TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

RECEIVED
MAR 15 2011
HAZARDOUS MATERIALS
AND WASTE MANAGEMENT

Job Number: 280-12612-1

Job Description: Cotter Mill

For:
Cotter Corporation
0502 Fremont County Road 68
Canon City, CO 81212

Attention: Mr. Will Huskie

Dee Kettula

Approved for release.
Dee A Kettula
Project Mgmt. Assistant
2/25/2011 2:58 PM

Designee for
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02/25/2011
Revision: 1

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE

Client: Cotter Corporation

Project: Cotter Mill

Report Number: 280-12612-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/17/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 5.0 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS) - METHIOD 8260B

In some cases, due to the concentration of target analytes, a reduced aliquot size was used for sample preparation. Reporting limits and method detection limits have been elevated accordingly.

Methylene Chloride was detected in the method blank (MB) associated with batch 54184 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

The matrix spike and/or matrix spike duplicate (MS/MSD) samples associated with batch 54184 exhibited recoveries outside control limits for Benzene and 1,2-Dichloropropane. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data; therefore, corrective action is deemed unnecessary.

No other difficulties were encountered.

DATA REPORTING QUALIFIERS

Client: Cotter Corporation

Job Number: 280-12612-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

EXECUTIVE SUMMARY - Detections

Client: Cotter Corporation

Job Number: 280-12612-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-12612-2	**802**					
Trichloroethene		1800		67	ug/L	8260B
280-12612-3	**042**					
Trichloroethene		1200		67	ug/L	8260B
280-12612-4	**346**					
Trichloroethene		490		20	ug/L	8260B
280-12612-5	**348**					
Methylene Chloride		6.2	J B	10	ug/L	8260B
Trichloroethene		86		5.0	ug/L	8260B
280-12612-6	**EB01**					
Dichlorodifluoromethane		0.37	J	2.0	ug/L	8260B
Methylene Chloride		0.62	J B	2.0	ug/L	8260B
Trichloroethene		0.33	J	1.0	ug/L	8260B
280-12612-7	**DUP01**					
Trichloroethene		1600		100	ug/L	8260B
280-12612-8	**TRIP BLANK**					
Methylene Chloride		0.65	J B	2.0	ug/L	8260B

METHOD SUMMARY

Client: Cotter Corporation

Job Number: 280-12612-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B

Lab References:

TAL DEN = TestAmerica Denver

Method References:

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

METHOD / ANALYST SUMMARY

Client: Cotter Corporation

Job Number: 280-12612-1

Method	Analyst	Analyst ID
SW846 8260B	Jackson, Todd D	TDJ

SAMPLE SUMMARY

Client: Cotter Corporation

Job Number: 280-12612-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-12612-1	024	Water	02/16/2011 0920	02/17/2011 1426
280-12612-2	802	Water	02/16/2011 1045	02/17/2011 1426
280-12612-3	042	Water	02/17/2011 0815	02/17/2011 1426
280-12612-4	346	Water	02/17/2011 0930	02/17/2011 1426
280-12612-5	348	Water	02/17/2011 1100	02/17/2011 1426
280-12612-6	EB01	Water	02/16/2011 1105	02/17/2011 1426
280-12612-7	DUP01	Water	02/16/2011 2359	02/17/2011 1426
280-12612-8	TRIP BLANK	Water	02/16/2011 0000	02/17/2011 1426

SAMPLE RESULTS

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **024**

Lab Sample ID: 280-12612-1
Client Matrix: Water

Date Sampled: 02/16/2011 0920
Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 02/18/2011 2143
Date Prepared: 02/18/2011 2143

Analysis Batch: 280-54184

Instrument ID: MSV_R2
Lab File ID: RR1547.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.16	1.0
m-Xylene & p-Xylene	ND		0.34	2.0
N-Propylbenzene	ND		0.16	1.0
n-Butylbenzene	ND		0.14	1.0
o-Xylene	ND		0.19	1.0
sec-Butylbenzene	ND		0.17	1.0
tert-Butylbenzene	ND		0.16	1.0
trans-1,2-Dichloroethene	ND		0.15	1.0
trans-1,3-Dichloropropene	ND		0.19	3.0
Acetone	ND		1.9	10
Benzene	ND		0.16	1.0
Bromobenzene	ND		0.17	1.0
Chlorobromomethane	ND		0.10	1.0
Bromomethane	ND		0.21	2.0
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	1.0
Chloroethane	ND		0.41	2.0
Chloromethane	ND		0.30	2.0
Dibromomethane	ND		0.17	1.0
Dichlorodifluoromethane	ND		0.31	2.0
Ethylbenzene	ND		0.16	1.0
Hexachlorobutadiene	ND		0.12	1.0
Isopropylbenzene	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.25	5.0
Methylene Chloride	ND		0.32	2.0
Naphthalene	ND		0.22	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	2.0
Vinyl chloride	ND		0.10	1.0
Xylenes, Total	ND		0.19	2.0
1,1-Dichloroethane	ND		0.22	1.0
1,1-Dichloroethene	ND		0.23	1.0
1,1-Dichloropropene	ND		0.19	1.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,1,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	5.0
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	1.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloroethene, Total	ND		0.24	1.0

