APPENDIX A

TEMPORARY WELL BORING LOGS, FIELD PURGING RECORDS & FIELD NOTES

LOG OF GEOPROBE BOREHOLE

BOREHOLE T 2

Golder Associates

INVESTIGATION AREA	Creek Segment D, Transect T2, West of Dead Creek	**DRILLER**	Joe Cox		**START** / **FINISH**
		RIG	6610 Delta T	**DATE**	7/9/07 / 7/9/07
		NO. SAMPLES	4	**TIME**	10:45 / 11:25
TOTAL DEPTH	16.0 feet Below Ground Surface (BGS)	**LOCATION**	Dead Creek, Cahokia, Illinois	**BACKFILL TYPE**	Bentonite Pellets
BOREHOLE DIAM.	2.5 inches				

DEPTH (Feet)	SAMPLE No.	PID (ppm)	RECOVERY	OTHER	DESCRIPTION AND COMMENTS
	1	0.0	2.9/4.0		0.0-2.0 Firm, dark yellowish brown (10YR 4/2), SILT, trace organics, damp, (ML)
					2.0-5.8 Compact, moderate yellowish brown (10YR 5/4), fine grained SILTY SAND, dry to damp, (SW)
4					
	2	0.0	3.3/4.0		5.8-7.0 Firm, moderate yellowish brown (10YR 5/4) with dark gray (N3) mottling, CLAYEY SILT, damp, (MH)
					7.0-7.6 Loose, moderate yellowish brown (10YR 5/4), fine grained SAND, damp, (SP)
8					
	3	0.0	3.0/4.0	▼ 10.13 7/9/07 11:25	7.6-9.0 Soft, dark yellowish brown (10YR 4/2), fine grained SANDY SILT, moist, (SM)
					9.0-9.2 Loose, moderate yellowish brown (10YR 5/4), fine grained SAND, damp, (SP)
12					9.2-10.2 Firm, moderate yellowish brown (10YR 5/4) with dark gray (N3) mottling, CLAYEY SILT, damp, (MH)
	4	0.0	3.2/4.0		10.2-13.8 Compact, dark yellowish brown (10YR 4/2), very fine grained SILTY SAND, wet, (SW)
					13.8-14.0 Compact, dark yellowish brown (10YR 4/2), very fine grained SAND, wet, (SW)
16					14.0-16.0 Compact, brownish gray (5YR 4/1), fine grained SAND, wet, (SP)

END OF BOREHOLE @ 16.0 FEET BGS

PROJECT No	043-9670	**LOGGED BY**	MSL
PROJECT	Dead Creek Soil to Groundwater Leaching Investigation	**CHECKED BY**	MSL
LOCATION	Cahokia, Illinois	**REVIEWED BY**	8/3/2007

LOG OF GEOPROBE BOREHOLE

BOREHOLE T 6

Golder Associates

INVESTIGATION AREA	Creek Segment F, Transect T6, West of Dead Creek	**DRILLER**	Joe Cox		**START** / **FINISH**
		RIG	6610 Delta T	**DATE**	7/9/07 / 7/9/07
		NO. SAMPLES	4	**TIME**	09:12 / 10:30
TOTAL DEPTH	14.0 feet Below Ground Surface (BGS)	**LOCATION**	Dead Creek, Cahokia, Illinois	**BACKFILL TYPE**	Bentonite Pellets
BOREHOLE DIAM.	2.5 inches				

DEPTH (Feet)	SAMPLE No.	PID (ppm)	RECOVERY	OTHER	DESCRIPTION AND COMMENTS
	1	0.0	3.5/4.0		0.0-1.6 Soft, moderate yellowish brown (10YR 5/4), CLAYEY SILT, damp, (MH)
					1.6-2.5 Firm, moderate yellowish brown (10YR 5/4), SILTY CLAY, damp, (CL)
4					2.5-2.9 Loose, light brown (5YR 6/4), fine grained SAND, damp, (SP)
	2	0.0	3.1/4.0		2.9-5.9 Soft, moderate yellowish brown (10YR 5/4), SILT, trace fine grained sand, some clay, damp, (ML)
8					5.9-9.8 Loose, moderate yellowish brown (10YR 5/4), fine grained SAND, wet, (SP)
	3	0.0	3.6/4.0	▼ 9.80 7/9/07 10:35	9.8-10.7 Soft, light gray (N7), CLAY, damp, (CH)
12					10.7-14.0 Loose, moderate yellowish brown (10YR 5/4), SAND, wet, (SP)
14	4	0.0	2.0/2.0		

END OF BOREHOLE @ 14.0 FEET BGS

PROJECT No	043-9670	**LOGGED BY**	MSL
PROJECT	Dead Creek Soil to Groundwater Leaching Investigation	**CHECKED BY**	MSL
LOCATION	Cahokia, Illinois	**REVIEWED BY**	8/3/2007

