U.S. EPA - CLP

3
BLANKS

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Preparation Blank Matrix (soil/water):

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

Method Blank ID:

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Mercury			0.047	U	0.047	U					CV

FORM III - IN SW846

U.S. EPA - CLP

3
BLANKS

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Preparation Blank Matrix (soil/water): WATER

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

Method Blank ID:
MB-23878

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony	1.7	B	1.9	B	1.4	B	3.0	B	1.224	B	
Arsenic	2.3	B	1.6	U	4.2	B	1.6	U	3.503	B	
Barium	2.1	U	2.1	U	2.1	U	2.1	U	2.100	U	
Beryllium	0.2	B	0.2	U	0.2	U	0.2	U	0.150	U	
Cadmium	0.1	U	0.1	B	0.1	U	0.2	B	0.657	B	
Chromium	0.4	U	0.4	U	0.4	U	0.4	U	0.380	U	
Copper	10.5	B	8.0	B	6.3	U	6.3	U	6.300	U	
Lead	0.5	U	0.5	U	0.5	U	1.1	B	-0.811	B	
Nickel	0.6	B	1.1	B	0.9	B	0.8	B	0.784	B	
Selenium	1.0	U	1.0	U	-4.1	B	2.9	B	2.167	B	
Silver	0.9	U	0.9	U	0.9	U	0.9	U	0.910	U	
Thallium	1.2	U	1.2	U	1.9	B	1.2	U	-2.994	B	
Vanadium	0.5	U	0.5	B	0.5	U	0.5	U	0.470	U	
Zinc	13.0	B	13.7	B	2.3	B	2.3	U	33.845	B	

U.S. EPA - CLP

3
BLANKS

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Preparation Blank Matrix (soil/water):

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

Method Blank ID:

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony			1.2	U	1.2	U	1.6	B			P
Arsenic			1.6	U	1.8	B	1.6	U			P
Barium			2.1	U	2.1	U	2.1	U			P
Beryllium			0.2	U	0.2	U	0.2	U			P
Cadmium			0.1	U	0.3	B	0.1	U			P
Chromium			0.4	U	0.4	B	1.5	B			P
Copper			6.3	U	7.1	B	6.3	U			P
Lead			-0.7	B	0.5	U	0.5	U			P
Nickel			0.6	U	1.2	B	0.7	B			P
Selenium			3.2	B	-8.3	B	1.0	U			P
Silver			0.9	U	0.9	U	0.9	U			P
Thallium			-1.3	B	1.5	B	1.2	U			P
Vanadium			0.5	B	0.5	U	0.6	B			P
Zinc			-5.3	B	9.8	B	8.2	B			P

U.S. EPA - CLP

3
BLANKS

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Preparation Blank Matrix (soil/water):

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

Method Blank ID:

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony			1.2	U	1.2	U	2.1	B			P
Arsenic			1.7	B	1.9	B	1.6	U			P
Barium			2.1	U	2.1	U	2.1	U			P
Beryllium			0.2	U	0.2	U	0.2	U			P
Cadmium			0.3	B	0.1	U	0.5	B			P
Chromium			0.6	B	0.4	U	0.4	U			P
Copper			6.3	U	6.3	U	6.3	U			P
Lead			0.5	B	0.5	U	0.7	B			P
Nickel			0.9	B	0.8	B	0.9	B			P
Selenium			-2.9	B	-6.2	B	-4.7	B			P
Silver			0.9	U	0.9	U	0.9	U			P
Thallium			1.2	U	1.2	U	1.2	U			P
Vanadium			0.6	B	0.5	U	0.6	B			P
Zinc			17.1	B	24.3	B	19.0	B			P

U.S. EPA - CLP

3
BLANKS

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Preparation Blank Matrix (soil/water):

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

Method Blank ID:

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony			1.8	B	3.1	B	1.2	U			P
Arsenic			4.1	B	1.6	U	1.6	U			P
Barium			2.1	U	2.1	U	2.1	U			P
Beryllium			0.2	U	0.2	U	0.2	U			P
Cadmium			0.1	U	0.8	B	0.1	U			P
Chromium			0.4	U	0.4	U	0.4	U			P
Copper			6.3	U	6.3	U	6.3	U			P
Lead			1.4	B	0.5	U	0.5	U			P
Nickel			1.0	B	0.8	B	0.7	B			P
Selenium			-2.0	B	1.0	U	1.0	U			P
Silver			0.9	U	0.9	U	0.9	U			P
Thallium			1.2	U	-2.0	B	1.2	U			P
Vanadium			0.6	B	0.5	U	0.6	B			P
Zinc			16.5	B	36.5	B	25.3	B			P

U.S. EPA - CLP

3
BLANKS

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Preparation Blank Matrix (soil/water):

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

Method Blank ID:

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony			1.3	B	1.3	B	2.7	B			P
Arsenic			1.6	U	1.6	U	3.3	B			P
Barium			2.1	U	2.1	U	2.1	U			P
Beryllium			0.2	U	0.2	U	0.2	U			P
Cadmium			0.6	B	0.1	U	0.7	B			P
Chromium			0.4	U	0.4	U	0.4	U			P
Copper			6.3	U	6.3	U	6.3	U			P
Lead			0.5	U	0.5	U	0.5	U			P
Nickel			0.9	B	0.6	U	0.9	B			P
Selenium			-5.9	B	-4.0	B	-1.2	B			P
Silver			0.9	U	0.9	U	0.9	U			P
Thallium			1.2	U	-1.3	B	-1.6	B			P
Vanadium			0.6	B	0.5	B	0.5	U			P
Zinc			23.3	B	4.8	B	12.0	B			P

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

ICP ID Number: OPTIMA3 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Antimony	0	600	-4	561.0	93.5	-5	554.0	92.4
Arsenic	0	100	8	96.6	96.6	9	97.8	97.8
Barium	0	500	1	489.0	97.8	1	496.0	99.2
Beryllium	0	500	0	463.0	92.6	0	464.0	92.8
Cadmium	0	1000	1	889.0	88.9	1	891.0	89.1
Chromium	0	500	-13	442.0	88.3	-13	436.0	87.2
Copper	0	500	5	485.0	96.9	-6	465.0	92.9
Lead	0	500	3	478.0	95.6	2	476.0	95.3
Nickel	0	1000	4	854.0	85.4	4	848.0	84.8
Selenium	0	500	11	489.0	97.7	9	478.0	95.6
Silver	0	200	1	210.0	105.0	2	209.0	104.3
Thallium	0	100	2	93.4	93.4	3	87.6	87.6
Vanadium	0	500	2	470.0	94.0	2	468.0	93.5
Zinc	0	1000	26	861.0	86.1	5	846.0	84.6

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

ICP ID Number: OPTIMA3 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Antimony	0	600	-4	570.0	95.0	-4	567.0	94.5
Arsenic	0	100	9	102.0	102.3	9	99.0	99.0
Barium	0	500	1	496.0	99.2	1	488.0	97.5
Beryllium	0	500	0	471.0	94.2	0	466.0	93.2
Cadmium	0	1000	1	895.0	89.5	1	892.0	89.2
Chromium	0	500	-13	451.0	90.2	-13	449.0	89.8
Copper	0	500	4	491.0	98.3	-4	483.0	96.7
Lead	0	500	0	485.0	96.9	1	476.0	95.2
Nickel	0	1000	4	873.0	87.3	4	871.0	87.1
Selenium	0	500	8	488.0	97.7	6	482.0	96.4
Silver	0	200	1	215.0	107.4	1	215.0	107.4
Thallium	0	100	-1	91.2	91.2	7	94.1	94.1
Vanadium	0	500	2	479.0	95.8	2	476.0	95.2
Zinc	0	1000	22	868.0	86.8	31	860.0	86.0

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

ICP ID Number: OPTIMA3 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Antimony	0	600	-6	566.0	94.4	-4	564.0	94.0
Arsenic	0	100	7	104.0	103.7	3	105.0	104.9
Barium	0	500	1	495.0	99.0	1	500.0	100.0
Beryllium	0	500	0	472.0	94.4	0	473.0	94.7
Cadmium	0	1000	1	907.0	90.7	1	902.0	90.2
Chromium	0	500	-13	451.0	90.2	-13	450.0	90.0
Copper	0	500	-4	484.0	96.8	-8	477.0	95.4
Lead	0	500	0	480.0	96.0	1	481.0	96.3
Nickel	0	1000	4	870.0	87.0	4	868.0	86.8
Selenium	0	500	-3	498.0	99.7	4	500.0	99.9
Silver	0	200	1	215.0	107.4	2	214.0	107.0
Thallium	0	100	1	94.6	94.6	5	91.2	91.2
Vanadium	0	500	2	480.0	95.9	2	479.0	95.8
Zinc	0	1000	22	866.0	86.6	37	886.0	88.6

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

ICP ID Number: OPTIMA3 ICS Source:

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Antimony	0	600	-5	569.0	94.8	-6	560.0	93.4
Arsenic	0	100	8	97.4	97.4	8	101.0	101.0
Barium	0	500	1	494.0	98.9	1	486.0	97.1
Beryllium	0	500	0	474.0	94.8	0	465.0	93.0
Cadmium	0	1000	1	911.0	91.1	1	894.0	89.4
Chromium	0	500	-13	453.0	90.6	-13	444.0	88.8
Copper	0	500	-8	476.0	95.2	-9	468.0	93.6
Lead	0	500	1	480.0	96.0	0	475.0	95.0
Nickel	0	1000	4	870.0	87.0	4	860.0	86.0
Selenium	0	500	6	489.0	97.8	14	490.0	98.0
Silver	0	200	1	214.0	107.1	1	211.0	105.4
Thallium	0	100	2	92.7	92.7	2	89.1	89.1
Vanadium	0	500	2	478.0	95.7	2	472.0	94.3
Zinc	0	1000	24	863.0	86.3	15	852.0	85.2

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7
LABORATORY CONTROL SAMPLE

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

LCS(D) ID:
LCS-23878

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Antimony	455.0	473.83	104.1						
Arsenic	455.0	488.95	107.5						
Barium	9100.0	10034.59	110.3						
Beryllium	227.0	251.02	110.6						
Cadmium	227.0	251.64	110.9						
Chromium	910.0	974.36	107.1						
Copper	1130.0	1144.56	101.3						
Lead	455.0	494.23	108.6						
Nickel	2270.0	2463.35	108.5						
Selenium	455.0	469.06	103.1						
Silver	1130.0	1225.94	108.5						
Thallium	455.0	487.64	107.2						
Vanadium	2270.0	2402.17	105.8						
Zinc	2270.0	2567.21	113.1						