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **024**

Lab Sample ID: 280-12612-1
Client Matrix: Water

Date Sampled: 02/16/2011 0920
Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-54184	Instrument ID:	MSV_R2
Preparation:	5030B		Lab File ID:	RR1547.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	02/18/2011 2143		Final Weight/Volume:	20 mL
Date Prepared:	02/18/2011 2143			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	ND		0.18	1.0
1,2,3-Trichlorobenzene	ND		0.21	1.0
1,2,3-Trichloropropane	ND		0.33	2.5
1,2,4-Trichlorobenzene	ND		0.21	1.0
1,2,4-Trimethylbenzene	ND		0.15	1.0
1,3-Dichlorobenzene	ND		0.13	1.0
1,3-Dichloropropane	ND		0.22	1.0
1,3,5-Trimethylbenzene	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	6.0
2-Chlorotoluene	ND		0.17	1.0
2-Hexanone	ND		1.7	5.0
2,2-Dichloropropane	ND		0.18	1.0
4-Chlorotoluene	ND		0.21	1.0
4-Isopropyltoluene	ND		0.20	1.0
4-Methyl-2-pentanone (MIBK)	ND		0.98	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	95		77 - 120

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **802**

Lab Sample ID: 280-12612-2

Client Matrix: Water

Date Sampled: 02/16/2011 1045

Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-54184	Instrument ID:	MSV_R2
Preparation:	5030B		Lab File ID:	RR1548.D
Dilution:	1.0		Initial Weight/Volume:	0.3 mL
Date Analyzed:	02/18/2011 2205		Final Weight/Volume:	20 mL
Date Prepared:	02/18/2011 2205			

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	ND		10	67
cis-1,3-Dichloropropene	ND		11	67
m-Xylene & p-Xylene	ND		23	130
N-Propylbenzene	ND		11	67
n-Butylbenzene	ND		9.3	67
o-Xylene	ND		13	67
sec-Butylbenzene	ND		11	67
tert-Butylbenzene	ND		11	67
trans-1,2-Dichloroethene	ND		10	67
trans-1,3-Dichloropropene	ND		13	200
Acetone	ND		130	670
Benzene	ND		11	67
Bromobenzene	ND		11	67
Chlorobromomethane	ND		6.7	67
Bromomethane	ND		14	130
Carbon tetrachloride	ND		13	67
Chlorobenzene	ND		11	67
Chloroethane	ND		27	130
Chloromethane	ND		20	130
Dibromomethane	ND		11	67
Dichlorodifluoromethane	ND		21	130
Ethylbenzene	ND		11	67
Hexachlorobutadiene	ND		8.0	67
Isopropylbenzene	ND		13	67
Methyl tert-butyl ether	ND		17	330
Methylene Chloride	ND		21	130
Naphthalene	ND		15	67
Styrene	ND		11	67
Tetrachloroethene	ND		13	67
Toluene	ND		11	67
Trichloroethene	1800		11	67
Trichlorofluoromethane	ND		19	130
Vinyl chloride	ND		6.7	67
Xylenes, Total	ND		13	130
1,1-Dichloroethane	ND		15	67
1,1-Dichloroethene	ND		15	67
1,1-Dichloropropene	ND		13	67
1,1,1-Trichloroethane	ND		11	67
1,1,1,2-Tetrachloroethane	ND		14	67
1,1,2-Trichloroethane	ND		18	67
1,1,2,2-Tetrachloroethane	ND		14	67
1,2-Dibromo-3-Chloropropane	ND		31	330
1,2-Dibromoethane	ND		12	67
1,2-Dichlorobenzene	ND		10	67
1,2-Dichloroethane	ND		8.7	67
1,2-Dichloroethene, Total	ND		16	67

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **802**

Lab Sample ID: 280-12612-2
Client Matrix: Water

Date Sampled: 02/16/2011 1045
Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-54184	Instrument ID:	MSV_R2
Preparation:	5030B		Lab File ID:	RR1548.D
Dilution:	1.0		Initial Weight/Volume:	0.3 mL
Date Analyzed:	02/18/2011 2205		Final Weight/Volume:	20 mL
Date Prepared:	02/18/2011 2205			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	ND		12	67
1,2,3-Trichlorobenzene	ND		14	67
1,2,3-Trichloropropane	ND		22	170
1,2,4-Trichlorobenzene	ND		14	67
1,2,4-Trimethylbenzene	ND		10	67
1,3-Dichlorobenzene	ND		8.7	67
1,3-Dichloropropane	ND		15	67
1,3,5-Trimethylbenzene	ND		11	67
1,4-Dichlorobenzene	ND		11	67
2-Butanone (MEK)	ND		130	400
2-Chlorotoluene	ND		11	67
2-Hexanone	ND		110	330
2,2-Dichloropropane	ND		12	67
4-Chlorotoluene	ND		14	67
4-Isopropyltoluene	ND		13	67
4-Methyl-2-pentanone (MIBK)	ND		65	330

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
Toluene-d8 (Surr)	101		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **042**

Lab Sample ID: 280-12612-3
Client Matrix: Water

Date Sampled: 02/17/2011 0815
Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-54184	Instrument ID:	MSV_R2
Preparation:	5030B		Lab File ID:	RR1549.D
Dilution:	1.0		Initial Weight/Volume:	0.3 mL
Date Analyzed:	02/18/2011 2227		Final Weight/Volume:	20 mL
Date Prepared:	02/18/2011 2227			