LOG OF GEOPROBE BOREHOLE

BOREHOLE T 7

Golder Associates

INVESTIGATION AREA	Creek Segment C, Transect T7, West of Dead Creek	**DRILLER**	Joe Cox		**START** / **FINISH**
		RIG	6610 Delta T	**DATE**	7/9/07 / 7/9/07
		NO. SAMPLES	4	**TIME**	14:45 / 15:40
TOTAL DEPTH	16.0 feet Below Ground Surface (BGS)	**LOCATION**	Dead Creek, Cahokia, Illinois	**BACKFILL TYPE**	Bentonite Pellets
BOREHOLE DIAM.	2.5 inches				

DEPTH (Feet)	SAMPLE No.	PID (ppm)	RECOVERY	OTHER	DESCRIPTION AND COMMENTS
					0.0-1.8 Firm, dark yellowish brown (10YR 4/2), SILTY CLAY, trace organics, (CL)
	1	0.0	3.1/4.0		1.8-10.4 Soft, moderate yellowish brown (10YR 5/4) with dark yellowish brown (10YR 4/2) mottling, SANDY SILT, damp, (ML)
4					
	2	0.0	3.0/4.0	▼ 7.60 7/9/07 15:40	@5.5 Wet
8					
	3	0.0	4.0/4.0		10.4-11.0 Stiff, light gray (N7), SILTY CLAY, damp, (CL)
12					11.0-13.6 Soft, moderate yellowish brown (10YR 5/4), CLAYEY SILT, trace fine sand, wet, (MH)
	4	0.0	4.0/4.0		13.6-15.6 Loose, light gray (N7), fine grained SILTY SAND, trace clay, wet, (SM)
16					15.6-16.0 Compact, pale yellowish brown (10YR 6/2), fine grained SAND, damp to moist, (SP)

END OF BOREHOLE @ 16.0 FEET BGS

PROJECT No	043-9670	**LOGGED BY**	MSL
PROJECT	Dead Creek Soil to Groundwater Leaching Investigation	**CHECKED BY**	MSL
LOCATION	Cahokia, Illinois	**REVIEWED BY**	8/3/2007

LOG OF GEOPROBE BOREHOLE

BOREHOLE T 16

Golder Associates

INVESTIGATION AREA	Creek Segment E, Transect T16, West of Dead Creek	**DRILLER**	Joe Cox		**START** / **FINISH**
		RIG	6610 Delta T	**DATE**	7/9/07 / 7/9/07
		NO. SAMPLES	4	**TIME**	13:05 / 13:55
TOTAL DEPTH	15.0 feet Below Ground Surface (BGS)	**LOCATION**	Dead Creek, Cahokia, Illinois	**BACKFILL TYPE**	Bentonite Pellets
BOREHOLE DIAM.	2.5 inches				

DEPTH (Feet)	SAMPLE No.	PID (ppm)	RECOVERY	OTHER	DESCRIPTION AND COMMENTS
					0.0-0.3 ASPHALT
	1	0.0	2.9/4.0		0.3-1.6 Compact, light brown (5YR 6/4) and black (N1), fine grained GRAVEL and CINDERS, (fill)
4					1.6-5.6 Firm, moderate yellowish brown (10YR 5/4) with dark yellowish brown (10YR 4/2) mottling, SILTY CLAY, damp, (CL)
	2	0.0	2.8/4.0		5.6-6.5 Soft, moderate yellowish brown (10YR 5/4), CLAYEY SILT, moist, (MH)
8					6.5-10.8 Firm, moderate yellowish brown (10YR 5/4) with dark yellowish brown (10YR 4/2) mottling, CLAYEY SILT, damp, (MH)
	3	0.0	2.1/4.0	▼ 8.60 7/9/07 13:35	
12					10.8-11.3 Firm, light gray (N7) with black (N1) laminations, SANDY SILT, fine grained, some clay, moist to wet, (ML)
15	4	0.0	1.2/3.0		11.3-15.0 Soft, moderate yellowish brown (10YR 5/4) with dark yellowish brown (10YR 4/2) mottling, SILTY SAND, fine grained, wet, (SM)

END OF BOREHOLE @ 15.0 FEET BGS

PROJECT No	043-9670	**LOGGED BY**	MSL
PROJECT	Dead Creek Soil to Groundwater Leaching Investigation	**CHECKED BY**	MSL
LOCATION	Cahokia, Illinois	**REVIEWED BY**	8/3/2007

Golder Associates

SUBJECT	Monsanto Dead Creek	
Job No.	Made by	Date
Ref.	Checked	Sheet 1 of
	Reviewed	