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7
LABORATORY CONTROL SAMPLE

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

LCS(D) ID:
LCS-23882

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Mercury	4.6	4.50	97.8						

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

ICP ID Number: Date: 04/01/06

Flame AA ID Number: FIMS1 TestCode: SW7470A

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (UG/L)	MDL (UG/L)	M
Mercury	0.00		0.2	0.05	CV

Comments:

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

ICP ID Number: Date: 04/01/06

Flame AA ID Number: FIMS1 TestCode: SW7471A

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (MG/KG)	MDL (MG/KG)	M
Mercury	0.00		0.03	0.007	CV

Comments:

FORM X - IN SW846

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

ICP ID Number: OPTIMA3 Date: 04/01/06

Flame AA ID Number: TestCode: SW6010B W

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (UG/L)	MDL (UG/L)	M
Antimony	206.83		20	1.2	P
Arsenic	188.98		20	1.6	P
Barium	233.53		200	2.1	P
Beryllium	313.11		5.0	0.15	P
Cadmium	226.50		5.0	0.10	P
Chromium	267.72		20	0.38	P
Copper	324.75		30	6.3	P
Lead	220.35		10	0.46	P
Nickel	231.60		50	0.59	P
Selenium	196.03		30	0.98	P
Silver	328.07		30	0.91	P
Thallium	190.80		20	1.2	P
Vanadium	292.40		50	0.47	P
Zinc	206.20		50	2.3	P

Comments:

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

ICP ID Number: OPTIMA3 Date: 04/01/06

Flame AA ID Number: TestCode: SW6010B S

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (MG/KG)	MDL (MG/KG)	M
Antimony	206.83		1.0	0.056	P
Arsenic	188.98		1.0	0.076	P
Barium	233.53		10	0.13	P
Beryllium	313.11		0.25	0.0061	P
Cadmium	226.50		0.25	0.0055	P
Chromium	267.72		1.0	0.014	P
Copper	324.75		1.5	0.21	P
Lead	220.35		0.50	0.041	P
Nickel	231.60		2.5	0.026	P
Selenium	196.03		1.5	0.067	P
Silver	328.07		1.5	0.019	P
Thallium	190.80		1.0	0.079	P
Vanadium	292.40		2.5	0.021	P
Zinc	206.20		2.5	0.056	P

Comments:

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11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

ICP ID Number: OPTIMA3 Date: 5/2/06

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Cr
Aluminum	308.21		0.2148240	0.0000000	0.1090780	0.0000000
Antimony	206.83	0.0129557	0.0000000	-0.0093487	0.0046225	13.1671000
Arsenic	188.97	0.0000000	-0.0109514	-0.0858894	0.0050959	-5.7607600
Barium	233.52	0.0030241	0.0000000	0.0120946	0.0022772	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0434271	0.0000000	0.0000000
Calcium	227.54	-0.2764930		24.6265000	0.1891540	0.0000000
Chromium	267.71	0.0306444	0.0000000	-0.0134013	0.0000000	
Cobalt	228.61	0.0000000	0.0000000	0.0292821	0.0000000	-0.0864783
Copper	324.75	-0.0041201	-0.0088904	-0.0303118	-0.0102567	-0.2402980
Iron	273.95	0.0000000	0.0000000		0.0000000	0.0000000
Lead	220.35	-0.0132089	-0.0158272	0.0455923	0.0049716	-0.0559151
Magnesium	279.07	0.0000000	0.0000000	0.7375550		0.0000000
Manganese	257.61	0.0000000	0.0047967	0.0000000	0.0035166	-0.0563868
Nickel	231.60	0.0026934	0.0022200	0.0149625	0.0024980	0.0000000
Selenium	196.02	0.0000000	-0.0248371	-0.3997030	0.0022234	-0.0937905
Silver	328.06	0.0000000	-0.0022615	-0.0437626	0.0000000	0.0000000
Sodium	330.24	0.0000000	2.2169600	-1.3975800	0.0000000	15.0342000
Thallium	190.80	-0.0145917	0.0000000	-0.0475297	-0.0126707	0.2414790
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	-1.8214300
Zinc	206.2	0.0100228	-0.0123639	0.0000000	-0.0055224	-3.7313800

Comments:

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11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

ICP ID Number: OPTIMA3 Date: 5/2/06

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cu	Mn	Ni	Tl	Ti
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.2710340	0.0803299	-0.1483690	0.1107460	0.0000000
Arsenic	188.97	0.0000000	-0.0734661	0.0000000	0.0000000	-0.8212920
Barium	233.52	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.10	0.0000000	0.0000000	0.0000000	0.0000000	-2.4850400
Cadmium	226.50	0.0000000	0.0000000	-0.7431600	0.0000000	0.0000000
Calcium	227.54	0.0000000	0.0000000	27.8998000	-2.9218200	0.0000000
Chromium	267.71	0.1020170	0.1794120	0.0000000	0.0000000	0.0000000
Cobalt	228.61	0.0000000	0.0000000	0.1128800	0.0000000	2.0083200
Copper	324.75		0.0778443	0.0278421	-0.1679660	-0.2431640
Iron	273.95	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.3721320	0.1384500	-0.0366605	0.0000000	0.0000000
Magnesium	279.07	0.0000000	-5.8941400	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000		0.0396314	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000		0.3220400	0.7676040
Selenium	196.02	0.1256410	0.6614620	-0.0331803	0.0000000	0.0000000
Silver	328.06	0.0000000	0.1389400	0.0000000	0.0000000	0.0000000
Sodium	330.24	0.0000000	0.0000000	3.5572400	0.0000000	355.7570000
Thallium	190.80	-0.0861246	-3.1777600	-0.0304078		0.2225080
Vanadium	292.40	-0.0461948	-0.1147430	0.0000000	0.0000000	0.3612610
Zinc	206.2	-0.3413490	-0.5173320	-0.2031030	-0.6315720	-1.2384500

Comments:

U.S. EPA - CLP

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

ICP ID Number: OPTIMA3 Date: 5/2/06

Analyte	Wave-length (nm)	Interelement Correction Factors for: V	___	___	___	___
Aluminum	308.21	14.7132000				
Antimony	206.83	-1.5768100				
Arsenic	188.97	0.0000000				
Barium	233.52	-1.3488400				
Beryllium	313.10	-0.0429839				
Cadmium	226.50	0.0000000				
Calcium	227.54	46.5528000				
Chromium	267.71	-0.3488990				
Cobalt	228.61	0.0000000				
Copper	324.75	-0.1565150				
Iron	273.95	33.7382000				
Lead	220.35	-0.0431846				
Magnesium	279.07	0.0000000				
Manganese	257.61	-0.0208793				
Nickel	231.60	0.0357418				
Selenium	196.02	-0.2571400				
Silver	328.06	-3.0407300				
Sodium	330.24	4.6230200				
Thallium	190.80	2.2991600				
Vanadium	292.40					
Zinc	206.2	-0.2584910				

Comments:

U.S. EPA - CLP

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

ICP ID Number: OPTIMA3 Date: 04/01/2006

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Antimony	0.20	25000	P
Arsenic	0.20	25000	P
Barium	0.20	25000	P
Beryllium	0.20	5000	P
Cadmium	0.20	10000	P
Chromium	0.20	50000	P
Copper	0.20	25000	P
Lead	0.20	100000	P
Nickel	0.20	100000	P
Selenium	0.20	25000	P
Silver	0.20	2500	P
Thallium	0.20	25000	P
Vanadium	0.20	50000	P
Zinc	0.20	25000	P

Comments:

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	05/25/06		50
MEW-3	05/25/06		50
MEW-3CS	05/25/06		50
MEW-4	05/25/06		50
MEW-7	05/25/06		50
MEW-9	05/25/06		50
P-3	05/25/06		50
PBW	05/25/06		50

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13
PREPARATION LOG

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	05/25/06		100
MEW-3	05/25/06		140
MEW-3CS	05/25/06		138
MEW-4	05/25/06		140
MEW-7	05/25/06		140
MEW-9	05/25/06		140
P-3	05/25/06		138
PBW	05/25/06		100

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14
ANALYSIS RUN LOG

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Instrument ID Number: FIMS1 Method: CV

Start Date: 05/25/2006 End Date: 05/25/2006

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
S0	1.0	1416																X												
S0.2	1.0	1417																X												
S1.0	1.0	1419																X												
S2.0	1.0	1420																X												
S5.0	1.0	1421																X												
S10.0	1.0	1423																X												
ICV	1.0	1424																X												
ICB	1.0	1425																X												
ZZZZZZ	1.0	1427																												
ZZZZZZ	1.0	1428																												
ZZZZZZ	1.0	1429																												
ZZZZZZ	1.0	1431																												
ZZZZZZ	1.0	1432																												
ZZZZZZ	1.0	1433																												
ZZZZZZ	1.0	1435																												
ZZZZZZ	1.0	1436																												
CCV	1.0	1437																X												
CCB	1.0	1439																X												
ZZZZZZ	1.0	1440																												
ZZZZZZ	1.0	1441																												
ZZZZZZ	1.0	1443																												
ZZZZZZ	1.0	1444																												
ZZZZZZ	1.0	1445																												
ZZZZZZ	1.0	1447																												
ZZZZZZ	1.0	1448																												
ZZZZZZ	1.0	1449																												
CCV	1.0	1451																X												
CCB	1.0	1452																X												
ZZZZZZ	1.0	1453																												
ZZZZZZ	1.0	1455																												
ZZZZZZ	1.0	1456																												
ZZZZZZ	1.0	1457																												
ZZZZZZ	1.0	1459																												
ZZZZZZ	1.0	1500																												
ZZZZZZ	1.0	1501																												

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14
ANALYSIS RUN LOG

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Instrument ID Number: FIMS1 Method: CV

