ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_001

PROJECT NAME: KIRTLAND AFB 2011
PROJECT LOCATION: ALBUQUERQUE, NEW MEXICO

SUBMITTAL TO:
Pamela Moss
SHAW E&I
7604 Technology Way, Suite 300
Denver, CO 80237

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
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Original Report Date: February 17, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 307

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The continuing calibration verifications exceeded criteria in 1B03303-CCV1 with a negative bias for Bromomethane, Chloromethane and Dichlorodifluoromethane and with a positive bias for Cis-1,2-Dichloroethene and in 1B03305-CCV1 with a positive bias for Acetone, 2-Butanone, Cis-1,2-Dichloroethene, 2,2-Dichloropropane and Methyl t-Butyl Ether and with a negative bias for Bromomethane and Chloromethane.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8015B GRO:
No anomalies or deviations are noted.

SW8015B DRO:
The retention time window for the surrogate o-Terphenyl was exceeded in samples 1101162-01, 1101181-01, -02, 1101198-01, -03 and -05. The result bias due to the R.T. shift was determined to be negligible for all affected samples.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8011 EDB:
No anomalies or deviations are noted.

SW6010B:
No anomalies or deviations are noted.

Wet Chemistry:
Samples 1101162-01, 1101182-01, -02, 1101198-01, -03 and -05 are qualified with an M for Chloride to indicate that the LOQ was raised due to interference.

The continuing calibration verification 1B03813-CCV2 exceeded criteria with a positive bias for Sulfate as SO4.

The method blank 1A26034-BLK1 and continuing calibration blanks 1B03813-CCB1, -CCB2 and –CCB3 have positive results for Chloride.

The matrix spikes associated to sample 1101181-02 exceeded criteria with a positive bias for Alkalinity, Total (as CACO3).

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:
The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

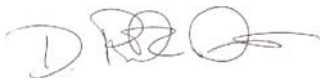
BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.



_____
Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

Sample Receipt Information

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW001

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 25 JAN 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182162

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard ☑ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☑ Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Date: 1-25-11 Time: 16:00
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) [signature] Date: 1-26-11 Time: 08:45

Comments:

1101162

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

-01

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1101162

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW001

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	250 mL HDPE	2	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-02	GW8001-TB	FIELDQC-BW-GW8001-TB-TB	25 JAN 2011	08:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 101162 Number of Coolers: 1 of 1

Client: Shaw E&I Project: Kirtland AFB

Date/Time Received: 1.26.11 8:45 Date cooler(s) opened: 1.26.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered EL Courier Other: _____

If applicable, enter airbill number here: 2162

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 1 Seal date: 1.25.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A
7. Was project identifiable from custody papers? ..... Yes No N/A
8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 3.9 °C Correction Factor: -0.3 °C Final Value: 3.3 °C

Dates samples were logged-in: 1-26-11

9. Initial this form to acknowledge login of sample(s): (Name): [signature] (Initial): [initials]
10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A
17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

- ph<2 for all metals and ammonia samples
- ph>9 for sulfide sample.

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW002

12

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 26 JAN 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182195

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation) Date: 1-26-11 Time: 1600
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) 2.5°C Date: 1-27-11 Time: 08:45

Comments:

110181

Sample No	Sample Name	Sample Date	Sample Time	Container	Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		

-04

KIRTLAND_001 Summ Package

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW002

110/181

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW8002-TB	FIELDQC-BW-GW8002-TB-TB	26 JAN 2011	08:00	40 mL VOA VIAL	~~3~~ 2	HCl<pH 2	VOCs by SW846 8260B			N		

-01

1/0/81 -02

mll 1-26-11

BENNETT PUMP RE-INSTALL, JANUARY 2011

	MONITORING WELL ID	LNAPL	VAPOR SAMPLED	INNER CASING STICK UP FEET	TOP OF SCREEN FEET BELOW TOC	WATER LEVEL (MAY 2010) FEET BELOW TOC		SCREEN ABOVE WATER LEVEL (MAY 2010) FEET	c	AS-BUILT WELL BOTTOM FEET BELOW TOC	BOTTOM OF SCREEN FEET BELOW TOC
DT-	KAFB-1061	No	Yes	2.43	485.43	488.77		3.34		510.93	510.43
	KAFB-1062	No	Yes	2.13	481.13	486.44		5.31		507.13	506.13
DT-	KAFB-1063	No	Yes	2.15	478.15	484.05		5.90		505.15	503.15
DT-	KAFB-1064	No	Yes	2.44	486.44	490.54		4.10		512.44	511.44 ←
	KAFB-1067	No	Yes	5.20	489.20	493.41		4.21		516.20	514.20
DT	KAFB-10611	No	Yes	2.99	488.99	498.16		9.17		518.99	513.99
→	KAFB-10612	No	Yes	3.07	483.57	490.07		6.50		513.57	508.57
	KAFB-10615	No	Yes	2.70	482.70	490.22		7.52		517.70	507.70
	KAFB-10616	No	Yes	3.21	478.21	487.50	a	9.29		508.21	503.21
	KAFB-03411	No	Yes	2.99	484.99	487.47		2.48		505.99	509.99

a = Water level measurement from Jan-March 2010 quarterly report, CH2M-Hill unable to obtain water level in May
TOC = TOP OF (inner) CASING, OR MEASUREMENT POINT

ALL DROP TUBES TO BE INSTALLED TO NEAR BOTTOM OF SCREEN.
DROP TUBES TO BE PERFORATED BELOW WATER LEVEL, AT INTERFACE, AND ABOVE WATER LEVEL TO ALLOW LNAPL AND VAPOR INTO TUBE

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: N01181 Number of Coolers: 1 of 1

Client: SHAW E&I INC. Project: Kirtland AFB

Date/Time Received: 1·26·11 08:45 Date cooler(s) opened: 1·26·11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered

EL Courier Other: _____

If applicable, enter airbill number here: 2195

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 1 Seal date: 1·25·11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A
7. Was project identifiable from custody papers? ..... Yes No N/A
8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 3.2 °C Correction Factor: -0.3 °C Final Value: 2.9 °C

Dates samples were logged-in: 1-27-11

9. Initial this form to acknowledge login of sample(s): (Name): Chris Pond (Initial): CP

10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A
17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

· pH < 2 for all ammonia samples
· pH > 9 for all sulfides

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW003

16

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 27 JAN 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182184

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental Date: 1/27/2011 Time: 1730
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) 3.0°C Date: 1-28-11 Time: 08:30

Comments:

110198

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-02 GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01 GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		

mll 1/27/11

KIRTLAND_001 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW003

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
-02	GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-03	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
-04	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-06	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-05	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-07	GW8003-TB	FIELDQC-BW-GW8003-TB-TB	27 JAN 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

mel 1/27/11

17

KIRTLAND_001 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1101198 Number of Coolers: 1 of 1

Client: SHAW E&I Inc. Project: Kirtland AFB

Date/Time Received: 1.28.11 08:30 Date cooler(s) opened: 1.28.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? FedEx UPS DHL Hand Delivered EL Courier Other: _____

If applicable, enter airbill number here: 9324

2. Were custody seals on outside of cooler(s)? ..... Yes No

How many: 1 Seal date: 1.27.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... Yes No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... Yes No N/A
7. Was project identifiable from custody papers? ..... Yes No N/A
8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 3.3 °C Correction Factor: -0.3 °C Final Value: 3.0 °C

Dates samples were logged-in: 1-28-11

9. Initial this form to acknowledge login of sample(s): (Name): [signature] (Initial): CP
10. Were all bottle lids intact and sealed tightly? ..... Yes No N/A
11. Did all bottles arrive unbroken? ..... Yes No N/A
12. Was all required bottle label information complete? ..... Yes No N/A
13. Did all bottle labels agree with custody papers? ..... Yes No N/A
14. Were correct containers used for the analyses indicated? ..... Yes No N/A
15. Were preservative levels correct in all applicable sample containers? ..... Yes No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No N/A
17. Was sufficient amount of sample sent for the analyses required? ..... Yes No N/A
18. Was headspace present in any included VOA vials? ..... Yes No N/A

If Non-Conformance issues were present, list by sample ID: _____

- ph <2 for all metals & ammonia, DRO samples
- ph >9 for all sulfide samples.

FedEx Express *US Airbill*

FedEx Tracking Number 8741 5464 9324

Form ID No. 0200

FedEx Retrieval Copy

1 From

Date 1-27-11 Sender's FedEx Account Number

Sender's Name Mark Lyon Phone 505 917 0645

Company Shaw Environmental

Address 5202 Randolph Ave SE, So. Randolph Fuel Dept/Floor/Suite/Room

City Kirtland AFB State NM ZIP 87117

2 Your Internal Billing Reference

3 To

Recipient's Name Kim Kostzer Phone 615 345-1115

Company Emphirical Laboratories

Address 621 Mainstream Drive 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 Nashville State TN ZIP 37228

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.

8741 5464 9324

4a Express Package Service * To most locations. *Packages up to 150 lbs.*

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

09 ☒ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

06 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations.*

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

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

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

70 ☐ FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx 1Day Freight Booking No.

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

83 ☐ FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* — Includes FedEx Small Pak and FedEx Large 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. ☐ Yes — 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

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 60 lbs. Credit Card Auth.

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

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WORK ORDER

1101162

Printed: 2/17/2011 1:31:18PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 02/18/2011 16:00 (17 day TAT)

Received By: Chris Donald

Logged In By: Chris Donald

Date Received: 01/26/2011 08:45

Date Logged In 01/26/2011 13:01

Samples Received at: **3.3°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1101162

Printed: 2/17/2011 1:31:18PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1101162-01 GW0001 [Water] Sampled 01/25/2011 12:57 Central					
SM4500S2CF	02/14/2011 14:00	15	02/01/2011 12:57		
E300.0	02/14/2011 14:00	15	01/27/2011 12:57		NITRATE
E300.0	02/14/2011 14:00	15	02/22/2011 12:57		CHLORIDE, SULFATE
SM4500NH3BG	02/14/2011 14:00	15	02/22/2011 12:57		
SM2320B	02/14/2011 14:00	15	02/08/2011 12:57		
SW8260B	02/14/2011 14:00	15	02/08/2011 12:57		
SW8015B	02/14/2011 14:00	15	02/08/2011 12:57		
SW8011	02/14/2011 14:00	15	02/08/2011 12:57		
SW8015B	02/14/2011 14:00	15	02/01/2011 12:57		
SW6010B	02/14/2011 14:00	15	07/24/2011 12:57		Ca, Pb, K, Na, Mg
1101162-02 GW8001-TB [Water] Sampled 01/25/2011 08:00 Central					
SW8260B	02/14/2011 14:00	15	02/08/2011 08:00		
1101162-03 GW001 [Water] Sampled 01/25/2011 12:57 Central					
SW6010B	02/14/2011 14:00	15	07/24/2011 12:57		Fe & Mn

WORK ORDER

1101181

Printed: 2/17/2011 1:31:45PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 02/18/2011 16:00 (16 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 01/27/2011 08:45
Date Logged In 01/27/2011 15:25

Samples Received at: **2.9°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1101181

Printed: 2/17/2011 1:31:45PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1101181-01 GW0017 [Water] Sampled 01/26/2011 13:25 Central					
SW8015B	02/14/2011 14:00	15	02/02/2011 13:25		
SW8011	02/14/2011 14:00	15	02/09/2011 13:25		
SW8015B	02/14/2011 14:00	15	02/09/2011 13:25		
SW8260B	02/14/2011 14:00	15	02/09/2011 13:25		
SM2320B	02/14/2011 14:00	15	02/09/2011 13:25		
SM4500NH3BG	02/14/2011 14:00	15	02/23/2011 13:25		
E300.0	02/14/2011 14:00	15	02/23/2011 13:25		Chloride, Sulfate
E300.0	02/14/2011 14:00	15	01/28/2011 13:25		Nitrate
SM4500S2CF	02/14/2011 14:00	15	02/02/2011 13:25		
SW6010B	02/14/2011 14:00	15	07/25/2011 13:25		Ca, Pb, K, Na, Mg
1101181-02 GW0032 [Water] Sampled 01/26/2011 11:29 Central					
SW8011	02/14/2011 14:00	15	02/09/2011 11:29		
SW8015B	02/14/2011 14:00	15	02/02/2011 11:29		
SW8015B	02/14/2011 14:00	15	02/09/2011 11:29		
SW8260B	02/14/2011 14:00	15	02/09/2011 11:29		
SM2320B	02/14/2011 14:00	15	02/09/2011 11:29		
SM4500NH3BG	02/14/2011 14:00	15	02/23/2011 11:29		
E300.0	02/14/2011 14:00	15	02/23/2011 11:29		Chloride, Sulfate
E300.0	02/14/2011 14:00	15	01/28/2011 11:29		Nitrate
SM4500S2CF	02/14/2011 14:00	15	02/02/2011 11:29		
SW6010B	02/14/2011 14:00	15	07/25/2011 11:29		Ca, Pb, K, Na, Mg
1101181-03 GW8002-TB [Water] Sampled 01/26/2011 08:00 Central					
SW8260B	02/14/2011 14:00	15	02/09/2011 08:00		

WORK ORDER

1101181

Printed: 2/17/2011 1:31:45PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1101181-04 GW0017 [Water] Sampled 01/26/2011 13:25 Central					
SW6010B	02/14/2011 14:00	15	07/25/2011 13:25		Fe & Mn
1101181-05 GW0032 [Water] Sampled 01/26/2011 11:29 Central					
SW6010B	02/14/2011 14:00	15	07/25/2011 11:29		Fe & Mn

WORK ORDER

1101198

Printed: 2/17/2011 1:32:14PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 02/18/2011 16:00 (15 day TAT)
Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 01/28/2011 08:30
Date Logged In 01/28/2011 11:04

Samples Received at: **3°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1101198

