

ANALYTICAL SUMMARY REPORT

May 01, 2012

Cotter Corporation
0502 Fremont Cnty Rd 68
Canon City, CO 81212

Workorder No.: C12030890 Quote ID: C3386 - Schwartzwalder Mine

Project Name: Schwartz GW 3/22/12 S26346-S26347

Energy Laboratories, Inc. Casper WY received the following 2 samples for Cotter Corporation on 3/26/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C12030890-001	Sump-1 (S26346)	03/22/12 09:45	03/26/12	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Total Alkalinity QA Calculations Mercury, Total Mercury Analysis Prep Field Parameters E300.0 Anions Nitrogen, Nitrate + Nitrite Metals Preparation by EPA 200.2 Phosphorus, Total Gross Alpha, Gross Beta Radium 226, Dissolved Solids, Total Dissolved
C12030890-002	Sump-8 (S26347)	03/23/12 10:55	03/26/12	Aqueous	Same As Above

The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing. Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. Data corrected for moisture content are typically noted as - dry on the report. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

If you have any questions regarding these test results, please call.

Report Approved By:



CLIENT: Cotter Corporation
Project: Schwartz GW 3/22/12 S26346-S26347
Sample Delivery Group: C12030890

Report Date: 05/01/12

CASE NARRATIVE

BRANCH LABORATORY SUBCONTRACT ANALYSIS

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

PREP COMMENTS

The prep hold time for Mercury Analysis was exceeded by up to 11.0 days.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Cotter Corporation
Project: Schwartz GW 3/22/12 S26346-S26347
Lab ID: C12030890-001
Client Sample ID: Sump-1 (S26346)

Report Date: 05/01/12
Collection Date: 03/22/12 09:45
Date Received: 03/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	158	mg/L		1		A2320 B	03/26/12 16:51 / jba
Bicarbonate as HCO ₃	192	mg/L		1		A2320 B	03/26/12 16:51 / jba
Calcium	113	mg/L		0.1		E200.7	03/28/12 22:14 / rdw
Chloride	32	mg/L		3		E300.0	03/29/12 14:55 / ljl
Magnesium	49.7	mg/L		0.1		E200.7	03/28/12 22:14 / rdw
Nitrogen, Nitrate+Nitrite as N	0.2	mg/L		0.1		E353.2	03/29/12 14:15 / eli-b
Phosphorus, Total as P	ND	mg/L		0.01		E365.1	03/29/12 14:54 / eli-b
Potassium	5.1	mg/L		0.1		E200.7	03/28/12 22:14 / rdw
Sodium	46.6	mg/L		0.1		E200.7	03/28/12 22:14 / rdw
Sulfate	395	mg/L		5		E300.0	03/29/12 14:55 / ljl
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	793	mg/L		10		A2540 C	03/27/12 12:50 / ab
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.2		E200.8	03/26/12 19:27 / smm
Antimony	ND	mg/L		0.001		E200.8	03/26/12 19:27 / smm
Copper	0.003	mg/L		0.001		E200.8	03/26/12 19:27 / smm
Iron	ND	mg/L		0.03		E200.7	03/28/12 22:14 / rdw
Manganese	0.008	mg/L		0.005		E200.7	03/28/12 22:14 / rdw
Molybdenum	0.043	mg/L		0.005		E200.8	03/26/12 19:27 / smm
Thallium	ND	mg/L		0.0002		E200.8	03/26/12 19:27 / smm
Uranium	3.35	mg/L		0.0002		E200.8	03/26/12 19:27 / smm
Zinc	0.028	mg/L		0.005		E200.8	03/26/12 19:27 / smm
METALS - TOTAL							
Aluminum	ND	mg/L		0.2		E200.7	03/28/12 22:18 / rdw
Antimony	ND	mg/L		0.001		E200.8	03/29/12 14:16 / smm
Arsenic	ND	mg/L		0.001		E200.8	03/29/12 14:16 / smm
Copper	0.003	mg/L		0.001		E200.8	03/29/12 14:16 / smm
Iron	ND	mg/L		0.03		E200.7	03/28/12 22:18 / rdw
Lead	ND	mg/L		0.005		E200.8	03/29/12 14:16 / smm
Manganese	0.008	mg/L		0.005		E200.7	03/28/12 22:18 / rdw
Mercury	ND	mg/L		0.0001		E245.1	04/30/12 14:40 / rdw
Silver	ND	mg/L	D	0.00008		E200.8	03/29/12 14:16 / smm
Thallium	ND	mg/L		0.0002		E200.8	03/29/12 14:16 / smm
Zinc	0.054	mg/L		0.005		E200.7	03/28/12 22:18 / rdw
RADIONUCLIDES - DISSOLVED							
Radium 226	4.7	pCi/L				E903.0	04/03/12 12:50 / lbb
Radium 226 precision (±)	0.41	pCi/L				E903.0	04/03/12 12:50 / lbb
Radium 226 MDC	0.16	pCi/L				E903.0	04/03/12 12:50 / lbb

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Cotter Corporation
Project: Schwartz GW 3/22/12 S26346-S26347
Lab ID: C12030890-001
Client Sample ID: Sump-1 (S26346)