7/9/07

0800 Arrive on site
0815 Roberts on site
Chrumill on site
Hold Safety briefing
0840 Mob to T6

12:00 Lunch
13:00 Start clearing brush tracking to T7
14:45 Start T7
1600 Finish moving rig to trailer on Catalina St. Anthony leaves site

7/10/07 T7

0930 WL = 4.54 FT BGS TD = 16 FT , 1 volume = 1 liter

T7 0940 Start Purging WL = 8.35 FT BGS

TIME	WL	TEMP °C	FLOW RATE mL/min	PH	COND. µS/cm	TURB (NTU)	Vol. (L)
0944	8.63	18.41	100 mL/min	6.50	675	491	
0950	8.66	17.25	125 ml/min	6.70	661	328	
0955	8.82	17.02	125	6.73	655	232	
1000	8.90	17.06	125 mL/min	6.68	655	~~258~~ 237	2.5
1005	8.95	16.75	125	6.71	649	124	3.125
1010	9.05	16.92	135	6.68	650	176	3.80
1015	8.93	17.06	115	6.67	653	186	4.375
1020	8.92	17.29		6.69	654	~~200~~ 175	4.95
1025	8.87	17.02	115	6.70	652	140	
1030	8.92	17.18		6.69	653	157	
1035	8.95	17.10	115	6.73	652	152	
1040	8.95	17.31		6.72	655	144	
1045	9.00	17.34	115	6.72	654	132	
1050	~~10.09~~ 9.04	17.22		6.72	655	143	
1055	9.05	17.32	120	6.70	655	105	
1100						88	
1105	9.07	17.35		6.81	658	84	
1110	9.10		125			71	
1115	9.14	17.55		6.74	659	~~69~~ 61	
1120	9.18					58	
1125	9.20	17.37	125	6.75	657	—	
1130						49	
1135						41	
1140	9.25	17.86	135	6.73	667	40	
1145	9.25	17.72		6.70	663	35	
1150						34	
1155	9.28	18.45		6.78	673	31	

Golder Associates

SUBJECT		
Job No.	Made by	Date
Ref.	Checked	Sheet 2 of
	Reviewed	

T7 2/10/07

TIME	WL	TROUP	FLOW RATE (mL/min)	pH	Cond (µS/cm)	TURB (NTU)
1200						35
1205	9.30	18.39	138	6.68	671	25
1210						27
1215	9.30	18.19		6.52	669	22
1220	9.30	18.53	150	6.56	673	24
1225	9.34	18.47		6.60	673	20
1235	9.35	17.97	135	6.63	666	18
1240	9.32	18.14		6.58	667	18
1245	9.35	17.64		6.52	660	18
1250						

WL = 9.22 FT BTOC

TIME

Golder Associates	SUBJECT		
	Job No.	Made by	Date
	Ref.	Checked	Sheet 3 of
		Reviewed	

7/11/07

0755 ONSITE w/ PU & TONY (CH2MHILL)

0800 WL = 10.64 FT BTOC TD = 25.55 FT Apartments 1 volume = 0.6 Liters

T16

0815 Start pumping

Time	WL (FTBTOC)	TEMP (°C)	pH	Cond (uS/cm)	Turb (NTU)	Q (ml/min)
0821		20.80	6.39	346	165	
0826	11.25	20.35	6.47	361	78.2	
0831	11.27	20.40	6.61	358	33.1	120
0835	11.26	20.26	6.63	361	13.7	
0840	11.28	20.15	6.66	364	10.3	110
0845	11.30	20.26	6.57	373	4.27	
0850	11.32	20.25	6.66	410	3.41	115
0855	11.33	20.20	6.73	415	2.34	
0900	11.35	20.20	6.73	409	2.07	
0905		20.15	6.74	405	1.91	
0910	11.36	20.11	6.74	400	1.39	110
0915		20.01	6.72	403	2.20	
0920	11.38	19.90	6.72	407	2.69	110

MW-T16-UNF	0920
MW-T16-UNF-MS	0920
MW-T16-UNF-MSΔ	0920
MW-T16-1D	0925
MW-T16-0.45	0930

Golder Associates	SUBJECT		
	Job No. / Ref.	Made by / Checked / Reviewed	Date / Sheet 4 of

7/11/07

T2 1017 WL = 10.45 FT BTOC ; STANDUP = 0.45 FT ; WELL VOLUME = 0.52 Liters

1020 Start pumping

TIME	WL (FT BTOC)	TEMP (°C)	pH	COND (mS/cm)	TURB (NTU)	Q (mL/min)
1025	11.49	19.52	6.68	811	261	110
1030	11.50	19.20	6.70	900	167	120
1035	11.52	18.61	6.75	716	61.6	
1040	11.53	18.52	6.76	690	37.0	
1045	11.54	18.30	6.76	663	17.1	120
1050	11.53	18.39	6.76	603	11.4	
1055	11.53	18.39	~~6.61~~	585	6.35	120
1100	11.53	18.45	6.73	598	4.88	
1105		18.52	6.75	650	5.36	+
1110	11.58	18.56	6.75	670	3.39	100
1115	11.52	18.58	6.76	528	3.87	110
1120	11.53	18.58	6.75	536	4.13	
1125	11.52	~~18.[illegible]~~ 18.79	6.76	537	4.14	110