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	ND		10	67
cis-1,3-Dichloropropene	ND		11	67
m-Xylene & p-Xylene	ND		23	130
N-Propylbenzene	ND		11	67
n-Butylbenzene	ND		9.3	67
o-Xylene	ND		13	67
sec-Butylbenzene	ND		11	67
tert-Butylbenzene	ND		11	67
trans-1,2-Dichloroethene	ND		10	67
trans-1,3-Dichloropropene	ND		13	200
Acetone	ND		130	670
Benzene	ND		11	67
Bromobenzene	ND		11	67
Chlorobromomethane	ND		6.7	67
Bromomethane	ND		14	130
Carbon tetrachloride	ND		13	67
Chlorobenzene	ND		11	67
Chloroethane	ND		27	130
Chloromethane	ND		20	130
Dibromomethane	ND		11	67
Dichlorodifluoromethane	ND		21	130
Ethylbenzene	ND		11	67
Hexachlorobutadiene	ND		8.0	67
Isopropylbenzene	ND		13	67
Methyl tert-butyl ether	ND		17	330
Methylene Chloride	ND		21	130
Naphthalene	ND		15	67
Styrene	ND		11	67
Tetrachloroethene	ND		13	67
Toluene	ND		11	67
Trichloroethene	1200		11	67
Trichlorofluoromethane	ND		19	130
Vinyl chloride	ND		6.7	67
Xylenes, Total	ND		13	130
1,1-Dichloroethane	ND		15	67
1,1-Dichloroethene	ND		15	67
1,1-Dichloropropene	ND		13	67
1,1,1-Trichloroethane	ND		11	67
1,1,1,2-Tetrachloroethane	ND		14	67
1,1,2-Trichloroethane	ND		18	67
1,1,2,2-Tetrachloroethane	ND		14	67
1,2-Dibromo-3-Chloropropane	ND		31	330
1,2-Dibromoethane	ND		12	67
1,2-Dichlorobenzene	ND		10	67
1,2-Dichloroethane	ND		8.7	67
1,2-Dichloroethene, Total	ND		16	67

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **042**

Lab Sample ID: 280-12612-3
Client Matrix: Water

Date Sampled: 02/17/2011 0815
Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-54184	Instrument ID:	MSV_R2
Preparation:	5030B		Lab File ID:	RR1549.D
Dilution:	1.0		Initial Weight/Volume:	0.3 mL
Date Analyzed:	02/18/2011 2227		Final Weight/Volume:	20 mL
Date Prepared:	02/18/2011 2227			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	ND		12	67
1,2,3-Trichlorobenzene	ND		14	67
1,2,3-Trichloropropane	ND		22	170
1,2,4-Trichlorobenzene	ND		14	67
1,2,4-Trimethylbenzene	ND		10	67
1,3-Dichlorobenzene	ND		8.7	67
1,3-Dichloropropane	ND		15	67
1,3,5-Trimethylbenzene	ND		11	67
1,4-Dichlorobenzene	ND		11	67
2-Butanone (MEK)	ND		130	400
2-Chlorotoluene	ND		11	67
2-Hexanone	ND		110	330
2,2-Dichloropropane	ND		12	67
4-Chlorotoluene	ND		14	67
4-Isopropyltoluene	ND		13	67
4-Methyl-2-pentanone (MIBK)	ND		65	330

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	95		78 - 120
Dibromofluoromethane (Surr)	98		77 - 120

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: 346

Lab Sample ID: 280-12612-4
Client Matrix: Water

Date Sampled: 02/17/2011 0930
Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 02/18/2011 2249
Date Prepared: 02/18/2011 2249

Analysis Batch: 280-54184

Instrument ID: MSV_R2
Lab File ID: RR1550.D
Initial Weight/Volume: 1 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	ND		3.0	20
cis-1,3-Dichloropropene	ND		3.2	20
m-Xylene & p-Xylene	ND		6.8	40
N-Propylbenzene	ND		3.2	20
n-Butylbenzene	ND		2.8	20
o-Xylene	ND		3.8	20
sec-Butylbenzene	ND		3.4	20
tert-Butylbenzene	ND		3.2	20
trans-1,2-Dichloroethene	ND		3.0	20
trans-1,3-Dichloropropene	ND		3.8	60
Acetone	ND		38	200
Benzene	ND		3.2	20
Bromobenzene	ND		3.4	20
Chlorobromomethane	ND		2.0	20
Bromomethane	ND		4.2	40
Carbon tetrachloride	ND		3.8	20
Chlorobenzene	ND		3.4	20
Chloroethane	ND		8.2	40
Chloromethane	ND		6.0	40
Dibromomethane	ND		3.4	20
Dichlorodifluoromethane	ND		6.2	40
Ethylbenzene	ND		3.2	20
Hexachlorobutadiene	ND		2.4	20
Isopropylbenzene	ND		3.8	20
Methyl tert-butyl ether	ND		5.0	100
Methylene Chloride	ND		6.4	40
Naphthalene	ND		4.4	20
Styrene	ND		3.4	20
Tetrachloroethene	ND		4.0	20
Toluene	ND		3.4	20
Trichloroethene	490		3.2	20
Trichlorofluoromethane	ND		5.8	40
Vinyl chloride	ND		2.0	20
Xylenes, Total	ND		3.8	40
1,1-Dichloroethane	ND		4.4	20
1,1-Dichloroethene	ND		4.6	20
1,1-Dichloropropene	ND		3.8	20
1,1,1-Trichloroethane	ND		3.2	20
1,1,1,2-Tetrachloroethane	ND		4.2	20
1,1,2-Trichloroethane	ND		5.4	20
1,1,2,2-Tetrachloroethane	ND		4.2	20
1,2-Dibromo-3-Chloropropane	ND		9.4	100
1,2-Dibromoethane	ND		3.6	20
1,2-Dichlorobenzene	ND		3.0	20
1,2-Dichloroethane	ND		2.6	20
1,2-Dichloroethene, Total	ND		4.8	20

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **346**

Lab Sample ID: 280-12612-4
Client Matrix: Water

Date Sampled: 02/17/2011 0930
Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 02/18/2011 2249
Date Prepared: 02/18/2011 2249

