ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division
Fort Collins, Colorado

RECEIVED
MAR 15 2011
HAZARDOUS MATERIALS
AND WASTE MANAGEMENT

GC/MS Volatiles

Case Narrative

Cotter Corporation

Cotter Corporation

Work Order Number: 1009355

1. This report consists of 8 water samples. The samples were received cool and intact by ALS on 09/23/10. The vials for samples 1009355-7RR1 and -8 contained headspace prior to analysis.

2. These samples were prepared according to SW-846, 3rd Edition procedures. Specifically, the water samples were prepared by purging 10 mL using purge and trap procedures based on Method 5030C.

3. The samples were analyzed using GC/MS with an RTX-624, RTX-VMS, or equivalent capillary column according to SOP 525 Revision 14 based on SW-846 Method 8260. All positive results were quantitated against the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and mass spectrum of the sample versus the daily calibration standard.

4. All initial calibration criteria for SPCC's and CCC's were met. If average response factors were used in the initial calibration, %RSD was ≤15%. If linear or higher order regression calibrations were used in the initial calibration, the coefficient of determination (r^2) ≥0.99.

5. All initial calibrations are verified by comparing a second source standard calibration verification (ICV) against the calibration curve. All target compounds in the second source verification had a %D of less than 25%.

6. All criteria for SPCC's and CCC's were met in daily (continuing) calibration verifications (CCV).

7. Methylene chloride, acetone and 2-butanone are common laboratory contaminants. In order to minimize the levels of these compounds detected in the gc/ms analysis, ALS has designated its volatile laboratory as a restricted access area. In addition, the laboratory has been equipped with a dedicated, air intake and exhaust system that operates under positive pressure in order to minimize cross contamination of these compounds. Due to fluctuations in ambient laboratory conditions, reported sample values for common laboratory contaminants may be due to lab contamination even if the compound in question is not detected in the associated method blank.

All method blank criteria were met.

8. All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria.

9. Since a sample from this order number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.

10. The samples were analyzed within the established holding time.

11. All surrogate recoveries were within acceptance criteria.

12. All internal standard recoveries were within acceptance criteria.

13. Due to the concentration of the non-target analyte trichloroethene, samples 1009355-5, -5RR1, and -7 were analyzed at a dilution. The reporting limits have been adjusted accordingly.

14. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in SOP 939 Revision 3.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Sharon L. Jobes
Organics Primary Data Reviewer

10-19-10
Date

Organics Final Data Reviewer

10/19/10
Date

ALS
Data Qualifier Flags
Chromatography and Mass Spectrometry

U or ND:	This flag indicates that the compound was analyzed for but not detected.
J:	This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
B:	This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
E:	This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
A:	This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
X:	This flag indicates that the analyte was diluted below an accurate quantitation level.
*:	This flag indicates that a spike recovery is equal to or outside the control criteria used.
+:	This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 1009355
Client Name: Cotter Corporation
Client Project Name: Cotter Corporation
Client Project Number:
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
C28876 043	1009355-1		WATER	21-Sep-10	
C28877 015A	1009355-2		WATER	21-Sep-10	10:04
C28878 803	1009355-3		WATER	21-Sep-10	11:04
C28879 337	1009355-4		WATER	21-Sep-10	13:21
C28881 802	1009355-5		WATER	22-Sep-10	11:23
C28882 805	1009355-6		WATER	22-Sep-10	13:15
C28884 346	1009355-7		WATER	22-Sep-10	10:34
Trip Blank	1009355-8		WATER	21-Sep-10	

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF (800) 443-1511 PH (970) 490-151* FX (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1009355

PAGE of

DISPOSAL: By Lab or Return to Client

PROJECT NAME	Cotter Corporation	SAMPLER	MTV / MEC
PROJECT No.		SITE ID	
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	Cotter Corporation	BILL TO COMPANY	
SEND REPORT TO	Jim Colin	INVOICE ATTN TO	
ADDRESS	P O Box 1750	ADDRESS	
CITY / STATE / ZIP	Canon City, CO 8121S	CITY / STATE / ZIP	
PHONE	719 275-7413 x 212	PHONE	
FAX	719 275 1669	FAX	
E-MAIL	Jim.Colin@cotterusa.com	E-MAIL	