MW-T2-UNF 1125
MW-T2-10 1130
MW-T2-0.45 1135
DUP-1 recovered w/ MW-T2-UNF

Golder Associates	SUBJECT		
	Job No.	Made by	Date
	Ref.	Checked	Sheet 5 of
		Reviewed	

7/11/07

T6

1322 WL = 8.49 FT BTOC ; STICKUP = 1.30 FT ; ID = 2 IN FT ; Well volume = 0.6 liters

TIME	WL (FT BTOC)	TEMP (°C)	pH	Cond (µS/cm)	Turb (NTU)	Q (ml/min)
1335	9.67	18.45	6.38	880	112	110
1340	9.75	17.39	6.53	861	35.2	
1345	9.77	16.98	6.55	861	22.2	
1350	9.77	17.02	6.55	726	17.4	110
1355	9.77	16.66	6.57	773	13.7	
1400	9.79	16.85	6.55	683	14.5	120
1405	9.79	16.69	6.53	652	10.8	
1410	9.80	16.78	6.53	631	9.79	120
1415	9.80	16.74	6.54	661	8.16	
1420	9.80	16.57	6.56	769	8.78	125
1425	—	16.63	6.57	692	6.76	
1430	9.80	16.69	6.55	~~585~~ 693	5.90	125
1435		16.73	6.57	652	5.60	
1440	9.82	16.64	6.59	761	5.36	125
1445	9.82	16.57	6.59	763	4.25	
1450	9.82	16.49	6.59	757	5.52	130
1455		16.41	6.60	~~737~~ 743	3.76	
1500	~~9.87~~ 9.82 MSL	16.59	6.60	757	4.06	130
1505	9.83	16.49	6.61	750	3.07	

MW-T6-UNF 1510
MW-T6-10 1515
MW-T6-0.45 1520
DUP-2 assoc w/ MW-T6-0.45

APPENDIX B

LABORATORY ANALYTICAL REPORTS

ANALYTICAL REPORT

Job Number: 680-28339-1

SDG Number: SDC028

Job Description: Monsanto Dead Creek - Cadmium -July 2007

For:
Golder Associates Inc.
820 South Main Street
Suite 100
St. Charles, MO 63301

Attention: MIke Lemon

Lidya Gulizia

Project Manager I

lidya.gulizia@testamericainc.com

08/09/2007

cc: Mr. Richard Williams

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

TestAmerica Laboratories, Inc.
TestAmerica Savannah 5102 LaRoche Avenue, Savannah, GA 31404
Tel (912) 354-7858 Fax (912) 352-0165 www.testamericainc.com

Job Narrative
680-J28339-1 / SDG No. SDC028

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

Comments
The analysis method on the chain of custody (COC) record was revised to Method 6020 (ICP/MS) from Method 6010 (ICP) following client confirmation.

METHOD SUMMARY

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Inductively Coupled Plasma - Mass Spectrometry	STL SAV	SW846 6020	
Acid Digestion of Waters for Total Recoverable or	STL SAV		SW846 3005A
Sample Filtration performed in the Field	STL SAV		FIELD_FLTRD

LAB REFERENCES:

STL SAV = TestAmerica Savannah

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986
And Its Updates.

METHOD / ANALYST SUMMARY

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Method	Analyst	Analyst ID
SW846 6020	Boyuk, Brian	BB

SAMPLE SUMMARY

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-28339-1	MW-T7-UNF	Water	07/10/2007 1250	07/12/2007 0925
680-28339-2	MW-T7-10	Water	07/10/2007 1255	07/12/2007 0925
680-28339-3	MW-T7-0.45	Water	07/10/2007 1300	07/12/2007 0925
680-28339-4	MW-T16-UNF	Water	07/11/2007 0920	07/12/2007 0925
680-28339-4MS	MW-T16-UNF	Water	07/11/2007 0920	07/12/2007 0925
680-28339-4MSD	MW-T16-UNF	Water	07/11/2007 0920	07/12/2007 0925
680-28339-5	MW-T16-10	Water	07/11/2007 0925	07/12/2007 0925
680-28339-6	MW-T16-0.45	Water	07/11/2007 0930	07/12/2007 0925
680-28339-7	MW-T2-UNF	Water	07/11/2007 1125	07/12/2007 0925
680-28339-8	MW-T2-10	Water	07/11/2007 1130	07/12/2007 0925
680-28339-9	MW-T2-0.45	Water	07/11/2007 1135	07/12/2007 0925
680-28339-10FD	DUP-1	Water	07/11/2007 0000	07/12/2007 0925
680-28339-11	MW-T6-UNF	Water	07/11/2007 1510	07/12/2007 0925
680-28339-12	MW-T6-10	Water	07/11/2007 1515	07/12/2007 0925
680-28339-13	MW-T6-0.45	Water	07/11/2007 1520	07/12/2007 0925
680-28339-14FD	DUP-2	Water	07/11/2007 0000	07/12/2007 0925