Analysis Batch: 280-54184

Instrument ID: MSV_R2
Lab File ID: RR1550.D
Initial Weight/Volume: 1 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	ND		3.6	20
1,2,3-Trichlorobenzene	ND		4.2	20
1,2,3-Trichloropropane	ND		6.6	50
1,2,4-Trichlorobenzene	ND		4.2	20
1,2,4-Trimethylbenzene	ND		3.0	20
1,3-Dichlorobenzene	ND		2.6	20
1,3-Dichloropropane	ND		4.4	20
1,3,5-Trimethylbenzene	ND		3.2	20
1,4-Dichlorobenzene	ND		3.2	20
2-Butanone (MEK)	ND		40	120
2-Chlorotoluene	ND		3.4	20
2-Hexanone	ND		34	100
2,2-Dichloropropane	ND		3.6	20
4-Chlorotoluene	ND		4.2	20
4-Isopropyltoluene	ND		4.0	20
4-Methyl-2-pentanone (MIBK)	ND		20	100

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
Toluene-d8 (Surr)	101		80 - 125
4-Bromofluorobenzene (Surr)	96		78 - 120
Dibromofluoromethane (Surr)	99		77 - 120

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **348**

Lab Sample ID: 280-12612-5

Client Matrix: Water

Date Sampled: 02/17/2011 1100

Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-54184	Instrument ID:	MSV_R2
Preparation:	5030B		Lab File ID:	RR1551.D
Dilution:	1.0		Initial Weight/Volume:	4 mL
Date Analyzed:	02/18/2011 2311		Final Weight/Volume:	20 mL
Date Prepared:	02/18/2011 2311			

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	ND		0.75	5.0
cis-1,3-Dichloropropene	ND		0.80	5.0
m-Xylene & p-Xylene	ND		1.7	10
N-Propylbenzene	ND		0.80	5.0
n-Butylbenzene	ND		0.70	5.0
o-Xylene	ND		0.95	5.0
sec-Butylbenzene	ND		0.85	5.0
tert-Butylbenzene	ND		0.80	5.0
trans-1,2-Dichloroethene	ND		0.75	5.0
trans-1,3-Dichloropropene	ND		0.95	15
Acetone	ND		9.5	50
Benzene	ND		0.80	5.0
Bromobenzene	ND		0.85	5.0
Chlorobromomethane	ND		0.50	5.0
Bromomethane	ND		1.0	10
Carbon tetrachloride	ND		0.95	5.0
Chlorobenzene	ND		0.85	5.0
Chloroethane	ND		2.0	10
Chloromethane	ND		1.5	10
Dibromomethane	ND		0.85	5.0
Dichlorodifluoromethane	ND		1.6	10
Ethylbenzene	ND		0.80	5.0
Hexachlorobutadiene	ND		0.60	5.0
Isopropylbenzene	ND		0.95	5.0
Methyl tert-butyl ether	ND		1.2	25
Methylene Chloride	6.2	J B	1.6	10
Naphthalene	ND		1.1	5.0
Styrene	ND		0.85	5.0
Tetrachloroethene	ND		1.0	5.0
Toluene	ND		0.85	5.0
Trichloroethene	86		0.80	5.0
Trichlorofluoromethane	ND		1.4	10
Vinyl chloride	ND		0.50	5.0
Xylenes, Total	ND		0.95	10
1,1-Dichloroethane	ND		1.1	5.0
1,1-Dichloroethene	ND		1.2	5.0
1,1-Dichloropropene	ND		0.95	5.0
1,1,1-Trichloroethane	ND		0.80	5.0
1,1,1,2-Tetrachloroethane	ND		1.0	5.0
1,1,2-Trichloroethane	ND		1.4	5.0
1,1,2,2-Tetrachloroethane	ND		1.0	5.0
1,2-Dibromo-3-Chloropropane	ND		2.4	25
1,2-Dibromoethane	ND		0.90	5.0
1,2-Dichlorobenzene	ND		0.75	5.0
1,2-Dichloroethane	ND		0.65	5.0
1,2-Dichloroethene, Total	ND		1.2	5.0

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **348**

Lab Sample ID: 280-12612-5

Client Matrix: Water

Date Sampled: 02/17/2011 1100

Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-54184	Instrument ID:	MSV_R2
Preparation:	5030B		Lab File ID:	RR1551.D
Dilution:	1.0		Initial Weight/Volume:	4 mL
Date Analyzed:	02/18/2011 2311		Final Weight/Volume:	20 mL
Date Prepared:	02/18/2011 2311			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	ND		0.90	5.0
1,2,3-Trichlorobenzene	ND		1.0	5.0
1,2,3-Trichloropropane	ND		1.6	12
1,2,4-Trichlorobenzene	ND		1.0	5.0
1,2,4-Trimethylbenzene	ND		0.75	5.0
1,3-Dichlorobenzene	ND		0.65	5.0
1,3-Dichloropropane	ND		1.1	5.0
1,3,5-Trimethylbenzene	ND		0.80	5.0
1,4-Dichlorobenzene	ND		0.80	5.0
2-Butanone (MEK)	ND		10	30
2-Chlorotoluene	ND		0.85	5.0
2-Hexanone	ND		8.5	25
2,2-Dichloropropane	ND		0.90	5.0
4-Chlorotoluene	ND		1.0	5.0
4-Isopropyltoluene	ND		1.0	5.0
4-Methyl-2-pentanone (MIBK)	ND		4.9	25

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	97		77 - 120

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **EB01**

Lab Sample ID: 280-12612-6

Client Matrix: Water

Date Sampled: 02/16/2011 1105

Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-54184	Instrument ID:	MSV_R2
Preparation:	5030B		Lab File ID:	RR1552.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	02/18/2011 2333		Final Weight/Volume:	20 mL
Date Prepared:	02/18/2011 2333			