Report Date: 05/01/12
Collection Date: 03/22/12 09:45
Date Received: 03/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha	3770	pCi/L			E900.0		04/03/12 22:22 / ep
Gross Alpha precision (±)	42.9	pCi/L			E900.0		04/03/12 22:22 / ep
Gross Alpha MDC	6.0	pCi/L			E900.0		04/03/12 22:22 / ep
Gross Beta	750	pCi/L			E900.0		04/03/12 22:22 / ep
Gross Beta precision (±)	9.9	pCi/L			E900.0		04/03/12 22:22 / ep
Gross Beta MDC	5.0	pCi/L			E900.0		04/03/12 22:22 / ep
DATA QUALITY							
A/C Balance (± 5)	-1.74	%			Calculation		04/03/12 06:56 / kbh
Anions	12.3	meq/L			Calculation		04/03/12 06:56 / kbh
Cations	11.9	meq/L			Calculation		04/03/12 06:56 / kbh
Solids, Total Dissolved Calculated	756	mg/L			Calculation		04/03/12 06:56 / kbh
TDS Balance (0.80 - 1.20)	1.05				Calculation		04/03/12 06:56 / kbh
FIELD PARAMETERS							
Depth to Water	4.55	feet			FIELD		03/22/12 11:05 / ***
Field Conductivity	1080	umhos/cm			FIELD		03/22/12 11:05 / ***
Field pH	7.19	s.u.			FIELD		03/22/12 11:05 / ***
Field Temperature, C	5.7	°C			FIELD		03/22/12 11:05 / ***
Flow	14.2	gpm			FIELD		03/22/12 11:05 / ***

*** Performed by Sampler

Report Definitions:
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MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Cotter Corporation
Project: Schwartz GW 3/22/12 S26346-S26347
Lab ID: C12030890-002
Client Sample ID: Sump-8 (S26347)

Report Date: 05/01/12
Collection Date: 03/23/12 10:55
Date Received: 03/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	103	mg/L		1		A2320 B	03/26/12 17:06 / jba
Bicarbonate as HCO ₃	126	mg/L		1		A2320 B	03/26/12 17:06 / jba
Calcium	55.1	mg/L		0.1		E200.7	03/28/12 22:23 / rdw
Chloride	30	mg/L		3		E300.0	04/04/12 21:08 / ljl
Magnesium	20.2	mg/L		0.1		E200.7	03/28/12 22:23 / rdw
Nitrogen, Nitrate+Nitrite as N	0.3	mg/L		0.1		E353.2	03/29/12 14:16 / eli-b
Phosphorus, Total as P	ND	mg/L		0.01		E365.1	03/29/12 14:55 / eli-b
Potassium	3.2	mg/L		0.1		E200.7	03/28/12 22:23 / rdw
Sodium	20.7	mg/L		0.1		E200.7	03/28/12 22:23 / rdw
Sulfate	127	mg/L		5		E300.0	04/04/12 21:08 / ljl
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	348	mg/L		10		A2540 C	03/27/12 12:50 / ab
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.2		E200.8	03/26/12 19:29 / smm
Antimony	ND	mg/L		0.001		E200.8	03/26/12 19:29 / smm
Copper	0.002	mg/L		0.001		E200.8	03/26/12 19:29 / smm
Iron	ND	mg/L		0.03		E200.7	03/28/12 22:23 / rdw
Manganese	ND	mg/L		0.005		E200.8	03/26/12 19:29 / smm
Molybdenum	0.028	mg/L		0.005		E200.8	03/26/12 19:29 / smm
Thallium	ND	mg/L		0.0002		E200.8	03/26/12 19:29 / smm
Uranium	0.489	mg/L		0.0002		E200.8	03/26/12 19:29 / smm
Zinc	0.010	mg/L		0.005		E200.8	03/26/12 19:29 / smm
METALS - TOTAL							
Aluminum	ND	mg/L		0.2		E200.7	03/28/12 22:35 / rdw
Antimony	ND	mg/L		0.001		E200.8	03/29/12 14:51 / smm
Arsenic	ND	mg/L		0.001		E200.8	03/29/12 14:51 / smm
Copper	0.002	mg/L		0.001		E200.8	03/29/12 14:51 / smm
Iron	ND	mg/L		0.03		E200.7	03/28/12 22:35 / rdw
Lead	ND	mg/L		0.005		E200.8	03/29/12 14:51 / smm
Manganese	ND	mg/L		0.005		E200.7	03/28/12 22:35 / rdw
Mercury	ND	mg/L		0.0001		E245.1	04/30/12 14:42 / rdw
Silver	ND	mg/L	D	0.00008		E200.8	03/29/12 14:51 / smm
Thallium	ND	mg/L		0.0002		E200.8	03/29/12 14:51 / smm
Zinc	0.014	mg/L		0.005		E200.8	03/29/12 14:51 / smm
RADIONUCLIDES - DISSOLVED							
Radium 226	0.11	pCi/L	U			E903.0	04/03/12 12:50 / lbb
Radium 226 precision (±)	0.12	pCi/L				E903.0	04/03/12 12:50 / lbb
Radium 226 MDC	0.17	pCi/L				E903.0	04/03/12 12:50 / lbb

