank ID: **MB-38239**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA2_080821C

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Selenium	3.2	U	3.2	U	3.2	U			3.180	U	

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1347

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: **MB-38239**

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA3_080825A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Potassium	37.8	U	58.1	B	63.3	B	66.2	B	48.950	B	
Sodium	10.2	U	10.4	B	10.2	U	10.2	U	10.210	U	

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

FELF INFS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1347

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Mercury	75-125	0.9593	0.0400 U	1.00	95.9		CV

Comments:

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DUPLICATES

EPA SAMPLE NO.

FELF INFD

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1347

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury		0.0400	U	0.0400	U			CV

LABORATORY CONTROL SAMPLE

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1347

Solid LCS Source: LCS(D) ID:

Aqueous LCS Source: **LCS-38239**

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	9100.0	9713.74	106.7						
Antimony	455.0	479.38	105.4						
Arsenic	455.0	500.56	110.0						
Barium	9100.0	10045.38	110.4						
Beryllium	227.0	243.59	107.3						
Cadmium	227.0	244.71	107.8						
Calcium	22700.0	24008.11	105.8						
Chromium	910.0	965.60	106.1						
Cobalt	2270.0	2460.44	108.4						
Copper	1130.0	1219.44	107.9						
Iron	4550.0	4908.41	107.9						
Lead	455.0	498.04	109.5						
Magnesium	22700.0	24524.17	108.0						
Manganese	2270.0	2496.89	110.0						
Nickel	2270.0	2448.62	107.9						
Potassium	22700.0	23643.59	104.2						
Selenium	455.0	492.84	108.3						
Silver	1130.0	1239.02	109.6						
Sodium	22700.0	23840.81	105.0						
Thallium	455.0	477.39	104.9						
Vanadium	2270.0	2422.33	106.7						
Zinc	2270.0	2448.12	107.8						

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

FELF INF

Lab Name: Mitkem Laboratories Contract: 99163.04

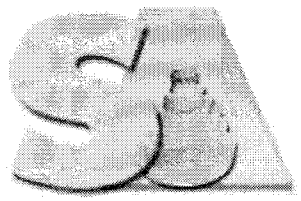
Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1347

Matrix (soil/water): WATER Level (low/med): MED

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	13.76	B	55.70	U	100		P
Antimony	2.08	U	10.40	U			P
Arsenic	5.31	B	10.66		101		P
Barium	68.23	B	70.85		4		P
Beryllium	0.04	B	0.15	U	100		P
Cadmium	0.05	U	0.25	U			P
Calcium	95786.18		95600.97		0		P
Chromium	0.52	U	2.60	U			P
Cobalt	4.19	B	4.66		11		P
Copper	0.55	U	2.75	U			P
Iron	40052.95		41989.33		5		P
Lead	1.96	B	3.05	U	100		P
Magnesium	25214.04		26338.86		5		P
Manganese	2699.16		2839.35		5		P
Nickel	1.88	B	1.88		0		P
Potassium	5417.79		5571.76		3		P
Selenium	3.18	U	15.90	U			P
Silver	4.12	B	2.47		40		P
Sodium	45655.13		47074.50		3		P
Thallium	3.81	U	19.05	U			P
Vanadium	4.39	U	21.95	U			P
Zinc	11.33	B	22.74		101	E	P

MITKEM LABORATORIES



* Wet Chemistry *

Mitkem Laboratories

Date: *02-Sep-08*

Client: Earth Tech
Client Sample ID: FELF EFF
Lab ID: G1347-01

Project: Fort Edward Landfill
Collection Date: 08/18/08 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	370		10	mg/L	1	08/20/2008 16:30	38250
SM 2540D -- TOTAL SUSPENDED SOLIDS							**SM2540_TSS**
Total Suspended Solids	18		10	mg/L	1	08/20/2008 16:30	38251
SM 5530B-D -- PHENOLS by 4-Aminoantipyrine Method							**SM5530_W**
Phenolics, Total Recoverable	ND		0.20	mg/L	1	09/02/2008 10:00	38490

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Earth Tech
Work Order: G1347
Project: Fort Edward Landfill

ANALYTICAL QC SUMMARY REPORT

SM2540_TDS

SM 2540C -- TOTAL DISSOLVED SOLIDS

Sample ID: **MB-38250** SampType: **MBLK** TestCode: **SM2540_TDS** Prep Date: **8/20/2008** Run ID: **MANUAL_080820A**
Client ID: **MB-38250** Batch ID: **38250** Units: **mg/L** Analysis Date: **8/20/2008** SeqNo: **866543**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	10									

Sample ID: **LCS-38250** SampType: **LCS** TestCode: **SM2540_TDS** Prep Date: **8/20/2008** Run ID: **MANUAL_080820A**
Client ID: **LCS-38250** Batch ID: **38250** Units: **mg/L** Analysis Date: **8/20/2008** SeqNo: **866542**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	807.0	10	817.0	0	98.8	80	120	0			

