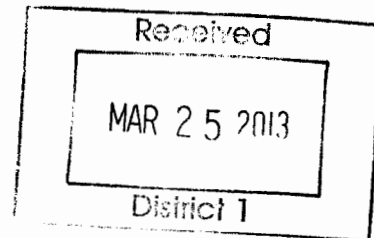




 ENTERED

March 22, 2013

Mr. Brian Salem
NMED Hazardous Waste Bureau
5500 San Antonio Drive NE
Albuquerque, NM. 87109



Re: ALS Workorder: 13-03-210
Project Name: KAFB – BFF 1Q13
Project Number: None Submitted

Dear Mr. Salem:

Two water samples were received from NMED Hazardous Waste Bureau on March 14, 2013. The samples were scheduled for the following analysis:

GC/MS Volatiles pages 1-16

Analysis subcontracted to ALS Environmental in Houston, TX:
Dibromoethane

The results for these analyses are contained in the enclosed reports.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Lance Steere
Senior Project Manager

LRS/mlc
Enclosure (s): Report and CD

ADDRESS 225 Commerce Drive, Fort Collins, Colorado, USA 80524 | PHONE +1 970 490 1511 | FAX +1 970 490 1522

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Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

KAFB4261



ALS is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

Accreditation Body	License or Certification Number
Alaska (AK)	UST-086
Alaska (AK)	CO00078
Arizona (AZ)*	AZ0742
California (CA)	06251CA
Colorado (CO)	CO00078
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO00078
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
Maryland (MD)	285
Missouri	175
Nevada (NV)	CO000782008A
New Jersey (NJ)**	CO003
North Dakota (ND)	R-057
Oklahoma	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241-09-1
Utah (UT)	CO00078
Washington	C1280

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1303210

Client Name: NMED Hazardous Waste Bureau

Client Project Name: KAFB - BFF 1Q13

Client Project Number:

Client PO Number: 20-667-00-16004

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
10615A	1303210-1		WATER	13-Mar-13	11:25
10615B	1303210-2		WATER	13-Mar-13	11:25



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED
Project Manager: LS

Workorder No: 1303210
Initials: CDT Date: 3-14-13

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<input checked="" type="radio"/> N/A	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> 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	<input checked="" type="radio"/> YES	NO
15. Do any water samples contain sediment? Amount of sediment: ___ dusting ___ moderate ___ heavy	Amount <input checked="" type="radio"/> N/A	YES	NO
16. Were the samples shipped on ice?		<input checked="" type="radio"/> YES	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 <input checked="" type="radio"/> #4	RAD ONLY	<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>2.8</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>12</u>			
Background µR/hr reading: <u>12</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> 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.

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: *LS* 3/14/13

1303210

FedEx NEW Package
Express US Airbill

FedEx
Tracking
Number

8015 3672 0118

Express Package Service
Service order has changed. Pk

1 From

Date 3-13-13

Sender's Name Brian Salem

Phone 505 222-9576

Company NMEP JFWB

Address 5500 San Ant

City Albuquerque

State NM ZIP 87109

2 Your Internal Billing Reference

3 To

Recipient's Name Lance Spear

Phone 490-1511

Company ALS Labs

Address 225 Commerce Dr.

Dept./Suite/Room 2

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Ft. Collins

State CO ZIP 80524-2762

HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for
FedEx Priority Overnight and
FedEx 2Day to select locations.

- Business Day
- FedEx First Overnight
Earliest next business morning delivery to
local offices. FedEx shipments will deliver
Monday unless SATURDAY Delivery is set.
 - FedEx Priority Overnight
Next business morning. First shipment
delivered on Monday unless SATURDAY
Delivery is selected.
 - FedEx Standard Overnight
Next business afternoon.
Saturday Delivery NOT available.

- 5 Packaging
- FedEx Envelope

- 6 Special Handling and
- SATURDAY Delivery
NOT available for FedEx Standard Over-
 - No Signature Required
Package may be left without
obtaining a signature for delivery.

- Does this shipment contain d
- No
 - Yes
One box must be checked
Yes
As per attached
Shipper's Declaration.
- Dangerous goods (including dry ice) cannot be sent
or placed in a FedEx Express Drop Box.

