



Inorganics Case Narrative

NMED Hazardous Waste Bureau

KAFB - BFF 1Q12

Work Order Number: 1201305

1. This report consists of 3 water samples.
2. The samples were received cool and intact by ALS on 01/25/12.
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:

| <u>Analyte</u> | <u>Method</u> | <u>SOP #</u> |
|----------------------|--------------------|--------------|
| 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.

- n 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.
- n 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.
- n The LCS was within the acceptance limits for each analysis.
- n All initial and continuing calibration blanks (ICB/CCB) associated with each applicable analytical batch were below the reporting limit for the requested analytes.
- n 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.

Sample 1201305-7 was designated as the quality control sample for the ammonia as N analysis. Per method requirements, matrix QC was performed for the remaining analyses. 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.

Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

- n A matrix spike (MS) and matrix spike duplicate (MSD) were prepared and analyzed with the ammonia as N batch. All guidance criteria for precision and accuracy were met.

10. It was necessary to dilute the sample in order to bring the chloride and sulfate concentrations into the analytical range of the ion chromatograph (IC).

It was necessary to dilute the sample 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 the sample 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

2/21/12
Date

C. C. [Signature]
Inorganics Final Data Reviewer

2/21/12
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: 1201305

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 |
|----------------------|-------------------|------------|--------|----------------|----------------|
| 106049-A | 1201305-1 | | WATER | 24-Jan-12 | 14:05 |
| 106049-B | 1201305-2 | | WATER | 24-Jan-12 | 14:09 |
| 106049-C | 1201305-3 | | WATER | 24-Jan-12 | 14:14 |
| 106049-D | 1201305-4 | | WATER | 24-Jan-12 | 14:18 |
| 106049-E | 1201305-5 | | WATER | 24-Jan-12 | 14:20 |
| 106049-F | 1201305-6 | | WATER | 24-Jan-12 | 14:22 |
| 106049-G | 1201305-7 | | WATER | 24-Jan-12 | 14:24 |
| 106049-H | 1201305-8 | | WATER | 24-Jan-12 | 14:25 |
| 106049-I | 1201305-9 | | WATER | 24-Jan-12 | 14:26 |
| 106049-J | 1201305-10 | | WATER | 24-Jan-12 | 14:28 |



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 20218

WORKORDER # 1201305

| | | | | | | | |
|----------------|----------------------|-----------------|----------------------|------------|---------|----------|----------------------------|
| PROJECT NAME | KAFB BFF AIR | SAMPLER | BLS | DATE | 1/24/12 | PAGE | 1 of 1 |
| PROJECT No. | | SITE ID | KAFB-106049 | TURNAROUND | 120 min | DISPOSAL | By Lab or Return to Client |
| COMPANY NAME | NMED | EDD FORMAT | | | | | |
| SEND REPORT TO | Brian Salem | PURCHASE ORDER | | | | | |
| ADDRESS | 5500 So. Arapahoe ME | BILL TO COMPANY | NMED/HWB | | | | |
| CITY/STATE/ZIP | ABERDEEN 87109 | INVOICE ATTN TO | Dave Coburn | | | | |
| PHONE | 505-232-9576 | ADDRESS | 2905 Redwood Park Dr | | | | |
| FAX | | CITY/STATE/ZIP | Santa Fe NM 87505 | | | | |
| E-MAIL | | PHONE | 505-476-6055 | | | | |
| | | FAX | | | | | |
| | | E-MAIL | | | | | |

| Lab ID | Field ID | Matrix | Sample Date | Sample Time | # Bottles | Pres. | QC |
|--------|------------|--------|-------------|-------------|-----------|-------|-------|
| 1 | 106049 - A | W | 1/24/12 | 14:05 | 3 | HCl | X VOC |
| 2 | 106049 - B | | | 14:09 | 3 | HCl | X VOC |
| 3 | 106049 - C | | | 14:14 | 3 | HCl | X VOC |
| 4 | 106049 - D | | | 14:18 | 1 | - | X VOC |
| 5 | 106049 - E | | | 14:20 | 1 | H2SO4 | X VOC |
| 6 | 106049 - F | | | 14:22 | 1 | - | X VOC |
| 7 | 106049 - G | | | 14:24 | 1 | H2SO4 | X VOC |
| 8 | 106049 - H | | | 14:25 | 1 | ZnAc | X VOC |
| 9 | 106049 - I | | | 14:26 | 1 | HNO3 | X VOC |
| 10 | 106049 - J | | | 14:28 | 1 | HNO3 | X VOC |