Printed: 2/17/2011 1:32:14PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1101198-01 GW0002 [Water] Sampled 01/27/2011 14:45 Central					
SM2320B	02/15/2011 14:00	15	02/10/2011 14:45		
SW8260B	02/15/2011 14:00	15	02/10/2011 14:45		
SW8015B	02/15/2011 14:00	15	02/10/2011 14:45		
SW8011	02/15/2011 14:00	15	02/10/2011 14:45		
SW8015B	02/15/2011 14:00	15	02/03/2011 14:45		
E300.0	02/15/2011 14:00	15	02/24/2011 14:45		CHLORIDE, SULFATE
E300.0	02/15/2011 14:00	15	01/29/2011 14:45		NITRATE
SM4500S2CF	02/15/2011 14:00	15	02/03/2011 14:45		
SW6010B	02/15/2011 14:00	15	07/26/2011 14:45		Ca, Pb, K, Na, Mg
SM4500NH3BG	02/15/2011 14:00	15	02/24/2011 14:45		
1101198-02 GW0002 [Water] Sampled 01/27/2011 14:45 Central					
SW6010B	02/15/2011 14:00	15	07/26/2011 14:45		Fe & Mn
1101198-03 GW0003 [Water] Sampled 01/27/2011 12:56 Central					
E300.0	02/15/2011 14:00	15	01/29/2011 12:56		NITRATE
SM4500NH3BG	02/15/2011 14:00	15	02/24/2011 12:56		
SM2320B	02/15/2011 14:00	15	02/10/2011 12:56		
SW8260B	02/15/2011 14:00	15	02/10/2011 12:56		
SW8015B	02/15/2011 14:00	15	02/10/2011 12:56		
SW8011	02/15/2011 14:00	15	02/10/2011 12:56		
E300.0	02/15/2011 14:00	15	02/24/2011 12:56		CHLORIDE, SULFATE
SW6010B	02/15/2011 14:00	15	07/26/2011 12:56		Ca, Pb, K, Na, Mg
SM4500S2CF	02/15/2011 14:00	15	02/03/2011 12:56		
SW8015B	02/15/2011 14:00	15	02/03/2011 12:56		

WORK ORDER

1101198

Printed: 2/17/2011 1:32:14PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1101198-04 GW0003 [Water] Sampled 01/27/2011 12:56 Central					
SW6010B	02/15/2011 14:00	15	07/26/2011 12:56		Fe & Mn
1101198-05 GW0004 [Water] Sampled 01/27/2011 10:10 Central					
SW8015B	02/15/2011 14:00	15	02/03/2011 10:10		
SW8011	02/15/2011 14:00	15	02/10/2011 10:10		
SW8015B	02/15/2011 14:00	15	02/10/2011 10:10		
SW8260B	02/15/2011 14:00	15	02/10/2011 10:10		
SM2320B	02/15/2011 14:00	15	02/10/2011 10:10		
SM4500NH3BG	02/15/2011 14:00	15	02/24/2011 10:10		
E300.0	02/15/2011 14:00	15	02/24/2011 10:10		CHLORIDE, SULFATE
E300.0	02/15/2011 14:00	15	01/29/2011 10:10		NITRATE
SM4500S2CF	02/15/2011 14:00	15	02/03/2011 10:10		
SW6010B	02/15/2011 14:00	15	07/26/2011 10:10		Ca, Pb, K, Na, Mg
1101198-06 GW0004 [Water] Sampled 01/27/2011 10:10 Central					
SW6010B	02/15/2011 14:00	15	07/26/2011 10:10		Fe & Mn
1101198-07 GW8003-TB [Water] Sampled 01/27/2011 08:00 Central					
SW8260B	02/15/2011 14:00	15	02/10/2011 08:00		

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: kirtland_001
MATRIX: Water

QC LEVEL: EDD/IVQSM
Report Due: 2/18/2011
Client Sample Count: 12

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B	SW8011	SW8015B	SW8260B
Client Sample	1/25/2011	1/26/2011	1101162-01	GW0001	X	X	X	X	X	X	X	X
Trip Blank	1/25/2011	1/26/2011	1101162-02	GW8001-TB								X
Client Sample	1/25/2011	1/26/2011	1101162-03	GWOO1-DISS METALS					X			
Client Sample	1/26/2011	1/27/2011	1101181-01	GW0017	X	X	X	X	X	X	X	X
Client Sample	1/26/2011	1/27/2011	1101181-02	GW0032	X	X	X	X	X	X	X	X
Trip Blank	1/26/2011	1/27/2011	1101181-03	GW8002-TB								X
Client Sample	1/26/2011	1/27/2011	1101181-04	GW0017					X			
Client Sample	1/26/2011	1/27/2011	1101181-05	GW0032					X			
Client Sample	1/27/2011	1/28/2011	1101198-01	GW0002	X	X	X	X	X	X	X	X
Client Sample	1/27/2011	1/28/2011	1101198-02	GW0002					X			
Client Sample	1/27/2011	1/28/2011	1101198-03	GW0003	X	X	X	X	X	X	X	X
Client Sample	1/27/2011	1/28/2011	1101198-04	GW0003					X			
Client Sample	1/27/2011	1/28/2011	1101198-05	GW0004	X	X	X	X	X	X	X	X
Client Sample	1/27/2011	1/28/2011	1101198-06	GW0004					X			
Trip Blank	1/27/2011	1/28/2011	1101198-07	GW8003-TB								X

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0001

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101162-01	File ID:	0116201.D
Sampled:	01/25/11 12:57	Prepared:	02/01/11 00:00	Analyzed:	02/01/11 15:43
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene	1.06	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0001

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101162-01	File ID:	0116201.D
Sampled:	01/25/11 12:57	Prepared:	02/01/11 00:00	Analyzed:	02/01/11 15:43
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	0.963	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	0.846	0.250	0.500	1.00	J
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.89	116	75 - 120	
Dibromofluoromethane	30.00	29.95	99.8	85 - 115	
1,2-Dichloroethane-d4	30.00	32.31	108	70 - 120	
Toluene-d8	30.00	29.41	98.0	85 - 120	

ANALYSIS DATA SHEET

GW8001-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101162-02	File ID:	0116202.D
Sampled:	01/25/11 08:00	Prepared:	02/01/11 00:00	Analyzed:	02/01/11 13:14
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8001-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101162-02	File ID:	0116202.D
Sampled:	01/25/11 08:00	Prepared:	02/01/11 00:00	Analyzed:	02/01/11 13:14
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	0.701	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	33.85	113	75 - 120	
Dibromofluoromethane	30.00	30.24	101	85 - 115	
1,2-Dichloroethane-d4	30.00	31.37	105	70 - 120	
Toluene-d8	30.00	28.86	96.2	85 - 120	

ANALYSIS DATA SHEET

GW0017

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-01	File ID:	0118101.D
Sampled:	01/26/11 13:25	Prepared:	02/01/11 00:00	Analyzed:	02/01/11 16:12
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0017

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-01	File ID:	0118101.D
Sampled:	01/26/11 13:25	Prepared:	02/01/11 00:00	Analyzed:	02/01/11 16:12
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	0.703	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.26	114	75 - 120	
Dibromofluoromethane	30.00	30.73	102	85 - 115	
1,2-Dichloroethane-d4	30.00	32.86	110	70 - 120	
Toluene-d8	30.00	29.60	98.7	85 - 120	

ANALYSIS DATA SHEET

GW0032

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-02	File ID:	0118102.D
Sampled:	01/26/11 11:29	Prepared:	02/01/11 00:00	Analyzed:	02/01/11 16:42
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0032

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-02	File ID:	0118102.D
Sampled:	01/26/11 11:29	Prepared:	02/01/11 00:00	Analyzed:	02/01/11 16:42
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	1.14	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	35.60	119	75 - 120	
Dibromofluoromethane	30.00	29.86	99.5	85 - 115	
1,2-Dichloroethane-d4	30.00	30.84	103	70 - 120	
Toluene-d8	30.00	28.71	95.7	85 - 120	

ANALYSIS DATA SHEET

GW8002-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-03	File ID:	0118103.D
Sampled:	01/26/11 08:00	Prepared:	02/01/11 00:00	Analyzed:	02/01/11 14:14
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8002-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-03	File ID:	0118103.D
Sampled:	01/26/11 08:00	Prepared:	02/01/11 00:00	Analyzed:	02/01/11 14:14
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	0.706	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.62	115	75 - 120	
Dibromofluoromethane	30.00	29.42	98.1	85 - 115	
1,2-Dichloroethane-d4	30.00	30.89	103	70 - 120	
Toluene-d8	30.00	28.99	96.6	85 - 120	

ANALYSIS DATA SHEET

GW0002

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-01	File ID:	0119801.D
Sampled:	01/27/11 14:45	Prepared:	02/01/11 14:32	Analyzed:	02/02/11 07:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0002

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-01	File ID:	0119801.D
Sampled:	01/27/11 14:45	Prepared:	02/01/11 14:32	Analyzed:	02/02/11 07:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.17	114	75 - 120	
Dibromofluoromethane	30.00	30.94	103	85 - 115	
1,2-Dichloroethane-d4	30.00	31.08	104	70 - 120	
Toluene-d8	30.00	28.24	94.1	85 - 120	

ANALYSIS DATA SHEET

GW0003

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-03	File ID:	0119803.D
Sampled:	01/27/11 12:56	Prepared:	02/01/11 14:32	Analyzed:	02/02/11 08:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0003

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-03	File ID:	0119803.D
Sampled:	01/27/11 12:56	Prepared:	02/01/11 14:32	Analyzed:	02/02/11 08:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	33.33	111	75 - 120	
Dibromofluoromethane	30.00	30.47	102	85 - 115	
1,2-Dichloroethane-d4	30.00	31.71	106	70 - 120	
Toluene-d8	30.00	29.62	98.7	85 - 120	

ANALYSIS DATA SHEET

GW0004

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-05	File ID:	0119805.D
Sampled:	01/27/11 10:10	Prepared:	02/01/11 14:32	Analyzed:	02/02/11 08:53
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0004

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-05	File ID:	0119805.D
Sampled:	01/27/11 10:10	Prepared:	02/01/11 14:32	Analyzed:	02/02/11 08:53
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene	0.469	0.250	0.500	1.00	J
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.99	110	75 - 120	
Dibromofluoromethane	30.00	30.69	102	85 - 115	
1,2-Dichloroethane-d4	30.00	31.94	106	70 - 120	
Toluene-d8	30.00	29.10	97.0	85 - 120	