- 7 Payment Bill to:
- Sender
Acct. No. in Section
I will be billed.
 - Recipient
- Total Packages Total Weight

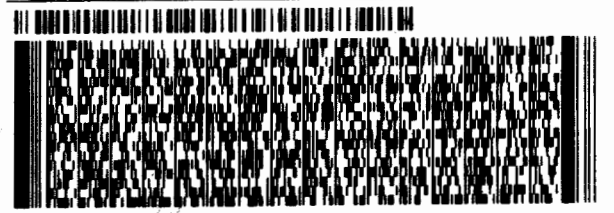
225 COMMERCE DR.

FORT COLLINS CO 80524

(970) 490-1611
TNU:
PO:

REF:

DEPT:

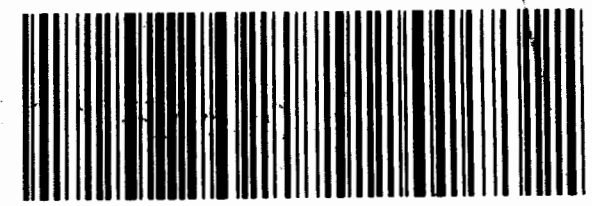


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GC/MS Volatiles

Case Narrative

NMED Hazardous Waste Bureau

KAFB - BFF 1Q13 – KAFB 1303210

Work Order Number: 1303210

1. This report consists of 1 water sample. The sample was received cool and intact by ALS on 03/15/13. All samples were free of headspace and had a pH < 2 at the time of analysis.
2. The sample was prepared according to SW-846, 3rd Edition procedures. Specifically, the water sample was prepared using purge and trap procedures based on Method 5030C.
3. The sample was analyzed using GC/MS with an RTX-624, RTX-VMS, or equivalent capillary column according to the current revision of SOP 525 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 were met.
5. All initial calibrations are verified by comparing a second source standard calibration verification (ICV) against the calibration curve. All criteria for initial calibration verification were met.
6. All compounds in the continuing calibration verification had a %D of less than 20% with the exception of dichlorodifluoromethane which was low. This compound was not detected in the associated sample.
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.



The method blank had trichloroethene detected below the reporting limit. This compound was not detected in the associated sample.

8. All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria.
9. A matrix spike and matrix spike duplicate were not performed because of insufficient sample. A laboratory control sample and laboratory control sample duplicate were performed instead.
10. The sample was analyzed within the established holding time.
11. All surrogate recoveries were within acceptance criteria.
12. All internal standard recoveries were within acceptance criteria.
13. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in the current revision of SOP 939.

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.



Emily Lyons
Organics Primary Data Reviewer

3/21/13
Date



Organics Final Data Reviewer

3/21/13
Date

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1303210

Client Name: NMED Hazardous Waste Bureau

Client Project Name: KAFB - BFF 1Q13

Client Project Number: KAFB 1303210

Client PO Number: 20-667-00-16004

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
10615A	1303210-1		WATER	13-Mar-13	11:25
10615B	1303210-2		WATER	13-Mar-13	11:25



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED

Workorder No: 1303210

Project Manager: LS

Initials: CDT Date: 3-14-13

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	<input checked="" type="radio"/> N/A	YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	<input checked="" type="radio"/> N/A	YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> 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	<input checked="" type="radio"/> YES	NO
15. Do any water samples contain sediment? Amount Amount of sediment: ___ dusting ___ moderate ___ heavy	<input checked="" type="radio"/> N/A	YES	NO
16. Were the samples shipped on ice?		<input checked="" type="radio"/> YES	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: #2 <input checked="" type="radio"/> #4		<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>2.8</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>12</u>			
Background µR/hr reading: <u>12</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> 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.