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.16	1.0
m-Xylene & p-Xylene	ND		0.34	2.0
N-Propylbenzene	ND		0.16	1.0
n-Butylbenzene	ND		0.14	1.0
o-Xylene	ND		0.19	1.0
sec-Butylbenzene	ND		0.17	1.0
tert-Butylbenzene	ND		0.16	1.0
trans-1,2-Dichloroethene	ND		0.15	1.0
trans-1,3-Dichloropropene	ND		0.19	3.0
Acetone	ND		1.9	10
Benzene	ND		0.16	1.0
Bromobenzene	ND		0.17	1.0
Chlorobromomethane	ND		0.10	1.0
Bromomethane	ND		0.21	2.0
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	1.0
Chloroethane	ND		0.41	2.0
Chloromethane	ND		0.30	2.0
Dibromomethane	ND		0.17	1.0
Dichlorodifluoromethane	0.37	J	0.31	2.0
Ethylbenzene	ND		0.16	1.0
Hexachlorobutadiene	ND		0.12	1.0
Isopropylbenzene	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.25	5.0
Methylene Chloride	0.62	J B	0.32	2.0
Naphthalene	ND		0.22	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
Trichloroethene	0.33	J	0.16	1.0
Trichlorofluoromethane	ND		0.29	2.0
Vinyl chloride	ND		0.10	1.0
Xylenes, Total	ND		0.19	2.0
1,1-Dichloroethane	ND		0.22	1.0
1,1-Dichloroethene	ND		0.23	1.0
1,1-Dichloropropene	ND		0.19	1.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,1,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	5.0
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	1.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloroethene, Total	ND		0.24	1.0

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **EB01**

Lab Sample ID: 280-12612-6
Client Matrix: Water

Date Sampled: 02/16/2011 1105
Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 02/18/2011 2333
Date Prepared: 02/18/2011 2333

Analysis Batch: 280-54184

Instrument ID: MSV_R2
Lab File ID: RR1552.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	ND		0.18	1.0
1,2,3-Trichlorobenzene	ND		0.21	1.0
1,2,3-Trichloropropane	ND		0.33	2.5
1,2,4-Trichlorobenzene	ND		0.21	1.0
1,2,4-Trimethylbenzene	ND		0.15	1.0
1,3-Dichlorobenzene	ND		0.13	1.0
1,3-Dichloropropane	ND		0.22	1.0
1,3,5-Trimethylbenzene	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	6.0
2-Chlorotoluene	ND		0.17	1.0
2-Hexanone	ND		1.7	5.0
2,2-Dichloropropane	ND		0.18	1.0
4-Chlorotoluene	ND		0.21	1.0
4-Isopropyltoluene	ND		0.20	1.0
4-Methyl-2-pentanone (MIBK)	ND		0.98	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	105		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	99		77 - 120

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **DUP01**

Lab Sample ID: 280-12612-7
Client Matrix: Water

Date Sampled: 02/16/2011 2359
Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-54184	Instrument ID:	MSV_R2
Preparation:	5030B		Lab File ID:	RR1553.D
Dilution:	1.0		Initial Weight/Volume:	0.2 mL
Date Analyzed:	02/18/2011 2356		Final Weight/Volume:	20 mL
Date Prepared:	02/18/2011 2356			

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	ND		15	100
cis-1,3-Dichloropropene	ND		16	100
m-Xylene & p-Xylene	ND		34	200
N-Propylbenzene	ND		16	100
n-Butylbenzene	ND		14	100
o-Xylene	ND		19	100
sec-Butylbenzene	ND		17	100
tert-Butylbenzene	ND		16	100
trans-1,2-Dichloroethene	ND		15	100
trans-1,3-Dichloropropene	ND		19	300
Acetone	ND		190	1000
Benzene	ND		16	100
Bromobenzene	ND		17	100
Chlorobromomethane	ND		10	100
Bromomethane	ND		21	200
Carbon tetrachloride	ND		19	100
Chlorobenzene	ND		17	100
Chloroethane	ND		41	200
Chloromethane	ND		30	200
Dibromomethane	ND		17	100
Dichlorodifluoromethane	ND		31	200
Ethylbenzene	ND		16	100
Hexachlorobutadiene	ND		12	100
Isopropylbenzene	ND		19	100
Methyl tert-butyl ether	ND		25	500
Methylene Chloride	ND		32	200
Naphthalene	ND		22	100
Styrene	ND		17	100
Tetrachloroethene	ND		20	100
Toluene	ND		17	100
Trichloroethene	1600		16	100
Trichlorofluoromethane	ND		29	200
Vinyl chloride	ND		10	100
Xylenes, Total	ND		19	200
1,1-Dichloroethane	ND		22	100
1,1-Dichloroethene	ND		23	100
1,1-Dichloropropene	ND		19	100
1,1,1-Trichloroethane	ND		16	100
1,1,1,2-Tetrachloroethane	ND		21	100
1,1,2-Trichloroethane	ND		27	100
1,1,2,2-Tetrachloroethane	ND		21	100
1,2-Dibromo-3-Chloropropane	ND		47	500
1,2-Dibromoethane	ND		18	100
1,2-Dichlorobenzene	ND		15	100
1,2-Dichloroethane	ND		13	100
1,2-Dichloroethene, Total	ND		24	100

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **DUP01**

Lab Sample ID: 280-12612-7
Client Matrix: Water

Date Sampled: 02/16/2011 2359
Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 02/18/2011 2356
Date Prepared: 02/18/2011 2356