DATE

TURNAROUND: Standard

Trihalomethanes SW8260B

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
10-53811	C28876 043	water	9-21-10	N/A	3	(1)	
10-53812	C28877 015A	water	9-21-10	1004	3	(2)	
10-53813	C28878 803	water	9-21-10	1104	3	(3)	
10-53814	C28879 337	water	9-21-10	1321	3	(4)	
10-53833	C28881 802	water	9-22-10	1123	3	(5)	
10-53834	C28882 805	water	9-22-10	1315	3	(6)	
10-53836	C28884 346	water	9-22-10	1034	3	(7)	
						(8)	TBs

Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: (1) cupies of Cotter Corp Sample Submittal forms included
(2) Return copy of Completed ALS COC to Frank Adams c/o Jim Colin

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	M. E. Curney	Mark E Curney	9-22-10	1450
RECEIVED BY	Lauren Schmitt	Lauren Schmitt	9.23.10	0945
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COTTER Workorder No: 1009355

Project Manager: ARW Initials: LAS Date: 9/23/10

1. Does this project require any **special handling** in addition to standard Paragon procedures?		YES	(NO)
2. Are custody **seals** on **shipping containers** intact?	NONE	(YES)	NO
3. Are Custody seals on **sample containers** intact?	(NONE)	YES	NO
4. Is there a **COC (Chain-of-Custody) present** or other representative documents?		(YES)	NO
5. Are the **COC and bottle labels complete and legible**?		(YES)	NO
6. Is the **COC in agreement** with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO
7. Were **airbills / shipping documents** present and/or removable?	DROP OFF	(YES)	NO
8. Are all aqueous **samples requiring preservation preserved correctly?** (excluding volatiles)	(N/A)	YES	NO
9. Are all aqueous **non-preserved samples pH 4-9?**	(N/A)	YES	NO
10. Is there **sufficient sample** for the requested analyses?		(YES)	NO
11. Were all samples placed in the **proper containers** for the requested analyses?		(YES)	NO
12. Are all samples within **holding times** for the requested analyses?		(YES)	NO
13. Were all sample containers received **intact**? (not broken or leaking, etc.)		(YES)	NO
(14.) Are all samples requiring **no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)** headspace free? **Size of bubble:** ___ < green pea ___ > green pea	N/A	YES	(NO) *
15. Do perchlorate LCMS-MS samples **have** headspace? (at least 1/3 of container required)	(N/A)	YES	NO
16. Were samples checked for and free from the presence of **residual chlorine?** (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	(N/A)	YES	NO
17. Were the samples **shipped on ice**?		(YES)	NO
18. Were cooler temperatures measured at 0.1-6.0°C? **IR gun used*:** (#2) #4	RAD ONLY	(YES)	NO

Cooler #:	1
Temperature (°C):	1.6
No. of custody seals on cooler:	1
DOT Survey/ Acceptance Information — External µR/hr reading:	15
DOT Survey/ Acceptance Information — Background µR/hr reading:	11

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? (YES) / NO / NA (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16

SCL p.2

If applicable, was the client contacted? (YES) / NO / NA Contact: _____ Date/Time: 9/27/10 9 mail

Project Manager Signature / Date: 9/27/10

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002

ALS Laboratory Group - Fort Collins

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COTTER Workorder No: 1009355

Project Manager: ARW Initials: LAS Date: 9.23.10

Additional Information:

1009355-4-3 (10-53814) <pca
1009355-5-1 (10-53833) >pca
1009355-7-1 ~~(100~~ LAS 9.27.10 (10-53836) >pca
1009355-8-1 (TB) <pca
1009355-8-2 (TB) >pca

(*) Trip Blanks included in cooler but not listed on COC

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: 9/27/10 e-mail

Project Manager Signature / Date: C Wolf 9/27/10

Form 201r22.xls (6/1/09)