*Time Zone (Circle): EST CST (MS) 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.

| | | | | |
|-----------------|-------------|---------------|---------|-------|
| RELINQUISHED BY | SIGNATURE | PRINTED NAME | DATE | TIME |
| RECEIVED BY | Brian Salem | Brian Salem | 1/24/12 | |
| RELINQUISHED BY | | Laura Schmitz | 1/25/12 | 10:10 |
| RECEIVED BY | | | | |
| RELINQUISHED BY | | | | |
| RECEIVED BY | | | | |

OC PACKAGE (check below)

| | |
|--------------------------------------|--|
| LEVEL II (Standard OC) | |
| LEVEL III (Std OC + forms) | |
| LEVEL IV (Std OC + forms + raw data) | |

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



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED
Project Manager: LRS

Workorder No: 1201305
Initials: LAS Date: 1/25/12

| | | | |
|--|---------------------------------------|--------------------------------------|-------------------------------------|
| 1. Does this project require any special handling in addition to standard Paragon 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) | N/A | <input checked="" type="radio"/> YES | NO |
| 9. Are all aqueous non-preserved samples pH 4-9 ? | N/A | <input checked="" type="radio"/> 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: <u> </u> < green pea <u> </u> > green pea | N/A | <input checked="" type="radio"/> YES | NO |
| 15. Do perchlorate LCMS-MS samples have headspace ? (at least 1/3 of container required) | <input checked="" type="radio"/> 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.) | <input checked="" type="radio"/> N/A | YES | NO |
| 17. Were the samples shipped on ice ? | | <input checked="" type="radio"/> YES | NO |
| 18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <input checked="" type="radio"/> #2 #4 RAD ONLY | | <input checked="" type="radio"/> YES | NO |
| Cooler #: <u>1</u> | | | |
| Temperature (°C): <u>2.6</u> | | | |
| No. of custody seals on cooler: <u>2</u> | | | |
| External µR/hr reading: <u>14</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:  1/26/12

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

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

From
 Date 1-24-12 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

Your Internal Billing Reference
 To Recipient's Name Lance Steere Phone 970 490-1511
 Company ALS Labs
 Address 225 Commerce Pr. Dept./Floor/Suite/Room
 Address Fort Collins State CO ZIP 80524-2762
 Use this line for the HOLD location address or for continuation of your shipping address.

01 **HOLD Weekday**
 FedEx location address REQUIRED. NOT available for FedEx First Overnight.
 02 **HOLD Saturday**
 FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.



8762 4637 7470

4 Express Package Service * To most locations. 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 may sign for recipient's address 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. Yes No
 Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.
 06 Dry Ice
 16 Cargo Aircraft Only

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below. Obtain receipt 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 45 lbs. Credit Card Auth. 612

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

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: 1201305 **Final Volume:** 100 ml
Reporting Basis: As Received **Matrix:** WATER
Prep Method: NONE **Result Units:** MG/L
Analyst: Jason McNall

| Client Sample ID | Lab ID | Date Collected | Date Prepared | Date Analyzed | Percent Moisture | Dilution Factor | Result | Reporting Limit | Flag | Sample Aliquot |
|------------------|-----------|----------------|---------------|---------------|------------------|-----------------|--------|-----------------|------|----------------|
| 106049-F | 1201305-6 | 01/24/2012 | 01/27/2012 | 01/27/2012 | N/A | 1 | 93 | 10 | | 50 ml |

Comments:

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

Data Package ID: ak1201305-1

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: 1201305 Final Volume: 100 ml
Reporting Basis: As Received Matrix: WATER
Prep Method: NONE Result Units: MG/L
Analyst: Jason McNall

| Client Sample ID | Lab ID | Date Collected | Date Prepared | Date Analyzed | Percent Moisture | Dilution Factor | Result | Reporting Limit | Flag | Sample Aliquot |
|------------------|-----------|----------------|---------------|---------------|------------------|-----------------|--------|-----------------|------|----------------|
| 106049-F | 1201305-6 | 01/24/2012 | 01/27/2012 | 01/27/2012 | 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: *ak1201305-1*

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: 1201305 **Final Volume:** 100 ml
Reporting Basis: As Received **Matrix:** WATER
Prep Method: NONE **Result Units:** MG/L
Analyst: Jason McNall

| Client Sample ID | Lab ID | Date Collected | Date Prepared | Date Analyzed | Percent Moisture | Dilution Factor | Result | Reporting Limit | Flag | Sample Aliquot |
|------------------|-----------|----------------|---------------|---------------|------------------|-----------------|--------|-----------------|------|----------------|
| 106049-F | 1201305-6 | 01/24/2012 | 01/27/2012 | 01/27/2012 | N/A | 1 | 93 | 10 | | 50 ml |

Comments:

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

Data Package ID: ak1201305-1

AMMONIA AS N

Method EPA350.1

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

| | |
|-----------|-----------|
| Field ID: | 106049-G |
| Lab ID: | 1201305-7 |

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 24-Jan-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 Lin

Sample Aliquot: 5 ML

Final Volume: 5 ML

Result Units: MG/L

Clean DF: 1

Analysis ReqCode: 543

| 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: *nh1201305-1*

Nitrate/Nitrite as N

Method EPA353.2 Revision 2.0

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

| | |
|------------------|-----------|
| Field ID: | 106049-G |
| Lab ID: | 1201305-7 |

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 24-Jan-12

Date Extracted: 02-Feb-12

Date Analyzed: 02-Feb-12

Prep Method: NONE

Prep Batch: NN120202-1

QCBatchID: NN120202-1-1

Run ID: NN120202-1A

Cleanup: NONE

Basis: As Received

File Name: 0202ANOX.FDT

Analyst: Jason McNal

Sample Aliquot: 5 ML

Final Volume: 5 ML

Result Units: MG/L

Clean DF: 1

Analysis ReqCode: 542

| CASNO | Target Analyte | Dilution Factor | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|-------|----------------------|-----------------|--------|-----------------|------------------|---------------|
| 1-005 | NITRATE/NITRITE AS N | 2 | 2.7 | 0.02 | | |

Data Package ID: *nn1201305-1*

Sulfide

Method EPA376.1

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

| | |
|-----------|-----------|
| Field ID: | 106049-H |
| Lab ID: | 1201305-8 |

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 24-Jan-12

Date Extracted: 27-Jan-12

Date Analyzed: 27-Jan-12

Prep Method: NONE

Prep Batch: S120127-1

QCBatchID: S120127-1-1

Run ID: S120127-1A

Cleanup: NONE

Basis: As Received

File Name:

Analyst: Jason McNal

Sample Aliquot: 200 ML

Final Volume: 200 ML

Result Units: MG/L

Clean DF: 1

Analysis ReqCode: 503

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

Data Package ID: s1201305-1

Ion Chromatography

Method EPA300.0 Revision 2.1

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

| | |
|-----------|-----------|
| Field ID: | 106049-F |
| Lab ID: | 1201305-6 |

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 24-Jan-12

Date Extracted: 25-Jan-12

Date Analyzed: 25-Jan-12

Prep Method: NONE

Prep Batch: IC120125-1

QCBatchID: IC120125-1-1

Run ID: IC120125-A1

Cleanup: NONE

Basis: As Received

File Name: 20125_013.DXD

Analyst: Eric Allen Lin

Sample Aliquot: 5 ML

Final Volume: 5 ML

Result Units: MG/L

Clean DF: 1

Analysis ReqCode: 524

| CASNO | Target Analyte | Dilution Factor | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|------------|------------------------------|-----------------|--------|-----------------|------------------|---------------|
| 16984-48-8 | FLUORIDE AnalysisTime: 15:16 | 1 | 0.34 | 0.1 | | |
| 16887-00-6 | CHLORIDE AnalysisTime: 15:26 | 5 | 78 | 1 | | |
| 24959-67-9 | BROMIDE AnalysisTime: 15:16 | 1 | 0.71 | 0.2 | | |
| 14808-79-8 | SULFATE AnalysisTime: 15:26 | 5 | 200 | 5 | | |

Data Package ID: *ic1201305-1*

BICARBONATE AS CaCO3

Method EPA310.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Lab ID: AK120127-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK120127-1

QCBatchID: AK120127-1-1

Run ID: ak120127-1a

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 |
|--------------|---------------|---------------|------------------|-----------------|--------|-----------------|------|
| AK120127-1MB | 1/27/2012 | 01/27/2012 | N/A | 1 | 5 | 5 | U |

Comments:

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

Data Package ID: *ak1201305-1*

Date Printed: Monday, February 20, 2012

ALS Environmental -- FC

Page 1 of 3

LIMS Version: 6.562

CARBONATE AS CaCO3

Method EPA310.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Lab ID: AK120127-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK120127-1

QCBatchID: AK120127-1-1

Run ID: ak120127-1a

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 |
|--------------|---------------|---------------|------------------|-----------------|--------|-----------------|------|
| AK120127-1MB | 1/27/2012 | 01/27/2012 | N/A | 1 | 5 | 5 | U |

Comments:

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

Data Package ID: *ak1201305-1*

Date Printed: Monday, February 20, 2012

ALS Environmental -- FC

Page 2 of 3

LIMS Version: 6.562

TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Lab ID: AK120127-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK120127-1

QCBatchID: AK120127-1-1

Run ID: ak120127-1a

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 |
|--------------|---------------|---------------|------------------|-----------------|--------|-----------------|------|
| AK120127-1MB | 1/27/2012 | 01/27/2012 | N/A | 1 | 5 | 5 | U |

Comments:

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

Data Package ID: *ak1201305-1*

Date Printed: Monday, February 20, 2012

ALS Environmental -- FC

Page 3 of 3

LIMS Version: 6.562

TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Lab ID: AK120127-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 01/27/2012

Date Analyzed: 01/27/2012

Prep Batch: AK120127-1

QCBatchID: AK120127-1-1

Run ID: ak120127-1a

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 | 99.6 | 5 | | 99 | 85 - 115 |

Data Package ID: ak1201305-1

Date Printed: Monday, February 20, 2012

ALS Environmental -- FC

Page 1 of 1

LIMS Version: 6.562

AMMONIA AS N

Method EPA350.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

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: *nh1201305-1*

AMMONIA AS N

Method EPA350.1

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

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: *nh1201305-1*

Date Printed: Monday, February 20, 2012

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AMMONIA AS N

Method EPA350.1

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

| | | | |
|--------------------|---------------------------|-------------------------|-----------------------|
| Field ID: 106049-G | Sample Matrix: WATER | Prep Batch: NH120217-1 | Sample Aliquot: 5 ml |
| LabID: 1201305-7MS | % Moisture: N/A | QCBatchID: NH120217-1-1 | Final Volume: 5 ml |
| | Date Collected: 24-Jan-12 | Run ID: NH120217-1A | Result Units: MG/L |
| | Date Extracted: 17-Feb-12 | Cleanup: NONE | File Name: 0217NH.FDT |
| | Date Analyzed: 17-Feb-12 | Basis: As Received | |
| | Prep Method: NONE | | |

| CASNO | Target Analyte | Sample Result | Samp Qual | MS Result | MS Qual | Reporting Limit | Spike Added | MS % Rec. | Control Limits |
|-----------|----------------|---------------|-----------|-----------|---------|-----------------|-------------|-----------|----------------|
| 7664-41-7 | AMMONIA AS N | 0.1 | U | 1.04 | | 0.1 | 1 | 104 | 75 - 125% |