ANALYSIS DATA SHEET

GW8003-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101198-07	File ID:	0119807.D
Sampled:	01/27/11 08:00	Prepared:	02/01/11 14:32	Analyzed:	02/02/11 05:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8003-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101198-07	File ID:	0119807.D
Sampled:	01/27/11 08:00	Prepared:	02/01/11 14:32	Analyzed:	02/02/11 05:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	33.71	112	75 - 120	
Dibromofluoromethane	30.00	30.30	101	85 - 115	
1,2-Dichloroethane-d4	30.00	31.90	106	70 - 120	
Toluene-d8	30.00	30.33	101	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03303	Instrument:	MS-VOA4
		Calibration:	0288001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B03303-CCV1) ug/L				Lab File ID: 0201CC1E.D		Analyzed: 02/01/11 22:38		
Bromofluorobenzene	30.00	113	80 - 120	16.468	16.468	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	8.894	8.894	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	80 - 120	10.127	10.127	0.0000	+/-1.000	
Toluene-d8	30.00	96.4	80 - 120	14.15	14.15	0.0000	+/-1.000	
LCS (1B01012-BS1) ug/L				Lab File ID: 0201LS1E.D		Analyzed: 02/01/11 23:07		
Bromofluorobenzene	30.00	113	75 - 120	16.469	16.468	0.0010	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.886	8.894	-0.0080	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	10.138	10.127	0.0110	+/-1.000	
Toluene-d8	30.00	103	85 - 120	14.142	14.15	-0.0080	+/-1.000	
Blank (1B01012-BLK1) ug/L				Lab File ID: 0201BL1E.D		Analyzed: 02/02/11 00:34		
Bromofluorobenzene	30.00	117	75 - 120	16.472	16.468	0.0040	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	8.908	8.894	0.0140	+/-1.000	
1,2-Dichloroethane-d4	30.00	111	70 - 120	10.151	10.127	0.0240	+/-1.000	
Toluene-d8	30.00	96.0	85 - 120	14.145	14.15	-0.0050	+/-1.000	
GW8003-TB (1101198-07) ug/L				Lab File ID: 0119807.D		Analyzed: 02/02/11 05:55		
Bromofluorobenzene	30.00	112	75 - 120	16.457	16.468	-0.0110	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	8.864	8.894	-0.0300	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	10.107	10.127	-0.0200	+/-1.000	
Toluene-d8	30.00	101	85 - 120	14.13	14.15	-0.0200	+/-1.000	
GW0002 (1101198-01) ug/L				Lab File ID: 0119801.D		Analyzed: 02/02/11 07:54		
Bromofluorobenzene	30.00	114	75 - 120	16.456	16.468	-0.0120	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.833	8.894	-0.0610	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	10.076	10.127	-0.0510	+/-1.000	
Toluene-d8	30.00	94.1	85 - 120	14.129	14.15	-0.0210	+/-1.000	
GW0003 (1101198-03) ug/L				Lab File ID: 0119803.D		Analyzed: 02/02/11 08:23		
Bromofluorobenzene	30.00	111	75 - 120	16.456	16.468	-0.0120	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	8.903	8.894	0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	10.135	10.127	0.0080	+/-1.000	
Toluene-d8	30.00	98.7	85 - 120	14.139	14.15	-0.0110	+/-1.000	
GW0004 (1101198-05) ug/L				Lab File ID: 0119805.D		Analyzed: 02/02/11 08:53		
Bromofluorobenzene	30.00	110	75 - 120	16.453	16.468	-0.0150	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	8.83	8.894	-0.0640	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	10.062	10.127	-0.0650	+/-1.000	
Toluene-d8	30.00	97.0	85 - 120	14.115	14.15	-0.0350	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03303	Instrument:	MS-VOA4
		Calibration:	0288001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
LCS Dup (1B01012-BSD1) ug/L				Lab File ID: 0201LD1E.D		Analyzed: 02/02/11 09:23		
Bromofluorobenzene	30.00	113	75 - 120	16.452	16.468	-0.0160	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	8.82	8.894	-0.0740	+/-1.000	
1,2-Dichloroethane-d4	30.00	111	70 - 120	10.052	10.127	-0.0750	+/-1.000	
Toluene-d8	30.00	96.6	85 - 120	14.125	14.15	-0.0250	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03305	Instrument:	MS-VOA4
		Calibration:	0288001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B03305-CCV1) ug/L				Lab File ID: 0201CC1.D		Analyzed: 02/01/11 10:45		
Bromofluorobenzene	30.00	117	80 - 120	16.465	16.465	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	80 - 120	8.892	8.892	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	80 - 120	10.134	10.134	0.0000	+/-1.000	
Toluene-d8	30.00	102	80 - 120	14.148	14.148	0.0000	+/-1.000	
LCS (1B01007-BS1) ug/L				Lab File ID: 0201LS1.D		Analyzed: 02/01/11 11:14		
Bromofluorobenzene	30.00	115	75 - 120	16.466	16.465	0.0010	+/-1.000	
Dibromofluoromethane	30.00	99.7	85 - 115	8.872	8.892	-0.0200	+/-1.000	
1,2-Dichloroethane-d4	30.00	109	70 - 120	10.115	10.134	-0.0190	+/-1.000	
Toluene-d8	30.00	101	85 - 120	14.138	14.148	-0.0100	+/-1.000	
Blank (1B01007-BLK1) ug/L				Lab File ID: 0201BL1.D		Analyzed: 02/01/11 12:44		
Bromofluorobenzene	30.00	118	75 - 120	16.475	16.465	0.0100	+/-1.000	
Dibromofluoromethane	30.00	97.3	85 - 115	8.931	8.892	0.0390	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	10.174	10.134	0.0400	+/-1.000	
Toluene-d8	30.00	97.4	85 - 120	14.158	14.148	0.0100	+/-1.000	
GW8001-TB (1101162-02) ug/L				Lab File ID: 0116202.D		Analyzed: 02/01/11 13:14		
Bromofluorobenzene	30.00	113	75 - 120	16.471	16.465	0.0060	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	8.887	8.892	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	10.12	10.134	-0.0140	+/-1.000	
Toluene-d8	30.00	96.2	85 - 120	14.143	14.148	-0.0050	+/-1.000	
GW8002-TB (1101181-03) ug/L				Lab File ID: 0118103.D		Analyzed: 02/01/11 14:14		
Bromofluorobenzene	30.00	115	75 - 120	16.476	16.465	0.0110	+/-1.000	
Dibromofluoromethane	30.00	98.1	85 - 115	8.893	8.892	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	10.135	10.134	0.0010	+/-1.000	
Toluene-d8	30.00	96.6	85 - 120	14.149	14.148	0.0010	+/-1.000	
GW0001 (1101162-01) ug/L				Lab File ID: 0116201.D		Analyzed: 02/01/11 15:43		
Bromofluorobenzene	30.00	116	75 - 120	16.481	16.465	0.0160	+/-1.000	
Dibromofluoromethane	30.00	99.8	85 - 115	8.908	8.892	0.0160	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	70 - 120	10.16	10.134	0.0260	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	14.154	14.148	0.0060	+/-1.000	
GW0017 (1101181-01) ug/L				Lab File ID: 0118101.D		Analyzed: 02/01/11 16:12		
Bromofluorobenzene	30.00	114	75 - 120	16.481	16.465	0.0160	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	8.897	8.892	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	110	70 - 120	10.14	10.134	0.0060	+/-1.000	
Toluene-d8	30.00	98.7	85 - 120	14.153	14.148	0.0050	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03305	Instrument:	MS-VOA4
		Calibration:	0288001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0032 (1101181-02) ug/L				Lab File ID: 0118102.D		Analyzed: 02/01/11 16:42		
Bromofluorobenzene	30.00	119	75 - 120	16.476	16.465	0.0110	+/-1.000	
Dibromofluoromethane	30.00	99.5	85 - 115	8.932	8.892	0.0400	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	10.175	10.134	0.0410	+/-1.000	
Toluene-d8	30.00	95.7	85 - 120	14.158	14.148	0.0100	+/-1.000	
LCS Dup (1B01007-BSD1) ug/L				Lab File ID: 0201LSD1.D		Analyzed: 02/01/11 21:39		
Bromofluorobenzene	30.00	116	75 - 120	16.472	16.465	0.0070	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	8.889	8.892	-0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	10.142	10.134	0.0080	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.145	14.148	-0.0030	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B01007	Laboratory ID:	1B01007-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	94.3	94.3	40 - 140
Benzene	50.00	55.5	111	80 - 120
Bromobenzene	50.00	50.6	101	75 - 125
Bromochloromethane	50.00	52.4	105	65 - 130
Bromodichloromethane	50.00	56.6	113	75 - 120
Bromoform	50.00	61.8	124	70 - 130
Bromomethane	50.00	25.5	51.0	30 - 145
n-Butylbenzene	50.00	45.2	90.4	70 - 135
2-Butanone	100.0	110	110	30 - 150
sec-Butylbenzene	50.00	44.2	88.3	70 - 125
tert-Butylbenzene	50.00	46.0	92.1	70 - 130
Carbon disulfide	50.00	50.7	101	35 - 160
Carbon tetrachloride	50.00	47.8	95.6	65 - 140
Chlorobenzene	50.00	51.8	104	80 - 120
Chloroethane	50.00	53.6	107	60 - 135
Chloroform	50.00	50.0	99.9	65 - 135
Chloromethane	50.00	41.0	82.0	40 - 125
2-Chlorotoluene	50.00	46.5	93.1	75 - 125
4-Chlorotoluene	50.00	52.7	105	75 - 130
Dibromochloromethane	50.00	52.8	106	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.8	102	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.9	108	80 - 120
Dibromomethane	50.00	54.8	110	75 - 125
1,2-Dichlorobenzene	50.00	50.0	99.9	70 - 120
1,3-Dichlorobenzene	50.00	46.4	92.8	75 - 125
1,4-Dichlorobenzene	50.00	39.1	78.2	75 - 125
Dichlorodifluoromethane	50.00	48.2	96.3	30 - 155
1,1-Dichloroethane	50.00	53.5	107	70 - 135
1,2-Dichloroethane	50.00	51.4	103	70 - 130
1,1-Dichloroethene	50.00	58.8	118	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B01007	Laboratory ID:	1B01007-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	57.1	114	70 - 125
trans-1,2-Dichloroethene	50.00	58.3	117	60 - 140
1,2-Dichloropropane	50.00	52.5	105	75 - 125
1,3-Dichloropropane	50.00	49.7	99.3	75 - 125
2,2-Dichloropropane	50.00	54.1	108	70 - 135
1,1-Dichloropropene	50.00	52.2	104	75 - 130
cis-1,3-Dichloropropene	50.00	55.2	110	70 - 130
trans-1,3-Dichloropropene	50.00	59.3	119	55 - 140
Ethylbenzene	50.00	53.8	108	75 - 125
Hexachlorobutadiene	50.00	49.1	98.3	50 - 140
2-Hexanone	100.0	91.2	91.2	55 - 130
Isopropylbenzene	50.00	50.9	102	75 - 125
p-Isopropyltoluene	50.00	44.1	88.3	75 - 130
Methylene chloride	50.00	53.8	108	55 - 140
Naphthalene	50.00	48.1	96.2	55 - 140
4-Methyl-2-pentanone	100.0	104	104	60 - 135
Methyl t-Butyl Ether	100.0	112	112	65 - 125
n-Propylbenzene	50.00	48.1	96.2	70 - 130
Styrene	50.00	60.1	120	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.5	101	65 - 130
1,1,1,2-Tetrachloroethane	50.00	51.3	103	80 - 130
Tetrachloroethene	50.00	53.5	107	45 - 150
Toluene	50.00	51.0	102	75 - 120
1,2,3-Trichlorobenzene	50.00	53.8	108	55 - 140
1,2,4-Trichlorobenzene	50.00	53.7	107	65 - 135
1,1,2-Trichloroethane	50.00	50.8	102	75 - 125
1,1,1-Trichloroethane	50.00	50.8	102	65 - 130
Trichloroethene	50.00	53.7	107	70 - 125
Trichlorofluoromethane	50.00	48.7	97.4	60 - 145
1,2,3-Trichloropropane	50.00	50.9	102	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B01007	Laboratory ID:	1B01007-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	50.2	100	75 - 130
1,2,4-Trimethylbenzene	50.00	49.5	99.0	75 - 130
Vinyl chloride	50.00	37.1	74.2	50 - 145
m,p-Xylene	100.0	110	110	75 - 130
o-Xylene	50.00	55.2	110	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	89.2	89.2	5.52	30	40 - 140
Benzene	50.00	54.8	110	1.34	30	80 - 120
Bromobenzene	50.00	49.0	98.1	3.08	30	75 - 125
Bromochloromethane	50.00	54.3	109	3.53	30	65 - 130
Bromodichloromethane	50.00	55.6	111	1.72	30	75 - 120
Bromoform	50.00	62.7	125	1.58	30	70 - 130
Bromomethane	50.00	20.4	40.8	22.1	30	30 - 145
n-Butylbenzene	50.00	44.1	88.3	2.30	30	70 - 135
2-Butanone	100.0	113	113	3.24	30	30 - 150
sec-Butylbenzene	50.00	43.8	87.7	0.748	30	70 - 125
tert-Butylbenzene	50.00	45.3	90.6	1.57	30	70 - 130
Carbon disulfide	50.00	52.1	104	2.90	30	35 - 160
Carbon tetrachloride	50.00	50.1	100	4.61	30	65 - 140
Chlorobenzene	50.00	52.8	106	1.95	30	80 - 120
Chloroethane	50.00	48.7	97.5	9.49	30	60 - 135
Chloroform	50.00	48.9	97.9	2.09	30	65 - 135
Chloromethane	50.00	40.3	80.5	1.87	30	40 - 125
2-Chlorotoluene	50.00	46.1	92.2	0.980	30	75 - 125
4-Chlorotoluene	50.00	49.6	99.2	6.04	30	75 - 130
Dibromochloromethane	50.00	54.5	109	3.10	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	47.3	94.7	7.06	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.4	111	2.78	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B01007	Laboratory ID:	1B01007-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	54.2	108	1.13	30	75 - 125
1,2-Dichlorobenzene	50.00	47.6	95.2	4.88	30	70 - 120
1,3-Dichlorobenzene	50.00	51.8	104	10.9	30	75 - 125
1,4-Dichlorobenzene	50.00	42.0	83.9	7.01	30	75 - 125
Dichlorodifluoromethane	50.00	47.4	94.8	1.56	30	30 - 155
1,1-Dichloroethane	50.00	52.6	105	1.78	30	70 - 135
1,2-Dichloroethane	50.00	49.6	99.2	3.52	30	70 - 130
1,1-Dichloroethene	50.00	61.9	124	5.18	30	70 - 130
cis-1,2-Dichloroethene	50.00	56.8	114	0.575	30	70 - 125