GC/MS Volatiles

Method SW8260_2514

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1009355
Client Name: Cotter Corporation
ClientProject ID: Cotter Corporation

Lab ID: VL100925-2MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 25-Sep-10
Date Analyzed: 25-Sep-10
Prep Method: SW5030 Rev C

Prep Batch: VL100925-2
QCBatchID: VL100925-2-3
Run ID: VL100925-2A
Cleanup: NONE
Basis: N/A
File Name: B67866

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
67-66-3	CHLOROFORM	1	1	1	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	U	
75-25-2	BROMOFORM	1	1	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	24.9		25	100	87 - 108
1868-53-7	DIBROMOFLUOROMETHANE	25		25	100	89 - 112
2037-26-5	TOLUENE-D8	24.7		25	99	87 - 109

Data Package ID: *VL1009355-1*

GC/MS Volatiles

Method SW8260_2514

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009355
Client Name: Cotter Corporation
ClientProject ID: Cotter Corporation

Field ID: C28876 043
Lab ID: 1009355-1

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 21-Sep-10
Date Extracted: 25-Sep-10
Date Analyzed: 25-Sep-10
Prep Method: SW5030 Rev C

Prep Batch: VL100925-2
QCBatchID: VL100925-2-3
Run ID: VL100925-2A
Cleanup: NONE
Basis: As Received
File Name: B67885

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
67-66-3	CHLOROFORM	1	1	1	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	U	
75-25-2	BROMOFORM	1	1	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	24.4		25	97	87 - 108
1868-53-7	DIBROMOFLUOROMETHANE	25.1		25	100	89 - 112
2037-26-5	TOLUENE-D8	25.4		25	102	87 - 109

Data Package ID: *VL1009355-1*

GC/MS Volatiles

Method SW8260_2514

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009355
Client Name: Cotter Corporation
ClientProject ID: Cotter Corporation

Field ID: C28877 015A
Lab ID: 1009355-2

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 21-Sep-10
Date Extracted: 25-Sep-10
Date Analyzed: 25-Sep-10
Prep Method: SW5030 Rev C

Prep Batch: VL100925-2
QCBatchID: VL100925-2-3
Run ID: VL100925-2A
Cleanup: NONE
Basis: As Received
File Name: B67886

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
67-66-3	CHLOROFORM	1	1	1	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	U	
75-25-2	BROMOFORM	1	1	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	24.3		25	97	87 - 108
1868-53-7	DIBROMOFLUOROMETHANE	25		25	100	89 - 112
2037-26-5	TOLUENE-D8	24.9		25	99	87 - 109

Data Package ID: *VL1009355-1*

GC/MS Volatiles

Method SW8260_2514

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009355
Client Name: Cotter Corporation
ClientProject ID: Cotter Corporation

Field ID: C28878 803
Lab ID: 1009355-3

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 21-Sep-10
Date Extracted: 25-Sep-10
Date Analyzed: 25-Sep-10
Prep Method: SW5030 Rev C

Prep Batch: VL100925-2
QCBatchID: VL100925-2-3
Run ID: VL100925-2A
Cleanup: NONE
Basis: As Received
File Name: B67888

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
67-66-3	CHLOROFORM	1	1	1	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	U	
75-25-2	BROMOFORM	1	1	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	24.7		25	99	87 - 108
1868-53-7	DIBROMOFLUOROMETHANE	24.8		25	99	89 - 112
2037-26-5	TOLUENE-D8	24.8		25	99	87 - 109

Data Package ID: *VL1009355-1*

GC/MS Volatiles

Method SW8260_2514

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009355
Client Name: Cotter Corporation
ClientProject ID: Cotter Corporation

Field ID: C28879 337
Lab ID: 1009355-4

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 21-Sep-10
Date Extracted: 25-Sep-10
Date Analyzed: 25-Sep-10
Prep Method: SW5030 Rev C

Prep Batch: VL100925-2
QCBatchID: VL100925-2-3
Run ID: VL100925-2A
Cleanup: NONE
Basis: As Received
File Name: B67887