SAMPLE RESULTS

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **MW-T7-UNF**

Lab Sample ID:	680-28339-1	Date Sampled:	07/10/2007 1250
Client Matrix:	Water	Date Received:	07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Total Recoverable

Method:	6020	Analysis Batch: 680-80940		Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0451			Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium	0.00024	J	0.00012	0.00050

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **MW-T7-10**

Lab Sample ID:	680-28339-2	Date Sampled:	07/10/2007 1255
Client Matrix:	Water	Date Received:	07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Dissolved

Method:	6020	Analysis Batch: 680-80940	Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0457		Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium, Dissolved	0.00016	J	0.00012	0.00050

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **MW-T7-0.45**

Lab Sample ID:	680-28339-3	Date Sampled:	07/10/2007 1300
Client Matrix:	Water	Date Received:	07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Dissolved

Method:	6020	Analysis Batch: 680-80940		Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0504			Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium, Dissolved	0.00017	J	0.00012	0.00050

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **MW-T16-UNF**

Lab Sample ID:	680-28339-4	Date Sampled:	07/11/2007 0920
Client Matrix:	Water	Date Received:	07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Total Recoverable

Method:	6020	Analysis Batch: 680-80940		Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0511			Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium	0.00013	J	0.00012	0.00050

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **MW-T16-10**

Lab Sample ID:	680-28339-5	Date Sampled:	07/11/2007 0925
Client Matrix:	Water	Date Received:	07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Dissolved

Method:	6020	Analysis Batch: 680-80940	Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0559		Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium, Dissolved	0.00014	J	0.00012	0.00050

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **MW-T16-0.45**

Lab Sample ID:	680-28339-6	Date Sampled:	07/11/2007 0930
Client Matrix:	Water	Date Received:	07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Dissolved

Method:	6020	Analysis Batch: 680-80940		Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0607			Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium, Dissolved	0.00050	U	0.00012	0.00050

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **MW-T2-UNF**

Lab Sample ID:	680-28339-7	Date Sampled:	07/11/2007 1125
Client Matrix:	Water	Date Received:	07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Total Recoverable

Method:	6020	Analysis Batch: 680-80940	Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0613		Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium	0.00056		0.00012	0.00050

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **MW-T2-10**

Lab Sample ID: 680-28339-8
Client Matrix: Water

Date Sampled: 07/11/2007 1130
Date Received: 07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Dissolved

Method:	6020	Analysis Batch: 680-80940		Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0620			Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium, Dissolved	0.00051		0.00012	0.00050

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **MW-T2-0.45**

Lab Sample ID:	680-28339-9	Date Sampled:	07/11/2007 1135
Client Matrix:	Water	Date Received:	07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Dissolved

Method:	6020	Analysis Batch: 680-80940		Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0627			Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium, Dissolved	0.00058		0.00012	0.00050

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **DUP-1**

Lab Sample ID:	680-28339-10FD	Date Sampled:	07/11/2007 0000
Client Matrix:	Water	Date Received:	07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Total Recoverable

Method:	6020	Analysis Batch: 680-80940		Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0634			Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium	0.00056		0.00012	0.00050

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **MW-T6-UNF**

Lab Sample ID:	680-28339-11	Date Sampled:	07/11/2007 1510
Client Matrix:	Water	Date Received:	07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Total Recoverable

Method:	6020	Analysis Batch: 680-80940	Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0641		Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium	0.00015	J	0.00012	0.00050

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **MW-T6-10**

Lab Sample ID: 680-28339-12
Client Matrix: Water

Date Sampled: 07/11/2007 1515
Date Received: 07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Dissolved

Method:	6020	Analysis Batch: 680-80940		Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0648			Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium, Dissolved	0.00050	U	0.00012	0.00050

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **MW-T6-0.45**

Lab Sample ID:	680-28339-13	Date Sampled:	07/11/2007 1520
Client Matrix:	Water	Date Received:	07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Dissolved

Method:	6020	Analysis Batch: 680-80940		Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0655			Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium, Dissolved	0.00050	U	0.00012	0.00050