trans-1,2-Dichloroethene	50.00	58.9	118	0.958	30	60 - 140
1,2-Dichloropropane	50.00	53.2	106	1.33	30	75 - 125
1,3-Dichloropropane	50.00	50.7	101	2.14	30	75 - 125
2,2-Dichloropropane	50.00	48.1	96.1	11.8	30	70 - 135
1,1-Dichloropropene	50.00	53.4	107	2.15	30	75 - 130
cis-1,3-Dichloropropene	50.00	53.4	107	3.22	30	70 - 130
trans-1,3-Dichloropropene	50.00	57.6	115	3.00	30	55 - 140
Ethylbenzene	50.00	57.7	115	6.95	30	75 - 125
Hexachlorobutadiene	50.00	43.6	87.3	11.9	30	50 - 140
2-Hexanone	100.0	85.5	85.5	6.50	30	55 - 130
Isopropylbenzene	50.00	51.7	103	1.64	30	75 - 125
p-Isopropyltoluene	50.00	44.9	89.8	1.75	30	75 - 130
Methylene chloride	50.00	53.2	106	1.21	30	55 - 140
Naphthalene	50.00	45.3	90.6	5.96	30	55 - 140
4-Methyl-2-pentanone	100.0	102	102	2.75	30	60 - 135
Methyl t-Butyl Ether	100.0	112	112	0.309	30	65 - 125
n-Propylbenzene	50.00	48.0	96.0	0.275	30	70 - 130
Styrene	50.00	62.8	126	4.39	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	46.7	93.5	7.78	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	54.6	109	6.23	30	80 - 130
Tetrachloroethene	50.00	57.3	115	6.86	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B01007	Laboratory ID:	1B01007-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	51.8	104	1.59	30	75 - 120
1,2,3-Trichlorobenzene	50.00	49.6	99.1	8.26	30	55 - 140
1,2,4-Trichlorobenzene	50.00	51.1	102	4.99	30	65 - 135
1,1,2-Trichloroethane	50.00	50.8	102	0.0588	30	75 - 125
1,1,1-Trichloroethane	50.00	52.4	105	3.03	30	65 - 130
Trichloroethene	50.00	54.1	108	0.857	30	70 - 125
Trichlorofluoromethane	50.00	52.2	104	6.94	30	60 - 145
1,2,3-Trichloropropane	50.00	52.0	104	2.14	30	75 - 125
1,3,5-Trimethylbenzene	50.00	47.2	94.5	6.09	30	75 - 130
1,2,4-Trimethylbenzene	50.00	47.8	95.6	3.59	30	75 - 130
Vinyl chloride	50.00	38.6	77.1	3.91	30	50 - 145
m,p-Xylene	100.0	110	110	0.342	30	75 - 130
o-Xylene	50.00	55.2	110	0.0105	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B01012	Laboratory ID:	1B01012-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	91.9	91.9	40 - 140
Benzene	50.00	56.2	112	80 - 120
Bromobenzene	50.00	50.6	101	75 - 125
Bromochloromethane	50.00	54.7	109	65 - 130
Bromodichloromethane	50.00	56.6	113	75 - 120
Bromoform	50.00	61.0	122	70 - 130
Bromomethane	50.00	27.2	54.5	30 - 145
n-Butylbenzene	50.00	42.3	84.7	70 - 135
2-Butanone	100.0	90.8	90.8	30 - 150
sec-Butylbenzene	50.00	45.9	91.8	70 - 125
tert-Butylbenzene	50.00	43.8	87.7	70 - 130
Carbon disulfide	50.00	52.9	106	35 - 160
Carbon tetrachloride	50.00	50.7	101	65 - 140
Chlorobenzene	50.00	50.8	102	80 - 120
Chloroethane	50.00	54.8	110	60 - 135
Chloroform	50.00	50.1	100	65 - 135
Chloromethane	50.00	38.2	76.4	40 - 125
2-Chlorotoluene	50.00	44.5	89.0	75 - 125
4-Chlorotoluene	50.00	49.7	99.4	75 - 130
Dibromochloromethane	50.00	54.2	108	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.5	90.9	50 - 130
1,2-Dibromoethane (EDB)	50.00	54.3	109	80 - 120
Dibromomethane	50.00	53.6	107	75 - 125
1,2-Dichlorobenzene	50.00	46.6	93.1	70 - 120
1,3-Dichlorobenzene	50.00	50.4	101	75 - 125
1,4-Dichlorobenzene	50.00	41.4	82.9	75 - 125
Dichlorodifluoromethane	50.00	49.7	99.3	30 - 155
1,1-Dichloroethane	50.00	52.8	106	70 - 135
1,2-Dichloroethane	50.00	50.9	102	70 - 130
1,1-Dichloroethene	50.00	61.7	123	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B01012	Laboratory ID:	1B01012-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	57.9	116	70 - 125
trans-1,2-Dichloroethene	50.00	58.2	116	60 - 140
1,2-Dichloropropane	50.00	53.3	107	75 - 125
1,3-Dichloropropane	50.00	50.2	100	75 - 125
2,2-Dichloropropane	50.00	47.9	95.7	70 - 135
1,1-Dichloropropene	50.00	56.2	112	75 - 130
cis-1,3-Dichloropropene	50.00	53.9	108	70 - 130
trans-1,3-Dichloropropene	50.00	57.2	114	55 - 140
Ethylbenzene	50.00	56.6	113	75 - 125
Hexachlorobutadiene	50.00	47.9	95.7	50 - 140
2-Hexanone	100.0	82.7	82.7	55 - 130
Isopropylbenzene	50.00	51.4	103	75 - 125
p-Isopropyltoluene	50.00	44.5	89.0	75 - 130
Methylene chloride	50.00	54.7	109	55 - 140
Naphthalene	50.00	43.1	86.2	55 - 140
4-Methyl-2-pentanone	100.0	95.5	95.5	60 - 135
Methyl t-Butyl Ether	100.0	112	112	65 - 125
n-Propylbenzene	50.00	46.8	93.6	70 - 130
Styrene	50.00	60.3	121	65 - 135
1,1,2,2-Tetrachloroethane	50.00	44.5	89.0	65 - 130
1,1,1,2-Tetrachloroethane	50.00	54.0	108	80 - 130
Tetrachloroethene	50.00	57.3	115	45 - 150
Toluene	50.00	50.6	101	75 - 120
1,2,3-Trichlorobenzene	50.00	48.9	97.8	55 - 140
1,2,4-Trichlorobenzene	50.00	48.4	96.8	65 - 135
1,1,2-Trichloroethane	50.00	50.5	101	75 - 125
1,1,1-Trichloroethane	50.00	52.3	105	65 - 130
Trichloroethene	50.00	54.2	108	70 - 125
Trichlorofluoromethane	50.00	52.8	106	60 - 145
1,2,3-Trichloropropane	50.00	50.1	100	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B01012	Laboratory ID:	1B01012-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	47.5	94.9	75 - 130
1,2,4-Trimethylbenzene	50.00	47.2	94.5	75 - 130
Vinyl chloride	50.00	36.3	72.7	50 - 145
m,p-Xylene	100.0	111	111	75 - 130
o-Xylene	50.00	53.8	108	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	90.3	90.3	1.76	30	40 - 140
Benzene	50.00	55.8	112	0.697	30	80 - 120
Bromobenzene	50.00	51.1	102	1.05	30	75 - 125
Bromochloromethane	50.00	54.6	109	0.202	30	65 - 130
Bromodichloromethane	50.00	57.4	115	1.30	30	75 - 120
Bromoform	50.00	58.4	117	4.33	30	70 - 130
Bromomethane	50.00	27.0	53.9	0.980	30	30 - 145
n-Butylbenzene	50.00	43.5	87.0	2.74	30	70 - 135
2-Butanone	100.0	90.7	90.7	0.119	30	30 - 150
sec-Butylbenzene	50.00	45.0	90.1	1.88	30	70 - 125
tert-Butylbenzene	50.00	45.8	91.5	4.29	30	70 - 130
Carbon disulfide	50.00	53.0	106	0.140	30	35 - 160
Carbon tetrachloride	50.00	51.9	104	2.23	30	65 - 140
Chlorobenzene	50.00	50.6	101	0.471	30	80 - 120
Chloroethane	50.00	54.3	109	0.841	30	60 - 135
Chloroform	50.00	50.7	101	1.18	30	65 - 135
Chloromethane	50.00	41.7	83.3	8.64	30	40 - 125
2-Chlorotoluene	50.00	48.8	97.6	9.21	30	75 - 125
4-Chlorotoluene	50.00	51.1	102	2.77	30	75 - 130
Dibromochloromethane	50.00	52.6	105	2.96	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	46.9	93.7	3.02	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.2	110	1.60	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B01012	Laboratory ID:	1B01012-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	54.3	109	1.29	30	75 - 125
1,2-Dichlorobenzene	50.00	49.6	99.2	6.32	30	70 - 120
1,3-Dichlorobenzene	50.00	44.1	88.3	13.3	30	75 - 125
1,4-Dichlorobenzene	50.00	40.7	81.5	1.70	30	75 - 125
Dichlorodifluoromethane	50.00	48.1	96.1	3.28	30	30 - 155
1,1-Dichloroethane	50.00	53.3	107	0.922	30	70 - 135
1,2-Dichloroethane	50.00	51.9	104	1.96	30	70 - 130
1,1-Dichloroethene	50.00	61.9	124	0.373	30	70 - 130
cis-1,2-Dichloroethene	50.00	55.7	111	3.97	30	70 - 125
trans-1,2-Dichloroethene	50.00	58.3	117	0.293	30	60 - 140
1,2-Dichloropropane	50.00	51.1	102	4.06	30	75 - 125
1,3-Dichloropropane	50.00	46.8	93.6	7.00	30	75 - 125
2,2-Dichloropropane	50.00	38.3	76.5	22.3	30	70 - 135
1,1-Dichloropropene	50.00	55.5	111	1.13	30	75 - 130
cis-1,3-Dichloropropene	50.00	53.0	106	1.72	30	70 - 130
trans-1,3-Dichloropropene	50.00	54.4	109	5.19	30	55 - 140
Ethylbenzene	50.00	52.0	104	8.48	30	75 - 125
Hexachlorobutadiene	50.00	44.7	89.3	6.91	30	50 - 140
2-Hexanone	100.0	80.9	80.9	2.28	30	55 - 130
Isopropylbenzene	50.00	49.7	99.3	3.51	30	75 - 125
p-Isopropyltoluene	50.00	44.5	89.1	0.0654	30	75 - 130
Methylene chloride	50.00	54.4	109	0.581	30	55 - 140
Naphthalene	50.00	46.2	92.3	6.83	30	55 - 140
4-Methyl-2-pentanone	100.0	99.9	99.9	4.50	30	60 - 135
Methyl t-Butyl Ether	100.0	111	111	0.796	30	65 - 125
n-Propylbenzene	50.00	45.9	91.9	1.89	30	70 - 130
Styrene	50.00	57.8	116	4.18	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	47.2	94.4	5.92	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	52.9	106	1.96	30	80 - 130
Tetrachloroethene	50.00	53.2	106	7.28	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B01012	Laboratory ID:	1B01012-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	48.7	97.4	3.91	30	75 - 120
1,2,3-Trichlorobenzene	50.00	50.0	100	2.24	30	55 - 140
1,2,4-Trichlorobenzene	50.00	50.4	101	3.99	30	65 - 135
1,1,2-Trichloroethane	50.00	47.5	95.1	6.08	30	75 - 125
1,1,1-Trichloroethane	50.00	54.0	108	3.32	30	65 - 130
Trichloroethene	50.00	55.3	111	2.01	30	70 - 125
Trichlorofluoromethane	50.00	52.9	106	0.182	30	60 - 145
1,2,3-Trichloropropane	50.00	52.8	106	5.23	30	75 - 125
1,3,5-Trimethylbenzene	50.00	47.3	94.6	0.369	30	75 - 130
1,2,4-Trimethylbenzene	50.00	47.6	95.2	0.703	30	75 - 130
Vinyl chloride	50.00	36.9	73.8	1.54	30	50 - 145
m,p-Xylene	100.0	103	103	7.74	30	75 - 130
o-Xylene	50.00	52.4	105	2.67	30	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B01007 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	02/01/11 00:00	5.00	5.00
GW8001-TB	1101162-02	02/01/11 00:00	5.00	5.00
GW0017	1101181-01	02/01/11 00:00	5.00	5.00
GW0032	1101181-02	02/01/11 00:00	5.00	5.00
GW8002-TB	1101181-03	02/01/11 00:00	5.00	5.00
Blank	1B01007-BLK1	02/01/11 00:00	5.00	5.00
LCS	1B01007-BS1	02/01/11 00:00	5.00	5.00
LCS Dup	1B01007-BSD1	02/01/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B01012 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0002	1101198-01	02/01/11 14:32	5.00	5.00
GW0003	1101198-03	02/01/11 14:32	5.00	5.00
GW0004	1101198-05	02/01/11 14:32	5.00	5.00
GW8003-TB	1101198-07	02/01/11 14:32	5.00	5.00
Blank	1B01012-BLK1	02/01/11 14:32	5.00	5.00
LCS	1B01012-BS1	02/01/11 14:32	5.00	5.00
LCS Dup	1B01012-BSD1	02/01/11 14:32	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/12/10
Instrument ID:	MS-VOA4	Injection Time:	07:37
Sequence:	0J28708	Lab Sample ID:	0J28708-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.9	PASS
75	30 - 60% of 95	48.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.11	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	69.7	PASS
175	5 - 9% of 174	7.95	PASS
176	95 - 101% of 174	95	PASS
177	5 - 9% of 176	6.78	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0201TU1E.D	Injection Date:	02/01/11
Instrument ID:	MS-VOA4	Injection Time:	22:08
Sequence:	1B03303	Lab Sample ID:	1B03303-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.3	PASS
75	30 - 60% of 95	44	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	8.54	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	59	PASS
175	5 - 9% of 174	8.12	PASS
176	95 - 101% of 174	97.5	PASS
177	5 - 9% of 176	6.63	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0201TU1.D	Injection Date:	02/01/11
Instrument ID:	MS-VOA4	Injection Time:	10:15
Sequence:	1B03305	Lab Sample ID:	1B03305-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	15.4	PASS
75	30 - 60% of 95	39.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.99	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	96.7	PASS
175	5 - 9% of 174	8.07	PASS
176	95 - 101% of 174	101	PASS
177	5 - 9% of 176	6.47	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0J28708	Instrument:	MS-VOA4
Calibration:	0288001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0J28708-TUN1	SEQ-TUN1.D	10/12/10 07:37
Cal Standard	0J28708-CAL1	SEQ-CAL1.D	10/12/10 08:07
Cal Standard	0J28708-CAL2	SEQ-CAL2.D	10/12/10 08:37
Cal Standard	0J28708-CAL3	SEQ-CAL3.D	10/12/10 09:07
Cal Standard	0J28708-CAL4	SEQ-CAL4.D	10/12/10 09:36
Cal Standard	0J28708-CAL5	SEQ-CAL5.D	10/12/10 10:06
Cal Standard	0J28708-CAL6	SEQ-CAL6.D	10/12/10 10:36
Cal Standard	0J28708-CAL7	SEQ-CAL7.D	10/12/10 11:05
Cal Standard	0J28708-CAL8	SEQ-CAL8.D	10/12/10 11:35
Cal Standard	0J28708-CAL9	SEQ-CAL9.D	10/12/10 12:04
Initial Cal Check	0J28708-ICV1	SEQ-ICV1.D	10/12/10 12:34
Initial Cal Check	0J28708-ICV2	SEQ-ICV2.D	10/12/10 13:04
Cal Standard	0J28708-CALA	SEQ-CALA.D	10/12/10 13:34
Cal Standard	0J28708-CALB	SEQ-CALB.D	10/12/10 14:03
Cal Standard	0J28708-CALC	SEQ-CALC.D	10/12/10 14:33
Cal Standard	0J28708-CALD	SEQ-CALD.D	10/12/10 15:03
Cal Standard	0J28708-CALE	SEQ-CALE.D	10/12/10 15:33
Cal Standard	0J28708-CALF	SEQ-CALF.D	10/12/10 16:02
Cal Standard	0J28708-CALG	SEQ-CALG.D	10/12/10 16:32
Cal Standard	0J28708-CALH	SEQ-CALH.D	10/12/10 17:02
Cal Standard	0J28708-CALI	SEQ-CALI.D	10/12/10 17:32
Initial Cal Check	0J28708-ICV3	SEQ-ICV3.D	10/12/10 18:01