If applicable, was the client contacted? YES / NO / NA Contact: LS Date/Time: _____

Project Manager Signature / Date: LS 3/14/13

GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1303210

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q13 KAFB 1303210

Lab ID: VL130315-4MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 15-Mar-13

Date Analyzed: 15-Mar-13

Prep Batch: VL130315-4

QC Batch ID: VL130315-4-1

Run ID: VL130315-4A

Cleanup: NONE

Basis: N/A

File Name: D41163

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
75-71-8	DICHLORODIFLUOROMETHANE	1	1	1	0.3	U	
74-87-3	CHLOROMETHANE	1	1	1	0.3	U	
75-01-4	VINYL CHLORIDE	1	1	1	0.3	U	
74-83-9	BROMOMETHANE	1	1	1	0.3	U	
75-00-3	CHLOROETHANE	1	1	1	0.3	U	
75-69-4	TRICHLOROFLUOROMETHANE	1	1	1	0.3	U	
75-35-4	1,1-DICHLOROETHENE	1	1	1	0.3	U	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROET	1	1	1	0.3	U	
67-64-1	ACETONE	1	10	10	3	U	
74-88-4	IODOMETHANE	1	1	1	0.3	U	
75-15-0	CARBON DISULFIDE	1	1	1	0.3	U	
75-09-2	METHYLENE CHLORIDE	1	1	1	0.3	U	
156-60-5	TRANS-1,2-DICHLOROETHENE	1	1	1	0.3	U	
1634-04-4	METHYL TERTIARY BUTYL ETHER	1	1	1	0.3	U	
75-34-3	1,1-DICHLOROETHANE	1	1	1	0.3	U	
108-05-4	VINYL ACETATE	1	2	2	0.96	U	
156-59-2	CIS-1,2-DICHLOROETHENE	1	1	1	0.3	U	
78-93-3	2-BUTANONE	1	10	10	3	U	
74-97-5	BROMOCHLOROMETHANE	1	1	1	0.3	U	
67-66-3	CHLOROFORM	1	1	1	0.3	U	
71-55-6	1,1,1-TRICHLOROETHANE	1	1	1	0.3	U	
594-20-7	2,2-DICHLOROPROPANE	1	1	1	0.3	U	
56-23-5	CARBON TETRACHLORIDE	1	1	1	0.3	U	
563-58-6	1,1-DICHLOROPROPENE	1	1	1	0.3	U	
107-06-2	1,2-DICHLOROETHANE	1	1	1	0.3	U	
71-43-2	BENZENE	1	1	1	0.3	U	
79-01-6	TRICHLOROETHENE	1	0.36	1	0.3	J	
78-87-5	1,2-DICHLOROPROPANE	1	1	1	0.3	U	

Data Package ID: VL1303210-1

GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1303210

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q13 KAFB 1303210

Lab ID: VL130315-4MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 15-Mar-13

Date Analyzed: 15-Mar-13

Prep Batch: VL130315-4

QCBatchID: VL130315-4-1

Run ID: VL130315-4A

Cleanup: NONE

Basis: N/A

File Name: D41163

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
74-95-3	DIBROMOMETHANE	1	1	1	0.3	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	0.3	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	1	1	1	0.3	U	
108-10-1	4-METHYL-2-PENTANONE	1	10	10	3.4	U	
108-88-3	TOLUENE	1	1	1	0.3	U	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1	1	1	0.3	U	
79-00-5	1,1,2-TRICHLOROETHANE	1	1	1	0.3	U	
591-78-6	2-HEXANONE	1	10	10	3.4	U	
127-18-4	TETRACHLOROETHENE	1	1	1	0.18	U	
142-28-9	1,3-DICHLOROPROPANE	1	1	1	0.3	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	0.3	U	
106-93-4	1,2-DIBROMOETHANE	1	1	1	0.3	U	
544-10-5	1-CHLOROHEXANE	1	1	1	0.3	U	
108-90-7	CHLOROBENZENE	1	1	1	0.3	U	
630-20-6	1,1,1,2-TETRACHLOROETHANE	1	1	1	0.3	U	
100-41-4	ETHYLBENZENE	1	1	1	0.3	U	
136777-61-2	M+P-XYLENE	1	1	1	0.3	U	
95-47-6	O-XYLENE	1	1	1	0.3	U	
100-42-5	STYRENE	1	1	1	0.3	U	
75-25-2	BROMOFORM	1	1	1	0.34	U	
98-82-8	ISOPROPYLBENZENE	1	1	1	0.3	U	
96-18-4	1,2,3-TRICHLOROPROPANE	1	1	1	0.3	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	1	1	1	0.3	U	
108-86-1	BROMOBENZENE	1	1	1	0.3	U	
103-65-1	N-PROPYLBENZENE	1	1	1	0.3	U	
95-49-8	2-CHLOROTOLUENE	1	1	1	0.3	U	
108-67-8	1,3,5-TRIMETHYLBENZENE	1	1	1	0.3	U	
106-43-4	4-CHLOROTOLUENE	1	1	1	0.3	U	

Data Package ID: VL1303210-1

GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1303210

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q13 KAFB 1303210

Lab ID: VL130315-4MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 15-Mar-13

Date Analyzed: 15-Mar-13

Prep Batch: VL130315-4

QCBatchID: VL130315-4-1

Run ID: VL130315-4A

Cleanup: NONE

Basis: N/A

File Name: D41163

Sample Aliquot: 10 ml

Final Volume: 10 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
98-06-6	TERT-BUTYL BENZENE	1	1	1	0.3	U	
95-63-6	1,2,4-TRIMETHYLBENZENE	1	1	1	0.3	U	
135-98-8	SEC-BUTYL BENZENE	1	1	1	0.3	U	
541-73-1	1,3-DICHLOROBENZENE	1	1	1	0.3	U	
99-87-6	P-ISOPROPYLTOLUENE	1	1	1	0.3	U	
106-46-7	1,4-DICHLOROBENZENE	1	1	1	0.3	U	
104-51-8	N-BUTYL BENZENE	1	1	1	0.3	U	
95-50-1	1,2-DICHLOROBENZENE	1	1	1	0.3	U	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1	2	2	0.44	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	1	1	0.3	U	
87-68-3	HEXACHLOROBUTADIENE	1	1	1	0.3	U	
91-20-3	NAPHTHALENE	1	1	1	0.3	U	
87-61-6	1,2,3-TRICHLOROBENZENE	1	1	1	0.3	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	24.4		25	98	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	25.7		25	103	84 - 118
2037-26-5	TOLUENE-D8	24.4		25	98	85 - 115

Data Package ID: VL1303210-1

Date Printed: Thursday, March 21, 2013

ALS Environmental -- FC

Page 3 of 3

LIMS Version: 6.634

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1303210

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q13 KAFB 1303210

COC Number: 1211680

Field ID: 10615A
Lab ID: 1303210-1

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 13-Mar-13
Date Extracted: 15-Mar-13
Date Analyzed: 15-Mar-13
Prep Method: SW5030 Rev C

Prep Batch: VL130315-4
QCBatchID: VL130315-4-1
Run ID: VL130315-4A
Cleanup: NONE
Basis: As Received
File Name: D41165

Analyst: Steven D. White
Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

Analysis ReqCode: 101

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
75-71-8	DICHLORODIFLUOROMETHANE	1	1	1	0.3	U	
74-87-3	CHLOROMETHANE	1	1	1	0.3	U	
75-01-4	VINYL CHLORIDE	1	1	1	0.3	U	
74-83-9	BROMOMETHANE	1	1	1	0.3	U	
75-00-3	CHLOROETHANE	1	1	1	0.3	U	
75-69-4	TRICHLOROFLUOROMETHANE	1	1	1	0.3	U	
75-35-4	1,1-DICHLOROETHENE	1	1	1	0.3	U	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETH	1	1	1	0.3	U	
67-64-1	ACETONE	1	10	10	3	U	
74-88-4	IODOMETHANE	1	1	1	0.3	U	
75-15-0	CARBON DISULFIDE	1	1	1	0.3	U	
75-09-2	METHYLENE CHLORIDE	1	1	1	0.3	U	
156-60-5	TRANS-1,2-DICHLOROETHENE	1	1	1	0.3	U	
1634-04-4	METHYL TERTIARY BUTYL ETHER	1	1	1	0.3	U	
75-34-3	1,1-DICHLOROETHANE	1	1	1	0.3	U	
108-05-4	VINYL ACETATE	1	2	2	0.96	U	
156-59-2	CIS-1,2-DICHLOROETHENE	1	1	1	0.3	U	
78-93-3	2-BUTANONE	1	10	10	3	U	
74-97-5	BROMOCHLOROMETHANE	1	1	1	0.3	U	
67-66-3	CHLOROFORM	1	1	1	0.3	U	
71-55-6	1,1,1-TRICHLOROETHANE	1	1	1	0.3	U	
594-20-7	2,2-DICHLOROPROPANE	1	1	1	0.3	U	
56-23-5	CARBON TETRACHLORIDE	1	1	1	0.3	U	
563-58-6	1,1-DICHLOROPROPENE	1	1	1	0.3	U	
107-06-2	1,2-DICHLOROETHANE	1	1	1	0.3	U	
71-43-2	BENZENE	1	1	1	0.3	U	

Data Package ID: VL1303210-1

Date Printed: Thursday, March 21, 2013

ALS Environmental -- FC

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GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1303210

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q13 KAFB 1303210

COC Number: 1211680

Field ID: 10615A	Sample Matrix: WATER	Prep Batch: VL130315-4	Analyst: Steven D. White
Lab ID: 1303210-1	% Moisture: N/A	QCBatchID: VL130315-4-1	Sample Aliquot: 10 ml
	Date Collected: 13-Mar-13	Run ID: VL130315-4A	Final Volume: 10 ml
	Date Extracted: 15-Mar-13	Cleanup: NONE	Result Units: UG/L
Analysis ReqCode: 101	Date Analyzed: 15-Mar-13	Basis: As Received	Clean DF: 1
	Prep Method: SW5030 Rev C	File Name: D41165	

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
79-01-6	TRICHLOROETHENE	1	1	1	0.3	U	
78-87-5	1,2-DICHLOROPROPANE	1	1	1	0.3	U	
74-95-3	DIBROMOMETHANE	1	1	1	0.3	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	0.3	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	1	1	1	0.3	U	
108-10-1	4-METHYL-2-PENTANONE	1	10	10	3.4	U	
108-88-3	TOLUENE	1	16	1	0.3		
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1	1	1	0.3	U	
79-00-5	1,1,2-TRICHLOROETHANE	1	1	1	0.3	U	
591-78-6	2-HEXANONE	1	10	10	3.4	U	
127-18-4	TETRACHLOROETHENE	1	1	1	0.18	U	
142-28-9	1,3-DICHLOROPROPANE	1	1	1	0.3	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	0.3	U	
106-93-4	1,2-DIBROMOETHANE	1	1	1	0.3	U	
544-10-5	1-CHLOROHEXANE	1	1	1	0.3	U	
108-90-7	CHLOROBENZENE	1	1	1	0.3	U	
630-20-6	1,1,1,2-TETRACHLOROETHANE	1	1	1	0.3	U	
100-41-4	ETHYLBENZENE	1	1	1	0.3	U	
136777-61-2	M+P-XYLENE	1	1	1	0.3	U	
95-47-6	O-XYLENE	1	1	1	0.3	U	
100-42-5	STYRENE	1	1	1	0.3	U	
75-25-2	BROMOFORM	1	1	1	0.34	U	
98-82-8	ISOPROPYLBENZENE	1	1	1	0.3	U	
96-18-4	1,2,3-TRICHLOROPROPANE	1	1	1	0.3	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	1	1	1	0.3	U	
108-86-1	BROMOBENZENE	1	1	1	0.3	U	

Data Package ID: VL1303210-1

Date Printed: Thursday, March 21, 2013

ALS Environmental -- FC

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GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1303210

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q13 KAFB 1303210

COC Number: 1211680

Field ID: 10615A
Lab ID: 1303210-1

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 13-Mar-13
Date Extracted: 15-Mar-13
Date Analyzed: 15-Mar-13
Prep Method: SW5030 Rev C

Prep Batch: VL130315-4
QCBatchID: VL130315-4-1
Run ID: VL130315-4A
Cleanup: NONE
Basis: As Received
File Name: D41165

Analyst: Steven D. White
Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

Analysis ReqCode: 101

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
103-65-1	N-PROPYLBENZENE	1	1	1	0.3	U	
95-49-8	2-CHLOROTOLUENE	1	1	1	0.3	U	
108-67-8	1,3,5-TRIMETHYLBENZENE	1	1	1	0.3	U	
106-43-4	4-CHLOROTOLUENE	1	1	1	0.3	U	
98-06-6	TERT-BUTYLBENZENE	1	1	1	0.3	U	
95-63-6	1,2,4-TRIMETHYLBENZENE	1	1	1	0.3	U	
135-98-8	SEC-BUTYLBENZENE	1	1	1	0.3	U	
541-73-1	1,3-DICHLOROBENZENE	1	1	1	0.3	U	
99-87-6	P-ISOPROPYLTOLUENE	1	1	1	0.3	U	
106-46-7	1,4-DICHLOROBENZENE	1	1	1	0.3	U	
104-51-8	N-BUTYLBENZENE	1	1	1	0.3	U	
95-50-1	1,2-DICHLOROBENZENE	1	1	1	0.3	U	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1	2	2	0.44	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	1	1	0.3	U	
87-68-3	HEXACHLOROBUTADIENE	1	1	1	0.3	U	
91-20-3	NAPHTHALENE	1	1	1	0.3	U	
87-61-6	1,2,3-TRICHLOROBENZENE	1	1	1	0.3	U	

Data Package ID: VL1303210-1

Date Printed: Thursday, March 21, 2013

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GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1303210

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q13 KAFB 1303210

COC Number: 1211680

Field ID: 10615A	Sample Matrix: WATER	Prep Batch: VL130315-4	Analyst: Steven D. White
Lab ID: 1303210-1	% Moisture: N/A	QCBatchID: VL130315-4-1	Sample Aliquot: 10 ml
	Date Collected: 13-Mar-13	Run ID: VL130315-4A	Final Volume: 10 ml
	Date Extracted: 15-Mar-13	Cleanup: NONE	Result Units: UG/L
Analysis ReqCode: 101	Date Analyzed: 15-Mar-13	Basis: As Received	Clean DF: 1
	Prep Method: SW5030 Rev C	File Name: D41165	

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
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Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	24.4		25	98	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	25.7		25	103	84 - 118
2037-26-5	TOLUENE-D8	24.6		25	99	85 - 115

Data Package ID: VL1303210-1

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1303210

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q13 KAFB 1303210

Lab ID: VL130315-4LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 03/15/2013
Date Analyzed: 03/15/2013
Prep Method: SW5030C

Prep Batch: VL130315-4
QCBatchID: VL130315-4-1
Run ID: VL130315-4A
Cleanup: NONE
Basis: N/A
File Name: D41159

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
75-35-4	1,1-DICHLOROETHENE	10	9.97	1		100	77 - 119%
71-43-2	BENZENE	10	9.57	1		96	83 - 117%
79-01-6	TRICHLOROETHENE	10	10.5	1		105	83 - 117%
108-88-3	TOLUENE	10	9.77	1		98	82 - 113%
108-90-7	CHLOROBENZENE	10	10.2	1		102	81 - 113%

Lab ID: VL130315-4LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 03/15/2013
Date Analyzed: 03/15/2013
Prep Method: SW5030C

Prep Batch: VL130315-4
QCBatchID: VL130315-4-1
Run ID: VL130315-4A
Cleanup: NONE
Basis: N/A
File Name: D41160

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
75-35-4	1,1-DICHLOROETHENE	10	10.6	1		106	20	6
71-43-2	BENZENE	10	9.93	1		99	20	4
79-01-6	TRICHLOROETHENE	10	10.9	1		109	20	4
108-88-3	TOLUENE	10	9.97	1		100	20	2
108-90-7	CHLOROBENZENE	10	10.2	1		102	20	0

Data Package ID: VL1303210-1

Date Printed: Thursday, March 21, 2013

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GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1303210

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q13 KAFB 1303210

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	100		97		85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	25	104		106		84 - 118
2037-26-5	TOLUENE-D8	25	98		98		85 - 115

Data Package ID: VL1303210-1

Date Printed: Thursday, March 21, 2013

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21-Mar-2013

Lance Steere
ALS Laboratory Group
225 Commerce Drive
Fort Collins, CO 80524

Tel: (800) 443-1511
Fax: (970) 490-1522

Re: KAFB-BFF 1Q13

Work Order: **1303628**

Dear Lance,

ALS Environmental received 1 sample on 19-Mar-2013 09:10 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Sonia West".

Electronically approved by: Jumoke M. Lawal

Sonia West
Project Manager



Certificate No: T104704231-12-10

ADDRESS 10450 Slandiff Rd, Suite 210 Houston, Texas 77099-4336 | PHONE (281) 530-5656 | FAX (281) 530-5897

DEPARTMENT OF ENVIRONMENTAL PROTECTION (DHEP) IS NOT RESPONSIBLE FOR THE CONTENTS OF THIS REPORT.

Environmental ALS

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

ALS Environmental

Date: 21-Mar-13

Client: ALS Laboratory Group
Project: KAFB-BFF 1Q13
Work Order: 1303628

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1303628-01	10615-B	Water		3/13/2013 11:25	3/19/2013 09:10	<input type="checkbox"/>

ALS Environmental

Date: 21-Mar-13

Client: ALS Laboratory Group
Project: KAFB-BFF 1Q13
Work Order: 1303628

Case Narrative

No Exceptions

ALS Environmental

Date: 21-Mar-13

Client: ALS Laboratory Group
Project: KAFB-BFF 1Q13
Sample ID: 10615-B
Collection Date: 3/13/2013 11:25 AM

Work Order: 1303628
Lab ID: 1303628-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
EDB-DBCP 1,2-Dibromoethane	ND		SW8011 0.000018	mg/L	Prep Date: 3/19/2013 1	Analyst: JLJ 3/20/2013 12:46 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 21-Mar-13

Client: ALS Laboratory Group
 Work Order: 1303628
 Project: KAFB-BFF 1Q13

QC BATCH REPORT

Batch ID: 68545 Instrument ID ECD_9 Method: SW8011

MBLK Sample ID: EBLKW1-130319-68545 Units: µg/L Analysis Date: 3/19/2013 02:19 PM
 Client ID: Run ID: ECD_9_130319A SeqNo: 3147069 Prep Date: 3/19/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dibromoethane	ND	0.020								

LCS Sample ID: ELCSW1-130319-68545 Units: µg/L Analysis Date: 3/19/2013 02:43 PM
 Client ID: Run ID: ECD_9_130319A SeqNo: 3147070 Prep Date: 3/19/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dibromoethane	0.2356	0.020	0.2	0	118	60-140	0			

LCSD Sample ID: ELCSDW1-130319-68545 Units: µg/L Analysis Date: 3/19/2013 03:07 PM
 Client ID: Run ID: ECD_9_130319A SeqNo: 3147071 Prep Date: 3/19/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dibromoethane	0.2433	0.020	0.2	0	122	60-140	0.2356	3.21	20	

MS Sample ID: 1303500-03BMS Units: µg/L Analysis Date: 3/19/2013 04:43 PM
 Client ID: Run ID: ECD_9_130319A SeqNo: 3147075 Prep Date: 3/19/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dibromoethane	0.148	0.020	0.2047	0	72.3	60-140	0			

MSD Sample ID: 1303500-03BMSD Units: µg/L Analysis Date: 3/19/2013 05:06 PM
 Client ID: Run ID: ECD_9_130319A SeqNo: 3147076 Prep Date: 3/19/2013 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dibromoethane	0.1483	0.020	0.1967	0	75.4	60-140	0.148	0.231	20	

The following samples were analyzed in this batch:

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ALS Laboratory Group
Project: KAFB-BFF 1Q13
WorkOrder: 1303628

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

ALS Environmental

Sample Receipt Checklist

Client Name: **ALS CO**

Date/Time Received: **19-Mar-13 09:10**

Work Order: **1303628**

Received by: **RDH**

Checklist completed by Robert D. Harris 19-Mar-13
eSignature Date

Reviewed by: Sania West 19-Mar-13
eSignature Date

Matrices: **water**

Carrier name: **FedEx**

- 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? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

PCL XL error

Subsystem: TEXT

Error: InternalError 0x50

Operator: Text

Position: 36445