Report Definitions:
RL - Analyte reporting limit.
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MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
D - RL increased due to sample matrix.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Cotter Corporation
Project: Schwartz GW 3/22/12 S26346-S26347
Lab ID: C12030890-002
Client Sample ID: Sump-8 (S26347)

Report Date: 05/01/12
Collection Date: 03/23/12 10:55
Date Received: 03/26/12
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - TOTAL							
Gross Alpha	437	pCi/L				E900.0	04/05/12 01:18 / ep
Gross Alpha precision (±)	10.8	pCi/L				E900.0	04/05/12 01:18 / ep
Gross Alpha MDC	3.2	pCi/L				E900.0	04/05/12 01:18 / ep
Gross Beta	111	pCi/L				E900.0	04/05/12 01:18 / ep
Gross Beta precision (±)	3.2	pCi/L				E900.0	04/05/12 01:18 / ep
Gross Beta MDC	2.8	pCi/L				E900.0	04/05/12 01:18 / ep
DATA QUALITY							
A/C Balance (± 5)	-1.85	%				Calculation	04/11/12 08:21 / kbh
Anions	5.60	meq/L				Calculation	04/11/12 08:21 / kbh
Cations	5.40	meq/L				Calculation	04/11/12 08:21 / kbh
Solids, Total Dissolved Calculated	337	mg/L				Calculation	04/11/12 08:21 / kbh
TDS Balance (0.80 - 1.20)	1.03					Calculation	04/11/12 08:21 / kbh
FIELD PARAMETERS							
Depth to Water	20.4	feet				FIELD	03/23/12 10:55 / ***
Field Conductivity	559	umhos/cm				FIELD	03/23/12 10:55 / ***
Field pH	7.20	s.u.				FIELD	03/23/12 10:55 / ***
Field Temperature, C	5.7	°C				FIELD	03/23/12 10:55 / ***
Flow	8.5	gpm				FIELD	03/23/12 10:55 / ***

*** Performed by Sampler

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R157781
Sample ID: MBLK										
	2	Method Blank					Run: MANTECH_120326A			03/26/12 14:47
Alkalinity, Total as CaCO ₃		3.45	mg/L	1.0						
Bicarbonate as HCO ₃		4.21	mg/L	1.0						
Sample ID: LCS-6677										
		Laboratory Control Sample					Run: MANTECH_120326A			03/26/12 15:02
Alkalinity, Total as CaCO ₃		201	mg/L	5.0	99	90	110			
Sample ID: C12030863-001AMS										
		Sample Matrix Spike					Run: MANTECH_120326A			03/26/12 15:34
Alkalinity, Total as CaCO ₃		378	mg/L	5.0	101	80	120			
Sample ID: C12030890-001BDUP										
	2	Sample Duplicate					Run: MANTECH_120326A			03/26/12 16:58
Alkalinity, Total as CaCO ₃		159	mg/L	5.0				0.7	10	
Bicarbonate as HCO ₃		194	mg/L	5.0				0.7	10	

Qualifiers:

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MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 120327_1_SLDS-TDS-W		
Sample ID: MBLK1_120327		Method Blank				Run: BAL-1_120327B				03/27/12 12:43
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_120327		Laboratory Control Sample				Run: BAL-1_120327B				03/27/12 12:44
Solids, Total Dissolved TDS @ 180 C		1620	mg/L	10	97	90	110			
Sample ID: C12030741-002ADUP		Sample Duplicate				Run: BAL-1_120327B				03/27/12 12:44
Solids, Total Dissolved TDS @ 180 C		49200	mg/L	110				0.1	5	
Sample ID: C12030863-004AMS		Sample Matrix Spike				Run: BAL-1_120327B				03/27/12 12:48
Solids, Total Dissolved TDS @ 180 C		4060	mg/L	10	100	90	110			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Analytical Run: ICP2-C_120328A		
Sample ID: ICV	8	Initial Calibration Verification Standard							03/28/12 16:08	
Aluminum		4.84	mg/L	0.10	97	95	105			
Calcium		49.2	mg/L	0.50	98	95	105			
Iron		5.07	mg/L	0.030	101	95	105			
Magnesium		48.5	mg/L	0.50	97	95	105			
Manganese		5.07	mg/L	0.010	101	95	105			
Potassium		50.5	mg/L	2.7	101	95	105			
Sodium		50.7	mg/L	0.50	101	95	105			
Zinc		1.00	mg/L	0.010	100	95	105			
Sample ID: ICSA	8	Interference Check Sample A							03/28/12 16:29	
Aluminum		532	mg/L	0.10	106	80	120			
Calcium		513	mg/L	0.50	103	80	120			
Iron		197	mg/L	0.030	98	80	120			
Magnesium		527	mg/L	0.50	105	80	120			
Manganese		-0.00470	mg/L	0.010						
Potassium		0.00300	mg/L	0.50						
Sodium		-0.0631	mg/L	0.50						
Zinc		ND	mg/L	0.010						
Sample ID: ICSAB	8	Interference Check Sample AB							03/28/12 16:33	
Aluminum		544	mg/L	0.10	109	80	120			
Calcium		529	mg/L	0.50	106	80	120			
Iron		202	mg/L	0.030	101	80	120			
Magnesium		555	mg/L	0.50	111	80	120			
Manganese		0.523	mg/L	0.010	105	80	120			
Potassium		0.00400	mg/L	0.50						
Sodium		-0.296	mg/L	0.50						
Zinc		1.08	mg/L	0.010	108	80	120			
Method: E200.7								Batch: R157883		
Sample ID: MB-120328A	8	Method Blank							Run: ICP2-C_120328A	
Aluminum		ND	mg/L	0.20					03/28/12 16:53	
Calcium		ND	mg/L	0.10						
Iron		ND	mg/L	0.030						
Magnesium		ND	mg/L	0.10						
Manganese		ND	mg/L	0.0050						
Potassium		ND	mg/L	0.10						
Sodium		ND	mg/L	0.10						
Zinc		0.00510	mg/L	0.0050						
Sample ID: LFB-120328A	8	Laboratory Fortified Blank							Run: ICP2-C_120328A	
Aluminum		0.981	mg/L	0.10	98	85	115		03/28/12 16:57	
Calcium		48.8	mg/L	0.50	98	85	115			
Iron		0.997	mg/L	0.030	99	85	115			
Magnesium		47.7	mg/L	0.50	95	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R157883
Sample ID: LFB-120328A	8	Laboratory Fortified Blank				Run: ICP2-C_120328A				03/28/12 16:57
Manganese		0.986	mg/L	0.010	99	85	115			
Potassium		43.7	mg/L	0.50	87	85	115			
Sodium		48.8	mg/L	0.50	98	85	115			
Zinc		0.991	mg/L	0.010	99	85	115			
Sample ID: C12030890-002CMS2	8	Sample Matrix Spike				Run: ICP2-C_120328A				03/28/12 22:27
Aluminum		1.98	mg/L	0.030	97	70	130			
Calcium		151	mg/L	1.0	94	70	130			
Iron		1.97	mg/L	0.030	96	70	130			
Magnesium		114	mg/L	1.0	92	70	130			
Manganese		1.95	mg/L	0.0010	96	70	130			
Potassium		92.2	mg/L	1.0	87	70	130			
Sodium		117	mg/L	1.0	94	70	130			
Zinc		1.99	mg/L	0.010	96	70	130			
Sample ID: C12030890-002CMSD	8	Sample Matrix Spike Duplicate				Run: ICP2-C_120328A				03/28/12 22:31
Aluminum		1.96	mg/L	0.030	96	70	130	1.0	20	
Calcium		153	mg/L	1.0	96	70	130	1.3	20	
Iron		1.96	mg/L	0.030	96	70	130	0.6	20	
Magnesium		115	mg/L	1.0	93	70	130	0.4	20	
Manganese		1.97	mg/L	0.0010	96	70	130	0.8	20	
Potassium		93.5	mg/L	1.0	89	70	130	1.5	20	
Sodium		119	mg/L	1.0	96	70	130	1.7	20	
Zinc		1.99	mg/L	0.010	96	70	130	0.2	20	

Qualifiers:

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QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Analytical Run: ICPMS2-C_120326B			
Sample ID: ICV	8	Initial Calibration Verification Standard							03/26/12 18:45	
Aluminum		0.0487	mg/L	0.0010	97	90	110			
Antimony		0.0488	mg/L	0.0010	98	90	110			
Copper		0.0491	mg/L	0.0010	98	90	110			
Manganese		0.0495	mg/L	0.0010	99	90	110			
Molybdenum		0.0493	mg/L	0.0010	99	90	110			
Thallium		0.0490	mg/L	0.0010	98	90	110			
Uranium		0.0496	mg/L	0.00030	99	90	110			
Zinc		0.0491	mg/L	0.0010	98	90	110			
Method: E200.8							Batch: R157785			
Sample ID: LRB	8	Method Blank				Run: ICPMS2-C_120326B			03/26/12 19:09	
Aluminum		ND	mg/L	0.20						
Antimony		ND	mg/L	0.0010						
Copper		ND	mg/L	0.0010						
Manganese		ND	mg/L	0.0050						
Molybdenum		ND	mg/L	0.0050						
Thallium		ND	mg/L	0.00020						
Uranium		ND	mg/L	0.00020						
Zinc		ND	mg/L	0.0050						
Sample ID: LFB	8	Laboratory Fortified Blank				Run: ICPMS2-C_120326B			03/26/12 19:12	
Aluminum		0.0509	mg/L	0.0010	102	85	115			
Antimony		0.0535	mg/L	0.0010	107	85	115			
Copper		0.0486	mg/L	0.0010	97	85	115			
Manganese		0.0523	mg/L	0.0010	105	85	115			
Molybdenum		0.0532	mg/L	0.0010	106	85	115			
Thallium		0.0519	mg/L	0.0010	104	85	115			
Uranium		0.0524	mg/L	0.00030	105	85	115			
Zinc		0.0506	mg/L	0.0010	101	85	115			
Sample ID: C12030899-002AMS4	8	Sample Matrix Spike				Run: ICPMS2-C_120326B			03/26/12 19:47	
Aluminum		0.0505	mg/L	0.030	91	70	130			
Antimony		0.0622	mg/L	0.0010	123	70	130			
Copper		0.0429	mg/L	0.0050	80	70	130			
Manganese		0.0663	mg/L	0.0010	106	70	130			
Molybdenum		0.0559	mg/L	0.0010	108	70	130			
Thallium		0.0520	mg/L	0.00050	104	70	130			
Uranium		0.0539	mg/L	0.00030	102	70	130			
Zinc		0.0512	mg/L	0.010	88	70	130			
Sample ID: C12030899-002AMSD	8	Sample Matrix Spike Duplicate				Run: ICPMS2-C_120326B			03/26/12 19:50	
Aluminum		0.0483	mg/L	0.030	87	70	130	4.5	20	
Antimony		0.0618	mg/L	0.0010	123	70	130	0.5	20	
Copper		0.0446	mg/L	0.0050	84	70	130	3.9	20	
Manganese		0.0651	mg/L	0.0010	104	70	130	1.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R157785
Sample ID: C12030899-002AMSD 8 Sample Matrix Spike Duplicate										Run: ICPMS2-C_120326B 03/26/12 19:50
Molybdenum		0.0564	mg/L	0.0010	109	70	130	1.0	20	
Thallium		0.0544	mg/L	0.00050	109	70	130	4.4	20	
Uranium		0.0580	mg/L	0.00030	110	70	130	7.4	20	
Zinc		0.0537	mg/L	0.010	93	70	130	4.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8							Analytical Run: ICPMS4-C_120329A			
Sample ID: ICV	7	Initial Calibration Verification Standard						03/29/12 12:32		
Antimony		0.0498	mg/L	0.0010	100	90	110			
Arsenic		0.0503	mg/L	0.0010	101	90	110			
Copper		0.0513	mg/L	0.0010	103	90	110			
Lead		0.0489	mg/L	0.0010	98	90	110			
Silver		0.0200	mg/L	0.0010	100	90	110			
Thallium		0.0485	mg/L	0.0010	97	90	110			
Zinc		0.0522	mg/L	0.0010	104	90	110			
Method: E200.8							Batch: R157941A			
Sample ID: C12030962-001CMS4	7	Sample Matrix Spike			Run: ICPMS4-C_120329A			03/29/12 16:21		
Antimony		0.0512	mg/L	0.0010	102	70	130			
Arsenic		0.0502	mg/L	0.0010	100	70	130			
Copper		0.0483	mg/L	0.0050	96	70	130			
Lead		0.0494	mg/L	0.0010	99	70	130			
Silver		0.0199	mg/L	0.0010	99	70	130			
Thallium		0.0492	mg/L	0.00050	98	70	130			
Zinc		0.0507	mg/L	0.010	97	70	130			
Sample ID: C12030962-001CMSD	7	Sample Matrix Spike Duplicate			Run: ICPMS4-C_120329A			03/29/12 16:28		
Antimony		0.0597	mg/L	0.0010	119	70	130	15	20	
Arsenic		0.0585	mg/L	0.0010	116	70	130	15	20	
Copper		0.0561	mg/L	0.0050	112	70	130	15	20	
Lead		0.0574	mg/L	0.0010	115	70	130	15	20	
Silver		0.0223	mg/L	0.0010	112	70	130	12	20	
Thallium		0.0576	mg/L	0.00050	115	70	130	16	20	
Zinc		0.0587	mg/L	0.010	113	70	130	15	20	
Sample ID: LRB	7	Method Blank			Run: ICPMS4-C_120329A			03/29/12 13:28		
Antimony		ND	mg/L	0.0010						
Arsenic		ND	mg/L	0.0010						
Copper		ND	mg/L	0.0010						
Lead		ND	mg/L	0.0050						
Silver		8.41E-05	mg/L	8.0E-05						
Thallium		ND	mg/L	0.00020						
Zinc		ND	mg/L	0.0050						
Sample ID: LFB	7	Laboratory Fortified Blank			Run: ICPMS4-C_120329A			03/29/12 15:12		
Antimony		0.0498	mg/L	0.0010	100	85	115			
Arsenic		0.0499	mg/L	0.0010	100	85	115			
Copper		0.0512	mg/L	0.0010	102	85	115			
Lead		0.0510	mg/L	0.0010	102	85	115			
Silver		0.0200	mg/L	0.0010	100	85	115			
Thallium		0.0506	mg/L	0.0010	101	85	115			
Zinc		0.0528	mg/L	0.0010	106	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E245.1							Analytical Run: CVAA_C203_120430A			
Sample ID: ICV		Initial Calibration Verification Standard							04/30/12 13:50	
Mercury		0.00522	mg/L	0.00020	104	90	110			
Sample ID: CCV1		Continuing Calibration Verification Standard							04/30/12 14:06	
Mercury		0.00510	mg/L	0.00020	102	95	105			
Method: E245.1							Batch: 33493			
Sample ID: MB-33493		Method Blank				Run: CVAA_C203_120430A			04/30/12 14:09	
Mercury		ND	mg/L	0.00010						
Sample ID: LCS-33493		Laboratory Control Sample				Run: CVAA_C203_120430A			04/30/12 14:10	
Mercury		0.00566	mg/L	0.00020	113	85	115			
Sample ID: C12041292-001CMS		Sample Matrix Spike				Run: CVAA_C203_120430A			04/30/12 14:31	
Mercury		0.00500	mg/L	0.00020	100	70	130			
Sample ID: C12041292-001CMSD		Sample Matrix Spike Duplicate				Run: CVAA_C203_120430A			04/30/12 14:32	
Mercury		0.00500	mg/L	0.00020	100	70	130	0.0	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_120328A		
Sample ID: ICV-032812-10	2	Initial Calibration Verification Standard								03/28/12 13:28
Chloride		10.0	mg/L	1.0	100	90	110			
Sulfate		39.4	mg/L	1.0	98	90	110			
Method: E300.0								Batch: R157927		
Sample ID: ICB-032812-11	2	Method Blank								03/28/12 13:44
Chloride		ND	mg/L	3.0						
Sulfate		ND	mg/L	5.0						
Sample ID: LFB-032812-12	2	Laboratory Fortified Blank								03/28/12 14:01
Chloride		10.2	mg/L	1.0	102	90	110			
Sulfate		39.6	mg/L	1.0	99	90	110			
Sample ID: C12031024-001AMS	2	Sample Matrix Spike								03/29/12 15:28
Chloride		11000	mg/L	40		90	110			A
Sulfate		7490	mg/L	160	97	90	110			
Sample ID: C12031024-001AMSD	2	Sample Matrix Spike Duplicate								03/29/12 15:44
Chloride		11000	mg/L	40		90	110	0.1	10	A
Sulfate		7540	mg/L	160	98	90	110	0.7	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0								Analytical Run: IC2-C_120404A		
Sample ID: ICV-040412-10	2	Initial Calibration Verification Standard								04/04/12 13:56
Chloride		9.90	mg/L	1.0	99	90	110			
Sulfate		39.5	mg/L	1.0	99	90	110			
Sample ID: ICB2-040412-12	2	Initial Calibration Blank, Instrument Blank								04/04/12 14:26
Chloride		-0.0400	mg/L	1.0		0	0			
Sulfate		0.117	mg/L	1.0		0	0			
Method: E300.0								Batch: R158139		
Sample ID: ICB-040412-11	2	Method Blank				Run: IC2-C_120404A			04/04/12 14:11	
Chloride		ND	mg/L	3.0						
Sulfate		ND	mg/L	5.0						
Sample ID: LFB-040412-13	2	Laboratory Fortified Blank				Run: IC2-C_120404A			04/04/12 14:42	
Chloride		10.0	mg/L	1.0	100	90	110			
Sulfate		39.6	mg/L	1.0	99	90	110			
Sample ID: LFBD-040412-14	2	Laboratory Fortified Blank Duplicate				Run: IC2-C_120404A			04/04/12 14:57	
Chloride		10.1	mg/L	1.0	102	90	110	1.3	10	
Sulfate		40.1	mg/L	1.0	100	90	110	1.3	10	
Sample ID: C12030818-001AMS	2	Sample Matrix Spike				Run: IC2-C_120404A			04/04/12 19:30	
Chloride		106	mg/L	2.0	102	90	110			
Sulfate		1340	mg/L	8.0	85	90	110			S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.										
Sample ID: C12030818-001AMSD	2	Sample Matrix Spike Duplicate				Run: IC2-C_120404A			04/04/12 19:46	
Chloride		106	mg/L	2.0	102	90	110	0.2	10	
Sulfate		1320	mg/L	8.0	81	90	110	1.3	10	S
- Matrix spike recoveries outside the acceptance range are considered matrix-related.										