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03303	Instrument:	MS-VOA4
Calibration:	0288001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03303-TUN1	0201TU1E.D	02/01/11 22:08
Calibration Check	1B03303-CCV1	0201CC1E.D	02/01/11 22:38
LCS	1B01012-BS1	0201LS1E.D	02/01/11 23:07
Blank	1B01012-BLK1	0201BL1E.D	02/02/11 00:34
GW8003-TB	1101198-07	0119807.D	02/02/11 05:55
GW0002	1101198-01	0119801.D	02/02/11 07:54
GW0003	1101198-03	0119803.D	02/02/11 08:23
GW0004	1101198-05	0119805.D	02/02/11 08:53
LCS Dup	1B01012-BSD1	0201LD1E.D	02/02/11 09:23

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03305	Instrument:	MS-VOA4
Calibration:	0288001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03305-TUN1	0201TU1.D	02/01/11 10:15
Calibration Check	1B03305-CCV1	0201CC1.D	02/01/11 10:45
LCS	1B01007-BS1	0201LS1.D	02/01/11 11:14
Blank	1B01007-BLK1	0201BL1.D	02/01/11 12:44
GW8001-TB	1101162-02	0116202.D	02/01/11 13:14
GW8002-TB	1101181-03	0118103.D	02/01/11 14:14
GW0001	1101162-01	0116201.D	02/01/11 15:43
GW0017	1101181-01	0118101.D	02/01/11 16:12
GW0032	1101181-02	0118102.D	02/01/11 16:42
LCS Dup	1B01007-BSD1	0201LSD1.D	02/01/11 21:39

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03303	Instrument:	MS-VOA4
		Calibration:	0288001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B03303-CCV1)			Lab File ID: 0201CC1E.D			Analyzed: 02/01/11 22:38			
Fluorobenzene	2094997	11.794	1192036	11.87	176	50 - 200	-0.0760	+/-0.50	
Chlorobenzene-d5	874999	15.511	495309	15.559	177	50 - 200	-0.0480	+/-0.50	
1,4-Dichlorobenzene-d4	1081292	17.405	531452	17.463	203	50 - 200	-0.0580	+/-0.50	
LCS (1B01012-BS1)			Lab File ID: 0201LS1E.D			Analyzed: 02/01/11 23:07			
Fluorobenzene	2139572	11.785	2094997	11.794	102	50 - 200	-0.0090	+/-0.50	
Chlorobenzene-d5	853719	15.502	874999	15.511	98	50 - 200	-0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	1132020	17.406	1081292	17.405	105	50 - 200	0.0010	+/-0.50	
Blank (1B01012-BLK1)			Lab File ID: 0201BL1E.D			Analyzed: 02/02/11 00:34			
Fluorobenzene	2152791	11.798	2094997	11.794	103	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	902653	15.506	874999	15.511	103	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	1220235	17.399	1081292	17.405	113	50 - 200	-0.0060	+/-0.50	
GW8003-TB (1101198-07)			Lab File ID: 0119807.D			Analyzed: 02/02/11 05:55			
Fluorobenzene	2354732	11.773	2094997	11.794	112	50 - 200	-0.0210	+/-0.50	
Chlorobenzene-d5	929462	15.501	874999	15.511	106	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	1222914	17.394	1081292	17.405	113	50 - 200	-0.0110	+/-0.50	
GW0002 (1101198-01)			Lab File ID: 0119801.D			Analyzed: 02/02/11 07:54			
Fluorobenzene	2201291	11.752	2094997	11.794	105	50 - 200	-0.0420	+/-0.50	
Chlorobenzene-d5	897622	15.49	874999	15.511	103	50 - 200	-0.0210	+/-0.50	
1,4-Dichlorobenzene-d4	1161518	17.383	1081292	17.405	107	50 - 200	-0.0220	+/-0.50	
GW0003 (1101198-03)			Lab File ID: 0119803.D			Analyzed: 02/02/11 08:23			
Fluorobenzene	2313289	11.782	2094997	11.794	110	50 - 200	-0.0120	+/-0.50	
Chlorobenzene-d5	948653	15.49	874999	15.511	108	50 - 200	-0.0210	+/-0.50	
1,4-Dichlorobenzene-d4	1288918	17.383	1081292	17.405	119	50 - 200	-0.0220	+/-0.50	
GW0004 (1101198-05)			Lab File ID: 0119805.D			Analyzed: 02/02/11 08:53			
Fluorobenzene	2239467	11.749	2094997	11.794	107	50 - 200	-0.0450	+/-0.50	
Chlorobenzene-d5	951107	15.486	874999	15.511	109	50 - 200	-0.0250	+/-0.50	
1,4-Dichlorobenzene-d4	1223065	17.379	1081292	17.405	113	50 - 200	-0.0260	+/-0.50	
LCS Dup (1B01012-BSD1)			Lab File ID: 0201LD1E.D			Analyzed: 02/02/11 09:23			
Fluorobenzene	2220589	11.748	2094997	11.794	106	50 - 200	-0.0460	+/-0.50	
Chlorobenzene-d5	934156	15.486	874999	15.511	107	50 - 200	-0.0250	+/-0.50	
1,4-Dichlorobenzene-d4	1168143	17.379	1081292	17.405	108	50 - 200	-0.0260	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03305	Instrument:	MS-VOA4
		Calibration:	0288001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B03305-CCV1)			Lab File ID: 0201CC1.D			Analyzed: 02/01/11 10:45			
Fluorobenzene	1875677	11.781	1192036	11.87	157	50 - 200	-0.0890	+/-0.50	
Chlorobenzene-d5	776493	15.509	495309	15.559	157	50 - 200	-0.0500	+/-0.50	
1,4-Dichlorobenzene-d4	983367	17.402	531452	17.463	185	50 - 200	-0.0610	+/-0.50	
LCS (1B01007-BS1)			Lab File ID: 0201LS1.D			Analyzed: 02/01/11 11:14			
Fluorobenzene	1948633	11.781	1875677	11.781	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	794572	15.509	776493	15.509	102	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	986715	17.402	983367	17.402	100	50 - 200	0.0000	+/-0.50	
Blank (1B01007-BLK1)			Lab File ID: 0201BL1.D			Analyzed: 02/01/11 12:44			
Fluorobenzene	2057975	11.801	1875677	11.781	110	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	839528	15.509	776493	15.509	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1081440	17.402	983367	17.402	110	50 - 200	0.0000	+/-0.50	
GW8001-TB (1101162-02)			Lab File ID: 0116202.D			Analyzed: 02/01/11 13:14			
Fluorobenzene	1975629	11.786	1875677	11.781	105	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	806218	15.514	776493	15.509	104	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	1053792	17.407	983367	17.402	107	50 - 200	0.0050	+/-0.50	
GW8002-TB (1101181-03)			Lab File ID: 0118103.D			Analyzed: 02/01/11 14:14			
Fluorobenzene	2111162	11.792	1875677	11.781	113	50 - 200	0.0110	+/-0.50	
Chlorobenzene-d5	836321	15.51	776493	15.509	108	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	1067233	17.403	983367	17.402	109	50 - 200	0.0010	+/-0.50	
GW0001 (1101162-01)			Lab File ID: 0116201.D			Analyzed: 02/01/11 15:43			
Fluorobenzene	1996078	11.797	1875677	11.781	106	50 - 200	0.0160	+/-0.50	
Chlorobenzene-d5	807330	15.515	776493	15.509	104	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	1053475	17.408	983367	17.402	107	50 - 200	0.0060	+/-0.50	
GW0017 (1101181-01)			Lab File ID: 0118101.D			Analyzed: 02/01/11 16:12			
Fluorobenzene	2017731	11.797	1875677	11.781	108	50 - 200	0.0160	+/-0.50	
Chlorobenzene-d5	827468	15.514	776493	15.509	107	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	1109070	17.408	983367	17.402	113	50 - 200	0.0060	+/-0.50	
GW0032 (1101181-02)			Lab File ID: 0118102.D			Analyzed: 02/01/11 16:42			
Fluorobenzene	1990375	11.811	1875677	11.781	106	50 - 200	0.0300	+/-0.50	
Chlorobenzene-d5	852182	15.519	776493	15.509	110	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	1147385	17.413	983367	17.402	117	50 - 200	0.0110	+/-0.50	
LCS Dup (1B01007-BSD1)			Lab File ID: 0201LSD1.D			Analyzed: 02/01/11 21:39			
Fluorobenzene	2102928	11.788	1875677	11.781	112	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	834208	15.516	776493	15.509	107	50 - 200	0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	1119990	17.409	983367	17.402	114	50 - 200	0.0070	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0288001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	10/12/2010 8:07:20AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	2.501	1.412946E-02	5.002	1.441223E-02	10	1.407834E-02	25.01	8.427801E-03	50.02	9.960844E-03	250.1	1.052963E-02
Acrylonitrile	2.499	7.962943E-02	4.998	7.211377E-02	9.996	7.335069E-02	24.99	6.265471E-02	49.98	7.664716E-02	249.9	8.375573E-02
Benzene	0.5	0.8663938	1	0.8493266	2	0.8120398	5	0.6829858	10	0.8278064	50	0.8911715
Bromobenzene	0.5	0.6508207	1	0.6715932	2	0.6550849	5	0.500067	10	0.6198996	50	0.6812059
Bromochloromethane	0.5	~~0.1472751~~	1	8.094003E-02	2	0.1435179	5	0.1207151	10	0.1486285	50	0.1571637
Tert-Amyl Methyl Ether	0.5	1.252534	1	0.9352227	2	0.7439205	5	0.5454518	10	0.6242929	50	0.6612554
Bromodichloromethane	0.5	0.3135584	1	0.3120022	2	0.3208515	5	0.2552052	10	0.3131402	50	0.3326161
Bromoform	0.5	0.4721784	1	0.4702228	2	0.5043629	5	0.399788	10	0.4949715	50	0.6102042
Bromomethane	0.5	0.1955426	1	0.2365998	2	0.2000572	5	0.1583927	10	0.1679393	50	0.1688435
Bromofluorobenzene	30	0.8940262	30	0.8994585	30	0.9129539	30	0.8563392	30	0.9015264	30	0.922211
n-Butylbenzene	0.5	1.288104	1	1.24636	2	1.2678	5	0.9988382	10	1.245392	50	1.318479
2-Butanone												
sec-Butylbenzene	0.5	1.68057	1	1.789989	2	1.760537	5	1.406333	10	1.684889	50	1.792478
tert-Butylbenzene	0.5	1.083394	1	1.214527	2	1.174549	5	0.9386109	10	1.154258	50	1.246904
Carbon disulfide	0.5	0.7779979	1	0.7528105	2	0.7449989	5	0.5952277	10	0.7062583	50	0.745017
Carbon tetrachloride	0.5	0.3102616	1	0.3012051	2	0.3074741	5	0.2451964	10	0.2946628	50	0.3055855
Chlorobenzene	0.5	1.799341	1	1.698751	2	1.653326	5	1.298728	10	1.559115	50	1.661159
Chloroethane	0.5	0.161029	1	0.1622088	2	0.1621717	5	0.1383183	10	0.1637146	50	0.17084
Chloroform	0.5	0.543357	1	0.4975751	2	0.4646903	5	0.3552473	10	0.4135412	50	0.4320186
2-Chloroethyl vinyl ether	0.9975	0.12518	1.995	0.1442371	3.99	0.1537942	9.975	0.1271362	19.95	0.1591284	99.75	0.1649957
Chloromethane	0.5	~~0.2867718~~	1	0.2426936	2	0.2181975	5	0.1758721	10	0.2023883	50	0.2045448
1-Chlorohexane	0.501	0.9366729	1.002	0.850798	2.004	0.7852274	5.01	0.6094385	10.02	0.7000652	50.1	0.7810724
2-Chlorotoluene	0.5	1.462955	1	1.521048	2	1.328049	5	1.139665	10	1.305298	50	1.358956
4-Chlorotoluene	0.5	1.518371	1	1.209537	2	1.305761	5	1.073703	10	1.352127	50	1.413432
Cyclohexane	0.5	0.2956835	1	0.3042647	2	0.2940839	5	0.2434474	10	0.2978457	50	0.3069402
Dibromochloromethane	0.5	0.7283971	1	0.6976602	2	0.7266762	5	0.5734934	10	0.7258753	50	0.7931365
1,2-Dibromo-3-chloropropane	0.5	0.1166518	1	9.404706E-02	2	0.1125382	5	9.064097E-02	10	0.1233731	50	0.1366668
1,2-Dibromoethane (EDB)	0.5	0.5777372	1	0.5879823	2	0.6434094	5	0.4929672	10	0.6038118	50	0.6726026
Dibromomethane	0.5	0.1926064	1	0.1765206	2	0.17786	5	0.1459642	10	0.1719974	50	0.1803686
1,2-Dichlorobenzene	0.5	1.029876	1	0.9819043	2	0.994567	5	0.8220074	10	0.9663019	50	1.072504