Start Date: 05/25/2006 End Date: 05/25/2006

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
PBW	1.0	1503																X									
CCV	1.0	1504																X									
CCB	1.0	1505																X									
LCSW	1.0	1507																X									
ZZZZZZ	1.0	1508																									
ZZZZZZ	1.0	1509																									
ZZZZZZ	1.0	1511																									
MSW-9	1.0	1512																X									
MSW-7	1.0	1513																X									
MSW-4	1.0	1515																X									
MSW-3	1.0	1516																X									
CCV	1.0	1517																X									
CCB	1.0	1519																X									
MSW-3CS	1.0	1520																X									
P-3	1.0	1521																X									
ZZZZZZ	1.0	1523																									
CCV	1.0	1524																X									
CCB	1.0	1525																X									

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14
ANALYSIS RUN LOG

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Instrument ID Number: OPTIMA3 Method: P

Start Date: 05/25/2006 End Date: 05/25/2006

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	0921			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
S1	1.0	0924			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
S2	1.0	0927			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
S3	1.0	0930			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ZZZZZZ	1.0	0933																										
ZZZZZZ	1.0	0936																										
ZZZZZZ	1.0	0939																										
ZZZZZZ	1.0	0942																										
ZZZZZZ	1.0	0945																										
ICV	1.0	0948			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ICB	1.0	0954			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ICSA	1.0	0957			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ICSAB	1.0	1000			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCV	1.0	1003			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCB	1.0	1006			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ZZZZZZ	1.0	1009																										
ZZZZZZ	1.0	1012																										
ZZZZZZ	1.0	1015																										
ZZZZZZ	1.0	1018																										
ZZZZZZ	1.0	1021																										
ZZZZZZ	5.0	1025																										
ZZZZZZ	1.0	1028																										
ZZZZZZ	1.0	1031																										
ZZZZZZ	1.0	1034																										
CCV	1.0	1037			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCB	1.0	1040			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ZZZZZZ	1.0	1043																										
ZZZZZZ	1.0	1046																										
ZZZZZZ	1.0	1049																										
ZZZZZZ	1.0	1052																										
ZZZZZZ	1.0	1055																										
ZZZZZZ	1.0	1058																										
ZZZZZZ	1.0	1101																										
ICSA	1.0	1104			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ICSAB	1.0	1107			X	X	X	X	X			X	X		X				X		X	X		X	X	X	

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14
ANALYSIS RUN LOG

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Instrument ID Number: OPTIMA3 Method: P

Start Date: 05/25/2006 End Date: 05/25/2006

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.0	1110			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCB	1.0	1113			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ZZZZZZ	1.0	1116																										
ZZZZZZ	1.0	1119																										
ZZZZZZ	1.0	1122																										
ZZZZZZ	1.0	1125																										
ZZZZZZ	1.0	1128																										
ZZZZZZ	1.0	1132																										
ZZZZZZ	1.0	1135																										
ZZZZZZ	1.0	1138																										
ZZZZZZ	1.0	1141																										
ZZZZZZ	1.0	1144																										
CCV	1.0	1147			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCB	1.0	1150			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ZZZZZZ	1.0	1153																										
ZZZZZZ	1.0	1156																										
ZZZZZZ	1.0	1159																										
ZZZZZZ	1.0	1202																										
ZZZZZZ	5.0	1205																										
ZZZZZZ	1.0	1209																										
ZZZZZZ	1.0	1212																										
ZZZZZZ	1.0	1215																										
ICSA	1.0	1218			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ICSAB	1.0	1221			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCV	1.0	1224			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCB	1.0	1228			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ZZZZZZ	1.0	1231																										
ZZZZZZ	1.0	1234																										
ZZZZZZ	1.0	1237																										
ZZZZZZ	1.0	1240																										
ZZZZZZ	1.0	1243																										
ZZZZZZ	1.0	1247																										
ZZZZZZ	1.0	1250																										
ZZZZZZ	1.0	1253																										
ZZZZZZ	1.0	1256																										

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Instrument ID Number: OPTIMA3 Method: P

Start Date: 05/25/2006 End Date: 05/25/2006

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.0	1300			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCB	1.0	1303			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ZZZZZZ	1.0	1306																										
ZZZZZZ	1.0	1309																										
ZZZZZZ	1.0	1312																										
ZZZZZZ	1.0	1315																										
ZZZZZZ	1.0	1319																										
ZZZZZZ	1.0	1322																										
ZZZZZZ	1.0	1325																										
ICSA	1.0	1328			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ICSAB	1.0	1331			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCV	1.0	1334			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCB	1.0	1337			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ZZZZZZ	1.0	1340																										
ZZZZZZ	1.0	1344																										
ZZZZZZ	1.0	1347																										
ZZZZZZ	1.0	1350																										
ZZZZZZ	1.0	1354																										
ZZZZZZ	1.0	1357																										
ZZZZZZ	1.0	1400																										
ZZZZZZ	1.0	1403																										
ZZZZZZ	1.0	1407																										
CCV	1.0	1416			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCB	1.0	1419			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ZZZZZZ	1.0	1422																										
ZZZZZZ	1.0	1425																										
ZZZZZZ	1.0	1428																										
ZZZZZZ	1.0	1432																										
ZZZZZZ	1.0	1435																										
ZZZZZZ	1.0	1438																										
ZZZZZZ	1.0	1441																										
ICSA	1.0	1450			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ICSAB	1.0	1453			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCV	1.0	1456			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCB	1.0	1459			X	X	X	X	X			X	X		X				X		X	X		X	X	X	

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14
ANALYSIS RUN LOG

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Instrument ID Number: OPTIMA3 Method: P

Start Date: 05/25/2006 End Date: 05/25/2006

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN	
ZZZZZZ	1.0	1502																										
ZZZZZZ	1.0	1506																										
ZZZZZZ	1.0	1509																										
ZZZZZZ	5.0	1513																										
ZZZZZZ	1.0	1516																										
ZZZZZZ	1.0	1525																										
ZZZZZZ	1.0	1528																										
ZZZZZZ	1.0	1531																										
ZZZZZZ	1.0	1535																										
CCV	1.0	1541			X	X	X	X	X			X	X		X				X		X	X		X	X	X		
CCB	1.0	1545			X	X	X	X	X			X	X		X				X		X	X		X	X	X		
ZZZZZZ	1.0	1548																										
ZZZZZZ	1.0	1551																										
ZZZZZZ	1.0	1554																										
ZZZZZZ	1.0	1557																										
ZZZZZZ	5.0	1601																										
ZZZZZZ	1.0	1604																										
ZZZZZZ	1.0	1607																										
ZZZZZZ	1.0	1616																										
ICSA	1.0	1632			X	X	X	X	X			X	X		X				X		X	X		X	X	X		
ICSAB	1.0	1635			X	X	X	X	X			X	X		X				X		X	X		X	X	X		
CCV	1.0	1638			X	X	X	X	X			X	X		X				X		X	X		X	X	X		
CCB	1.0	1641			X	X	X	X	X			X	X		X				X		X	X		X	X	X		
ZZZZZZ	1.0	1644																										
ZZZZZZ	1.0	1648																										
ZZZZZZ	1.0	1651																										
ZZZZZZ	1.0	1654																										
ZZZZZZ	1.0	1657																										
ZZZZZZ	1.0	1701																										
ZZZZZZ	1.0	1704																										
ZZZZZZ	1.0	1707																										
ZZZZZZ	1.0	1711																										
CCV	1.0	1714			X	X	X	X	X			X	X		X				X		X	X		X	X	X		
CCB	1.0	1717			X	X	X	X	X			X	X		X				X		X	X		X	X	X		
ZZZZZZ	1.0	1720																										

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: Mitkem Corporation Contract: 60011925.01

Lab Code: MITKEM Case No. SAS No.: SDG No.: ME0652

Instrument ID Number: OPTIMA3 Method: P

Start Date: 05/25/2006 End Date: 05/25/2006

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CO	CR	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.0	1724																									
ZZZZZZ	1.0	1727																									
ZZZZZZ	1.0	1730																									
ZZZZZZ	1.0	1734																									
ICSA	1.0	1737			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ICSAB	1.0	1740			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCV	1.0	1743			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCB	1.0	1746			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
PBW	1.0	1749			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
LCSW	1.0	1752			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ZZZZZZ	1.0	1755																									
MEW-9	1.0	1759			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
MEW-7	1.0	1802			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
MEW-4	1.0	1805			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
MEW-3	1.0	1808			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
MEW-3CS	1.0	1811			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
P-3	1.0	1814			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ZZZZZZ	1.0	1817																									
CCV	1.0	1820			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCB	1.0	1823			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ZZZZZZ	1.0	1826																									
ZZZZZZ	1.0	1829																									
ZZZZZZ	5.0	1832																									
ZZZZZZ	1.0	1835																									
ZZZZZZ	1.0	1838																									
ICSA	1.0	1842			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
ICSAB	1.0	1845			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCV	1.0	1848			X	X	X	X	X			X	X		X				X		X	X		X	X	X	
CCB	1.0	1851			X	X	X	X	X			X	X		X				X		X	X		X	X	X	

Analysis Begun

Start Time: 5/25/2006 9:21:26 AM
Logged In Analyst: optima3
Spectrometer Model: Optima 4300 DV, S/N 077N3102302Autosampler Model: AS-93plus