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
67-66-3	CHLOROFORM	1	1	1	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	U	
75-25-2	BROMOFORM	1	1	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	24.4		25	98	87 - 108
1868-53-7	DIBROMOFLUOROMETHANE	25.2		25	101	89 - 112
2037-26-5	TOLUENE-D8	24.8		25	99	87 - 109

Data Package ID: *VL1009355-1*

GC/MS Volatiles

Method SW8260_2514

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009355
Client Name: Cotter Corporation
ClientProject ID: Cotter Corporation

Field ID:	C28881 802
Lab ID:	1009355-5

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 22-Sep-10
Date Extracted: 25-Sep-10
Date Analyzed: 25-Sep-10
Prep Method: SW5030 Rev C

Prep Batch: VL100925-2
QCBatchID: VL100925-2-3
Run ID: VL100925-2A
Cleanup: NONE
Basis: As Received
File Name: B67890

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
67-66-3	CHLOROFORM	100	100	100	U	
75-27-4	BROMODICHLOROMETHANE	100	100	100	U	
124-48-1	DIBROMOCHLOROMETHANE	100	100	100	U	
75-25-2	BROMOFORM	100	100	100	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	2330		2500	93	87 - 108
1868-53-7	DIBROMOFLUOROMETHANE	2470		2500	99	89 - 112
2037-26-5	TOLUENE-D8	2430		2500	97	87 - 109

Data Package ID: *VL1009355-1*

GC/MS Volatiles

Method SW8260_2514

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009355
Client Name: Cotter Corporation
ClientProject ID: Cotter Corporation

Field ID: C28881 802
Lab ID: 1009355-5RR1

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 22-Sep-10
Date Extracted: 25-Sep-10
Date Analyzed: 25-Sep-10
Prep Method: SW5030 Rev C

Prep Batch: VL100925-2
QCBatchID: VL100925-2-3
Run ID: VL100925-2A
Cleanup: NONE
Basis: As Received
File Name: B67892

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
67-66-3	CHLOROFORM	10	10	10	U	
75-27-4	BROMODICHLOROMETHANE	10	10	10	U	
124-48-1	DIBROMOCHLOROMETHANE	10	10	10	U	
75-25-2	BROMOFORM	10	10	10	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	243		250	97	87 - 108
1868-53-7	DIBROMOFLUOROMETHANE	254		250	102	89 - 112
2037-26-5	TOLUENE-D8	249		250	100	87 - 109

Data Package ID: *VL1009355-1*

GC/MS Volatiles

Method SW8260_2514

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009355
Client Name: Cotter Corporation
ClientProject ID: Cotter Corporation

Field ID: C28882 805
Lab ID: 1009355-6

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 22-Sep-10
Date Extracted: 25-Sep-10
Date Analyzed: 25-Sep-10
Prep Method: SW5030 Rev C

Prep Batch: VL100925-2
QCBatchID: VL100925-2-3
Run ID: VL100925-2A
Cleanup: NONE
Basis: As Received
File Name: B67889

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
67-66-3	CHLOROFORM	1	4.6	1		
75-27-4	BROMODICHLOROMETHANE	1	0.26	1	J	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	U	
75-25-2	BROMOFORM	1	1	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	24.1		25	96	87 - 108
1868-53-7	DIBROMOFLUOROMETHANE	25.2		25	101	89 - 112
2037-26-5	TOLUENE-D8	25.2		25	101	87 - 109

Data Package ID: *VL1009355-1*

GC/MS Volatiles

Method SW8260_2514

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009355
Client Name: Cotter Corporation
ClientProject ID: Cotter Corporation

Field ID: C28884 346
Lab ID: 1009355-7

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 22-Sep-10
Date Extracted: 25-Sep-10
Date Analyzed: 25-Sep-10
Prep Method: SW5030 Rev C

Prep Batch: VL100925-2
QCBatchID: VL100925-2-3
Run ID: VL100925-2A
Cleanup: NONE
Basis: As Received
File Name: B67891