| | | | |
|---------------------|---------------------------|-------------------------|-----------------------|
| Field ID: 106049-G | Sample Matrix: WATER | Prep Batch: NH120217-1 | Sample Aliquot: 5 ml |
| LabID: 1201305-7MSD | % Moisture: N/A | QCBatchID: NH120217-1-1 | Final Volume: 5 ml |
| | Date Collected: 24-Jan-12 | Run ID: NH120217-1A | Result Units: MG/L |
| | Date Extracted: 17-Feb-12 | Cleanup: NONE | File Name: 0217NH.FDT |
| | Date Analyzed: 17-Feb-12 | Basis: As Received | |
| | Prep Method: NONE | | |

| CASNO | Target Analyte | MSD Result | MSD Qual | Spike Added | MSD % Rec. | Reporting Limit | RPD Limit | RPD |
|-----------|----------------|------------|----------|-------------|------------|-----------------|-----------|-----|
| 7664-41-7 | AMMONIA AS N | 1.03 | | 1 | 103 | 0.1 | 20 | 0 |

Data Package ID: *nh1201305-1*

Nitrate/Nitrite as N

Method EPA353.2 Revision 2.0

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Lab ID: NN120202-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02-Feb-12

Date Analyzed: 02-Feb-12

Prep Method: NONE

Prep Batch: NN120202-1

QCBatchID: NN120202-1-1

Run ID: NN120202-1A

Cleanup: NONE

Basis: N/A

File Name: 0202ANOX.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: *nn1201305-1*

Nitrate/Nitrite as N

Method EPA353.2 Revision 2.0

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Lab ID: NN120202-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/02/2012

Date Analyzed: 02/02/2012

Prep Method: NONE

Prep Batch: NN120202-1

QCBatchID: NN120202-1-1

Run ID: NN120202-1A

Cleanup: NONE

Basis: N/A

File Name: 0202ANOX.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 | 0.533 | 0.01 | | 107 | 90 - 110% |

Data Package ID: *nn1201305-1*

Sulfide

Method EPA376.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Lab ID: S120127-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 27-Jan-12

Date Analyzed: 27-Jan-12

Prep Method: NONE

Prep Batch: S120127-1

QCBatchID: S120127-1-1

Run ID: S120127-1A

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: s1201305-1

Sulfide

Method EPA376.1

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Lab ID: S120127-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 01/27/2012

Date Analyzed: 01/27/2012

Prep Method: NONE

Prep Batch: S120127-1

QCBatchID: S120127-1-1

Run ID: S120127-1A

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 | 11.9 | 2 | | 101 | 80 - 120% |

Data Package ID: s1201305-1

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Ion Chromatography

Method EPA300.0 Revision 2.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Lab ID: IC120125-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 25-Jan-12

Date Analyzed: 25-Jan-12

Prep Method: NONE

Prep Batch: IC120125-1

QCBatchID: IC120125-1-1

Run ID: IC120125-A1

Cleanup: NONE

Basis: N/A

File Name: 20125_010.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: ic1201305-1

Ion Chromatography

Method EPA300.0 Revision 2.1

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1201305

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 1Q12

Lab ID: IC120125-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 01/25/2012

Date Analyzed: 01/25/2012

Prep Method: NONE

Prep Batch: IC120125-1

QCBatchID: IC120125-1-1

Run ID: IC120125-A1

Cleanup: NONE

Basis: N/A

File Name: 20125_009.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 | 2.63 | 0.1 | | 105 | 90 - 110% |
| 16887-00-6 | CHLORIDE | 5 | 5.33 | 0.2 | | 107 | 90 - 110% |
| 24959-67-9 | BROMIDE | 5 | 5.34 | 0.2 | | 107 | 90 - 110% |
| 14808-79-8 | SULFATE | 25 | 25.8 | 1 | | 103 | 90 - 110% |

Data Package ID: *ic1201305-1*

Date Printed: Monday, February 20, 2012

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