Plasma On Time: 5/25/2006 8:07:27 AM
Technique: ICP Continuous

Sample Information File: C:\pe\Administrator\Sample Information\643-KCOMM.sif
Batch ID:
Results Data Set: B06052501
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: S0
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 5/25/2006 9:21:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	-101.0	67.22	66.53%	[0.00]	mg/L
Al 308.215	16600.2	128.10	0.77%	[0.00]	mg/L
As 188.979	-6.9	1.49	21.76%	[0.00]	mg/L
Ba 233.527	3.0	3.16	105.78%	[0.00]	mg/L
Be 313.107	-583.3	54.47	9.34%	[0.00]	mg/L
Co 228.616	16.0	4.24	26.47%	[0.00]	mg/L
Cr 267.716	26.0	4.20	16.16%	[0.00]	mg/L
Cu 324.752	6576.3	33.04	0.50%	[0.00]	mg/L
Fe 273.955	1862.4	19.88	1.07%	[0.00]	mg/L
Mg 279.077	999.5	70.28	7.03%	[0.00]	mg/L
Mn 257.610	187.1	0.16	0.09%	[0.00]	mg/L
Ni 231.604	81.4	7.96	9.77%	[0.00]	mg/L
Pb 220.353	22.9	2.21	9.64%	[0.00]	mg/L
Sb 206.836	5.5	0.09	1.62%	[0.00]	mg/L
Se 196.026	4.2	0.55	12.92%	[0.00]	mg/L
Tl 190.801	-8.3	1.67	20.19%	[0.00]	mg/L
V 292.402	8.9	22.90	256.13%	[0.00]	mg/L
Zn 206.200	614.1	9.63	1.57%	[0.00]	mg/L
Na 330.237	-99.1	17.55	17.70%	[0.00]	mg/L
Cd 226.502	-36.3	2.50	6.88%	[0.00]	mg/L
Ti 334.940	-231.3	8.23	3.56%	[0.00]	mg/L
Ca 227.546	92.8	11.23	12.10%	[0.00]	mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 5/25/2006 9:24:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Ag 328.068	311084.7	2238.48	0.72%	[2.5]	mg/L
Al 308.215	357071.0	1969.97	0.55%	[20]	mg/L
As 188.979	1080.5	1.87	0.17%	[1]	mg/L
Ba 233.527	1073899.4	4158.27	0.39%	[20]	mg/L
Be 313.107	749633.5	1094.55	0.15%	[0.5]	mg/L
Co 228.616	124886.6	641.42	0.51%	[5]	mg/L
Cr 267.716	89188.8	82.30	0.09%	[2]	mg/L
Cu 324.752	345020.9	2622.23	0.76%	[2.5]	mg/L
Fe 273.955	257411.4	1327.83	0.52%	[10]	mg/L
Mg 279.077	857914.8	9.06	0.00%	[50]	mg/L
Mn 257.610	2286483.0	3798.52	0.17%	[5]	mg/L
Ni 231.604	104358.6	12.57	0.01%	[5]	mg/L
Pb 220.353	3787.2	25.22	0.67%	[1]	mg/L

Sb 206.836	1807.6	9.05	0.50%	[1] mg/L
Se 196.026	646.6	3.66	0.57%	[1] mg/L
Tl 190.801	1390.1	2.40	0.17%	[1] mg/L
V 292.402	448353.8	2216.90	0.49%	[5] mg/L
Zn 206.200	86027.4	641.32	0.75%	[5] mg/L
Na 330.237	36276.3	310.52	0.86%	[50] mg/L
Cd 226.502	12125.9	22.31	0.18%	[0.5] mg/L
Ti 334.940	546015.5	778.47	0.14%	[1] mg/L
Ca 227.546	10820.0	46.38	0.43%	[50] mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 5/25/2006 9:27:33 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Ag 328.068	157012.1	768.51	0.49%	[1.25]	mg/L
Al 308.215	177472.3	662.41	0.37%	[10]	mg/L
As 188.979	546.2	3.70	0.68%	[0.5]	mg/L
Ba 233.527	553952.0	15392.36	2.78%	[10]	mg/L
Be 313.107	380498.3	11339.00	2.98%	[0.25]	mg/L
Co 228.616	64109.7	270.64	0.42%	[2.5]	mg/L
Cr 267.716	45899.0	238.97	0.52%	[1]	mg/L
Cu 324.752	168427.7	585.50	0.35%	[1.25]	mg/L
Fe 273.955	131608.9	345.24	0.26%	[5]	mg/L
Mg 279.077	428044.2	1399.99	0.33%	[25]	mg/L
Mn 257.610	1170080.1	35906.09	3.07%	[2.5]	mg/L
Ni 231.604	54368.3	255.54	0.47%	[2.5]	mg/L
Pb 220.353	1951.1	16.13	0.83%	[0.5]	mg/L
Sb 206.836	911.6	7.53	0.83%	[0.5]	mg/L
Se 196.026	327.2	1.07	0.33%	[0.5]	mg/L
Tl 190.801	708.5	11.04	1.56%	[0.5]	mg/L
V 292.402	224762.3	1419.05	0.63%	[2.5]	mg/L
Zn 206.200	44809.6	37.32	0.08%	[2.5]	mg/L
Na 330.237	17040.2	109.07	0.64%	[25]	mg/L
Cd 226.502	6179.8	71.53	1.16%	[0.25]	mg/L
Ti 334.940	275691.1	8693.71	3.15%	[0.5]	mg/L
Ca 227.546	5389.3	37.85	0.70%	[25]	mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 5/25/2006 9:30:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Ag 328.068	3248.8	54.43	1.68%	[0.025]	mg/L
Al 308.215	3367.2	67.94	2.02%	[0.2]	mg/L
As 188.979	8.1	0.62	7.63%	[0.01]	mg/L
Ba 233.527	11287.6	13.23	0.12%	[0.2]	mg/L
Be 313.107	7576.2	58.43	0.77%	[0.005]	mg/L
Co 228.616	1304.2	7.89	0.61%	[0.05]	mg/L
Cr 267.716	905.7	10.28	1.13%	[0.02]	mg/L
Cu 324.752	3551.5	65.88	1.86%	[0.025]	mg/L
Fe 273.955	2559.6	60.79	2.38%	[0.1]	mg/L
Mg 279.077	8669.1	34.79	0.40%	[0.5]	mg/L
Mn 257.610	23817.7	96.67	0.41%	[0.05]	mg/L
Ni 231.604	1094.4	1.74	0.16%	[0.05]	mg/L
Pb 220.353	45.4	3.72	8.19%	[0.01]	mg/L
Sb 206.836	21.5	5.21	24.25%	[0.01]	mg/L
Se 196.026	2.9	1.66	57.77%	[0.01]	mg/L
Tl 190.801	17.1	2.13	12.40%	[0.01]	mg/L

V 292.402	4569.7	54.07	1.18%	[0.05] mg/L
Zn 206.200	1202.8	23.23	1.93%	[0.05] mg/L
Na 330.237	194.3	76.82	39.54%	[0.5] mg/L
Cd 226.502	125.6	1.66	1.32%	[0.005] mg/L
Ti 334.940	5502.8	17.83	0.32%	[0.01] mg/L
Ca 227.546	99.6	12.71	12.77%	[0.5] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	124700	0.00000	0.999993	
Al 308.215	3	Lin Thru 0	0.0	17830	0.00000	0.999997	
As 188.979	3	Lin Thru 0	0.0	1083	0.00000	0.999988	
Ba 233.527	3	Lin Thru 0	0.0	54040	0.00000	0.999921	
Be 313.107	3	Lin Thru 0	0.0	1504000	0.00000	0.999982	
Co 228.616	3	Lin Thru 0	0.0	25110	0.00000	0.999944	
Cr 267.716	3	Lin Thru 0	0.0	44860	0.00000	0.999932	
Cu 324.752	3	Lin Thru 0	0.0	137400	0.00000	0.999955	
Fe 273.955	3	Lin Thru 0	0.0	25860	0.00000	0.999960	
Mg 279.077	3	Lin Thru 0	0.0	17150	0.00000	1.000000	
Mn 257.610	3	Lin Thru 0	0.0	459400	0.00000	0.999956	
Ni 231.604	3	Lin Thru 0	0.0	21050	0.00000	0.999862	
Pb 220.353	3	Lin Thru 0	0.0	3810	0.00000	0.999926	
Sb 206.836	3	Lin Thru 0	0.0	1811	0.00000	0.999993	
Se 196.026	3	Lin Thru 0	0.0	648.2	0.00000	0.999976	
Tl 190.801	3	Lin Thru 0	0.0	1395	0.00000	0.999968	
V 292.402	3	Lin Thru 0	0.0	89720	0.00000	0.999999	
Zn 206.200	3	Lin Thru 0	0.0	17350	0.00000	0.999857	
Na 330.237	3	Lin Thru 0	0.0	716.7	0.00000	0.999691	
Cd 226.502	3	Lin Thru 0	0.0	24350	0.00000	0.999970	
Ti 334.940	3	Lin Thru 0	0.0	547100	0.00000	0.999992	
Ca 227.546	3	Lin Thru 0	0.0	216.2	0.00000	0.999999	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 5/25/2006 9:33:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	307457.8	2.4811	mg/L	0.04134	2.4811	mg/L	0.04134	1.67%
Al 308.215	358654.3	20.024	mg/L	0.0220	20.024	mg/L	0.0220	0.11%
As 188.979	1071.1	1.0029	mg/L	0.00904	1.0029	mg/L	0.00904	0.90%
Ba 233.527	1075543.6	19.911	mg/L	0.0667	19.911	mg/L	0.0667	0.34%
Be 313.107	744473.2	0.4977	mg/L	0.00336	0.4977	mg/L	0.00336	0.67%
Co 228.616	125195.8	4.9831	mg/L	0.00254	4.9831	mg/L	0.00254	0.05%
Cr 267.716	89265.4	1.9902	mg/L	0.01790	1.9902	mg/L	0.01790	0.90%
Cu 324.752	340991.1	2.4848	mg/L	0.03862	2.4848	mg/L	0.03862	1.55%
Fe 273.955	258473.6	9.8292	mg/L	0.01463	9.8292	mg/L	0.01463	0.15%
Mg 279.077	853010.3	49.757	mg/L	0.3269	49.757	mg/L	0.3269	0.66%
Mn 257.610	2277928.4	4.9576	mg/L	0.01426	4.9576	mg/L	0.01426	0.29%
Ni 231.604	104620.4	4.9694	mg/L	0.02680	4.9694	mg/L	0.02680	0.54%
Pb 220.353	3787.8	0.9942	mg/L	0.00849	0.9942	mg/L	0.00849	0.85%
Sb 206.836	1791.6	0.9702	mg/L	0.00823	0.9702	mg/L	0.00823	0.85%
Se 196.026	646.4	1.0003	mg/L	0.00719	1.0003	mg/L	0.00719	0.72%
Tl 190.801	1375.4	0.9915	mg/L	0.00950	0.9915	mg/L	0.00950	0.96%
V 292.402	444008.3	4.9529	mg/L	0.07409	4.9529	mg/L	0.07409	1.50%
Zn 206.200	86832.4	5.0204	mg/L	0.03322	5.0204	mg/L	0.03322	0.66%
Na 330.237	36292.5	50.117	mg/L	0.0711	50.117	mg/L	0.0711	0.14%
Cd 226.502	12271.5	0.5073	mg/L	0.00720	0.5073	mg/L	0.00720	1.42%
Ti 334.940	542879.5	0.9923	mg/L	0.00462	0.9923	mg/L	0.00462	0.47%
Ca 227.546	10806.5	49.360	mg/L	0.2742	49.360	mg/L	0.2742	0.56%