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2								Analytical Run: SUB-B182688		
Sample ID: ICV		Initial Calibration Verification Standard							03/29/12 11:14	
Nitrogen, Nitrate+Nitrite as N		22.0	mg/L	0.20	101	90	110			
Method: E353.2								Batch: B_R182688		
Sample ID: MBLK		Method Blank				Run: SUB-B182688		03/29/12 11:15		
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.10						
Sample ID: LFB		Laboratory Fortified Blank				Run: SUB-B182688		03/29/12 11:17		
Nitrogen, Nitrate+Nitrite as N		1.03	mg/L	0.010	105	90	110			
Sample ID: B12032119-006GMS		Sample Matrix Spike				Run: SUB-B182688		03/29/12 14:12		
Nitrogen, Nitrate+Nitrite as N		1.06	mg/L	0.010	106	90	110			
Sample ID: B12032119-006GMSD		Sample Matrix Spike Duplicate				Run: SUB-B182688		03/29/12 14:14		
Nitrogen, Nitrate+Nitrite as N		1.06	mg/L	0.010	106	90	110	0.5	10	
Sample ID: B12032072-002BMS		Sample Matrix Spike				Run: SUB-B182688		03/29/12 15:36		
Nitrogen, Nitrate+Nitrite as N		20.6	mg/L	0.10	105	90	110			
Sample ID: B12032072-002BMSD		Sample Matrix Spike Duplicate				Run: SUB-B182688		03/29/12 15:37		
Nitrogen, Nitrate+Nitrite as N		20.7	mg/L	0.10	106	90	110	0.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E365.1								Analytical Run: SUB-B182702		
Sample ID: ICV	Initial Calibration Verification Standard									03/29/12 14:47
Phosphorus, Total as P		0.242	mg/L	0.0050	97	90	110			
Method: E365.1								Batch: B_61305		
Sample ID: MB-61305	Method Blank					Run: SUB-B182702			03/29/12 14:49	
Phosphorus, Total as P		ND	mg/L	0.010						
Sample ID: LFB-61305	Laboratory Fortified Blank					Run: SUB-B182702			03/29/12 14:50	
Phosphorus, Total as P		0.204	mg/L	0.0050	102	90	110			
Sample ID: B12032119-006GMS	Sample Matrix Spike					Run: SUB-B182702			03/29/12 14:52	
Phosphorus, Total as P		0.203	mg/L	0.0050	101	90	110			
Sample ID: B12032119-006GMSD	Sample Matrix Spike Duplicate					Run: SUB-B182702			03/29/12 14:53	
Phosphorus, Total as P		0.211	mg/L	0.0050	105	90	110	3.9	10	
Sample ID: B12032126-002BMS	Sample Matrix Spike					Run: SUB-B182702			03/29/12 14:58	
Phosphorus, Total as P		19.0	mg/L	0.25	117	90	110			S
Sample ID: B12032126-002BMSD	Sample Matrix Spike Duplicate					Run: SUB-B182702			03/29/12 14:59	
Phosphorus, Total as P		19.2	mg/L	0.25	118	90	110	0.8	10	S