Analysis Batch: 280-54184

Instrument ID: MSV_R2
Lab File ID: RR1553.D
Initial Weight/Volume: 0.2 mL
Final Weight/Volume: 20 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	ND		18	100
1,2,3-Trichlorobenzene	ND		21	100
1,2,3-Trichloropropane	ND		33	250
1,2,4-Trichlorobenzene	ND		21	100
1,2,4-Trimethylbenzene	ND		15	100
1,3-Dichlorobenzene	ND		13	100
1,3-Dichloropropane	ND		22	100
1,3,5-Trimethylbenzene	ND		16	100
1,4-Dichlorobenzene	ND		16	100
2-Butanone (MEK)	ND		200	600
2-Chlorotoluene	ND		17	100
2-Hexanone	ND		170	500
2,2-Dichloropropane	ND		18	100
4-Chlorotoluene	ND		21	100
4-Isopropyltoluene	ND		20	100
4-Methyl-2-pentanone (MIBK)	ND		98	500

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	95		77 - 120

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-12612-8

Client Matrix: Water

Date Sampled: 02/16/2011 0000

Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-54184	Instrument ID:	MSV_R2
Preparation:	5030B		Lab File ID:	RR1554.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	02/19/2011 0018		Final Weight/Volume:	20 mL
Date Prepared:	02/19/2011 0018			

Analyte	Result (ug/L)	Qualifier	MDL	RL
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.16	1.0
m-Xylene & p-Xylene	ND		0.34	2.0
N-Propylbenzene	ND		0.16	1.0
n-Butylbenzene	ND		0.14	1.0
o-Xylene	ND		0.19	1.0
sec-Butylbenzene	ND		0.17	1.0
tert-Butylbenzene	ND		0.16	1.0
trans-1,2-Dichloroethene	ND		0.15	1.0
trans-1,3-Dichloropropene	ND		0.19	3.0
Acetone	ND		1.9	10
Benzene	ND		0.16	1.0
Bromobenzene	ND		0.17	1.0
Chlorobromomethane	ND		0.10	1.0
Bromomethane	ND		0.21	2.0
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	1.0
Chloroethane	ND		0.41	2.0
Chloromethane	ND		0.30	2.0
Dibromomethane	ND		0.17	1.0
Dichlorodifluoromethane	ND		0.31	2.0
Ethylbenzene	ND		0.16	1.0
Hexachlorobutadiene	ND		0.12	1.0
Isopropylbenzene	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.25	5.0
Methylene Chloride	0.65	J B	0.32	2.0
Naphthalene	ND		0.22	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	2.0
Vinyl chloride	ND		0.10	1.0
Xylenes, Total	ND		0.19	2.0
1,1-Dichloroethane	ND		0.22	1.0
1,1-Dichloroethene	ND		0.23	1.0
1,1-Dichloropropene	ND		0.19	1.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,1,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	5.0
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	1.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloroethene, Total	ND		0.24	1.0

Client: Cotter Corporation

Job Number: 280-12612-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-12612-8

Client Matrix: Water

Date Sampled: 02/16/2011 0000

Date Received: 02/17/2011 1426

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-54184	Instrument ID:	MSV_R2
Preparation:	5030B		Lab File ID:	RR1554.D
Dilution:	1.0		Initial Weight/Volume:	20 mL
Date Analyzed:	02/19/2011 0018		Final Weight/Volume:	20 mL
Date Prepared:	02/19/2011 0018			

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichloropropane	ND		0.18	1.0
1,2,3-Trichlorobenzene	ND		0.21	1.0
1,2,3-Trichloropropane	ND		0.33	2.5
1,2,4-Trichlorobenzene	ND		0.21	1.0
1,2,4-Trimethylbenzene	ND		0.15	1.0
1,3-Dichlorobenzene	ND		0.13	1.0
1,3-Dichloropropane	ND		0.22	1.0
1,3,5-Trimethylbenzene	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	6.0
2-Chlorotoluene	ND		0.17	1.0
2-Hexanone	ND		1.7	5.0
2,2-Dichloropropane	ND		0.18	1.0
4-Chlorotoluene	ND		0.21	1.0
4-Isopropyltoluene	ND		0.20	1.0
4-Methyl-2-pentanone (MIBK)	ND		0.98	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 127
Toluene-d8 (Surr)	101		80 - 125
4-Bromofluorobenzene (Surr)	95		78 - 120
Dibromofluoromethane (Surr)	98		77 - 120

QUALITY CONTROL RESULTS

Client: Cotter Corporation

Job Number: 280-12612-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-54184					
LCS 280-54184/4	Lab Control Sample	T	Water	8260B	
LCSD 280-54184/5	Lab Control Sample Duplicate	T	Water	8260B	
MB 280-54184/6	Method Blank	T	Water	8260B	
280-12514-B-1 MS	Matrix Spike	T	Water	8260B	
280-12514-B-1 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-12612-1	024	T	Water	8260B	
280-12612-2	802	T	Water	8260B	
280-12612-3	042	T	Water	8260B	
280-12612-4	346	T	Water	8260B	
280-12612-5	348	T	Water	8260B	
280-12612-6	EB01	T	Water	8260B	
280-12612-7	DUP01	T	Water	8260B	
280-12612-8	TRIP BLANK	T	Water	8260B	

Report Basis
T = Total

Client: Cotter Corporation

Job Number: 280-12612-1

Method Blank - Batch: 280-54184

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 280-54184/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/18/2011 1718
Date Prepared: 02/18/2011 1718