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0288001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	10/12/2010 8:07:20AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.106294	1	1.034391	2	1.266177	5	0.843003	10	0.9645706	50	1.061458
1,4-Dichlorobenzene	0.5	1.546205	1	1.333144	2	1.152965	5	1.011388	10	1.294182	50	1.347914
Dichlorodifluoromethane	0.5	0.2042998	1	0.2055993	2	0.1839966	5	0.1693096	10	0.1882972	50	0.1953304
1,1-Dichloroethane	0.5	0.4227656	1	0.438128	2	0.4434817	5	0.3451405	10	0.4196204	50	0.4286285
1,2-Dichloroethane	0.5	0.3068103	1	0.3104597	2	0.3120317	5	0.250402	10	0.2975097	50	0.2996612
1,1-Dichloroethene	0.5	0.1934306	1	0.2117943	2	0.2024707	5	0.1652493	10	0.197377	50	0.214604
cis-1,2-Dichloroethene	0.5	0.2447888	1	0.2632511	2	0.2570073	5	0.2042684	10	0.2420465	50	0.2636648
trans-1,2-Dichloroethene	0.5	0.2431919	1	0.2416569	2	0.2401123	5	0.1902405	10	0.2262702	50	0.247374
1,2-Dichloroethene (total)	1	0.2439904	2	0.252454	4	0.2485598	10	0.1972544	20	0.2341584	100	0.2555194
1,2-Dichloropropane	0.5	0.2229989	1	0.2451464	2	0.2356831	5	0.1953533	10	0.2290962	50	0.2520472
1,3-Dichloropropane	0.5	0.9696743	1	0.8988156	2	0.9520708	5	0.7410139	10	0.8507612	50	0.9591824
2,2-Dichloropropane	0.5	0.3457024	1	0.3139492	2	0.182456	5	0.2530848	10	0.292626	50	0.2949825
1,1-Dichloropropene	0.5	0.289708	1	0.2857555	2	0.2857134	5	0.239645	10	0.2890082	50	0.3168858
cis-1,3-Dichloropropene	0.5	0.3332878	1	0.3338997	2	0.3663115	5	0.2810528	10	0.3669598	50	0.3678071
trans-1,3-Dichloropropene	0.5	0.6827426	1	0.7422105	2	0.7814754	5	0.6184998	10	0.7933239	50	0.8427077
Diisopropyl Ether	0.5	0.8364134	1	0.803357	2	0.8065579	5	0.6735341	10	0.8154422	50	0.8869738
Ethylbenzene	0.5	2.258654	1	2.251895	2	2.291973	5	1.834074	10	2.317122	50	2.576223
Ethyl tert-Butyl Ether	0.5	0.6836779	1	0.6144969	2	0.6306365	5	0.5230556	10	0.6428041	50	0.6702955
Ethyl Methacrylate	0.5	0.5156194	1	0.5539584	2	0.613121	5	0.4848553	10	0.672593	50	0.7749705
Hexachlorobutadiene	0.5	0.3145296	1	0.2711511	2	0.2799066	5	0.20019	10	0.232725	50	0.2576563
2-Hexanone												
Iodomethane	0.5	0.179213	1	0.1950804	2	0.2066688	5	0.1878054	10	0.2572811	50	0.3775753
Isopropylbenzene	0.5	1.760743	1	1.739566	2	1.802842	5	1.294403	10	1.763818	50	2.035985
p-Isopropyltoluene	0.5	1.657164	1	1.599495	2	1.535797	5	1.213365	10	1.432579	50	1.4748
Methylene chloride	0.5	0.3138675	1	0.2846176	2	0.280116	5	0.2121981	10	0.2645089	50	0.2816165
Methyl Acetate	0.5	~~0.2909958~~	1	0.2025903	2	0.2252713	5	0.14842	10	0.1968665	50	0.2100143
Methylcyclohexane	0.5	0.2677636	1	0.2696231	2	0.2545038	5	0.2103098	10	0.2447241	50	0.2722632
Naphthalene	0.5	1.138936	1	1.162293	2	1.160496	5	0.9830856	10	1.229159	50	1.47222
Methyl Methacrylate	0.5	0.1879187	1	0.1712105	2	0.1571263	5	0.1329372	10	0.176881	50	0.2036059
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.5422752	1	0.5664538	2	0.5445181	5	0.465092	10	0.5483781	50	0.6026832

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0288001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	10/12/2010 8:07:20AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	2.091761	1	2.130933	2	2.115204	5	1.672905	10	2.094096	50	2.19181
Styrene	0.5	1.223956	1	1.319599	2	1.432693	5	1.098706	10	1.459445	50	1.728877
1,1,2,2-Tetrachloroethane	0.5	0.5793367	1	0.5877151	2	0.6060714	5	0.4743084	10	0.5755237	50	0.5975366
1,1,1,2-Tetrachloroethane	0.5	0.5917103	1	0.6119552	2	0.6235206	5	0.4884935	10	0.5883882	50	0.6564152
tert-Butyl alcohol	2.5	1.952335E-02	5	1.843339E-02	10	1.746504E-02	25	1.516393E-02	50	1.873621E-02	250	1.950131E-02
Tetrachloroethene	0.5	0.7166376	1	0.6844853	2	0.6984887	5	0.5448322	10	0.6410487	50	0.7227585
Toluene	0.5	1.610775	1	1.500448	2	1.428001	5	1.10791	10	1.315166	50	1.42715
1,2,3-Trichlorobenzene	0.5	0.509877	1	0.5209537	2	0.5265355	5	0.4213875	10	0.5125138	50	0.5639383
1,2,4-Trichlorobenzene	0.5	0.6293122	1	0.5730617	2	0.5917133	5	0.471501	10	0.5443709	50	0.6135307
1,1,2-Trichloroethane	0.5	0.4842146	1	0.5155202	2	0.5138871	5	0.3794813	10	0.4489397	50	0.4948336
1,1,1-Trichloroethane	0.5	0.3221096	1	0.326491	2	0.3286956	5	0.2604882	10	0.3170653	50	0.3269041
Tetrahydrofuran	0.5		1		2	6.471721E-02	5	2.733347E-02	10	5.549965E-02	50	6.172387E-02
Trichloroethene	0.5	0.2429344	1	0.2566262	2	0.2428596	5	0.2036596	10	0.2418381	50	0.2570502
Trichlorofluoromethane	0.5	0.3829977	1	0.3702608	2	0.3660932	5	0.3019682	10	0.3578722	50	0.3797855
1,2,3-Trichloropropane	0.5	0.1941009	1	0.1621739	2	0.1782288	5	0.138172	10	0.1725645	50	0.1992938
1,3,5-Trimethylbenzene	0.5	1.388308	1	1.395674	2	1.425647	5	1.151866	10	1.42951	50	1.496468
1,2,4-Trimethylbenzene	0.5	1.474342	1	1.473741	2	1.466487	5	1.165051	10	1.458697	50	1.513795
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2458706	1	0.2580927	2	0.2389697	5	0.1886618	10	0.2244886	50	0.2373971
Vinyl chloride	0.5	0.2278926	1	0.2187479	2	0.2113548	5	0.1792256	10	0.2115462	50	0.1924198
m,p-Xylene	1	1.702222	2	1.753353	4	1.828228	10	1.412349	20	1.792472	100	1.859104
o-Xylene	0.5	1.75175	1	1.741128	2	1.905787	5	1.501674	10	1.837978	50	1.997631
Vinyl acetate	0.9995	0.3636562	1.999	0.3901915	3.998	0.4283671	9.995	0.3737494	19.99	0.5034472	99.95	0.5730269
Xylenes (total)	1.5	1.718731	3	1.749278	6	1.854081	15	1.442124	30	1.807641	150	1.90528
Dibromofluoromethane	30	0.3203324	30	0.3170897	30	0.3170232	30	0.3244374	30	0.3266209	30	0.3178
1,2-Dichloroethane-d4	30	6.141786E-02	30	6.121284E-02	30	6.330586E-02	30	6.135154E-02	30	6.230557E-02	30	5.898255E-02
Toluene-d8	30	2.42066	30	2.376095	30	2.398705	30	2.309874	30	2.345115	30	2.318193
tert-Amyl alcohol	2.5		5		10	7.720874E-03	25	7.014454E-03	50	9.509538E-03	250	1.206574E-02
tert-Amyl ethyl ether	0.5	0.4555792	1	0.5044276	2	0.5131288	5	0.4202688	10	0.5125513	50	0.5584533