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E900.0									Batch: GrAB-1256	
Sample ID: MB-GrAB-1256	6	Method Blank				Run: G5000W_120329B			04/03/12 22:22	
Gross Alpha		-0.937	pCi/L							U
Gross Alpha precision (±)		0.822	pCi/L							
Gross Alpha MDC		1.50	pCi/L							
Gross Beta		1.13	pCi/L							U
Gross Beta precision (±)		1.54	pCi/L							
Gross Beta MDC		2.55	pCi/L							
Sample ID: Th230-GrAB-1256		Laboratory Control Sample				Run: G5000W_120329B			04/03/12 22:22	
Gross Alpha		104	pCi/L	103		80	120			
Sample ID: Sr90-GrAB-1256		Laboratory Control Sample				Run: G5000W_120329B			04/03/12 22:22	
Gross Beta		176	pCi/L	108		80	120			
Sample ID: C12030794-002ADUP	6	Sample Duplicate				Run: G5000W_120329B			04/03/12 22:22	
Gross Alpha		17.2	pCi/L					40	67.9	
Gross Alpha precision (±)		4.37	pCi/L							
Gross Alpha MDC		5.66	pCi/L							
Gross Beta		17.8	pCi/L					9.0	48.3	
Gross Beta precision (±)		3.56	pCi/L							
Gross Beta MDC		5.41	pCi/L							
Sample ID: C12030960-001AMS		Sample Matrix Spike				Run: G5000W_120329B			04/05/12 01:18	
Gross Alpha		105	pCi/L	100		70	130			
Sample ID: C12030960-001AMSD		Sample Matrix Spike Duplicate				Run: G5000W_120329B			04/05/12 01:18	
Gross Alpha		107	pCi/L	101		70	130	1.1	17.1	
Sample ID: C12030960-001AMS		Sample Matrix Spike				Run: G5000W_120329B			04/05/12 01:18	
Gross Beta		179	pCi/L	106		70	130			
Sample ID: C12030960-001AMSD		Sample Matrix Spike Duplicate				Run: G5000W_120329B			04/05/12 01:18	
Gross Beta		181	pCi/L	108		70	130	1.1	14.1	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Cotter Corporation

Report Date: 05/01/12

Project: Schwartz GW 3/22/12 S26346-S26347

Work Order: C12030890

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: RA226-5908	
Sample ID: LCS-RA226-5908	Laboratory Control Sample					Run: G542M_120328A			04/03/12 12:50	
Radium 226		6.5	pCi/L		102	80	120			
Sample ID: MB-RA226-5908	3	Method Blank				Run: G542M_120328A			04/03/12 12:50	
Radium 226		0.014	pCi/L							U
Radium 226 precision (±)		0.099	pCi/L							
Radium 226 MDC		0.17	pCi/L							
Sample ID: C12030890-001EMS		Sample Matrix Spike				Run: G542M_120328A			04/03/12 12:50	
Radium 226		16	pCi/L		92	70	130			
Sample ID: C12030890-001EMSD		Sample Matrix Spike Duplicate				Run: G542M_120328A			04/03/12 12:50	
Radium 226		17	pCi/L		96	70	130	3.7	23	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

Workorder Receipt Checklist



C12030890

Login completed by: Kristy Gisse
Reviewed by: BL2000\cwagner
Reviewed Date: 3/29/2012

Date Received: 3/26/2012

Received by: kg

Carrier FedEx
name:

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	

Container/Temp Blank temperature: 11.2°C Melted Ice

Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☒	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None



Chain of Custody and Analytical Request Record

PLEASE PRINT; provide as much information as possible. Refer to corresponding notes on reverse side. Page 1 of 1