Sequence No.: 6
Sample ID: LRA

Autosampler Location: 12
Date Collected: 5/25/2006 9:36:50 AM

FIMSL-060525A

7471
23881 E0653 01-19

UK ov 5/25/06

7470
23882 E0646 10A (TCLP, 23844)

E0652701-06A 5/25/06 UK

Method Name: Mercury
Method Description: Mercury
Element: Hg

Date: 05/25/2006
Technique:FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: QW.SIF

Results Data Set Name: H0605251

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 05/25/2006
Sample ID: S0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0000	-0.0016	0.0000	02:15:58	Yes
2			0.0000	-0.0011	0.0000	02:16:27	Yes
Mean:			0.0000				
SD :			0.0000				
%RSD:			155.4179				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 05/25/2006
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0035	0.0185	0.0034	02:17:18	Yes
2			0.0038	0.0223	0.0038	02:17:47	Yes
Mean:			0.0036				
SD :			0.0002				
%RSD:			6.4061				

[Hg] Standard number 1 applied. [0.20]
Correlation Coefficient: 1.00000 Slope: 0.01811

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 05/25/2006
Sample ID: S1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0195	0.1063	0.0195	02:18:38	Yes
2			0.0196	0.1078	0.0196	02:19:07	Yes
Mean:			0.0196				
SD :			0.0001				
%RSD:			0.3082				

[Hg] Standard number 2 applied. [1.00]
Correlation Coefficient: 0.99966 Slope: 0.01954

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 05/25/2006
Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0413	0.2137	0.0413	02:19:58	Yes
2			0.0411	0.2116	0.0410	02:20:27	Yes
Mean:			0.0412				
SD :			0.0002				
%RSD:			0.3679				

[Hg] Standard number 3 applied. [2.00]
Correlation Coefficient: 0.99927 Slope: 0.02037

0055

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 05/25/2006
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1009	0.5238	0.1009	02:21:18	Yes
2			0.1014	0.5261	0.1014	02:21:47	Yes
Mean:			0.1012				
SD :			0.0004				
%RSD:			0.3474				

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99990 Slope: 0.02026

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 05/25/2006
Sample ID: S10.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1907	0.9859	0.1907	02:22:38	Yes
2			0.1895	0.9750	0.1895	02:23:07	Yes
Mean:			0.1901				
SD :			0.0009				
%RSD:			0.4638				

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99922 Slope: 0.01931

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
S0	0.0000	--	----	----	----
S0.2	0.0036	0.20	0.19	0.000	6.4
S1.0	0.0196	1.00	1.01	0.000	0.3
S2.0	0.0412	2.00	2.13	0.000	0.4
S5.0	0.1012	5.00	5.24	0.000	0.3
S10.0	0.1901	10.00	9.84	0.001	0.5
Correlation Coefficient: 0.99922		Slope:	0.01931	----	

Element: Hg Seq. No.: 7 AS Loc.: 7 Date: 05/25/2006
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.72	4.72	0.0912	0.4612	0.0912	02:23:57	Yes
2	4.72	4.72	0.0912	0.4620	0.0912	02:24:26	Yes
Mean:	4.72	4.72	0.0912				
SD :	0.002	0.002	0.0000				
%RSD:							

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 1 Date: 05/25/2006
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0003	0.0011	0.0003	02:25:19	Yes
2	0.02	0.02	0.0004	0.0020	0.0004	02:25:49	Yes
Mean:	0.02	0.02	0.0003				
SD :	0.003	0.003	0.0001				
%RSD:	16.3	16.3	16.3061				

QC value within specified limits.

0056

Mitkem Corporation

19/May/06 12:11

WorkOrder: E0652

Client ID: M_E
Project: M&E - MASS Brownfields
Location:
Comments: Presumptive certainty form needed.

Case:
SDG:
PO:

Report Level: LEVEL 3
EDD:
HC Due: 06/09/06
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Lab Test Comments	Iold	MS	SEL	Storage
E0652-01A	MEW-9	05/18/06 12:15	05/19/06	Aqueous	SW6010B_W	Plus Ba, V	☐	☐	☑	M3
					SW7470A	Plus Ba, V	☐	☐	☑	M3
E0652-02A	MEW-7	05/18/06 12:30	05/19/06	Aqueous	SW6010B_W	Plus Ba, V	☐	☐	☑	M3
					SW7470A	Plus Ba, V	☐	☐	☑	M3
E0652-03A	MEW-4	05/18/06 14:55	05/19/06	Aqueous	SW6010B_W	Plus Ba, V	☐	☐	☑	M3
					SW7470A	Plus Ba, V	☐	☐	☑	M3
E0652-04A	MEW-3	05/18/06 15:20	05/19/06	Aqueous	SW6010B_W	Plus Ba, V	☐	☐	☑	M3
					SW7470A	Plus Ba, V	☐	☐	☑	M3
E0652-05A	MEW-3CS	05/18/06 15:30	05/19/06	Aqueous	SW6010B_W	Plus Ba, V	☐	☐	☑	M3
					SW7470A	Plus Ba, V	☐	☐	☑	M3
E0652-06A	P-3	05/18/06 17:00	05/19/06	Aqueous	SW6010B_W	Plus Ba, V	☐	☐	☑	M3
					SW7470A	Plus Ba, V	☐	☐	☑	M3

Client Rep: Edward A Lawler

0057

M&E Metcalf & Eddy

CHAIN OF CUSTODY FORM

Job/Project Name: Mill St, Brookfield, MA	Job/Project Location: Brookfield, MA	Job/Project Number: 60011925.01
Samplers: (Signatures) Cindy Cotter	Recorder: (Signature) Cindy Cotter	Date: 5/18/06
Lab (Samples Sent To): mitkem Corp.		

SAMPLING Date	SAMPLING Time	SAMPLE NUMBER	SAMPLE LOCATION	MATRIX: Water	MATRIX: Soil	COMPOSITE/GRAB	PRESERVATIVE (Y/N)	ANALYSIS REQUESTED: metals *	ANALYSIS REQUESTED: Total #	COMMENTS
5/18/06	1215	MEW-9	—	X		G	Y	1	1	
5/18/06	1230	MEW-7	—	X		G	Y	1	1	
5/18/06	1455	MEW-4	—	X		G	Y	1	1	
5/18/06	1520	MEW-3	—	X		G	Y	1	1	
5/18/06	1530	MEW-3CS	—	X		G	Y	1	1	
5/18/06	1700	P-3	—	X		G	Y	1	1	

Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	~~Received~~ By: (Signature)
Cindy Cotter	5/19/06	0930			5/19/06	9:30	
Relinquished By: (Signature)	Date:	Time:	Relinquished By: (Signature)	Relinquished By: (Signature)	Date:	Time:	Received By: (Signature)
Relinquished By: (Signature)	Date:	Time:	Received for Lab By: (Signature)	Date:	Time:	Comments: * see work order for list of metals required. 5°C	
			Dennis DeCosta	5/19/06	11:40		

Method of Shipment: courier

Distribution: **Original** to Lab. **Copy 1** to Field Files, **Copy 2** to Project Manager

Form 274 (Rev. 5/89)

0058

MITKEM CORPORATION
Sample Condition Form

Received By: DKD | Reviewed By: | Date: 5/19/06 | MITKEM Project #E0652

Client Project: | Client: M x E

Cooler Sealed (Yes) / No

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

2) Custody Seal Number(s) N/A

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

4) Cooler Temperature 5°C
Coolant Condition ice

5) Airbill(s) Present / (Absent)
Airbill Number(s) pickup

6) Sample Bottles (Intact)/Broken/Leakin

7) Date Received 5/19/06

8) Time Received 11:40

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"
E0652	01	<2					
	02						
	03						
	04						
	05						
E0652	06	<2					

DKD 5/19/06

VOA Matrix Key:
US = Unpreserved Soil **A** = Air
UA = Unpreserved Aqueo **H** = HCl
M/N= MeOH & $NaHSO_4$ **E** = Encore
N = $NaHSO_4$ **M** =MeOH

See Sample Condition Notification/Corrective Action Form yes / no

Rad OK yes/ no

Form ID: SampleCond.Form-11/04

Last Page of Data Report

APPENDIX G

Boring Logs from ES&M Investigation (ES&M, 2007)

Project No: 2006-072

Project: SARSS Brookfield 06

Client: MassDEP

Site Location: Mill St. Brookfield, MA

Borehole Number: ESMB-01

Field Geologist: LM

Environmental Strategies & Management, Inc.
184 West Main Street
Norton, MA 02766
508-285-9700

SUBSURFACE PROFILE				SAMPLE			PID Results (ppm) 200 400 600 800	Remarks
Depth	Symbol	Description	Depth/Elev.	Number	Recovery	Symbol		
0		Ground Surface	0					
		dry, brown fill, SAND, brick	0					
			-2					
2		damp, black to grey-green, medium to coarse SAND	2	1			0.0	
			-4					
4		damp, green-brown to black, coarse SAND	4					
			-6				1.7	
6		damp, brown, medium SAND, trace organic matter (woody fiberous layers)	6	2				
			-8					
8		End of Borehole	8					
10								

Drilled By: PSA

Hole Size: 2"

Drill Method: VibraDrill

Drill Date: 11/28/06

Sheet: 1 of 1

Project No: 2006-072

Project: SARSS Brookfield 06

Client: MassDEP

Site Location: Mill St. Brookfield, MA

Borehole Number: ESMB-02

Field Geologist: LM

Environmental Strategies & Management, Inc.
184 West Main Street
Norton, MA 02766
508-285-9700

SUBSURFACE PROFILE				SAMPLE			PID Results (ppm) 200 400 600 800	Remarks
Depth	Symbol	Description	Depth/Elev.	Number	Recovery	Symbol		
0		Ground Surface	0					
0–2		dry, brown, coarse to medium SAND	0 to -2	1			0.0	
2–4		damp, black to greenish grey, coarse to medium SAND, silty clay horizon at 3.5'	2 to -4					
4–6		damp, brown, silty coarse to medium SAND	4 to -6	2			0.0	
6–8		damp, grey, medium SAND	6 to -8					
8		End of Borehole	8					