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Client Sample ID: **DUP-2**

Lab Sample ID:	680-28339-14FD	Date Sampled:	07/11/2007 0000
Client Matrix:	Water	Date Received:	07/12/2007 0925

6020 Inductively Coupled Plasma - Mass Spectrometry-Dissolved

Method:	6020	Analysis Batch: 680-80940		Instrument ID:	ICP MS
Preparation:	3005A	Prep Batch: 680-80650		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0716			Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium, Dissolved	0.00013	J	0.00012	0.00050

DATA REPORTING QUALIFIERS

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Lab Section	Qualifier	Description
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-80650					
LCS 680-80650/17-A	Lab Control Spike	R	Water	3005A	
MB 680-80650/16-A	Method Blank	R	Water	3005A	
680-28339-1	MW-T7-UNF	R	Water	3005A	
680-28339-2	MW-T7-10	D	Water	3005A	
680-28339-3	MW-T7-0.45	D	Water	3005A	
680-28339-4	MW-T16-UNF	R	Water	3005A	
680-28339-4MS	Matrix Spike	R	Water	3005A	
680-28339-4MS	Matrix Spike	R	Water	3005A	
680-28339-4MSD	Matrix Spike Duplicate	R	Water	3005A	
680-28339-4MSD	Matrix Spike Duplicate	R	Water	3005A	
680-28339-5	MW-T16-10	D	Water	3005A	
680-28339-6	MW-T16-0.45	D	Water	3005A	
680-28339-7	MW-T2-UNF	R	Water	3005A	
680-28339-8	MW-T2-10	D	Water	3005A	
680-28339-9	MW-T2-0.45	D	Water	3005A	
680-28339-10FD	DUP-1	R	Water	3005A	
680-28339-11	MW-T6-UNF	R	Water	3005A	
680-28339-12	MW-T6-10	D	Water	3005A	
680-28339-13	MW-T6-0.45	D	Water	3005A	
680-28339-14FD	DUP-2	D	Water	3005A	
Analysis Batch:680-80940					
LCS 680-80650/17-A	Lab Control Spike	R	Water	6020	680-80650
MB 680-80650/16-A	Method Blank	R	Water	6020	680-80650
680-28339-1	MW-T7-UNF	R	Water	6020	680-80650
680-28339-2	MW-T7-10	D	Water	6020	680-80650
680-28339-3	MW-T7-0.45	D	Water	6020	680-80650
680-28339-4	MW-T16-UNF	R	Water	6020	680-80650
680-28339-4MS	Matrix Spike	R	Water	6020	680-80650
680-28339-4MS	Matrix Spike	R	Water	6020	680-80650
680-28339-4MSD	Matrix Spike Duplicate	R	Water	6020	680-80650
680-28339-4MSD	Matrix Spike Duplicate	R	Water	6020	680-80650
680-28339-5	MW-T16-10	D	Water	6020	680-80650
680-28339-6	MW-T16-0.45	D	Water	6020	680-80650
680-28339-7	MW-T2-UNF	R	Water	6020	680-80650
680-28339-8	MW-T2-10	D	Water	6020	680-80650
680-28339-9	MW-T2-0.45	D	Water	6020	680-80650
680-28339-10FD	DUP-1	R	Water	6020	680-80650
680-28339-11	MW-T6-UNF	R	Water	6020	680-80650
680-28339-12	MW-T6-10	D	Water	6020	680-80650
680-28339-13	MW-T6-0.45	D	Water	6020	680-80650
680-28339-14FD	DUP-2	D	Water	6020	680-80650

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
D = Dissolved
R = Total Recoverable

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Method Blank - Batch: 680-80650

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: MB 680-80650/16-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2007 0430
Date Prepared: 07/19/2007 1611

Analysis Batch: 680-80940
Prep Batch: 680-80650
Units: mg/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Cadmium	0.00050	U	0.00012	0.00050
Cadmium, Dissolved	0.00050	U	0.00012	0.00050

Lab Control Spike - Batch: 680-80650

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCS 680-80650/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2007 0437
Date Prepared: 07/19/2007 1611

Analysis Batch: 680-80940
Prep Batch: 680-80650
Units: mg/L

Instrument ID: ICP MS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.0500	0.0473	95	75 - 125	
Cadmium, Dissolved	0.0500	0.0473	95	75 - 125	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-80650

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	680-28339-4	Analysis Batch:	680-80940	Instrument ID:	ICP MS
Client Matrix:	Water	Prep Batch:	680-80650	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0532			Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611				

MSD Lab Sample ID:	680-28339-4	Analysis Batch:	680-80940	Instrument ID:	ICP MS
Client Matrix:	Water	Prep Batch:	680-80650	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/21/2007 0553			Final Weight/Volume:	250 mL
Date Prepared:	07/19/2007 1611				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	95	95	75 - 125	1	20		
Cadmium, Dissolved	95	95	75 - 125	1	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Serial Number 100418