Sample ID: **G1347-01CDUP** SampType: **DUP** TestCode: **SM2540_TDS** Prep Date: **8/20/2008** Run ID: **MANUAL_080820A**
Client ID: **FELF EFF** Batch ID: **38250** Units: **mg/L** Analysis Date: **8/20/2008** SeqNo: **866534**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	385.0	10	0	0	0	0	0	373.0	3.17	20	

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

CLIENT: Earth Tech
Work Order: G1347
Project: Fort Edward Landfill

ANALYTICAL QC SUMMARY REPORT

SM2540_TSS

SM 2540D -- TOTAL SUSPENDED SOLIDS

Sample ID: **MB-38251**	SampType: **MBLK**	TestCode: **SM2540_TSS**			Prep Date: **8/20/2008**			Run ID: **MANUAL_080820B**			
Client ID: **MB-38251**	Batch ID: **38251**	Units: **mg/L**			Analysis Date: **8/20/2008**			SeqNo: **866443**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	ND	10									

Sample ID: **LCS-38251**	SampType: **LCS**	TestCode: **SM2540_TSS**			Prep Date: **8/20/2008**			Run ID: **MANUAL_080820B**			
Client ID: **LCS-38251**	Batch ID: **38251**	Units: **mg/L**			Analysis Date: **8/20/2008**			SeqNo: **866442**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	84.00	10	85.00	0	98.8	80	120	0			

Sample ID: **G1347-01CDUP**	SampType: **DUP**	TestCode: **SM2540_TSS**			Prep Date: **8/20/2008**			Run ID: **MANUAL_080820B**			
Client ID: **FELF EFF**	Batch ID: **38251**	Units: **mg/L**			Analysis Date: **8/20/2008**			SeqNo: **866441**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids	18.00	10	0	0	0	0	0	18.00	0	20	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Earth Tech
Work Order: G1347
Project: Fort Edward Landfill

ANALYTICAL QC SUMMARY REPORT

SM5530_W

SM 5530B-D -- PHENOLS by 4-Aminoantipyrine Method

Sample ID: **MB-38490**	SampType: **MBLK**	TestCode: **SM5530_W**			Prep Date: **9/2/2008**				Run ID: **SPEC2_080902A**		
Client ID: **MB-38490**	Batch ID: **38490**	Units: **mg/L**			Analysis Date: **9/2/2008**				SeqNo: **872565**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	ND	0.20									

Sample ID: **LCS-38490**	SampType: **LCS**	TestCode: **SM5530_W**			Prep Date: **9/2/2008**				Run ID: **SPEC2_080902A**		
Client ID: **LCS-38490**	Batch ID: **38490**	Units: **mg/L**			Analysis Date: **9/2/2008**				SeqNo: **872564**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	0.2570	0.20	0.2940	0	87.4	80	120	0			

Sample ID: **G1347-01BDUP**	SampType: **DUP**	TestCode: **SM5530_W**			Prep Date: **9/2/2008**				Run ID: **SPEC2_080902A**		
Client ID: **FELF EFF**	Batch ID: **38490**	Units: **mg/L**			Analysis Date: **9/2/2008**				SeqNo: **872561**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	ND	0.20	0	0	0	0	0	0	0	20	

Sample ID: **G1347-01BMS**	SampType: **MS**	TestCode: **SM5530_W**			Prep Date: **9/2/2008**				Run ID: **SPEC2_080902A**		
Client ID: **FELF EFF**	Batch ID: **38490**	Units: **mg/L**			Analysis Date: **9/2/2008**				SeqNo: **872562**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	0.8190	0.20	1.000	0	81.9	75	125	0			

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

Last Page of Data Report

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

9/15/08

October 16, 2008

Earth Tech | AECOM
40 British American Boulevard
Latham, NY 12110
Attn: Mr. Stephen Choiniere

RE: Client Project: Fort Edward Landfill, reference number: 99163.02
Lab Project #: G1558

Dear Mr. Choiniere:

Enclosed please find the data report for the analyses of samples associated with the above referenced project. Please discard the old data package.

If you have any questions, please do not hesitate to call me.

We appreciate your business.

Sincerely,

Shirley S. Ng
Project Manager

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

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Identification and Analytical Requirements Summary

Project Name : Fort Edward Landfill **SDG :** G1558

Customer Sample ID	Laboratory Sample ID	Analytical Requirements				
		MSVOA Method #	MSSEMI Method #	GC* Method #	ME	Other
FELF EFF	G1558-01	OLM4.2_VOA_W			ILM4.1_HG_W	SEE DATA
FELF EFF	G1558-01				ILM4.1_ICP_W	
FELF INF	G1558-02	OLM4.2_VOA_W			ILM4.1_HG_W	
FELF INF	G1558-02				ILM4.1_ICP_W	
TRIP BLANK	G1558-03	OLM4.2_VOA_W				

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : Fort Edward Landfill **SDG :** G1558