Company Name: Cotter Corporation Tracking No. 5088 8525 4891		Project Name: Schwartz - [REDACTED] DATE: 3/22/12 SSTF: S26346 & S26347	
Report Mail Address: Cotter Corporation - Canon City Mill PO Box 1750; Canon City, CO 81215-1750		Contact Name: Randy Whicker Voice: 1-719-275-7413 ext. 210	
Invoice Address: PO Box 1750 Canon City, CO 81215-1750		Invoice Contact: JoAnne Ary Tel: 1-719-275-7413 ext. 209 Fax: 1-719-275-1669	
Report Required For: POTW/WWTP ☐ Other ☐ Special Report Formats - ELI must be notified prior to sample submittal for the following: NELAC ☐ A2LA ☐ Level IV ☐ Other ☐ EDD/EDT ☐ Format ☐		Notify ELI prior to RUSH sample submittal for additional charges and scheduling Comments: S&A Schedule Code: [REDACTED] GW CODE: [REDACTED] Frequency: [REDACTED]	
Report Required For: POTW/WWTP ☐ Other ☐ Special Report Formats - ELI must be notified prior to sample submittal for the following: NELAC ☐ A2LA ☐ Level IV ☐ Other ☐ EDD/EDT ☐ Format ☐		Receipt Temp 11.2 °C Cooler ID(s) C101 Custody Seal Y/N Intact Y/N Signature Y/N Match LAB ID Y/N	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc)		Normal Turnaround (TAT)	
1 SUMP - 1		☐	
2 SUMP - 8		☐	
3		☐	
4		☐	
5		☐	
6		☐	
7		☐	
8		☐	
9		☐	
10		☐	
Custody Record MUST be Signed		Received by: [REDACTED] Date/Time: [REDACTED]	
Relinquished by: Bob Tennant		Date/Time: 3-22-12 9:00	
Relinquished by: [REDACTED]		Date/Time: [REDACTED]	
Sample Disposal: Return to Client ☐ Lab Disposal ☒		LABORATORY USE ONLY Sample Type # of fractions	

COTTER CORPORATION SAMPLE SUBMITTAL AND TRACKING FORM

Sample Submittal No S 26346C: P.O. Box 1750
Cañon City, CO 81215S: P.O. Box 1750
Cañon City, CO 81215N: P.O. Box 700
Nucla, CO 81424Sample Loc./ID No. Samp-1

Lab. No.(s) _____

Sample Date 3-22-12 Time 9:45

Date Data Entered _____

Collected By Bob Tennant

Data Entry By _____

Field Custodian Bob Tennant

Laboratory Destination if not Cotter:

Cotter	Off-Site Destination
Delivered By <u>Bob Tennant</u>	<u>FedEx</u>

Energy Laboratories

Received By <u>FedEx</u>	<u>FE: Ex</u>
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2393 Salt Creek Hwy.Date Recd. 3-26-12Casper, WY. 82601Time Recd. 9:00

<u>Kris Bissac</u>

1. Sample Type: Air _____ Water 6 Soil _____ Other (specify): _____2. Analysis - Test series requested: Table 2

3. Field Data - Preservation: T° 5.7 pH 7.19 Cond. 1080 uS/cm
rinse Cond. 6.45 uS/cm, DTW 9.55 ppm rate 14.2 ppm
1GFAHNO₃ 20ml, 1LF, 1GFAHNO₃ 20ml
2 LUF, 1LUF, H₂SO₄ 5ml

4. Date analysis required by (if not Holding Time): _____

5. Special handling conditions or other instructions: _____

6. Invalidating circumstances? If YES initial () and explain below.

COMMENTS - Explanation of noted items: _____

() Check if additional attachments.

QA Review:

Sample valid? YES () NO () If NO, explain: _____

QAC _____ Date _____

COTTER CORPORATION SAMPLE SUBMITTAL AND TRACKING FORM

Sample Submittal № S 26347

C: P.O. Box 1750
Cañon City, CO 81215

S: P.O. Box 1750
Cañon City, CO 81215

N: P.O. Box 700
Nucila, CO 81424

Sample Loc./ID No. Samp-8

Lab. No.(s) _____

Sample Date 3-23-12 Time 1055

Date Data Entered _____

Collected By Bob Tennant

Data Entry By _____

Field Custodian Bob Tennant

Laboratory Destination if not Cotter:

	Cotter	Off-Site Destination
Delivered By	<u>Bob Tennant</u>	<u>FedEx</u>
Received By	<u>FedEx</u>	<u>FE-Ex</u>
Date Recd.	<u>3-26-12</u>	
Time Recd.	<u>9:00</u>	<u>Kris 6:55</u>

Energy Laboratories Inc.
2393 Salt Creek Hwy.
Casper, WY. 82601

1. Sample Type: Air _____ Water 6 ^{Containers} Soil _____ Other (specify): _____

2. Analysis - Test series requested: Table 2

3. Field Data - Preservation: T[°] 5.7 pH 7.20 Cond. 559 uS/cm
rinse cond. 6.32 uS/cm, DTW 20.4 ppm, 8.5 ppm
10FAHNO₃ 20ml, 1LF, 10FAHNO₃ 20ml
2LUF, 1LUF, H₂SO₄ 5ml

4. Date analysis required by (if not Holding Time): _____

5. Special handling conditions or other instructions: _____

6. Invalidating circumstances? If YES initial () and explain below.

COMMENTS - Explanation of noted items: _____

() Check if additional attachments.

QA Review:

Sample valid? YES () NO () If NO, explain: _____

QAC _____ Date _____