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0288001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	10/12/2010 8:07:20AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone					0		1	~~0.1284676~~	2	9.841055E-02	4	8.954198E-02
Acrolein	500.2	9.997232E-03	750.3	~~9.84147E-03~~	1000	~~4.861615E-03~~						
Acrylonitrile	499.8	8.140551E-02	749.7	8.329047E-02	999.6	8.192118E-02						
Benzene	100	0.8604626	150	0.8800303	200	0.8523306						
Bromobenzene	100	0.6916205	150	0.6791454	200	0.6909689						
Bromochloromethane	100	0.1522489	150	0.1646475	200	0.1596388						
Tert-Amyl Methyl Ether	100	0.6429733	150	0.650493	200	0.6446984						
Bromodichloromethane	100	0.3164541	150	0.3274641	200	0.3192836						
Bromoform	100	0.566909	150	0.5896204	200	0.5806351						
Bromomethane	100	0.1620462	150	0.1744585	200	0.1639072						
Bromofluorobenzene	30	0.8727695	30	0.849014	30	0.8420522						
n-Butylbenzene	100	1.287475	150	1.232463	200	1.253293						
2-Butanone					0		1		2	9.278396E-02	4	0.1092255
sec-Butylbenzene	100	1.715677	150	1.683872	200	1.658965						
tert-Butylbenzene	100	1.245688	150	1.183863	200	1.214505						
Carbon disulfide	100	0.7309241	150	0.7640824	200	0.7341499						
Carbon tetrachloride	100	0.2952814	150	0.3052986	200	0.2917425						
Chlorobenzene	100	1.459234	150	1.439407	200	1.325191						
Chloroethane	100	0.1660804	150	0.1704094	200	0.1643978						
Chloroform	100	0.4097539	150	0.4378816	200	0.4208143						
2-Chloroethyl vinyl ether	199.5	0.1586935	299.2	0.1605874	399	0.1428974						
Chloromethane	100	0.1959002	150	0.1981512	200	0.1992511						
1-Chlorohexane	100.2	0.7171108	150.3	0.6967219	200.4	0.6562715						
2-Chlorotoluene	100	1.356907	150	1.28001	200	1.266874						
4-Chlorotoluene	100	1.31835	150	1.3024	200	1.324946						
Cyclohexane	100	0.2960186	150	0.3104725	200	0.3008572						
Dibromochloromethane	100	0.7234668	150	0.7359187	200	0.733477						
1,2-Dibromo-3-chloropropane	100	0.150466	150	0.1530446	200	0.1604784						
1,2-Dibromoethane (EDB)	100	0.6269918	150	0.6236281	200	0.6176417						
Dibromomethane	100	0.1749916	150	0.1861659	200	0.1776577						
1,2-Dichlorobenzene	100	1.071443	150	1.046093	200	1.09277						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0288001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	10/12/2010 8:07:20AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.082704	150	1.195233	200	1.226457						
1,4-Dichlorobenzene	100	1.165738	150	1.095014	200	~~0.923675~~						
Dichlorodifluoromethane	100	0.1826113	150	0.1881635	200	0.1846034						
1,1-Dichloroethane	100	0.4092594	150	0.4351825	200	0.4273268						
1,2-Dichloroethane	100	0.2798176	150	0.290434	200	0.2814933						
1,1-Dichloroethene	100	0.2124656	150	0.2244161	200	0.2207702						
cis-1,2-Dichloroethene	100	0.2649797	150	0.2714251	200	0.2743936						
trans-1,2-Dichloroethene	100	0.2401423	150	0.2564522	200	0.2529148						
1,2-Dichloroethene (total)	200	0.252561	300	0.2639387	400	0.2636541						
1,2-Dichloropropane	100	0.2393926	150	0.246656	200	0.2281315						
1,3-Dichloropropane	100	0.8401089	150	0.8264996	200	0.8204412						
2,2-Dichloropropane	100	0.2897051	150	0.3034947	200	0.2886789						
1,1-Dichloropropene	100	0.2966167	150	0.3194873	200	0.3073971						
cis-1,3-Dichloropropene	100	0.367341	150	0.3675411	200	0.3688464						
trans-1,3-Dichloropropene	100	0.7547882	150	0.7631527	200	0.7356353						
Diisopropyl Ether	100	0.8494535	150	0.8824937	200	0.8626888						
Ethylbenzene	100	2.205012	150	2.147772	200	2.006424						
Ethyl tert-Butyl Ether	100	0.6599666	150	0.7092802	200	0.6625367						
Ethyl Methacrylate	100	0.7099228	150	0.7069222	200	0.6838055						
Hexachlorobutadiene	100	0.2697621	150	0.2663584	200	0.2831917						
2-Hexanone					0		1		2	0.2024368	4	0.3182894
Iodomethane	100	0.4058221	150	0.4413349	200	0.4302355						
Isopropylbenzene	100	1.807646	150	1.766031	200	~~1.627067~~						
p-Isopropyltoluene	100	1.345336	150	1.263363	200	1.172225						
Methylene chloride	100	0.2738967	150	0.2818584	200	0.2798026						
Methyl Acetate	100	0.2031859	150	0.2119823	200	0.2133054						
Methylcyclohexane	100	0.2636258	150	0.2710371	200	0.2449361						
Naphthalene	100	1.498515	150	1.463061	200	1.536576						
Methyl Methacrylate	100	0.1913049	150	0.2092806	200	0.1993244						
4-Methyl-2-pentanone					0		1	0.2160097	2	0.200897	4	0.1919886
Methyl t-Butyl Ether	100	0.5913634	150	0.6390476	200	0.6076928						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0288001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	10/12/2010 8:07:20AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.107769	150	1.945428	200	1.895355						
Styrene	100	1.467043	150	1.493951	200	1.362095						
1,1,2,2-Tetrachloroethane	100	0.5911781	150	0.5760202	200	0.5543792						
1,1,1,2-Tetrachloroethane	100	0.5994237	150	0.5870914	200	0.5604556						
tert-Butyl alcohol	500	1.910569E-02	750	2.039113E-02	1000	2.018491E-02						
Tetrachloroethene	100	0.6847907	150	0.6915765	200	0.6686829						
Toluene	100	1.213554	150	1.230378	200	1.159675						
1,2,3-Trichlorobenzene	100	0.5959035	150	0.5937985	200	0.6298415						
1,2,4-Trichlorobenzene	100	0.6542648	150	0.651805	200	0.6753726						
1,1,2-Trichloroethane	100	0.4573434	150	0.454846	200	0.4548685						
1,1,1-Trichloroethane	100	0.3179136	150	0.3336996	200	0.321798						
Tetrahydrofuran	100	5.882297E-02	150	6.464262E-02	200	6.602355E-02						
Trichloroethene	100	0.2531206	150	0.2593533	200	0.2271436						
Trichlorofluoromethane	100	0.3601888	150	0.3597074	200	0.3506244						
1,2,3-Trichloropropane	100	0.1773627	150	0.1907041	200	0.1842886						
1,3,5-Trimethylbenzene	100	1.444226	150	1.375321	200	1.379256						
1,2,4-Trimethylbenzene	100	1.534865	150	1.406387	200	1.422551						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2352261	150	0.2455964	200	0.2358475						
Vinyl chloride	100	0.1690101	150	0.150475	200	0.1290975						
m,p-Xylene	200	1.551678	300	1.421052	400	1.284514						
o-Xylene	100	1.742667	150	1.678592	200	1.481111						
Vinyl acetate	199.9	0.5394958	299.8	0.5581809	399.8	0.5498253						
Xylenes (total)	300	1.61534	450	1.506898	600	1.350046						
Dibromofluoromethane	30	0.3165545	30	0.3250254	30	0.3100728						
1,2-Dichloroethane-d4	30	6.013583E-02	30	6.141876E-02	30	6.387307E-02						
Toluene-d8	30	2.119679	30	2.248726	30	2.185486						
tert-Amyl alcohol	500	1.192226E-02	750	~~0.013933~~	1000	~~1.438006E-02~~						
tert-Amyl ethyl ether	100	0.5491943	150	0.5659605	200	0.5121851						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0288001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	10/12/2010 8:07:20AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	10	7.039054E-02	20	7.210798E-02	100	0.0740447	200	7.357078E-02	300	7.410429E-02	400	7.274751E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone	10	9.240356E-02	20	9.799769E-02	100	0.1181957	200	0.120724	300	0.12054	400	0.1265497
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0288001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	10/12/2010 8:07:20AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	10	0.3105198	20	0.3814912	100	0.4490562	200	0.4408872	300	0.4529611	400	0.4310789
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.1882157	20	0.216239	100	0.2392707	200	0.2395619	300	0.2338073	400	0.2324055
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0288001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	10/12/2010 8:07:20AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0288001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	10/12/2010 8:07:20AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	7.811479E-02	12.98642	4.883875	0.1651504			15	
Acrolein	1.164793E-02	21.2898	4.749857	0.2749885	0.9992237		0.995	
Acrylonitrile	7.719652E-02	8.91034	5.496889	0.192848			15	
Benzene	0.8358386	7.447958	11.46056	6.101201E-02			15	
Bromobenzene	0.648934	9.294358	16.67811	3.162201E-02			15	
Bromochloromethane	0.1409376	19.66609	8.614375	0.1381148	0.9990308		0.995	
Tert-Amyl Methyl Ether	0.744538	29.44834	11.85422	6.899229E-02	0.9999147		0.995	
Bromodichloromethane	0.3122862	7.199629	12.56544	5.775564E-02			15	
Bromoform	0.520988	13.39114	15.98744	2.734544E-02			SPCC (0.1)	
Bromomethane	0.1808652	14.08194	3.995111	0.1613203			15	
Bromofluorobenzene	0.8833723	3.304377	16.52356	1.912178E-02			15	
n-Butylbenzene	1.237578	7.553513	17.77633	2.847747E-02			15	
2-Butanone	0.1098025	12.49449	7.96125	0.1101004			15	
sec-Butylbenzene	1.685923	6.87793	17.36067	2.429653E-02			15	
tert-Butylbenzene	1.161811	8.417131	17.20733	2.399951E-02			15	
Carbon disulfide	0.7279408	7.388771	5.927556	0.1240831			15	
Carbon tetrachloride	0.2951898	6.707225	11.39922	4.289152E-02			15	
Chlorobenzene	1.543806	11.24769	15.59067	0.0172928			SPCC (0.3)	
Chloroethane	0.16213	5.915595	4.138667	0.1800098			15	
Chloroform	0.4416533	12.35422	8.738889	0.10134			CCC (20)	
2-Chloroethyl vinyl ether	0.1485167	9.852501	13.20544	4.766954E-02			15	
Chloromethane	0.2046249	9.440292	3.416625	0.1821392			SPCC (0.1)	
1-Chlorohexane	0.7481532	13.54377	15.55333	2.749431E-02			15	
2-Chlorotoluene	1.335529	8.32063	16.88311	0.0178394			15	
4-Chlorotoluene	1.313181	9.407734	16.94211	1.944844E-02			15	
Cyclohexane	0.2944015	6.758321	11.25233	4.634363E-02			15	
Dibromochloromethane	0.7153446	8.227871	14.58	3.012385E-02			15	
1,2-Dibromo-3-chloropropane	0.1264341	20.12126	18.08956	3.416032E-02	0.9984303		0.995	
1,2-Dibromoethane (EDB)	0.6051969	8.389087	14.81344	4.322662E-02			15	
Dibromomethane	0.1760147	7.308508	12.37689	5.150049E-02			15	
1,2-Dichlorobenzene	1.008607	8.182712	17.74889	2.767189E-02			15	
1,3-Dichlorobenzene	1.086699	12.24273	17.43522	2.117104E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0288001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	10/12/2010 8:07:20AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.243319	13.70698	17.47762	1.795493E-02			15	
Dichlorodifluoromethane	0.1891346	5.980716	3.232333	0.1998126			15	
1,1-Dichloroethane	0.418837	7.039043	7.088333	0.1360939			SPCC (0.1)	
1,2-Dichloroethane	0.2920688	6.676541	10.47089	9.660483E-02			15	
1,1-Dichloroethene	0.2047309	8.80159	5.421222	0.1470215			CCC (20)	
cis-1,2-Dichloroethene	0.2539806	8.500709	8.276556	0.1125492			15	
trans-1,2-Dichloroethene	0.237595	8.308158	6.627889	0.1558001			15	
1,2-Dichloroethene (total)	0.2457878	8.307382	0	0			15	
1,2-Dichloropropane	0.2327228	7.286534	12.44056	4.960852E-02			CCC (20)	
1,3-Dichloropropane	0.8731742	8.835219	14.34878	3.405028E-02			15	
2,2-Dichloropropane	0.2849644	15.98146	8.946222	0.1070355	0.9991256		0.995	
1,1-Dichloropropene	0.2922463	8.085133	11.12544	6.355423E-02			15	
cis-1,3-Dichloropropene	0.3503386	8.51877	13.44233	4.778818E-02			15	
trans-1,3-Dichloropropene	0.7460596	8.686804	13.94544	4.750241E-02	0.9987458		0.995	
Diisopropyl Ether	0.8241016	7.808748	8.034222	0.1212186			15	
Ethylbenzene	2.209905	9.371095	15.75267	2.660989E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6440833	8.289269	8.980111	0.1155358			15	
Ethyl Methacrylate	0.6350853	15.54931	14.42889	4.426725E-02	0.9987937		0.995	
Hexachlorobutadiene	0.2639412	12.24359	19.45767	2.079233E-02	0.9985922		0.995	
2-Hexanone	0.3733401	24.00448	14.53588	2.457738E-02	0.9990205		0.995	
Iodomethane	0.2978907	38.05978	5.468111	0.0851372	0.9984697		0.995	
Isopropylbenzene	1.746379	11.7757	16.49213	2.846942E-02		0.9993308	0.99	
p-Isopropyltoluene	1.410458	12.23948	17.48356	0.0231966			15	
Methylene chloride	0.2747203	9.799394	5.622778	0.1150049			15	
Methyl Acetate	0.2014545	11.45819	5.662375	0.1851835			15	
Methylcyclohexane	0.2554207	7.841342	13.18589	3.196291E-02			15	
Naphthalene	1.293816	15.4847	19.43033	3.506097E-02	0.9992359		0.995	
Methyl Methacrylate	0.1810655	13.51891	12.88022	0.1067331			15	
4-Methyl-2-pentanone	0.2175995	9.243582	13.6	1.937434E-02			15	
Methyl t-Butyl Ether	0.5675005	8.933146	6.842667	0.1403714			15	
n-Propylbenzene	2.027251	7.998311	16.80856	2.232981E-02			15	
Styrene	1.398485	12.78473	16.16522	2.535922E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0288001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	10/12/2010 8:07:20AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.571341	6.879798	16.23211	1.457299E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.5897171	7.884472	15.53133	1.789641E-02			15	
tert-Butyl alcohol	1.872277E-02	8.580325	5.431222	0.1939848			15	
Tetrachloroethene	0.672589	7.991221	14.99656	3.157054E-02			15	
Toluene	1.332562	12.69402	14.27644	3.516708E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5416388	11.47717	19.64078	2.791796E-02			15	
1,2,4-Trichlorobenzene	0.600548	10.65399	19.2	0.0262916			15	