Laboratory Sample ID	Matrix	Date Collected	Date Received By Lab	Date Extracted	Date Analyzed
OLM4.2_VOA_W					
G1558-01A	AQ	9/15/2008	9/16/2008	NA	9/17/2008
G1558-02A	AQ	9/15/2008	9/16/2008	NA	9/17/2008
G1558-03A	AQ	9/15/2008	9/16/2008	NA	9/17/2008

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary MSVOA

Project Name : Fort Edward Landfill **SDG :** G1558

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Low/Medium Level	Dil/Conc Factor
OLM4.2_VOA_W					
G1558-01A	AQ	OLM4.2_VOA_W	NA	LOW	1
G1558-02A	AQ	OLM4.2_VOA_W	NA	LOW	1
G1558-03A	AQ	OLM4.2_VOA_W	NA	LOW	1

Mitkem Laboratories

New York State Department of Environmental Conservation
Sample Preparation and Analysis Summary ME

Project Name : Fort Edward Landfill **SDG :** G1558

Laboratory Sample ID	Matrix	Metals Requested	Date Received By Lab	Date Analyzed
ILM4.1_HG_W				
G1558-01C	AQ	ILM4.1_HG_W	9/16/2008	9/19/2008
G1558-02B	AQ	ILM4.1_HG_W	9/16/2008	9/19/2008
G1558-02BDUP	AQ	ILM4.1_HG_W	9/16/2008	9/19/2008
G1558-02BMS	AQ	ILM4.1_HG_W	9/16/2008	9/19/2008
ILM4.1_ICP_W				
G1558-01C	AQ	ILM4.1_ICP_W	9/16/2008	9/23/2008
G1558-01CDUP	AQ	ILM4.1_ICP_W	9/16/2008	9/23/2008
G1558-01CMS	AQ	ILM4.1_ICP_W	9/16/2008	9/23/2008
G1558-02B	AQ	ILM4.1_ICP_W	9/16/2008	9/23/2008

Analytical Data Package for Earth Tech

Client Project: Fort Edward Landfill

SDG# MG1558

Mitkem Work Order ID: G1558

October 16, 2008

Prepared For:

Earth Tech | AECOM
40 British American Boulevard
Latham, NY 12110
Attn: Mr. Stephen Choiniere

Prepared By:

Mitkem Laboratories
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

SDG Narrative

Mitkem Laboratories submits the enclosed data package in response to Earth Tech's Fort Edward Landfill project. Under this deliverable, analysis results are presented for three aqueous samples that were received on September 16, 2008. Analyses were performed per specifications in the project's contract and the chain of custody form. Following the narrative is the Mitkem Work Order for cross-referencing client sample ID and laboratory sample ID.

The analyses were performed according to NYSDEC ASP protocols and reported per NYSDEC ASP requirement for Category A deliverable with the exception of wet chemistry analysis. Wet chemistry analysis results are reported using standard Mitkem laboratory report format.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.
- M6 software did not integrate peak
- M7 partial peak integration

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. OLM 4.3 Volatile Analysis:

Trap used for instrument V6: OI Analytical #10 trap containing 8 cm each of Tenax, silica gel and carbon molecular sieve.

GC column used: 30 m x 0.25 mm id (1.4 um film thickness) DB-624 capillary column.

Samples were preserved with hydrochloric acid with pH<2.

Surrogate recovery: recoveries were within the QC limits.

Lab control sample: spike recoveries were within the QC limits.

Sample analysis: no unusual observation was made for the analysis.

3. ILM 4.1 Metals Analysis:

All elements were analyzed using either a Perkin Elmer Model 3100XL Optima or a Perkin Elmer Model 4300DV ICAP.

Samples were preserved with nitric acid with pH<2.

Lab control sample: spike recoveries were within the QC limits.

Matrix spike analysis: matrix spike analyses were performed on sample FELF EFF for all elements except metals, and also on sample FELF INF for mercury only. Spike recoveries were within the QC limits with the exception of selenium in FELF EFF. The element is flagged with an "N" on the data reporting forms. A post digestion spike was performed on sample FELF EFF for selenium with improved recovery and report in this submittal.

Duplicate analysis: duplicate analyses were performed on sample FELF EFF for all elements except metals, and also on sample FELF INF for mercury only. Replicate RPDs were within the QC limits.

Sample analysis: serial dilution was performed on sample FELF EFF. Percent differences were within the QC limits with the exception of zinc. Results for zinc are flagged with an "E" on the data sheets. No unusual observations were made during sample analysis.

4. Wet Chemistry Analysis:

Lab control sample: spike recoveries were within the QC limits for phenol, total dissolved solids and total suspended solids analysis.

Matrix spike analysis: matrix spike analyses were performed on sample FELF EFF for total recoverable phenolics analysis. Spike recoveries was slightly outside the QC limits. Duplicate analysis was performed with similar result.

Duplicate analysis: duplicate analyses were performed on sample FELF EFF for total recoverable phenolics analysis. Percent recoveries were within the QC limits.