Analysis Batch: 280-54184
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_R2
Lab File ID: RR1536.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	MDL	RL
cis-1,2-Dichloroethene	ND		0.15	1.0
cis-1,3-Dichloropropene	ND		0.16	1.0
m-Xylene & p-Xylene	ND		0.34	2.0
N-Propylbenzene	ND		0.16	1.0
n-Butylbenzene	ND		0.14	1.0
o-Xylene	ND		0.19	1.0
sec-Butylbenzene	ND		0.17	1.0
tert-Butylbenzene	ND		0.16	1.0
trans-1,2-Dichloroethene	ND		0.15	1.0
trans-1,3-Dichloropropene	ND		0.19	3.0
Acetone	ND		1.9	10
Benzene	ND		0.16	1.0
Bromobenzene	ND		0.17	1.0
Chlorobromomethane	ND		0.10	1.0
Bromomethane	ND		0.21	2.0
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	1.0
Chloroethane	ND		0.41	2.0
Chloromethane	ND		0.30	2.0
Dibromomethane	ND		0.17	1.0
Dichlorodifluoromethane	ND		0.31	2.0
Ethylbenzene	ND		0.16	1.0
Hexachlorobutadiene	ND		0.12	1.0
Isopropylbenzene	ND		0.19	1.0
Methyl tert-butyl ether	ND		0.25	5.0
Methylene Chloride	0.988	J	0.32	2.0
Naphthalene	ND		0.22	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	2.0
Vinyl chloride	ND		0.10	1.0
Xylenes, Total	ND		0.19	2.0
1,1-Dichloroethane	ND		0.22	1.0
1,1-Dichloroethene	ND		0.23	1.0
1,1-Dichloropropene	ND		0.19	1.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,1,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	5.0
1,2-Dibromoethane	ND		0.18	1.0

Client: Cotter Corporation

Job Number: 280-12612-1

Method Blank - Batch: 280-54184

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 280-54184/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 02/18/2011 1718
Date Prepared: 02/18/2011 1718

Analysis Batch: 280-54184
Prep Batch: N/A
Units: ug/L

Instrument ID: MSV_R2
Lab File ID: RR1536.D
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Result	Qual	MDL	RL
1,2-Dichlorobenzene	ND		0.15	1.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloroethene, Total	ND		0.24	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,2,3-Trichlorobenzene	ND		0.21	1.0
1,2,3-Trichloropropane	ND		0.33	2.5
1,2,4-Trichlorobenzene	ND		0.21	1.0
1,2,4-Trimethylbenzene	ND		0.15	1.0
1,3-Dichlorobenzene	ND		0.13	1.0
1,3-Dichloropropane	ND		0.22	1.0
1,3,5-Trimethylbenzene	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	6.0
2-Chlorotoluene	ND		0.17	1.0
2-Hexanone	ND		1.7	5.0
2,2-Dichloropropane	ND		0.18	1.0
4-Chlorotoluene	ND		0.21	1.0
4-Isopropyltoluene	ND		0.20	1.0
4-Methyl-2-pentanone (MIBK)	ND		0.98	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	70 - 127
Toluene-d8 (Surr)	100	80 - 125
4-Bromofluorobenzene (Surr)	96	78 - 120
Dibromofluoromethane (Surr)	97	77 - 120

Client: Cotter Corporation

Job Number: 280-12612-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-54184

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-54184/4	Analysis Batch: 280-54184	Instrument ID: MSV_R2
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: RR1534.D
Dilution:	1.0	Units: ug/L	Initial Weight/Volume: 20 mL
Date Analyzed:	02/18/2011 1633		Final Weight/Volume: 20 mL
Date Prepared:	02/18/2011 1633		

LCSD Lab Sample ID:	LCSD 280-54184/5	Analysis Batch: 280-54184	Instrument ID: MSV_R2
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: RR1535.D
Dilution:	1.0	Units: ug/L	Initial Weight/Volume: 20 mL
Date Analyzed:	02/18/2011 1656		Final Weight/Volume: 20 mL
Date Prepared:	02/18/2011 1656		

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
trans-1,2-Dichloroethene	90	88	80 - 120	2	24		
Benzene	89	83	77 - 120	7	20		
Carbon tetrachloride	90	90	80 - 120	0	21		
Chlorobenzene	89	91	78 - 120	2	20		
Ethylbenzene	95	98	78 - 120	4	26		
Methylene Chloride	109	101	60 - 134	8	20		
Tetrachloroethene	104	103	77 - 120	1	20		
Toluene	98	97	73 - 120	2	20		
Trichloroethene	90	85	78 - 122	6	20		
1,1-Dichloroethane	89	87	77 - 120	2	21		
1,1-Dichloroethene	97	94	68 - 133	3	20		
1,1,1-Trichloroethane	96	91	78 - 120	5	20		
1,2-Dichloropropane	87	83	76 - 120	5	20		
1,3-Dichlorobenzene	94	99	75 - 120	5	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	100	70 - 127
Toluene-d8 (Surr)	100	102	80 - 125
4-Bromofluorobenzene (Surr)	100	102	78 - 120
Dibromofluoromethane (Surr)	106	101	77 - 120

Client: Cotter Corporation

Job Number: 280-12612-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-54184

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-54184/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 280-54184/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	02/18/2011 1633			Date Analyzed:	02/18/2011 1656
Date Prepared:	02/18/2011 1633			Date Prepared:	02/18/2011 1656