Drilled By: PSA

Drill Method: VibraDrill

Drill Date: 11/28/06

Hole Size: 2"

Sheet: 1 of 1

Project No: 2006-072

Project: SARSS Brookfield 06

Client: MassDEP

Site Location: Mill St. Brookfield, MA

Borehole Number: ESMB-03

Field Geologist: LM

Environmental Strategies & Management, Inc.
184 West Main Street
Norton, MA 02766
508-285-9700

SUBSURFACE PROFILE				SAMPLE			PID Results (ppm) 200 400 600 800	Remarks
Depth	Symbol	Description	Depth/Elev.	Number	Recovery	Symbol		
0		Ground Surface	0					
		damp, brown, coarse SAND	0					
1								
			-2	1			0.0	
2		damp, green, coarse SAND, trace gravel and woody organics	2					
3								
			-4					
4		damp, brown, coarse SAND	4					
			-5					
5		damp, grey, coarse to medium SAND, trace gravel	5					
6				2			0.0	
7								
			-8					
8		End of Borehole	8					
9								
10								

Drilled By: PSA

Hole Size: 2"

Drill Method: VibraDrill

Drill Date: 11/28/06

Sheet: 1 of 1

Project No: 2006-072

Project: SARSS Brookfield 06

Client: MassDEP

Site Location: Mill St. Brookfield, MA

Borehole Number: ESMB-04

Field Geologist: LM

Environmental Strategies & Management, Inc.
184 West Main Street
Norton, MA 02766
508-285-9700

SUBSURFACE PROFILE				SAMPLE			PID Results (ppm) 200 400 600 800	Remarks
Depth	Symbol	Description	Depth/Elev.	Number	Recovery	Symbol		
0		Ground Surface	0					
		damp, brown, medium to coarse SAND	0					
1								
			-2				0.0	
2		damp, black to greenish grey, medium SAND	2	1				
3								
			-4					
4		damp, black to green, coarse SAND, trace gravel	4					
5								
			-6				0.0	
6		damp, brown, coarse SAND and GRAVEL	6	2				
7								
			-8					
8		End of Borehole	8					
9								
10								

Drilled By: PSA

Hole Size: 2"

Drill Method: VibraDrill

Drill Date: 11/28/06

Sheet: 1 of 1

Project No: 2006-072

Project: SARSS Brookfield 06

Client: MassDEP

Site Location: Mill St. Brookfield, MA

Borehole Number: ESMB-05

Field Geologist: LM

Environmental Strategies & Management, Inc.
184 West Main Street
Norton, MA 02766
508-285-9700

SUBSURFACE PROFILE				SAMPLE			PID Results (ppm) 200 400 600 800	Remarks
Depth	Symbol	Description	Depth/Elev.	Number	Recovery	Symbol		
0		Ground Surface	0					
		damp, brown, coarse SAND	0					
1								
2				1			0.0	
			-3					
3		damp, black, coarse SAND and GRAVEL	3					
			-4					
4		damp, black, fine to medium SAND	4					
			-5					
5		damp, greenish medium SAND, trace gravel	5					
			-6					
6		damp, brown, coarse SAND	6	2			0.0	
7								
			-8					
8		End of Borehole	8					
9								
10								

Drilled By: PSA

Drill Method: VibraDrill

Drill Date: 11/28/06

Hole Size: 2"

Sheet: 1 of 1

APPENDIX H

Laboratory Data – Soil, ES&M Investigation (ES&M, 2007)

GROUNDWATER ANALYTICAL

Groundwater Analytical, Inc.
P.O. Box 1200
228 Main Street
Buzzards Bay, MA 02532

Telephone (508) 759-4441
FAX (508) 759-4475
www.groundwateranalytical.com

December 14, 2006

Ms. Amanda Feeman
Environmental Strategies & Management, Inc.
184 West Main Street
Norton, MA 02766

LABORATORY REPORT

Project: **SARSS Brookfield/2006-072**
Lab ID: **101672**
Received: **11-30-06**

Dear Amanda:

Enclosed are the analytical results for the above referenced project. The project was processed for Standard turnaround.

This letter authorizes the release of the analytical results, and should be considered a part of this report. This report contains a sample receipt report detailing the samples received, a project narrative indicating project changes and non-conformances, a quality control report, and a statement of our state certifications.

The analytical results contained in this report meet all applicable NELAC standards, except as may be specifically noted, or described in the project narrative. This report may only be used or reproduced in its entirety.

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Should you have any questions concerning this report, please do not hesitate to contact me.

Sincerely,

Eric H. Jensen
Operations Manager

EHJ/jmp
Enclosures

GROUNDWATER ANALYTICAL

Sample Receipt Report

Project: **SARSS Brookfield/2006-072** Delivery: **GWA Courier** Temperature: **2.0'C**
Client: **Environmental Strategies & Management, Inc.** Airbill: **n/a** Chain of Custody: **Present**
Lab ID: **101672** Lab Receipt: **11-30-06** Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
101672-1	Esmb-1 0-4		Soil	11/28/06 9:15	EPA 6010B Sb As Ba Be Cd Cr Cu Pb Ni Se Ag Tl V Zn Total EPA 7471A Hg				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C855002	250 mL Glass	Proline	BX24158	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
101672-2	Esmb-1 4-8		Soil	11/28/06 9:15	EPA 6010B Sb As Ba Be Cd Cr Cu Pb Ni Se Ag Tl V Zn Total EPA 7471A Hg				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C803479	250 mL Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
101672-3	Esmb-2 0-4		Soil	11/28/06 12:00	EPA 6010B Sb As Ba Be Cd Cr Cu Pb Ni Se Ag Tl V Zn Total EPA 7471A Hg				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C893999	250 mL Glass	Proline	BX24158	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
101672-4	Esmb-2 4-8		Soil	11/28/06 12:00	EPA 6010B Sb As Ba Be Cd Cr Cu Pb Ni Se Ag Tl V Zn Total EPA 7471A Hg				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C803482	250 mL Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
101672-5	Esmb-3 0-4		Soil	11/28/06 11:15	EPA 6010B Sb As Ba Be Cd Cr Cu Pb Ni Se Ag Tl V Zn Total EPA 7471A Hg				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C855001	250 mL Glass	Proline	BX24158	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
101672-6	Esmb-3 4-8		Soil	11/28/06 11:15	EPA 6010B Sb As Ba Be Cd Cr Cu Pb Ni Se Ag Tl V Zn Total EPA 7471A Hg				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C803481	250 mL Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
101672-7	Esmb-4 0-4		Soil	11/28/06 10:30	EPA 6010B Sb As Ba Be Cd Cr Cu Pb Ni Se Ag Tl V Zn Total EPA 7471A Hg				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C893993	250 mL Glass	Proline	BX24158	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
101672-8	Esmb-4 4-8		Soil	11/28/06 10:30	EPA 6010B Sb As Ba Be Cd Cr Cu Pb Ni Se Ag Tl V Zn Total EPA 7471A Hg				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C803480	250 mL Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
101672-9	Esmb-5 0-4		Soil	11/28/06 9:45	EPA 6010B Sb As Ba Be Cd Cr Cu Pb Ni Se Ag Tl V Zn Total EPA 7471A Hg				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C855000	250 mL Glass	Proline	BX24158	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Sample Receipt Report (Continued)

Project: **Sarss Brookfield/2006-072** Delivery: **GWA Courier** Temperature: **2.0'C**
Client: **Environmental Strategies & Management, Inc.** Airbill: **n/a** Chain of Custody: **Present**
Lab ID: **101672** Lab Receipt: **11-30-06** Custody Seal(s): **n/a**

Lab ID	Field ID		Matrix	Sampled	Method				Notes
101672-10	Esmb-5 4-8		Soil	11/28/06 9:45	EPA 6010B Sb As Ba Be Cd Cr Cu Pb Ni Se Ag Tl V Zn Total EPA 7471A Hg				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C803477	250 mL Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
101672-11	Esmb-3 0-4		Soil	11/28/06 11:15	EPA 6010B Sb As Ba Be Cd Cr Cu Pb Ni Se Ag Tl V Zn Total EPA 7471A Hg				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C803476	250 mL Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
101672-12	Dup 01		Soil	11/28/06 12:00	EPA 6010B Sb As Ba Be Cd Cr Cu Pb Ni Se Ag Tl V Zn Total EPA 7471A Hg				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C803478	250 mL Glass	n/a	n/a	None	n/a	n/a	n/a		

Lab ID	Field ID		Matrix	Sampled	Method				Notes
101672-13	Esmb-3 0-4		Soil	11/28/06 11:15	EPA 6010B Cu Pb Ni Ag Tl Sb As Ba Be Cd Cr V Zn Se Total EPA 7471A Hg				
Con ID	**Container**	**Vendor**	**QC Lot**	**Preserv**	**QC Lot**	**Prep**	**Ship**		
C803100	40 mL VOA Vial	n/a	n/a	None	n/a	n/a	n/a		

GROUNDWATER ANALYTICAL

Data Certification

Project:	**SARSS Brookfield/2006-072**	Lab ID:	**101672**
Client:	**Environmental Strategies & Management, Inc.**	Received:	**11-30-06 18:00**

MA DEP Compendium of Analytical Methods

Project Location: **n/a** MA DEP RTN: **n/a**

This Form provides certifications for the following data set:

EPA 6010B: 101672-01,-02,-03,-04,-05,-06,-07,-08,-09,10,11,12,13
EPA 7470A/1A: 101672-01,-02,-03,-04,-05,-06,-07,-08,-09,10,11,12,13

Sample Matrices:	Groundwater ( )	Soil/Sediment (X)	Drinking Water ( )	Other ( )	
MCP SW-846 Methods Used	8260B ( )	8151A ( )	8330 ( )	6010B (X)	7470A/1A (X)
	8270C ( )	8081A ( )	VPH ( )	6020 ( )	9012A[2] ( )
As specified in MA DEP Compendium of Analytical Methods. (check all that apply)	8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other ( )
	1. List Release Tracking Number (RTN), if known.				
	2. SW-846 Method 9012A (Equivalent to 9014) or MA DEP Physiologically Available Cyanide (PAC) Method				
	3. S - SW-846 Methods 7000 Series. List individual method and analyte.				

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status.

A.	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	Yes
B.	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	Yes
C.	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty," as described in Section 2.0 of the MA DEP document CAM VII A, *Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data* ?	Yes
D.	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	n/a

A response to questions E and F below is required for "Presumptive Certainty" status.

E.	Were all QC performance standards and recommendations for the specified methods achieved?	Yes
F.	Were results for all analyte-list compounds/elements for the specified method(s) reported?	No

All No answers are addressed in the attached Project Narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Operations Manager

Printed Name: Eric H. Jensen Date: 12-14-06

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**Esmb-1 0-4**	Matrix:	**Soil**
Project:	**SARSS Brookfield/2006-072**	Container:	**250 mL Glass**
Client:	**Environmental Strategies & Management, Inc.**	Preservation:	**Cool**
Laboratory ID:	**101672-01**	Percent Solids:	**87**
Sampled:	**11-28-06 09:15**		
Received:	**11-30-06 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01031-S	EPA 3050B	12-04-06 09:49	0.509 g	ICP-1 PE 3000	MFP
EPA 7471A[2]	MP-2060-S	EPA 7471A	12-04-06 08:00	0.6 g	CVAA-1 PE FIMS	JBH

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	BRL		mg/Kg	1.1	1	12-04-06 17:21	EPA 6010B[1]
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.4	1	12-04-06 17:21	EPA 6010B[1]
7440-39-3	Barium, Total	**44**		mg/Kg	23	1	12-04-06 17:21	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.34	1	12-04-06 17:21	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.56	1	12-04-06 17:21	EPA 6010B[1]
7440-47-3	Chromium, Total	**23**		mg/Kg	11	1	12-04-06 17:21	EPA 6010B[1]
7439-92-1	Lead, Total	**18**		mg/Kg	11	1	12-04-06 17:21	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/Kg	0.039	1	12-04-06 13:10	EPA 7471A[2]
7440-02-0	Nickel, Total	BRL		mg/Kg	11	1	12-04-06 17:21	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	11	1	12-04-06 17:21	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	5.6	1	12-04-06 17:21	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	5.6	1	12-04-06 17:21	EPA 6010B[1]
7440-62-2	Vanadium, Total	**19**		mg/Kg	5.6	1	12-04-06 17:21	EPA 6010B[1]
7440-66-6	Zinc, Total	BRL		mg/Kg	56	1	12-04-06 17:21	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**Esmb-1 4-8**	Matrix:	**Soil**
Project:	**SARSS Brookfield/2006-072**	Container:	**250 mL Glass**
Client:	**Environmental Strategies & Management, Inc.**	Preservation:	**Cool**
Laboratory ID:	**101672-02**	Percent Solids:	**78**
Sampled:	**11-28-06 09:15**		
Received:	**11-30-06 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01031-S	EPA 3050B	12-04-06 09:49	0.509 g	ICP-1 PE 3000	MFP
EPA 7471A[2]	MP-2060-S	EPA 7471A	12-04-06 08:00	0.6 g	CVAA-1 PE FIMS	JBH

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	**2.6**		mg/Kg	1.3	1	12-04-06 17:24	EPA 6010B[1]
7440-38-2	Arsenic, Total	**8.9**		mg/Kg	3.8	1	12-04-06 17:24	EPA 6010B[1]
7440-39-3	Barium, Total	**150**		mg/Kg	25	1	12-04-06 17:24	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.38	1	12-04-06 17:24	EPA 6010B[1]
7440-43-9	Cadmium, Total	**1.3**		mg/Kg	0.63	1	12-04-06 17:24	EPA 6010B[1]
7440-47-3	Chromium, Total	**16**		mg/Kg	13	1	12-04-06 17:24	EPA 6010B[1]
7439-92-1	Lead, Total	**220**		mg/Kg	13	1	12-04-06 17:24	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.079**		mg/Kg	0.044	1	12-04-06 13:14	EPA 7471A[2]
7440-02-0	Nickel, Total	**16**		mg/Kg	13	1	12-04-06 17:24	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	13	1	12-04-06 17:24	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	6.3	1	12-04-06 17:24	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	6.3	1	12-04-06 17:24	EPA 6010B[1]
7440-62-2	Vanadium, Total	**25**		mg/Kg	6.3	1	12-04-06 17:24	EPA 6010B[1]
7440-66-6	Zinc, Total	**580**		mg/Kg	63	1	12-04-06 17:24	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**Esmb-2 0-4**	Matrix:	**Soil**
Project:	**SARSS Brookfield/2006-072**	Container:	**250 mL Glass**
Client:	**Environmental Strategies & Management, Inc.**	Preservation:	**Cool**
Laboratory ID:	**101672-03**	Percent Solids:	**84**
Sampled:	**11-28-06 12:00**		
Received:	**11-30-06 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01031-S	EPA 3050B	12-04-06 09:49	0.52 g	ICP-1 PE 3000	MFP
EPA 7471A[2]	MP-2060-S	EPA 7471A	12-04-06 08:00	0.6 g	CVAA-1 PE FIMS	JBH

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	BRL		mg/Kg	1.1	1	12-04-06 17:27	EPA 6010B[1]
7440-38-2	Arsenic, Total	**4.8**		mg/Kg	3.4	1	12-04-06 17:27	EPA 6010B[1]
7440-39-3	Barium, Total	**64**		mg/Kg	23	1	12-04-06 17:27	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.34	1	12-04-06 17:27	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.57	1	12-04-06 17:27	EPA 6010B[1]
7440-47-3	Chromium, Total	**22**		mg/Kg	11	1	12-04-06 17:27	EPA 6010B[1]
7439-92-1	Lead, Total	**12**		mg/Kg	11	1	12-04-06 17:27	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.49**		mg/Kg	0.04	1	12-04-06 13:17	EPA 7471A[2]
7440-02-0	Nickel, Total	BRL		mg/Kg	11	1	12-04-06 17:27	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	11	1	12-04-06 17:27	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	5.7	1	12-04-06 17:27	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	5.7	1	12-04-06 17:27	EPA 6010B[1]
7440-62-2	Vanadium, Total	**37**		mg/Kg	5.7	1	12-04-06 17:27	EPA 6010B[1]
7440-66-6	Zinc, Total	BRL		mg/Kg	57	1	12-04-06 17:27	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**Esmb-2 4-8**	Matrix:	**Soil**
Project:	**SARSS Brookfield/2006-072**	Container:	**250 mL Glass**
Client:	**Environmental Strategies & Management, Inc.**	Preservation:	**Cool**
Laboratory ID:	**101672-04**	Percent Solids:	**86**
Sampled:	**11-28-06 12:00**		
Received:	**11-30-06 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01031-S	EPA 3050B	12-04-06 09:49	0.51 g	ICP-1 PE 3000	MFP
EPA 7471A[2]	MP-2060-S	EPA 7471A	12-04-06 08:00	0.6 g	CVAA-1 PE FIMS	JBH

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	BRL		mg/Kg	1.1	1	12-04-06 17:31	EPA 6010B[1]
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.4	1	12-04-06 17:31	EPA 6010B[1]
7440-39-3	Barium, Total	**71**		mg/Kg	23	1	12-04-06 17:30	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.34	1	12-04-06 17:30	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.57	1	12-04-06 17:31	EPA 6010B[1]
7440-47-3	Chromium, Total	**18**		mg/Kg	11	1	12-04-06 17:31	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/Kg	11	1	12-04-06 17:31	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/Kg	0.039	1	12-04-06 13:20	EPA 7471A[2]
7440-02-0	Nickel, Total	**23**		mg/Kg	11	1	12-04-06 17:31	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	11	1	12-04-06 17:31	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	5.7	1	12-04-06 17:30	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	5.7	1	12-04-06 17:31	EPA 6010B[1]
7440-62-2	Vanadium, Total	**35**		mg/Kg	5.7	1	12-04-06 17:30	EPA 6010B[1]
7440-66-6	Zinc, Total	BRL		mg/Kg	57	1	12-04-06 17:30	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**Esmb-3 0-4**	Matrix:	**Soil**
Project:	**SARSS Brookfield/2006-072**	Container:	**250 mL Glass**
Client:	**Environmental Strategies & Management, Inc.**	Preservation:	**Cool**
Laboratory ID:	**101672-05**	Percent Solids:	**83**
Sampled:	**11-28-06 11:15**		
Received:	**11-30-06 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01031-S	EPA 3050B	12-04-06 09:49	0.505 g	ICP-1 PE 3000	MFP
EPA 7471A[2]	MP-2060-S	EPA 7471A	12-04-06 08:00	0.6 g	CVAA-1 PE FIMS	JBH

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	BRL		mg/Kg	1.2	1	12-04-06 17:40	EPA 6010B[1]
7440-38-2	Arsenic, Total	**4.2**		mg/Kg	3.6	1	12-04-06 17:40	EPA 6010B[1]
7440-39-3	Barium, Total	**800**		mg/Kg	24	1	12-04-06 17:39	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.36	1	12-04-06 17:39	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.59	1	12-04-06 17:40	EPA 6010B[1]
7440-47-3	Chromium, Total	**14**		mg/Kg	12	1	12-04-06 17:40	EPA 6010B[1]
7439-92-1	Lead, Total	**23**		mg/Kg	12	1	12-04-06 17:40	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.36**		mg/Kg	0.039	1	12-04-06 13:23	EPA 7471A[2]
7440-02-0	Nickel, Total	BRL		mg/Kg	12	1	12-04-06 17:40	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	12	1	12-04-06 17:40	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	5.9	1	12-04-06 17:39	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	5.9	1	12-04-06 17:40	EPA 6010B[1]
7440-62-2	Vanadium, Total	**22**		mg/Kg	5.9	1	12-04-06 17:39	EPA 6010B[1]
7440-66-6	Zinc, Total	**110**		mg/Kg	59	1	12-04-06 17:39	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.