Sample analysis: no unusual observation was made to the 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".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Shirley Ng
Project Manager
10/16/08

Sample Transmittal Documentation

Mitkem Laboratories

16/Oct/08 12:29

WorkOrder: G1558

Client ID: EARTH_NY
Project: Fort Edward Landfill
Location:
Comments: under contract D004445-18-19-20-21-MIT-01

Case:
SDG:
PO: 99163.04

HC Due: 10/07/08
Fax Due: 09/30/08

Report Level: ASP-A
EDD:

Sample ID	HS Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
G1558-01A	FELF EFF	09/15/2008 10:05	09/16/2008	Aqueous	OLM4.2_VOA_W	NYS ADD LCS	☐	☐	☐	VOA
G1558-01B	FELF EFF	09/15/2008 10:05	09/16/2008	Aqueous	SM5530_W		☐	☐	☐	J2
G1558-01C	FELF EFF	09/15/2008 10:05	09/16/2008	Aqueous	ILM4.1_HG_W	ILM	☐	☐	☐	M3
					ILM4.1_ICP_W	ILM	☐	☐	☑	M3
G1558-01D	FELF EFF	09/15/2008 10:05	09/16/2008	Aqueous	SM2540_TDS		☐	☐	☐	J2
					SM2540_TSS		☐	☐	☐	J2
G1558-02A	FELF INF	09/15/2008 10:40	09/16/2008	Aqueous	OLM4.2_VOA_W	NYS ADD LCS	☐	☐	☐	VOA
G1558-02B	FELF INF	09/15/2008 10:40	09/16/2008	Aqueous	ILM4.1_HG_W	ILM	☐	☐	☐	M3
					ILM4.1_ICP_W	ILM	☐	☐	☑	M3
G1558-03A	TRIP BLANK	09/15/2008 0:00	09/16/2008	Aqueous	OLM4.2_VOA_W	NYS ADD LCS	☐	☐	☐	VOA

Client Rep: Shirley S Ng

MITKEM LABORATORIES

A DIVISION OF SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 10 to 15 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Earth Tech | Aecom
40 British American Blvd.
Latham NY 12110

Project Mgr.: Stephen Choiniere

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 99163.02
Site Name: Fort Edward Land Fill
Location: Fort Edward State: NY
Sampler(s) SRG - RV

1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH_3OH 8=$NaHSO_4$ 9=_____ 10=_____

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

G=Grab C=Composite

Lab Id: G1558	Sample Id:	Date:	Time:	Type	Matrix	Preservative	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analyses: OLM4.2 VOA	Phenol	ILM4.1	TDS/TSS					QA Reporting Notes: (check if needed)
01	FELF EFF	9/15/08	10:05	G	GW	2,3,4	2	1		2	X	X	X	X					☐ Provide MA DEP MCP CAM Report ☐ Provide CT DEP RCP Report **QA/QC Reporting Level** ☐ Standard ☐ No QC ☐ Other _____ State specific reporting standards:
02	FELF INF	9/15/08	10:40	G	GW	2,4	2			1	X		X						
03	Trip Blank	—	—				2				X								

☐ Fax results when available to (____) _____
☐ E-mail to _____
EDD Format _____

Condition upon receipt: ☐ Iced ☐ Ambient ☐ °C 3°C

Relinquished by:	Received by:	Date:	Time:
Stu Gro		9/15/08	13:35
	[signature]	9/16/08	9:00

1558

MITKEM LABORATORIES

Sample Condition Form

Received By: CAV | Reviewed By: VEG | Date: 9/16/08 | MITKEM Workorder #: G1558

Client Project: Fort Edward Landfill | Client: EarthTec

1) Cooler Sealed (Yes) / No

2) Custody Seal(s) (Present) / Absent
(Coolers) / Bottles
(Intact) / Broken

3) Custody Seal Number(s) NA

4) Chain-of-Custody (Present) / Absent

5) Cooler Temperature 3°C
Coolant Condition ICE

6) Airbill(s) (Present) / Absent
Airbill Number(s) fed Ex
8585101706

7) Sample Bottles (Intact)/Broken/Leaking

8) Date Received 9/16/08

9) Time Received 9:00

Preservative Name/Lot No:

Lab Sample ID		Preservation (pH) HNO_3	H_2SO_4	HCl	NaOH	VOA Matrix	Soil Headspace or Air Bubbles ≥ 1/4"
G1558	01	<2				H	
G1558	02	<2				H	
G1558	03					H	

CAV 9/16/08

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

MITKEM LABORATORIES

* Volatiles *

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FELF EFF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1558-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6G0735.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/16/2008

% Moisture: not dec. Date Analyzed: 09/17/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FELF EFF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1558-01A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6G0735.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/16/2008

% Moisture: not dec. Date Analyzed: 09/17/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FELF INF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1558-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6G0736.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/16/2008

% Moisture: not dec. Date Analyzed: 09/17/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	42	
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	18	
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FELF INF

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1558-02A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6G0736.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/16/2008

% Moisture: not dec. Date Analyzed: 09/17/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1558-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6G0734.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/16/2008

% Moisture: not dec. Date Analyzed: 09/17/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

TRIP BLANK

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: G1558-03A

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6G0734.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/16/2008

% Moisture: not dec. Date Analyzed: 09/17/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V6NLCS

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-38754

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6G0723.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/16/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	42	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	52	
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	47	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	49	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

V6NLCS

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: LCS-38754

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6G0723.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/16/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	50	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

2B - FORM II VOA-2

WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Level: (TRACE or LOW) LOW

	CLIENT SAMPLE NO.	VDMC1 (TOL) #	VDMC2 (BFB) #	VDMC3 (DCE) #					TOT OUT
01	VBLK6N	100	89	94					0
02	V6NLCS	97	88	93					0
03	TRIP BLANK	101	88	97					0
04	FELF EFF	101	87	96					0
05	FELF INF	101	89	93					0
06	VHBLK6N	101	87	99					0

		QC LIMITS
VDMC1	(TOL) = Toluene-d8	(88-110)
VDMC2	(BFB) = Bromofluorobenzene	(86-115)
VDMC3	(DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

EPA OLM

3 - FORM III
WATER LABORATORY CONTROL
SAMPLE RECOVERY

CLIENT SAMPLE NO.
V6NLCS

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Lab Sample ID: LCS-38754 LCS Lot No.:

Date Extracted: 09/16/2008 Date Analyzed (1): 09/16/2008

COMPOUND	SPIKE ADDED	SAMPLE CONCENTRATION	LCS CONCENTRATION	LCS %REC	#	QC. LIMITS REC.
1,1-Dichloroethene	50.0000	0.0000	41.5633	83		61 - 145
Benzene	50.0000	0.0000	51.5206	103		76 - 127
Trichloroethene	50.0000	0.0000	47.1402	94		71 - 120
Toluene	50.0000	0.0000	49.2063	98		76 - 125
Chlorobenzene	50.0000	0.0000	49.8369	100		75 - 130

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

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

4A - FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

VBLK6N

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Lab File ID: V6G0722.D Lab Sample ID: MB-38754

Instrument ID: V6

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 09/16/2008

Level: (TRACE or LOW/MED) LOW Time Analyzed: 23:00

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6NLCS	LCS-38754	V6G0723.D	23:26
02	TRIP BLANK	G1558-03A	V6G0734.D	04:17
03	FELF EFF	G1558-01A	V6G0735.D	04:43
04	FELF INF	G1558-02A	V6G0736.D	05:09
05	VHBLK6N	VHBLK6N	V6G0739.D	09:11

COMMENTS:

EPA OLM

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLK6N

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-38754

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6G0722.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/16/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VBLK6N

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: MB-38754

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6G0722.D

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 09/16/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLK6N

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VHBLK6N

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6G0739.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/16/2008

% Moisture: not dec. Date Analyzed: 09/17/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon disulfide	10	U
79-20-9	Methyl acetate	10	U
75-09-2	Methylene chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

VHBLK6N

Lab Name: MITKEM LABORATORIES Contract:

Lab Code: MITKEM Case No.: Mod. Ref No.: SDG No.: MG1558

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: VHBLK6N

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: V6G0739.D

Level: (TRACE/LOW/MED) LOW Date Received: 09/16/2008

% Moisture: not dec. Date Analyzed: 09/17/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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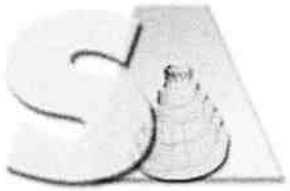

* Metals *

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

SOW No.: ILM04.1

EPA Sample No.	Lab Sample ID
FELF EFF	G1558-01
FELF EFFD	G1558-01DUP
FELF EFFS	G1558-01MS
FELF INF	G1558-02
FELF INFD	G1558-02DUP
FELF INFS	G1558-02MS

Were ICP interelement corrections applied?	Yes/No	YES
Were background corrections applied?	Yes/No	YES
If yes-were raw data generated before application of background corrections?	Yes/No	NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature: Dawn E. Smart Name: Dawn E. Smart

Date: 10/16/08 Title:

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1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

FELF EFF

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Matrix (soil/water): WATER Lab Sample ID: G1558-01

Level (low/med): MED Date Received: 09/16/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	75.9	B		P
7440-36-0	Antimony	2.2	B		P
7440-38-2	Arsenic	2.5	U		P
7440-39-3	Barium	39.3	B		P
7440-41-7	Beryllium	0.058	B		P
7440-43-9	Cadmium	0.22	U		P
7440-70-2	Calcium	94700			P
7440-47-3	Chromium	0.67	B		P
7440-48-4	Cobalt	2.9	B		P
7440-50-8	Copper	10	B		P
7439-89-6	Iron	1200			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	19100			P
7439-96-5	Manganese	257			P
7439-97-6	Mercury	0.040	U		CV
7440-02-0	Nickel	4.6	B		P
7440-09-7	Potassium	4670	B		P
7782-49-2	Selenium	4.9	U	N	P
7440-22-4	Silver	0.34	B		P
7440-23-5	Sodium	24400			P
7440-28-0	Thallium	1.9	U		P
7440-62-2	Vanadium	1.3	B		P
7440-66-6	Zinc	20.4		E	P

Color Before COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

FELF INF

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Matrix (soil/water): WATER Lab Sample ID: G1558-02

Level (low/med): MED Date Received: 09/16/2008

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	51.6	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	4.0	B		P
7440-39-3	Barium	65.5	B		P
7440-41-7	Beryllium	0.040	U		P
7440-43-9	Cadmium	0.22	U		P
7440-70-2	Calcium	100000			P
7440-47-3	Chromium	0.25	B		P
7440-48-4	Cobalt	4.1	B		P
7440-50-8	Copper	3.0	B		P
7439-89-6	Iron	26600			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	25700			P
7439-96-5	Manganese	2450			P
7439-97-6	Mercury	0.040	U		CV
7440-02-0	Nickel	4.0	B		P
7440-09-7	Potassium	5070			P
7782-49-2	Selenium	12.8		N	P
7440-22-4	Silver	0.31	U		P
7440-23-5	Sodium	45500			P
7440-28-0	Thallium	1.9	U		P
7440-62-2	Vanadium	1.1	B		P
7440-66-6	Zinc	15.2	B	E	P

Color Before COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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3

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Preparation Blank Matrix (soil/water): WATER Method Blank ID: MB-38800

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

FIMS1_080919A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury	0.040	U	0.040	U	0.040	U			0.040	U	

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3

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Preparation Blank Matrix (soil/water): WATER Method Blank ID: MB-38801

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA3_080922A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Potassium	37.8	U	37.8	U	37.8	U	37.8	U	37.820	U	
Sodium	10.2	U	10.2	U	10.2	U	10.2	U	13.547	B	

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3

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Preparation Blank Matrix (soil/water): WATER Method Blank ID: MB-38801

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA3_080922B

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	7.2	B	32.1	B	41.0	B	94.6	B	32.429	B	
Arsenic	2.5	U	2.5	U	2.5	U	-2.9	B	2.520	U	
Barium	1.5	B	1.1	B	1.1	B	1.1	B	3.073	B	
Beryllium	0.1	B	0.1	B	0.0	U	0.1	B	0.066	B	
Calcium	43.1	U	43.1	U	43.1	U	43.1	U	43.080	U	
Chromium	0.2	B	0.3	B	0.1	U	0.2	B	0.286	B	
Cobalt	0.8	B	1.3	B	1.1	B	1.3	B	2.284	B	
Copper	8.4	B	5.4	B	5.9	B	6.1	B	6.257	B	
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.010	U	
Magnesium	-51.1	B	-28.0	B	46.0	B	-30.3	B	5.130	U	
Manganese	1.1	B	0.6	B	0.7	B	0.7	B	3.002	B	
Nickel	0.4	B	1.3	B	0.5	B	1.0	B	2.091	B	
Selenium	4.9	U	4.9	U	4.9	U	4.9	U	4.860	U	
Silver	0.6	B	0.3	U	0.3	U	0.3	U	0.310	U	
Thallium	1.9	U	1.9	U	1.9	U	1.9	U	1.900	U	
Vanadium	0.4	B	0.4	U	0.4	B	0.4	B	0.370	U	

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3

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Preparation Blank Matrix (soil/water): WATER

Method Blank ID: MB-38801

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA3_080922C

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Antimony	1.9	U	2.0	B	1.9	U	1.9	U	2.840	B	

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3

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Preparation Blank Matrix (soil/water): WATER Method Blank ID: MB-38801

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

OPTIMA3_080923A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Cadmium	0.2	U	0.2	U	0.2	U	0.2	U	0.220	U	
Iron	-12.2	B	35.9	B	-14.9	B	34.6	B	81.814	B	
Zinc	4.9	B	3.2	B	1.9	B	2.2	B	3.284	B	

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3

BLANKS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Preparation Blank Matrix (soil/water): Method Blank ID:

Preparation Blank Concentration Units (ug/L or mg/kg):

OPTIMA3_080923A

Analyte	Initial Calibration Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Cadmium			0.2	U	0.2	U					
Iron			-13.8	B	34.1	B					
Zinc			2.0	B	2.3	B					

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5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