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

(X) **STL Savannah**
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

( ) Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
M	043-9670	

STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
LOYA G.		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
M. Lemon	636-724-9191	

CLIENT NAME	CLIENT E-MAIL
Cousser	mlemon@gobler.com

CLIENT ADDRESS: 820 S. Main Ste 100, St Charles, MO

COMPANY CONTRACTING THIS WORK (if applicable): Monsanto - Richard Williams

PAGE 2 OF 2

STANDARD REPORT DELIVERY (X)

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ( )

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	6010 Cadmium										REMARKS
								HNO3	PRESERVATIVE									
								NUMBER OF CONTAINERS SUBMITTED										
7/1/07	1510	MW-T6-UNF		1				1										Level IV QA/QC
7/1/07	1515	MW-T6-10		1				1										Deliverable
7/1/07	1520	MW-T6-0.45		1				1										
—	—	DUP-2		1				1										

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Michael A. Lemon	7/1/07	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
	071207	0925	YES ( ) NO ( )		686-28339	

STL 8240-680 (12/02)

Serial Number 100419

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN TRENT **STL**

(X) STL Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.stl-inc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

( ) Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE: Monsanto Dead Creek	PROJECT NO.: 043-8670	PROJECT LOCATION (STATE): IL
STL (LAB) PROJECT MANAGER: Lidia G.	P.O. NUMBER:	CONTRACT NO.:
CLIENT (SITE) PM: Mike Lemon	CLIENT PHONE: 636-724-9191	CLIENT FAX:
CLIENT NAME: Golder	CLIENT E-MAIL: mlemon@golder.com	
CLIENT ADDRESS: 820 S. Main Ste 100, St. Charles, MO		
COMPANY CONTRACTING THIS WORK (if applicable): Monsanto – Richard Williams		

PAGE 1 OF 2

STANDARD REPORT DELIVERY (X)
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ( )
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: 6010 Cadmium

PRESERVATIVE: HNO_3

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT,...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
7/10/07	1250	MW-T7-UNF		X				1	Level IV QAQC
7/10/07	1255	MW-T7-10		X				1	
7/10/07	1300	MW-T7-0.45		X				1	
7/11/07	0920	MW-T16-UNF		X				1	
7/11/07	0920	MW-T16-UNF-MS		X				1	
7/11/07	0920	MW-T16-UNF-MSD		X				1	
7/11/07	0925	MW-T16-10		X				1	
7/11/07	0930	MW-T16-0.45		X				1	
7/11/07	1125	MW-T2-UNF		X				1	
7/11/07	1130	MW-T2-10		X				1	
7/11/07	1135	MW-T2-0.45		X				1	
—	—	DUP-1		X				1	

TEMP. 3.8

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Michael D. Lemon	7/11/07	1700						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	STL SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	071207	0925	YES ( ) NO ( )		680-78339	

STL8240-680 (12/02)

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Golder Associates Inc.

Job Number: 680-28339-1
Sdg Number: SDC028

Login Number: **28339**

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	NA	
Samples do not require splitting or compositing.	NA	

APPENDIX C

DATA VALIDATION REPORTS

QA LEVEL 3 - INORGANIC DATA EVALUATION CHECKLIST

Company Name: Golder Associates
Project Name: Monsanto Dead Creek
Reviewer: Amanda Gilbertson

Project Manager: Mark Haddock
Project Number: 043-9670
Validation Date: 08/13/07

Laboratory: Test America
SDG #: SDC028
Analytical Method (type and no.): Metals 6020
Matrix: ☐ Air ☐ Soil/Sed. ☒ Water ☐ Waste ☐
Sample Names MW-T7-UNF, MW-T7-10, MW-T7-0.45, MW-T16-UNF, MW-T16-10, MW-T16-0.45, MW-T2-UNF, MW-T2-10, MW-T2-0.45, DUP-1, MW-T6-UNF, MW-T6-10, MW-T6-0.45, DUP-2

NOTE: Please provide calculation in Comment areas or on the back (if on the back please indicate in comment areas).