GROUNDWATER ANALYTICAL

Matrix Spike and Matrix Spike Duplicate
Trace Metals

			Parent Sample	Matrix Spike	Spike Duplicate
Field ID:	**Esmb-3 0-4**				
Project:	**SARSS Brookfield/2006-072**	Laboratory ID:	**101672-05**	**101672-11**	**101672-13**
Client:	**Environmental Strategies & Managem**	Sampled:	**11-28-06 01:15**	**11-28-06 01:15**	**11-28-06 01:15**
Matrix:	**Soil**	Received:	**11-30-06 18:00**	**11-30-06 18:00**	**11-30-06 18:00**
Container:	**250 mL Glass**	% Solids:	**83**	**83**	**83**
Preservation:	**Cool**				

Sample Type	Method	QC Batch ID	Prep Method	Prepared	Weight	DF	Analyzed	Instrument ID	Analyst
Matrix Spike	EPA 6010B	MB-01031-S	EPA 3050B	12-04-06 09:49	0.514 g	1	12-04-06 17:59	ICP-1 PE 3000	MFP
Matrix Spike	EPA 7471A	MP-2060-S	EPA 7471A	12-04-06 08:00	0.6 g	1	12-04-06 13:43	CVAA-1 PE FIMS	JBH

CAS Number	Analyte	Unspiked Sample (mg/Kg)	MS Spiked (mg/Kg)	MS Measured (mg/Kg)	MS Recovery	MSD Spiked (mg/Kg)	MSD Measured (mg/Kg)	MSD Recovery	RPD	QC Limits Spike	QC Limits RPD	Method
7440-36-0	Antimony	BRL	580	480	**83 %**	580	510	**89 %**	**6 %**	75-125%	20 %	EPA 6010B
7440-38-2	Arsenic	4.2	580	570	**97 %**	580	580	**99 %**	**2 %**	75-125%	20 %	EPA 6010B
7440-39-3	Barium	800	500	590	s	500	620	s	**5 %**	75-125%	20 %	EPA 6010B
7440-41-7	Beryllium	BRL	120	110	**94 %**	120	120	**97 %**	**9 %**	75-125%	20 %	EPA 6010B
7440-43-9	Cadmium	BRL	120	110	**91 %**	120	110	**93 %**	**0 %**	75-125%	20 %	EPA 6010B
7440-47-3	Chromium	14	120	130	**93 %**	120	120	**93 %**	**8 %**	75-125%	20 %	EPA 6010B
7439-92-1	Lead	23	580	620	s	580	560	**92 %**	**10 %**	75-125%	20 %	EPA 6010B
7439-97-6	Mercury	0.36	0.21	0.23	s	0.20	0.24	s	**4 %**	75-125%	20 %	EPA 7471A
7440-02-0	Nickel	BRL	120	120	**91 %**	120	120	**92 %**	**0 %**	75-125%	20 %	EPA 6010B
7782-49-2	Selenium	BRL	580	550	**94 %**	580	560	**96 %**	**2 %**	75-125%	20 %	EPA 6010B
7440-22-4	Silver	BRL	120	110	**90 %**	120	120	**96 %**	**9 %**	75-125%	20 %	EPA 6010B
7440-28-0	Thallium	BRL	580	510	**90 %**	580	530	**93 %**	**4 %**	75-125%	20 %	EPA 6010B
7440-62-2	Vanadium	22	120	140	**98 %**	120	140	**94 %**	**0 %**	75-125%	20 %	EPA 6010B
7440-66-6	Zinc	110	120	170	**49 %**	120	180	**53 %**	**6 %**	75-125%	20 %	EPA 6010B

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations:

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DF Dilution Factor.

s Matrix spike recovery outside recommended limits due to high concentration of spike analyte native to the sample.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**Esmb-3 4-8**	Matrix:	**Soil**
Project:	**SARSS Brookfield/2006-072**	Container:	**250 mL Glass**
Client:	**Environmental Strategies & Management, Inc.**	Preservation:	**Cool**
Laboratory ID:	**101672-06**	Percent Solids:	**89**
Sampled:	**11-28-06 11:15**		
Received:	**11-30-06 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01031-S	EPA 3050B	12-04-06 09:49	0.502 g	ICP-1 PE 3000	MFP
EPA 7471A[2]	MP-2060-S	EPA 7471A	12-04-06 08:00	0.6 g	CVAA-1 PE FIMS	JBH

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	BRL		mg/Kg	1.1	1	12-04-06 17:43	EPA 6010B[1]
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.3	1	12-04-06 17:43	EPA 6010B[1]
7440-39-3	Barium, Total	**81**		mg/Kg	22	1	12-04-06 17:43	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.33	1	12-04-06 17:43	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.56	1	12-04-06 17:43	EPA 6010B[1]
7440-47-3	Chromium, Total	**27**		mg/Kg	11	1	12-04-06 17:43	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/Kg	11	1	12-04-06 17:43	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/Kg	0.036	1	12-04-06 13:33	EPA 7471A[2]
7440-02-0	Nickel, Total	**47**		mg/Kg	11	1	12-04-06 17:43	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	11	1	12-04-06 17:43	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	5.6	1	12-04-06 17:43	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	5.6	1	12-04-06 17:43	EPA 6010B[1]
7440-62-2	Vanadium, Total	**48**		mg/Kg	5.6	1	12-04-06 17:43	EPA 6010B[1]
7440-66-6	Zinc, Total	**67**		mg/Kg	56	1	12-04-06 17:43	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

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DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**Esmb-4 0-4**	Matrix:	**Soil**
Project:	**SARSS Brookfield/2006-072**	Container:	**250 mL Glass**
Client:	**Environmental Strategies & Management, Inc.**	Preservation:	**Cool**
Laboratory ID:	**101672-07**	Percent Solids:	**86**
Sampled:	**11-28-06 10:30**		
Received:	**11-30-06 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01031-S	EPA 3050B	12-04-06 09:49	0.485 g	ICP-1 PE 3000	MFP
EPA 7471A[2]	MP-2060-S	EPA 7471A	12-04-06 08:00	0.6 g	CVAA-1 PE FIMS	JBH

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	BRL		mg/Kg	1.2	1	12-04-06 17:46	EPA 6010B[1]
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.6	1	12-04-06 17:46	EPA 6010B[1]
7440-39-3	Barium, Total	**40**		mg/Kg	24	1	12-04-06 17:46	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.36	1	12-04-06 17:46	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.60	1	12-04-06 17:46	EPA 6010B[1]
7440-47-3	Chromium, Total	**15**		mg/Kg	12	1	12-04-06 17:46	EPA 6010B[1]
7439-92-1	Lead, Total	**15**		mg/Kg	12	1	12-04-06 17:46	EPA 6010B[1]
7439-97-6	Mercury, Total	**0.29**		mg/Kg	0.038	1	12-04-06 13:36	EPA 7471A[2]
7440-02-0	Nickel, Total	BRL		mg/Kg	12	1	12-04-06 17:46	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	12	1	12-04-06 17:46	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	6.0	1	12-04-06 17:46	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	6.0	1	12-04-06 17:46	EPA 6010B[1]
7440-62-2	Vanadium, Total	**22**		mg/Kg	6.0	1	12-04-06 17:46	EPA 6010B[1]
7440-66-6	Zinc, Total	BRL		mg/Kg	60	1	12-04-06 17:46	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

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DF Dilution Factor.

GROUNDWATER ANALYTICAL

Trace Metals

Field ID:	**Esmb-4 4-8**	Matrix:	**Soil**
Project:	**SARSS Brookfield/2006-072**	Container:	**250 mL Glass**
Client:	**Environmental Strategies & Management, Inc.**	Preservation:	**Cool**
Laboratory ID:	**101672-08**	Percent Solids:	**87**
Sampled:	**11-28-06 10:30**		
Received:	**11-30-06 18:00**		

Analysis Method	QC Batch ID	Prep Method	Prepared	Sample Weight	Instrument ID	Analyst
EPA 6010B[1]	MB-01031-S	EPA 3050B	12-04-06 09:49	0.5 g	ICP-1 PE 3000	MFP
EPA 7471A[2]	MP-2060-S	EPA 7471A	12-04-06 08:00	0.6 g	CVAA-1 PE FIMS	JBH

CAS Number	Analyte	Concentration	Notes	Units	Reporting Limit	DF	Analyzed	Method
7440-36-0	Antimony, Total	BRL		mg/Kg	1.2	1	12-04-06 17:49	EPA 6010B[1]
7440-38-2	Arsenic, Total	BRL		mg/Kg	3.5	1	12-04-06 17:49	EPA 6010B[1]
7440-39-3	Barium, Total	**55**		mg/Kg	23	1	12-04-06 17:49	EPA 6010B[1]
7440-41-7	Beryllium, Total	BRL		mg/Kg	0.35	1	12-04-06 17:49	EPA 6010B[1]
7440-43-9	Cadmium, Total	BRL		mg/Kg	0.58	1	12-04-06 17:49	EPA 6010B[1]
7440-47-3	Chromium, Total	**18**		mg/Kg	12	1	12-04-06 17:49	EPA 6010B[1]
7439-92-1	Lead, Total	BRL		mg/Kg	12	1	12-04-06 17:49	EPA 6010B[1]
7439-97-6	Mercury, Total	BRL		mg/Kg	0.037	1	12-04-06 13:39	EPA 7471A[2]
7440-02-0	Nickel, Total	BRL		mg/Kg	12	1	12-04-06 17:49	EPA 6010B[1]
7782-49-2	Selenium, Total	BRL		mg/Kg	12	1	12-04-06 17:49	EPA 6010B[1]
7440-22-4	Silver, Total	BRL		mg/Kg	5.8	1	12-04-06 17:49	EPA 6010B[1]
7440-28-0	Thallium, Total	BRL		mg/Kg	5.8	1	12-04-06 17:49	EPA 6010B[1]
7440-62-2	Vanadium, Total	**29**		mg/Kg	5.8	1	12-04-06 17:49	EPA 6010B[1]
7440-66-6	Zinc, Total	**460**		mg/Kg	58	1	12-04-06 17:49	EPA 6010B[1]

Method Reference: Test Methods for Evaluating Solid Waste, US EPA, SW-846, Third Edition, Update III (1996).
Results are reported on a dry weight basis.

Report Notations: BRL Indicates concentration, if any, is below reporting limit for analyte. Reporting limit is the lowest concentration that can be reliably quantified under routine laboratory operating conditions. Reporting limits are adjusted for sample size and dilution.

DF Dilution Factor.