FELF EFFS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2003.7512		75.9183	B	2000.00	96.4		P
Antimony	75-125	103.7919		2.1752	B	100.00	101.6		P
Arsenic	75-125	42.7797		2.5200	U	40.00	106.9		P
Barium	75-125	1978.6195		39.3198	B	2000.00	97.0		P
Beryllium	75-125	52.4924		0.0576	B	50.00	104.9		P
Cadmium	75-125	4.5079	B	0.2200	U	5.00	90.2		P
Chromium	75-125	207.3955		0.6664	B	200.00	103.4		P
Cobalt	75-125	504.4187		2.9294	B	500.00	100.3		P
Copper	75-125	265.2291		9.9819	B	250.00	102.1		P
Iron	75-125	2155.2907		1196.7234		1000.00	95.9		P
Lead	75-125	21.3996		2.0100	U	20.00	107.0		P
Manganese	75-125	735.7909		257.4639		500.00	95.7		P
Nickel	75-125	502.0972		4.6027	B	500.00	99.5		P
Selenium	75-125	15.7830		4.8600	U	10.00	157.8	N	P
Silver	75-125	50.6031		0.3373	B	50.00	100.5		P
Thallium	75-125	49.2816		1.9000	U	50.00	98.6		P
Vanadium	75-125	507.5631		1.2644	B	500.00	101.3		P
Zinc	75-125	554.6197		20.3519		500.00	106.9		P

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

FELF INFS

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75-125	0.9486		0.0400	U	1.00	94.9		CV

Comments:

U.S. EPA - CLP

5B

EPA SAMPLE NO.

POST DIGEST SPIKE SAMPLE RECOVERY

FELF EFFA

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Matrix (soil/water): WATER Level (low/med): MED

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit %R	Spike Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Selenium		13.28		4.86	U	10.0	133		P

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

FELF EFFD

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		75.9183	B	66.6918	B	12.9		P
Antimony		2.1752	B	3.4003	B	43.9		P
Arsenic		2.5200	U	2.5200	U			P
Barium		39.3198	B	37.0787	B	5.9		P
Beryllium		0.0576	B	0.0400	U	200		P
Cadmium		0.2200	U	0.2200	U			P
Calcium		94652.5461		89293.3398		5.8		P
Chromium		0.6664	B	0.5365	B	21.6		P
Cobalt		2.9294	B	2.4152	B	19.2		P
Copper		9.9819	B	4.4640	B	76.4		P
Iron		1196.7234		1142.4662		4.6		P
Lead		2.0100	U	2.0100	U			P
Magnesium	5000.0	19123.8334		18085.0379		5.6		P
Manganese		257.4639		233.6212		9.7		P
Nickel		4.6027	B	3.9272	B	15.8		P
Potassium		4667.8310	B	4507.3549	B	3.5		P
Selenium		4.8600	U	4.8600	U			P
Silver		0.3373	B	0.3100	U	200		P
Sodium	5000.0	24400.9516		23604.7793		3.3		P
Thallium		1.9000	U	1.9000	U			P
Vanadium		1.2644	B	1.1616	B	8.5		P
Zinc	20.0	20.3519		17.8117	B	13.3		P

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6

DUPLICATES

EPA SAMPLE NO.

FELF INFD

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Mercury		0.0400	U	0.0400	U			CV

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7

LABORATORY CONTROL SAMPLE

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Solid LCS Source:

Aqueous LCS Source:

LCS(D) ID:
LCS-38801

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	9100.0	9132.76	100.4						
Antimony	455.0	485.90	106.8						
Arsenic	455.0	504.57	110.9						
Barium	9100.0	9242.77	101.6						
Beryllium	227.0	244.66	107.8						
Cadmium	227.0	253.57	111.7						
Calcium	22700.0	22940.23	101.1						
Chromium	910.0	970.39	106.6						
Cobalt	2270.0	2383.79	105.0						
Copper	1130.0	1201.60	106.3						
Iron	4550.0	4781.62	105.1						
Lead	455.0	490.13	107.7						
Magnesium	22700.0	23660.53	104.2						
Manganese	2270.0	2405.35	106.0						
Nickel	2270.0	2381.65	104.9						
Potassium	22700.0	23085.56	101.7						
Selenium	455.0	490.51	107.8						
Silver	1130.0	1204.18	106.6						
Sodium	22700.0	23350.53	102.9						
Thallium	455.0	483.85	106.3						
Vanadium	2270.0	2375.20	104.6						
Zinc	2270.0	2524.84	111.2						

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

FELF EFF

Lab Name: Mitkem Laboratories Contract: 99163.04

Lab Code: MITKEM Case No.: SAS No.: SDG No.: MG1558

Matrix (soil/water): WATER Level (low/med): MED

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	75.92	B	231.12		204		P
Antimony	2.18	B	9.45	U	100		P
Arsenic	2.52	U	12.60	U			P
Barium	39.32	B	40.97		4		P
Beryllium	0.06	B	0.20	U	100		P
Cadmium	0.22	U	1.10	U			P
Calcium	94652.55		86789.46		8		P
Chromium	0.67	B	1.42		112		P
Cobalt	2.93	B	7.11		143		P
Copper	9.98	B	13.90		39		P
Iron	1196.72		1179.91		1		P
Lead	2.01	U	10.05	U			P
Magnesium	19123.83		19506.32		2		P
Manganese	257.46		260.96		1		P
Nickel	4.60	B	5.05		10		P
Potassium	4667.83	B	4730.63		1		P
Selenium	4.86	U	24.30	U			P
Silver	0.34	B	1.55	U	100		P
Sodium	24400.95		24355.13		0		P
Thallium	1.90	U	9.50	U			P
Vanadium	1.26	B	1.85	U	100		P
Zinc	20.35		23.56		16	E	P

MITKEM LABORATORIES

* Wet Chemistry *

Mitkem Laboratories

Date: *30-Sep-08*

Client: Earth Tech
Client Sample ID: FELF EFF
Lab ID: G1558-01

Project: Fort Edward Landfill
Collection Date: 09/15/08 10:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SM 2540C -- TOTAL DISSOLVED SOLIDS							**SM2540_TDS**
Total Dissolved Solids	860		10	mg/L	1	09/17/2008 16:30	38783
SM 2540D -- TOTAL SUSPENDED SOLIDS							**SM2540_TSS**
Total Suspended Solids	ND		10	mg/L	1	09/17/2008 16:30	38785
SM 5530B-D -- PHENOLS by 4-Aminoantipyrine Method							**SM5530_W**
Phenolics, Total Recoverable	ND		0.20	mg/L	1	09/25/2008 9:00	38953

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Laboratories

Date: *30-Sep-08*

CLIENT: Earth Tech
Work Order: G1558
Project: Fort Edward Landfill

ANALYTICAL QC SUMMARY REPORT

SM2540_TDS

SM 2540C -- TOTAL DISSOLVED SOLIDS

Sample ID: **MB-38783**	SampType: **MBLK**	TestCode: **SM2540_TDS**			Prep Date: **9/17/2008**			Run ID: **MANUAL_080910C**			
Client ID: **MB-38783**	Batch ID: **38783**	Units: **mg/L**			Analysis Date: **9/17/2008**			SeqNo: **883049**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	10									

Sample ID: **LCS-38783**	SampType: **LCS**	TestCode: **SM2540_TDS**			Prep Date: **9/17/2008**			Run ID: **MANUAL_080910C**			
Client ID: **LCS-38783**	Batch ID: **38783**	Units: **mg/L**			Analysis Date: **9/17/2008**			SeqNo: **883048**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	816.0	10	817.0	0	99.9	80	120	0			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Earth Tech
Work Order: G1558
Project: Fort Edward Landfill

ANALYTICAL QC SUMMARY REPORT

SM2540_TSS

SM 2540D -- TOTAL SUSPENDED SOLIDS

Sample ID: **MB-38785**	SampType: **MBLK**	TestCode: **SM2540_TSS**			Prep Date: **9/17/2008**				Run ID: **MANUAL_080917A**		
Client ID: **MB-38785**	Batch ID: **38785**	Units: **mg/L**			Analysis Date: **9/17/2008**				SeqNo: **883058**		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids		ND	10									

Sample ID: **LCS-38785**	SampType: **LCS**	TestCode: **SM2540_TSS**			Prep Date: **9/17/2008**				Run ID: **MANUAL_080917A**		
Client ID: **LCS-38785**	Batch ID: **38785**	Units: **mg/L**			Analysis Date: **9/17/2008**				SeqNo: **883057**		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Suspended Solids		86.00	10	85.00	0	101	80	120	0			

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

CLIENT: Earth Tech
Work Order: G1558
Project: Fort Edward Landfill

ANALYTICAL QC SUMMARY REPORT

SM5530_W

SM 5530B-D -- PHENOLS by 4-Aminoantipyrine Method

Sample ID: **MB-38953**	SampType: **MBLK**	TestCode: **SM5530_W**			Prep Date: **9/25/2008**			Run ID: **MANUAL_080926A**			
Client ID: **MB-38953**	Batch ID: **38953**	Units: **mg/L**			Analysis Date: **9/25/2008**			SeqNo: **889065**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	ND	0.20									

Sample ID: **LCS-38953**	SampType: **LCS**	TestCode: **SM5530_W**			Prep Date: **9/25/2008**			Run ID: **MANUAL_080926A**			
Client ID: **LCS-38953**	Batch ID: **38953**	Units: **mg/L**			Analysis Date: **9/25/2008**			SeqNo: **889066**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	0.2700	0.20	0.2940	0	91.8	80	120	0			

Sample ID: **G1558-01BDUP**	SampType: **DUP**	TestCode: **SM5530_W**			Prep Date: **9/25/2008**			Run ID: **MANUAL_080926A**			
Client ID: **FELF EFF**	Batch ID: **38953**	Units: **mg/L**			Analysis Date: **9/25/2008**			SeqNo: **889068**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	ND	0.20	0	0	0	0	0	0	0	20	

Sample ID: **G1558-01BMS**	SampType: **MS**	TestCode: **SM5530_W**			Prep Date: **9/25/2008**			Run ID: **MANUAL_080926A**			
Client ID: **FELF EFF**	Batch ID: **38953**	Units: **mg/L**			Analysis Date: **9/25/2008**			SeqNo: **889069**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenolics, Total Recoverable	0.2030	0.20	1.000	0	20.3	75	125	0			S

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Last Page of Data Report