Field Information	YES	NO	NA	COMMENTS
a) Sampling dates noted?	☒	☐	☐	
b) Sampling team indicated?	☒	☐	☐	
c) Sample location noted?	☒	☐	☐	
d) Sample depth indicated (Soils)?	☐	☐	☒	
e) Sample type indicated (grab/composite)?	☒	☐	☐	Aqueous
f) Field QC noted?	☒	☐	☐	
g) Field parameters collected (note types)?	☐	☐	☐	
h) Field Calibration within control limits?	☐	☐	☐	
i) Notations of unacceptable field conditions/performances from field logs or field notes?	☐	☐	☐	
j) Does the laboratory narrative indicate deficiencies?	☐	☐	☒	

Note Deficiencies:

Chain-of-Custody (COC)	YES	NO	NA	COMMENTS
a) Was the COC properly completed?	☒	☐	☐	
b) Was the COC signed by both field and laboratory personnel?	☒	☐	☐	
c) Were samples received in good condition?	☒	☐	☐	

General (reference QAPP or Method)	YES	NO	NA	COMMENTS
a) Were hold times met for sample pretreatment?	☒	☐	☐	
b) Were hold times met for sample analysis?	☒	☐	☐	
c) Were the correct preservatives used?	☒	☐	☐	
d) Was the correct method used?	☒	☐	☐	
e) Were appropriate reporting limits achieved?	☒	☐	☐	
f) Were any sample dilutions noted?	☒	☐	☐	
g) Were any matrix problems noted?	☐	☒	☐	

QA LEVEL 3 - INORGANIC DATA EVALUATION CHECKLIST

Calibration Verification (ICV/CCV)	YES	NO	NA	COMMENTS
a) Complete for all target metals and CN?	☐	☐	☐	
b) ICV criteria achieved?	☒	☐	☐	
c) CCV criteria achieved?	☒	☐	☐	
d) CCV analyzed every 2 hours or 10 samples?	☒	☐	☐	
e) CRDL standard analyzed for ICP and AA?	☒	☐	☐	(not necessarily required for SW846)
f) If analyzed, run at appropriate frequency?	☒	☐	☐	
g) If analyzed, within control limits?	☒	☐	☐	%R = 98%

Blanks	YES	NO	NA	COMMENTS
a) Were blanks performed at required frequency?	☒	☐	☐	
b) Were analytes detected in the prep blank(s)?	☐	☒	☐	
c) ICB/CCB for all target metals and CN?	☒	☐	☐	
d) ICB criteria achieved?	☒	☐	☐	
e) CCB criteria achieved?	☒	☐	☐	
f) CCB analyzed every 2 hours or 10 samples?	☒	☐	☐	
g) Were analytes detected in the field/equip blank(s)?	☐	☐	☒	

Matrix Spike/Matrix Spike Duplicate (MS/MSD)	YES	NO	NA	COMMENTS
a) Was MS accuracy criteria met (note %R)?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
b) Was MSD accuracy criteria met (note %R)?	☐	☐	☒	
Recovery could not be calculated since sample contained high concentration of analyte?	☐	☐	☒	
c) Were MS/MSD precision criteria met (note RPD)?	☐	☐	☒	

Laboratory Control Sample (LCS)	YES	NO	NA	COMMENTS
d) Was a LCS analyzed once per SDG?	☒	☐	☐	
e) Were the proper analytes included in the LCS?	☒	☐	☐	
f) Was the LCS accuracy criteria met?	☒	☐	☐	

Duplicates (Lab and Field)	YES	NO	NA	COMMENTS
g) Were field duplicates collected (note original and duplicate sample names)?	☒	☐	☐	MW-T2-UNF / DUP-1 ; MW-T6-0.45 / DUP-2
h) Were field dup. precision criteria met (note RPD)?	☒	☐	☐	RPD<20%
i) Were lab duplicates analyzed (note original and duplicate samples)?	☒	☐	☐	MW-T16-UNFSD
j) Were lab dup. precision criteria met (note RPD)?	☒	☐	☐	RPD<20%

QA LEVEL 3 - INORGANIC DATA EVALUATION CHECKLIST

ICP Serial Dilution	YES	NO	NA	COMMENTS
a) Was a ICP SD analyzed once per SDG?	☒	☐	☐	
b) Was the ICP SD criteria met?	☐	☒	☐	%D > 10%

Blind Standards	YES	NO	NA	COMMENTS
a) Was a blind standard used (indicate name, analytes included and concentrations)?	☐	☐	☒	
b) Was the %D within control limits?	☐	☐	☒	

Split Sample Results	YES	NO	NA	COMMENTS
a) Were split samples collected (indicate IDs)?	☐	☐	☒	
b) Were the split sample results within criteria?	☐	☐	☒	

Comments/Notes: all ≥MDL qualified w/ UJ; non-detected qualified w/ UJ because ICP SD %D >10%.

QA LEVEL 3 - INORGANIC DATA EVALUATION CHECKLIST

Data Qualification:

Sample Name	Constituent(s)	Result	Qualifier	Reason
MW-T16-0.45	Cadmium		UJ	ICP SD % > 10%
MW-T2-UNF			J	
MW-T2-10			J	
MW-T2-0.45			J	
DUP-1			J	
MW-T6-10			UJ	
MW-T6-0.45			UJ	

Signature: _____ Date: 8/17/07