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
67-66-3	CHLOROFORM	20	20	20	U	
75-27-4	BROMODICHLOROMETHANE	20	20	20	U	
124-48-1	DIBROMOCHLOROMETHANE	20	20	20	U	
75-25-2	BROMOFORM	20	20	20	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	482		500	96	87 - 108
1868-53-7	DIBROMOFLUOROMETHANE	508		500	102	89 - 112
2037-26-5	TOLUENE-D8	497		500	99	87 - 109

Data Package ID: *VL1009355-1*

GC/MS Volatiles

Method SW8260_2514

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009355
Client Name: Cotter Corporation
ClientProject ID: Cotter Corporation

Field ID: C28884 346
Lab ID: 1009355-7RR1

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 22-Sep-10
Date Extracted: 25-Sep-10
Date Analyzed: 25-Sep-10
Prep Method: SW5030 Rev C

Prep Batch: VL100925-2
QCBatchID: VL100925-2-3
Run ID: VL100925-2A
Cleanup: NONE
Basis: As Received
File Name: B67893

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
67-66-3	CHLOROFORM	1	3.3	1		
75-27-4	BROMODICHLOROMETHANE	1	1	1	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	U	
75-25-2	BROMOFORM	1	1	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	24.7		25	99	87 - 108
1868-53-7	DIBROMOFLUOROMETHANE	25.3		25	101	89 - 112
2037-26-5	TOLUENE-D8	24.9		25	100	87 - 109

Data Package ID: *VL1009355-1*

GC/MS Volatiles

Method SW8260_2514

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1009355
Client Name: Cotter Corporation
ClientProject ID: Cotter Corporation

Field ID: Trip Blank
Lab ID: 1009355-8

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 21-Sep-10
Date Extracted: 25-Sep-10
Date Analyzed: 25-Sep-10
Prep Method: SW5030 Rev C

Prep Batch: VL100925-2
QCBatchID: VL100925-2-3
Run ID: VL100925-2A
Cleanup: NONE
Basis: As Received
File Name: B67884

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
67-66-3	CHLOROFORM	1	1	1	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	U	
75-25-2	BROMOFORM	1	1	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	24.2		25	97	87 - 108
1868-53-7	DIBROMOFLUOROMETHANE	25		25	100	89 - 112
2037-26-5	TOLUENE-D8	25.1		25	100	87 - 109

Data Package ID: *VL1009355-1*

GC/MS Volatiles

Method SW8260_2514

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1009355
Client Name: Cotter Corporation
ClientProject ID: Cotter Corporation

Lab ID: VL100925-2LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 09/25/2010
Date Analyzed: 09/25/2010
Prep Method: SW5030C

Prep Batch: VL100925-2
QCBatchID: VL100925-2-3
Run ID: VL100925-2A
Cleanup: NONE
Basis: N/A
File Name: B67862

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
67-66-3	CHLOROFORM	10	9.85	1		99	82 - 119%
75-27-4	BROMODICHLOROMETHANE	10	9.94	1		99	76 - 122%
124-48-1	DIBROMOCHLOROMETHANE	10	10.1	1		101	76 - 115%
75-25-2	BROMOFORM	10	9.26	1		93	70 - 120%

Lab ID: VL100925-2LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 09/25/2010
Date Analyzed: 09/25/2010
Prep Method: SW5030C

Prep Batch: VL100925-2
QCBatchID: VL100925-2-3
Run ID: VL100925-2A
Cleanup: NONE
Basis: N/A
File Name: B67863

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
67-66-3	CHLOROFORM	10	10.1	1		101	20	2
75-27-4	BROMODICHLOROMETHANE	10	10.4	1		104	20	4
124-48-1	DIBROMOCHLOROMETHANE	10	10.2	1		102	20	0
75-25-2	BROMOFORM	10	9.23	1		92	20	0

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	25	102		102		87 - 108
1868-53-7	DIBROMOFLUOROMETHANE	25	100		103		89 - 112
2037-26-5	TOLUENE-D8	25	102		103		87 - 109

Data Package ID: *VL1009355-1*