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
trans-1,2-Dichloroethene	5.00	5.00	4.51	4.41
Benzene	5.00	5.00	4.43	4.14
Carbon tetrachloride	5.00	5.00	4.51	4.51
Chlorobenzene	5.00	5.00	4.46	4.57
Ethylbenzene	5.00	5.00	4.74	4.91
Methylene Chloride	5.00	5.00	5.47	5.04
Tetrachloroethene	5.00	5.00	5.22	5.15
Toluene	5.00	5.00	4.91	4.84
Trichloroethene	5.00	5.00	4.51	4.26
1,1-Dichloroethane	5.00	5.00	4.43	4.34
1,1-Dichloroethene	5.00	5.00	4.85	4.71
1,1,1-Trichloroethane	5.00	5.00	4.80	4.56
1,2-Dichloropropane	5.00	5.00	4.37	4.14
1,3-Dichlorobenzene	5.00	5.00	4.70	4.96

Client: Cotter Corporation

Job Number: 280-12612-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-54184

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-12514-B-1 MS	Analysis Batch: 280-54184	Instrument ID: MSV_R2
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: RR1538.D
Dilution:	1.0		Initial Weight/Volume: 20 mL
Date Analyzed:	02/18/2011 1823		Final Weight/Volume: 20 mL
Date Prepared:	02/18/2011 1823		

MSD Lab Sample ID:	280-12514-B-1 MSD	Analysis Batch: 280-54184	Instrument ID: MSV_R2
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: RR1539.D
Dilution:	1.0		Initial Weight/Volume: 20 mL
Date Analyzed:	02/18/2011 1845		Final Weight/Volume: 20 mL
Date Prepared:	02/18/2011 1845		

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
trans-1,2-Dichloroethene	82	81	80 - 120	1	24		
Benzene	76	79	77 - 120	5	20	F	
Carbon tetrachloride	81	83	80 - 120	1	21		
Chlorobenzene	80	82	78 - 120	3	20		
Ethylbenzene	86	89	78 - 120	4	26		
Methylene Chloride	82	86	60 - 134	5	20		
Tetrachloroethene	93	90	77 - 120	3	20		
Toluene	83	87	73 - 120	4	20		
Trichloroethene	78	80	78 - 122	3	20		
1,1-Dichloroethane	77	81	77 - 120	5	21		
1,1-Dichloroethene	87	89	68 - 133	2	20		
1,1,1-Trichloroethane	81	84	78 - 120	3	20		
1,2-Dichloropropane	73	74	76 - 120	2	20	F	F
1,3-Dichlorobenzene	84	95	75 - 120	13	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	91	70 - 127
Toluene-d8 (Surr)	99	96	80 - 125
4-Bromofluorobenzene (Surr)	93	101	78 - 120
Dibromofluoromethane (Surr)	94	93	77 - 120

Client: Cotter Corporation

Job Number: 280-12612-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-54184

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-12514-B-1 MS	Units: ug/L	MSD Lab Sample ID:	280-12514-B-1 MSD
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	02/18/2011 1823		Date Analyzed:	02/18/2011 1845
Date Prepared:	02/18/2011 1823		Date Prepared:	02/18/2011 1845

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
trans-1,2-Dichloroethene	ND		5.00	5.00	4.08		4.05	
Benzene	ND		5.00	5.00	3.78	F	3.96	
Carbon tetrachloride	ND		5.00	5.00	4.07		4.13	
Chlorobenzene	ND		5.00	5.00	3.98		4.10	
Ethylbenzene	ND		5.00	5.00	4.28		4.45	
Methylene Chloride	ND		5.00	5.00	4.10		4.32	
Tetrachloroethene	ND		5.00	5.00	4.65		4.52	
Toluene	ND		5.00	5.00	4.15		4.33	
Trichloroethene	0.25	J	5.00	5.00	4.14		4.26	
1,1-Dichloroethane	ND		5.00	5.00	3.83		4.04	
1,1-Dichloroethene	ND		5.00	5.00	4.36		4.46	
1,1,1-Trichloroethane	ND		5.00	5.00	4.05		4.18	
1,2-Dichloropropane	ND		5.00	5.00	3.63	F	3.72	F
1,3-Dichlorobenzene	ND		5.00	5.00	4.19		4.76	

Login Sample Receipt Check List

Client: Cotter Corporation

Job Number: 280-12612-1

Login Number: 12612
Creator: Lazarte, Noah M
List Number: 1

List Source: TestAmerica Denver

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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	
Sample Preservation Verified	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.	True	
Samples do not require splitting or compositing.	True	

Chain of Custody Record

TAL-4124-280 (0508)

Sampler ID _____

Temperature on Receipt 5.0 IR1 mg 2/17/11

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client: WILL HUSKIE	Project Manager: WILL HUSKIE	Date: 2/17/11	Chain of Custody Number: 147291
Address: 493 CANYON POINT CIRCLE	Telephone Number (Area Code)/Fax Number: 720 480 0652	Lab Number	Page 1 of 1
City: GOLDEN; State: CO; Zip Code: 80403	Site Contact	Lab Contact	
Project Name and Location (State): COTTER MILL (CO)	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	Zn-Ac/NaOH		Analysis (Attach list if more space is needed): VOC's by 8260B	Special Instructions/ Conditions of Receipt
024	2/16/11	0920		X							X				X	
802	2/16/11	1045		X							X				X	ASAP
042	2/17/11	0815		X							X				X	
346	2/17/11	0930		X							X				X	Analysis
348	2/17/11	1100		X							X				X	
EB 01	2/16/11	1105		X							X				X	
DUP 01	2/16/11	2400		X							X				X	
TRIP BLANK	2/14/11			X							X				X	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☒ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By: [signature]	Date: 2/17/11	Time: 1426	1. Received By: [signature]	Date: 2/17/11	Time: 1426
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: Call Will Huskie @ 720 480 0652 w/ ??

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy