Inorganics

Case Narrative

NMED Hazardous Waste Bureau

KAFB - BFF 1Q12

Work Order Number: 1202116

1. This report consists of 3 water samples.

2. The samples were received cool and intact by ALS on 02/10/12.

3. The samples had been correctly preserved for the requested analyses.

4. The samples were prepared for analysis based on Methods for the Chemical Analysis of Waters and Wastes (MCAWW), May 1994 procedures and Environmental Monitoring Systems Laboratory (EMSL) Rev 2.1 procedures.

5. The samples were analyzed following MCAWW and EMSL procedures for the following methods:

Analyte	Method	SOP #
Alkalinity	310.1	1106 Rev 10
Bicarbonate	310.1	1106 Rev 10
Carbonate	310.1	1106 Rev 10
Ammonia as N	350.1	1129 Rev 7
Nitrate/nitrite as N	353.2 Revision 2.0	1127 Rev 8
Sulfide	376.1	1120 Rev 7
Bromide	300.0 Revision 2.1	1113 Rev 12
Chloride	300.0 Revision 2.1	1113 Rev 12
Fluoride	300.0 Revision 2.1	1113 Rev 12
Sulfate	300.0 Revision 2.1	1113 Rev 12

6. All standards and solutions were used within their recommended shelf life.

7. The samples were prepared and analyzed within the established hold time for each analysis.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.

- A preparation (method) blank and laboratory control sample (LCS) were prepared and analyzed with the samples in each preparation batch. There were not more than 20 samples in each preparation batch.
- The method blank associated with each batch was below the reporting limit for the requested analytes. This indicates that no contaminants were introduced to the samples during preparation and analysis.
- The LCS was within the acceptance limits for each analysis.
- All initial and continuing calibration blanks (ICB/CCB) associated with each applicable analytical batch were below the reporting limit for the requested analytes.
- All initial and continuing calibration verifications (ICV/CCV) associated with each applicable analytical batch were within the acceptance criteria for the requested analytes. This indicates a valid calibration and stable instrument conditions.

9. Matrix specific quality control procedures.

   Per method requirements, matrix QC was performed for each analysis. 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. It was necessary to dilute sample 1202116-6 in order to bring the chloride concentration into the analytical range of the ion chromatograph (IC).

    It was necessary to dilute sample 1202116-7 in order to bring the nitrate/nitrite as N concentration into the analytical range of the flow injection analyzer (FIA).

    Reduced aliquots were taken of sample 1202116-6 for the alkalinity, bicarbonate, and carbonate analysis. Reporting limits were elevated accordingly.

11. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in SOP 939 Revision 4.

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.

Megan Johnson
Megan Johnson
Inorganics Primary Data Reviewer

2/28/12
Date

Inorganics Final Data Reviewer

2/28/12
Date

Inorganic Data Reporting Qualifiers

The following qualifiers are used by the laboratory when reporting results of inorganic analyses.

- Concentration qualifier -- If the analyte was analyzed for but not detected a “U” is entered.
- QC qualifier -- Specified entries and their meanings are as follows:

  N - Spiked sample recovery not within control limits.

  * - Duplicate analysis (relative percent difference) not within control limits.

  Z - Calibration spike recovery not within control limits.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1202116
Client Name: NMED Hazardous Waste Bureau
Client Project Name: KAFB - BFF 1Q12
Client Project Number:
Client PO Number: 20-667-00-16004

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
106029-A	1202116-1		WATER	09-Feb-12	11:25
106029-B	1202116-2		WATER	09-Feb-12	11:27
106029-C	1202116-3		WATER	09-Feb-12	11:29
106029-D	1202116-4		WATER	09-Feb-12	11:30
106029-E	1202116-5		WATER	09-Feb-12	11:31
106029-F	1202116-6		WATER	09-Feb-12	11:33
106029-G	1202116-7		WATER	09-Feb-12	11:35
106029-H	1202116-8		WATER	09-Feb-12	11:36
106029-I	1202116-9		WATER	09-Feb-12	11:37
106029-J	1202116-10		WATER	09-Feb-12	11:38

ALS Laboratory Group

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

Chain-of-Custody

Form 202r8

WORKORDER #	1202114		
PAGE	1 of 1		
DISPOSAL	By Lab or Return to Client		

SAMPLER	Salem	DATE	2-9-12
SITE ID	106029	TURNAROUND	Normal
EDD FORMAT			
PURCHASE ORDER			
BILL TO COMPANY	NMED/HWB		
INVOICE ATTN TO	Dave Cobrain		
ADDRESS	2905 Rodeo Park Dr		
CITY / STATE / ZIP	Santa Fe, NM 87505		
PHONE	505-476-6055		
FAX			
E-MAIL			

PROJECT NAME	KAFB BFF Q1/12		
PROJECT No.			
COMPANY NAME	NMED		
SEND REPORT TO	Brian Salem		
ADDRESS	5500 San Antonio NE		
CITY / STATE / ZIP	Albuquerque, NM 87109		
PHONE	505-222-9576		
FAX			
E-MAIL			

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	VOC 8260	EDB 8011	C-KO 8015	PAH 8270	DRO 8015	Anions AIR 310.1	NH3 350.3	Sul Fide 353.3	Tot. Met. 376.1	Diss. Met 6010	6010 Fe+Mn only
1	106029-A	W	2-9-12	11:25	3	HCl		X										
2	106029-B			11:27	3	HCl			X									
3	106029-C			11:29	3	HCl				X								
4	106029-D			11:30	1	—					X							
5	106029-E			11:31	1	H_2SO_4						X						
6	106029-F			11:33	1	—							X					
7	106029-G			11:35	1	H_2SO_4								X				
8	106029-H			11:36	1	NaOH									X			
9	106029-I			11:37	1	HNO_3										X		
10	106029-J			11:38	1	HNO_3											X	

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:

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

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Brian Salem	Brian Salem	2-9-12	15:00
RECEIVED BY	C Trimble	C Trimble	2-10-12	0955
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

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

ALS Laboratory Group - Fort Collins

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED Workorder No: 1202116

Project Manager: LS Initials: CDT Date: 2-10-12

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):	3.4							
No. of custody seals on cooler:	2							
DOT Survey/ Acceptance Information — External µR/hr reading:	14							
Background µR/hr reading:	13							

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.

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

Project Manager Signature / Date: 2/13/12

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

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

FedEx Express **NEW** Package US Airbill

FedEx Tracking Number 8768 4050 1528

0200 Form ID No.

1202116

FedEx Retrieval Cop

1 From

Date 2-9-12 Sender's FedEx Account Number

Sender's Name Brian Salem Phone 505 222-9576

Company NMED / HWB

Address 5500 San Antonio NE Dept./Floor/Suite/Room

City ABQ State NM ZIP 87109

2 Your Internal Billing Reference

3 To

Recipient's Name Lance Steere Phone 970 490-1511

Company ALS Labs

Address 225 Commerce Dr. Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

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

City Ft. Collins State CO ZIP 80524-2762

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

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

8768 4050 1528

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs

For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

06 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

01 ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

49 ☐ **NEW** FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

03 ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other

6 Special Handling and Delivery Signature Options

03 ☐ **SATURDAY DELIVERY**

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ No 04 ☐ Yes — As per attached Shipper's Declaration. ☐ Shipper's Declaration not required. 06 ☐ Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

3.40

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip. Acct. No. ☐

1 ☐ Sender — Acct. No. in Section 1 will be billed. 2 ☒ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Total Packages 1 Total Weight 49 lbs. Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

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BICARBONATE AS CaCO3

Method EPA310.1

Sample Results

Lab Name: **ALS Environmental -- FC**
Client Name: NMED Hazardous Waste Bureau
Client Project ID: KAFB - BFF 1Q12
Work Order Number: 1202116
Reporting Basis: As Received
Prep Method: NONE
Analyst: Jason McNall

Final Volume: 100 ml
Matrix: WATER
Result Units: MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
106029-F	1202116-6	02/09/2012	02/17/2012	02/17/2012	N/A	1	87	10		50 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202116-1*

CARBONATE AS CaCO3

Method EPA310.1

Sample Results

Lab Name: **ALS Environmental -- FC**
Client Name: NMED Hazardous Waste Bureau
Client Project ID: KAFB - BFF 1Q12
Work Order Number: 1202116
Reporting Basis: As Received
Prep Method: NONE
Analyst: Jason McNall

Final Volume: 100 ml
Matrix: WATER
Result Units: MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
106029-F	1202116-6	02/09/2012	02/17/2012	02/17/2012	N/A	1	10	10	U	50 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202116-1*

TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Sample Results

Lab Name: **ALS Environmental -- FC**
Client Name: NMED Hazardous Waste Bureau
Client Project ID: KAFB - BFF 1Q12
Work Order Number: 1202116
Reporting Basis: As Received
Prep Method: NONE
Analyst: Jason McNall

Final Volume: 100 ml
Matrix: WATER
Result Units: MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
106029-F	1202116-6	02/09/2012	02/17/2012	02/17/2012	N/A	1	87	10		50 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202116-1*

AMMONIA AS N

Method EPA350.1

Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Field ID: 106029-G
Lab ID: 1202116-7

Analysis ReqCode: **543**

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 09-Feb-12
Date Extracted: 17-Feb-12
Date Analyzed: 17-Feb-12
Prep Method: NONE

Prep Batch: NH120217-1
QCBatchID: NH120217-1-1
Run ID: NH120217-1A
Cleanup: NONE
Basis: As Received
File Name: 0217NH.FDT

Analyst: Eric Allen Lintner
Sample Aliquot: 5 ML
Final Volume: 5 ML
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
7664-41-7	AMMONIA AS N	1	0.1	0.1	U	

Data Package ID: *nh1202116-1*

Nitrate/Nitrite as N

Method EPA353.2 Revision 2.0

Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Field ID: 106029-G
Lab ID: 1202116-7

Analysis ReqCode: **542**

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 09-Feb-12
Date Extracted: 16-Feb-12
Date Analyzed: 16-Feb-12
Prep Method: NONE

Prep Batch: NN120216-1
QCBatchID: NN120216-1-1
Run ID: NN120216-1A
Cleanup: NONE
Basis: As Received
File Name: 0216NOX.FDT

Analyst: Eric Allen Lintner
Sample Aliquot: 5 ML
Final Volume: 5 ML
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
1-005	NITRATE/NITRITE AS N	5	2.5	0.05		

Data Package ID: *nn1202116-1*

Sulfide

Method EPA376.1

Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Field ID: 106029-H
Lab ID: 1202116-8

Analysis ReqCode: **503**

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 09-Feb-12
Date Extracted: 15-Feb-12
Date Analyzed: 15-Feb-12
Prep Method: NONE

Prep Batch: S120215-1
QCBatchID: S120215-1-1
Run ID: s120215-1a
Cleanup: NONE
Basis: As Received
File Name:

Analyst: Jason McNall
Sample Aliquot: 200 ML
Final Volume: 200 ML
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
18496-25-8	SULFIDE	1	2	2	U	

Data Package ID: *s1202116-1*

Ion Chromatography

Method EPA300.0 Revision 2.1

Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Field ID: 106029-F
Lab ID: 1202116-6

Analysis ReqCode: **524**

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 09-Feb-12
Date Extracted: 10-Feb-12
Date Analyzed: 10-Feb-12
Prep Method: NONE

Prep Batch: IC120210-1
QCBatchID: IC120210-1-1
Run ID: ic120210-1a1
Cleanup: NONE
Basis: As Received
File Name: 20210_020.DXD

Analyst: Eric Allen Lintner
Sample Aliquot: 5 ML
Final Volume: 5 ML
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
16984-48-8	FLUORIDE AnalysisTime: 15:33	1	0.29	0.1		
16887-00-6	CHLORIDE AnalysisTime: 15:47	5	96	1		
24959-67-9	BROMIDE AnalysisTime: 15:33	1	1.3	0.2		
14808-79-8	SULFATE AnalysisTime: 15:33	1	92	1		

Data Package ID: *ic1202116-1*

BICARBONATE AS CaCO3

Method EPA310.1

Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: AK120217-1MB

Sample Matrix: WATER
% Moisture: N/A

Prep Batch: AK120217-1
QCBatchID: AK120217-1-1
Run ID: ak120217-1a
Cleanup: NONE
Basis: N/A

Sample Aliquot: 100 ml
Final Volume: 100 ml
Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
AK120217-1MB	2/17/2012	02/17/2012	N/A	1	5	5	U

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202116-1*

CARBONATE AS CaCO3

Method EPA310.1

Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: AK120217-1MB

Sample Matrix: WATER
% Moisture: N/A

Prep Batch: AK120217-1
QCBatchID: AK120217-1-1
Run ID: ak120217-1a
Cleanup: NONE
Basis: N/A

Sample Aliquot: 100 ml
Final Volume: 100 ml
Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
AK120217-1MB	2/17/2012	02/17/2012	N/A	1	5	5	U

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202116-1*

TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: AK120217-1MB

Sample Matrix: WATER
% Moisture: N/A

Prep Batch: AK120217-1
QCBatchID: AK120217-1-1
Run ID: ak120217-1a
Cleanup: NONE
Basis: N/A

Sample Aliquot: 100 ml
Final Volume: 100 ml
Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
AK120217-1MB	2/17/2012	02/17/2012	N/A	1	5	5	U

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202116-1*

TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Laboratory Control Sample

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: AK120217-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/17/2012
Date Analyzed: 02/17/2012

Prep Batch: AK120217-1
QCBatchID: AK120217-1-1
Run ID: ak120217-1a
Cleanup: NONE
Basis: N/A

Sample Aliquot: 100 ml
Final Volume: 100 ml
Result Units: MG/L

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
	TOTAL ALKALINITY AS CaCO3	100	98.9	5		99	85 - 115

Data Package ID: *ak1202116-1*

AMMONIA AS N

Method EPA350.1
Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: NH120217-1MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 17-Feb-12
Date Analyzed: 17-Feb-12
Prep Method: NONE

Prep Batch: NH120217-1
QCBatchID: NH120217-1-1
Run ID: NH120217-1A
Cleanup: NONE
Basis: N/A
File Name: 0217NH.FDT

Sample Aliquot: 5 ml
Final Volume: 5 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
7664-41-7	AMMONIA AS N	1	0.1	0.1	U	

Data Package ID: *nh1202116-1*

AMMONIA AS N

Method EPA350.1

Laboratory Control Sample

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: NH120217-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/17/2012
Date Analyzed: 02/17/2012
Prep Method: NONE

Prep Batch: NH120217-1
QCBatchID: NH120217-1-1
Run ID: NH120217-1A
Cleanup: NONE
Basis: N/A
File Name: 0217NH.FDT

Sample Aliquot: 5 ml
Final Volume: 5 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7664-41-7	AMMONIA AS N	1	0.968	0.1		97	90 - 110%

Data Package ID: *nh1202116-1*

Nitrate/Nitrite as N

Method EPA353.2 Revision 2.0

Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: NN120216-1MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 16-Feb-12
Date Analyzed: 16-Feb-12
Prep Method: NONE

Prep Batch: NN120216-1
QCBatchID: NN120216-1-1
Run ID: NN120216-1A
Cleanup: NONE
Basis: N/A
File Name: 0216NOX.FDT

Sample Aliquot: 5 ml
Final Volume: 5 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
1-005	NITRATE/NITRITE AS N	1	0.01	0.01	U	

Data Package ID: *nn1202116-1*

Nitrate/Nitrite as N

Method EPA353.2 Revision 2.0

Laboratory Control Sample

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: NN120216-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/16/2012
Date Analyzed: 02/16/2012
Prep Method: NONE

Prep Batch: NN120216-1
QCBatchID: NN120216-1-1
Run ID: NN120216-1A
Cleanup: NONE
Basis: N/A
File Name: 0216NOX.FDT

Sample Aliquot: 5 ml
Final Volume: 5 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
1-005	NITRATE/NITRITE AS N	0.5	0.485	0.01		97	90 - 110%

Data Package ID: *nn1202116-1*

Sulfide

Method EPA376.1

Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: S120215-1MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 15-Feb-12
Date Analyzed: 15-Feb-12
Prep Method: NONE

Prep Batch: S120215-1
QCBatchID: S120215-1-1
Run ID: s120215-1a
Cleanup: NONE
Basis: N/A
File Name:

Sample Aliquot: 200 ml
Final Volume: 200 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
18496-25-8	SULFIDE	1	2	2	U	

Data Package ID: *s1202116-1*

Sulfide

Method EPA376.1

Laboratory Control Sample

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: S120215-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/15/2012
Date Analyzed: 02/15/2012
Prep Method: NONE

Prep Batch: S120215-1
QCBatchID: S120215-1-1
Run ID: s120215-1a
Cleanup: NONE
Basis: N/A
File Name:

Sample Aliquot: 200 ml
Final Volume: 200 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
18496-25-8	SULFIDE	11.8	12	2		102	80 - 120%

Data Package ID: *s1202116-1*

Ion Chromatography

Method EPA300.0 Revision 2.1

Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: IC120210-1MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 10-Feb-12
Date Analyzed: 10-Feb-12
Prep Method: NONE

Prep Batch: IC120210-1
QCBatchID: IC120210-1-1
Run ID: ic120210-1a1
Cleanup: NONE
Basis: N/A
File Name: 20210_015.DXD

Sample Aliquot: 5 ml
Final Volume: 5 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
16984-48-8	FLUORIDE	1	0.1	0.1	U	
16887-00-6	CHLORIDE	1	0.2	0.2	U	
24959-67-9	BROMIDE	1	0.2	0.2	U	
14808-79-8	SULFATE	1	1	1	U	

Data Package ID: *ic1202116-1*

Ion Chromatography

Method EPA300.0 Revision 2.1

Laboratory Control Sample

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1202116
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: IC120210-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/10/2012
Date Analyzed: 02/10/2012
Prep Method: NONE

Prep Batch: IC120210-1
QCBatchID: IC120210-1-1
Run ID: ic120210-1a1
Cleanup: NONE
Basis: N/A
File Name: 20210_016.DXD

Sample Aliquot: 5 ml
Final Volume: 5 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
16984-48-8	FLUORIDE	2.5	2.59	0.1		104	90 - 110%
16887-00-6	CHLORIDE	5	4.88	0.2		98	90 - 110%
24959-67-9	BROMIDE	5	4.96	0.2		99	90 - 110%
14808-79-8	SULFATE	25	24.9	1		100	90 - 110%

Data Package ID: *ic1202116-1*