1,1,2-Trichloroethane	0.4671038	8.954989	14.09111	1.621246E-02			15	
1,1,1-Trichloroethane	0.3172406	6.912256	10.70211	6.868758E-02			15	
Tetrahydrofuran	5.696619E-02	23.84813	9.590714	0.1575383	0.9977767		0.995	
Trichloroethene	0.2427317	7.359239	12.51733	4.375905E-02			15	
Trichlorofluoromethane	0.3588331	6.617386	4.754778	0.136445			15	
1,2,3-Trichloropropane	0.1774321	10.50135	16.33711	2.084805E-02			15	
1,3,5-Trimethylbenzene	1.387364	6.937917	17.00567	2.039971E-02			15	
1,2,4-Trimethylbenzene	1.435102	7.578538	17.28522	2.407134E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2344612	8.315713	5.692889	0.1918493			15	
Vinyl chloride	0.1877522	17.83565	3.594	0.2135421		0.9976122	CCC (20)	
m,p-Xylene	1.622775	12.97502	15.91389	3.051657E-02			15	
o-Xylene	1.737591	9.782529	16.22211	0.0209374			15	
Vinyl acetate	0.4755489	18.07545	7.343667	0.2055285	0.9996767		0.995	
Xylenes (total)	1.661047	11.65853	0	0			15	
Dibromofluoromethane	0.3194396	1.636608	9.023	0.1104891			15	
1,2-Dichloroethane-d4	6.155599E-02	2.425279	10.27133	5.054035E-02			15	
Toluene-d8	2.302504	4.363621	14.19967	2.300475E-02			15	
tert-Amyl alcohol	9.646573E-03	24.13734	10.066	9.176771E-02	0.9995923		0.995	
tert-Amyl ethyl ether	0.5101943	9.31806	13.10133	4.172372E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	10/12/10 08:07
Sequence:	0J28708	Injection Date:	10/12/10
Lab Sample ID:	0J28708-ICV1	Injection Time:	12:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	50.00	54.33	0.8358386	0.9082969		8.7	20
Bromobenzene	A	50.00	54.54	0.648934	0.7078997		9.1	20
Bromochloromethane	L	50.00	52.18	0.1409376	0.1648435		4.4	20
Bromodichloromethane	A	50.00	55.94	0.3122862	0.3493782		11.9	20
Bromoform	A	50.00	59.82	0.520988	0.6233229	0.1	19.6	20
Bromomethane	A	50.00	48.14	0.1808652	0.1741393		-3.7	20
n-Butylbenzene	A	50.00	55.67	1.237578	1.377912		11.3	20
sec-Butylbenzene	A	50.00	55.12	1.685923	1.858663		10.2	20
tert-Butylbenzene	A	50.00	56.26	1.161811	1.307245		12.5	20
Carbon disulfide	A	50.00	46.75	0.7279408	0.6806861		-6.5	20
Carbon tetrachloride	A	50.00	51.79	0.2951898	0.3057386		3.6	20
Chlorobenzene	A	50.00	52.54	1.543806	1.622352	0.3	5.1	20
Chloroethane	A	50.00	53.23	0.16213	0.1726058		6.5	20
Chloroform	A	50.00	49.01	0.4416533	0.4328721		-2.0	20
Chloromethane	A	50.00	47.57	0.2046249	0.1946981	0.1	-4.9	20
2-Chlorotoluene	A	50.00	51.53	1.335529	1.376429		3.1	20
4-Chlorotoluene	A	50.00	56.09	1.313181	1.473006		12.2	20
Dibromochloromethane	A	50.00	56.38	0.7153446	0.8065623		12.8	20
1,2-Dibromo-3-chloropropane	L	50.00	51.26	0.1264341	0.1553812		2.5	20
1,2-Dibromoethane (EDB)	A	50.00	54.15	0.6051969	0.6554086		8.3	20
Dibromomethane	A	50.00	53.49	0.1760147	0.1883052		7.0	20
1,2-Dichlorobenzene	A	50.00	55.37	1.008607	1.116891		10.7	20
1,3-Dichlorobenzene	A	50.00	55.52	1.086699	1.206576		11.0	20
1,4-Dichlorobenzene	A	50.00	48.57	1.243319	1.207771		-2.9	20
Dichlorodifluoromethane	A	50.00	52.67	0.1891346	0.1992503		5.3	20
1,1-Dichloroethane	A	50.00	53.39	0.418837	0.4472517	0.1	6.8	20
1,2-Dichloroethane	A	50.00	51.75	0.2920688	0.302288		3.5	20
1,1-Dichloroethene	A	50.00	58.15	0.2047309	0.2381108		16.3	20
cis-1,2-Dichloroethene	A	50.00	54.20	0.2539806	0.2753079		8.4	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	10/12/10 08:07
Sequence:	0J28708	Injection Date:	10/12/10
Lab Sample ID:	0J28708-ICV1	Injection Time:	12:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	50.00	54.91	0.237595	0.2609146		9.8	20
1,2-Dichloropropane	A	50.00	50.56	0.2327228	0.2353368		1.1	20
1,3-Dichloropropane	A	50.00	50.87	0.8731742	0.8884112		1.7	20
2,2-Dichloropropane	L	50.00	50.23	0.2849644	0.2944428		0.5	20
1,1-Dichloropropene	A	50.00	55.30	0.2922463	0.323201		10.6	20
cis-1,3-Dichloropropene	A	50.00	51.23	0.3503386	0.3589287		2.5	20
trans-1,3-Dichloropropene	L	50.00	58.04	0.7460596	0.8794926		16.1	20
Ethylbenzene	A	50.00	55.28	2.209905	2.443422		10.6	20
Isopropylbenzene	Q	50.00	55.60	1.746379	2.150923		11.2	20
p-Isopropyltoluene	A	50.00	55.59	1.410458	1.56809		11.2	20
Methylene chloride	A	50.00	51.43	0.2747203	0.2825902		2.9	20
Naphthalene	L	50.00	53.36	1.293816	1.585289		6.7	20
Methyl t-Butyl Ether	A	50.00	51.65	0.5675005	0.5861737		3.3	20
n-Propylbenzene	A	50.00	55.43	2.027251	2.247259		10.9	20
Styrene	A	50.00	59.78	1.398485	1.671962		19.6	20
1,1,2,2-Tetrachloroethane	A	50.00	55.84	0.571341	0.6380453	0.3	11.7	20
1,1,1,2-Tetrachloroethane	A	50.00	55.63	0.5897171	0.6561605		11.3	20
Tetrachloroethene	A	50.00	54.40	0.672589	0.7318205		8.8	20
Toluene	A	50.00	52.33	1.332562	1.394579		4.7	20
1,2,3-Trichlorobenzene	A	50.00	58.10	0.5416388	0.6294189		16.2	20
1,2,4-Trichlorobenzene	A	50.00	58.09	0.600548	0.6976671		16.2	20
1,1,2-Trichloroethane	A	50.00	53.69	0.4671038	0.5015934		7.4	20
1,1,1-Trichloroethane	A	50.00	52.74	0.3172406	0.3345994		5.5	20
Trichloroethene	A	50.00	51.47	0.2427317	0.2498811		2.9	20
Trichlorofluoromethane	A	50.00	49.87	0.3588331	0.3579055		-0.3	20
1,2,3-Trichloropropane	A	50.00	55.95	0.1774321	0.1985343		11.9	20
1,3,5-Trimethylbenzene	A	50.00	56.74	1.387364	1.574493		13.5	20
1,2,4-Trimethylbenzene	A	50.00	57.08	1.435102	1.638436		14.2	20
Vinyl chloride	Q	50.00	43.95	0.1877522	0.1862395		-12.1	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	10/12/10 08:07
Sequence:	0J28708	Injection Date:	10/12/10
Lab Sample ID:	0J28708-ICV1	Injection Time:	12:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
m,p-Xylene	A	100.0	114.5	1.622775	1.857683		14.5	20
o-Xylene	A	50.00	55.99	1.737591	1.945592		12.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	SEQ-ICV2.D	Calibration Date:	10/12/10 08:07
Sequence:	0J28708	Injection Date:	10/12/10
Lab Sample ID:	0J28708-ICV2	Injection Time:	13:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Hexachlorobutadiene	L	100.0	107.9	0.2639412	0.2964937		7.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	SEQ-ICV3.D	Calibration Date:	10/12/10 08:07
Sequence:	0J28708	Injection Date:	10/12/10
Lab Sample ID:	0J28708-ICV3	Injection Time:	18:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	100.0	102.9	7.811479E-02	8.041102E-02		2.9	20
2-Butanone	A	100.0	116.3	0.1098025	0.1276662		16.3	20
2-Hexanone	L	100.0	105.9	0.3733401	0.4633809		5.9	20
4-Methyl-2-pentanone	A	100.0	115.5	0.2175995	0.2512686		15.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	0201CC1E.D	Calibration Date:	10/12/10 08:07
Sequence:	1B03303	Injection Date:	02/01/11
Lab Sample ID:	1B03303-CCV1	Injection Time:	22:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	210.0	7.811479E-02	0.0820421		5.0	20	
Benzene	A	100.0	107.7	0.8358386	0.9002242		7.7	20	
Bromobenzene	A	100.0	101.5	0.648934	0.6587039		1.5	20	
Bromochloromethane	L	100.0	111.1	0.1409376	0.1774803		11.1	20	
Bromodichloromethane	A	100.0	106.5	0.3122862	0.3324774		6.5	20	
Bromoform	A	100.0	119.2	0.520988	0.6211255	0.1	19.2	20	
Bromomethane	A	100.0	58.59	0.1808652	0.105971		-41.4	20	*
n-Butylbenzene	A	100.0	87.46	1.237578	1.082426		-12.5	20	
2-Butanone	A	200.0	215.6	0.1098025	0.1183501		7.8	20	
sec-Butylbenzene	A	100.0	88.07	1.685923	1.484791		-11.9	20	
tert-Butylbenzene	A	100.0	93.76	1.161811	1.08932		-6.2	20	
Carbon disulfide	A	100.0	111.6	0.7279408	0.8120498		11.6	20	
Carbon tetrachloride	A	100.0	103.4	0.2951898	0.3051544		3.4	20	
Chlorobenzene	A	100.0	96.31	1.543806	1.486885	0.3	-3.7	20	
Chloroethane	A	100.0	104.6	0.16213	0.1695517		4.6	20	
Chloroform	A	100.0	101.4	0.4416533	0.4476415		1.4	20	
Chloromethane	A	100.0	75.80	0.2046249	0.1551015	0.1	-24.2	20	*
2-Chlorotoluene	A	100.0	90.11	1.335529	1.203497		-9.9	20	
4-Chlorotoluene	A	100.0	99.68	1.313181	1.309007		-0.3	20	
Dibromochloromethane	A	100.0	102.5	0.7153446	0.7335115		2.5	20	
1,2-Dibromo-3-chloropropane	L	100.0	95.08	0.1264341	0.1472591		-4.9	20	
1,2-Dibromoethane (EDB)	A	100.0	105.4	0.6051969	0.637905		5.4	20	
Dibromomethane	A	100.0	106.9	0.1760147	0.1882216		6.9	20	
1,2-Dichlorobenzene	A	100.0	95.57	1.008607	0.9639491		-4.4	20	
1,3-Dichlorobenzene	A	100.0	94.60	1.086699	1.027977		-5.4	20	
1,4-Dichlorobenzene	A	100.0	84.07	1.243319	1.045258		-15.9	20	
Dichlorodifluoromethane	A	100.0	78.57	0.1891346	0.1486105		-21.4	20	*
1,1-Dichloroethane	A	100.0	106.5	0.418837	0.4462239	0.1	6.5	20	
1,2-Dichloroethane	A	100.0	101.8	0.2920688	0.2972736		1.8	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	0201CC1E.D	Calibration Date:	10/12/10 08:07
Sequence:	1B03303	Injection Date:	02/01/11
Lab Sample ID:	1B03303-CCV1	Injection Time:	22:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	116.6	0.2047309	0.2386951		16.6	20
cis-1,2-Dichloroethene	A	100.0	120.8	0.2539806	0.3066961		20.8	20 *
trans-1,2-Dichloroethene	A	100.0	117.0	0.237595	0.2780604		17.0	20
1,2-Dichloropropane	A	100.0	107.3	0.2327228	0.2496337		7.3	20
1,3-Dichloropropane	A	100.0	98.93	0.8731742	0.8638398		-1.1	20
2,2-Dichloropropane	L	100.0	102.8	0.2849644	0.3015928		2.8	20
1,1-Dichloropropene	A	100.0	111.7	0.2922463	0.3264567		11.7	20
cis-1,3-Dichloropropene	A	100.0	112.4	0.3503386	0.3936087		12.4	20
trans-1,3-Dichloropropene	L	100.0	106.5	0.7460596	0.8009269		6.5	20
Ethylbenzene	A	100.0	104.0	2.209905	2.297585		4.0	20
Hexachlorobutadiene	L	100.0	88.12	0.2639412	0.2413341		-11.9	20
2-Hexanone	L	200.0	165.5	0.3733401	0.3630882		-17.2	20
Isopropylbenzene	Q	100.0	96.89	1.746379	1.794452		-3.1	20
p-Isopropyltoluene	A	100.0	81.96	1.410458	1.156088		-18.0	20
Methylene chloride	A	100.0	110.2	0.2747203	0.3028675		10.2	20
Naphthalene	L	100.0	87.39	1.293816	1.309961		-12.6	20
4-Methyl-2-pentanone	A	200.0	198.7	0.2175995	0.2162367		-0.6	20
Methyl t-Butyl Ether	A	100.0	119.4	0.5675005	0.6773268		19.4	20
n-Propylbenzene	A	100.0	89.20	2.027251	1.808395		-10.8	20
Styrene	A	100.0	110.6	1.398485	1.547286		10.6	20
1,1,2,2-Tetrachloroethane	A	100.0	91.80	0.571341	0.5244715	0.3	-8.2	20
1,1,1,2-Tetrachloroethane	A	100.0	101.1	0.5897171	0.5964048		1.1	20
Tetrachloroethene	A	100.0	106.4	0.672589	0.7158591		6.4	20
Toluene	A	100.0	95.86	1.332562	1.277421		-4.1	20
1,2,3-Trichlorobenzene	A	100.0	103.7	0.5416388	0.5618359		3.7	20
1,2,4-Trichlorobenzene	A	100.0	104.4	0.600548	0.6268601		4.4	20
1,1,2-Trichloroethane	A	100.0	102.2	0.4671038	0.4774572		2.2	20
1,1,1-Trichloroethane	A	100.0	107.8	0.3172406	0.342101		7.8	20
Trichloroethene	A	100.0	107.1	0.2427317	0.2599798		7.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	0201CC1E.D	Calibration Date:	10/12/10 08:07
Sequence:	1B03303	Injection Date:	02/01/11
Lab Sample ID:	1B03303-CCV1	Injection Time:	22:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	104.6	0.3588331	0.3752152		4.6	20
1,2,3-Trichloropropane	A	100.0	100.1	0.1774321	0.1776437		0.1	20
1,3,5-Trimethylbenzene	A	100.0	90.30	1.387364	1.25287		-9.7	20
1,2,4-Trimethylbenzene	A	100.0	91.26	1.435102	1.309634		-8.7	20
Vinyl chloride	Q	100.0	83.61	0.1877522	0.148367		-16.4	20
m,p-Xylene	A	200.0	192.2	1.622775	1.559625		-3.9	20
o-Xylene	A	100.0	100.6	1.737591	1.747678		0.6	20
Bromofluorobenzene	A	30.00	34.01	0.8833723	1.001349		13.4	20
Dibromofluoromethane	A	30.00	30.81	0.3194396	0.328115		2.7	20
1,2-Dichloroethane-d4	A	30.00	32.41	6.155599E-02	6.650368E-02		8.0	20
Toluene-d8	A	30.00	28.93	2.302504	2.220643		-3.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	0201CC1.D	Calibration Date:	10/12/10 08:07
Sequence:	1B03305	Injection Date:	02/01/11
Lab Sample ID:	1B03305-CCV1	Injection Time:	10:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	302.1	7.811479E-02	0.1180065		51.1	20 *
Benzene	A	100.0	113.1	0.8358386	0.9455308		13.1	20
Bromobenzene	A	100.0	99.05	0.648934	0.6427952		-0.9	20
Bromochloromethane	L	100.0	109.9	0.1409376	0.1755005		9.9	20
Bromodichloromethane	A	100.0	107.0	0.3122862	0.3341614		7.0	20
Bromoform	A	100.0	119.8	0.520988	0.6244457	0.1	19.9	20
Bromomethane	A	100.0	59.33	0.1808652	0.1073019		-40.7	20 *
n-Butylbenzene	A	100.0	91.96	1.237578	1.138118		-8.0	20
2-Butanone	A	200.0	281.8	0.1098025	0.1547182		40.9	20 *
sec-Butylbenzene	A	100.0	91.39	1.685923	1.540795		-8.6	20
tert-Butylbenzene	A	100.0	94.92	1.161811	1.10274		-5.1	20
Carbon disulfide	A	100.0	108.8	0.7279408	0.7919365		8.8	20
Carbon tetrachloride	A	100.0	102.3	0.2951898	0.3021207		2.3	20
Chlorobenzene	A	100.0	95.96	1.543806	1.481413	0.3	-4.0	20
Chloroethane	A	100.0	91.56	0.16213	0.1484522		-8.4	20
Chloroform	A	100.0	103.0	0.4416533	0.4549984		3.0	20
Chloromethane	A	100.0	79.53	0.2046249	0.1627316	0.1	-20.5	20 *
2-Chlorotoluene	A	100.0	93.66	1.335529	1.250919		-6.3	20
4-Chlorotoluene	A	100.0	93.53	1.313181	1.22824		-6.5	20
Dibromochloromethane	A	100.0	102.4	0.7153446	0.7323373		2.4	20
1,2-Dibromo-3-chloropropane	L	100.0	102.7	0.1264341	0.1593174		2.7	20
1,2-Dibromoethane (EDB)	A	100.0	106.4	0.6051969	0.6438711		6.4	20
Dibromomethane	A	100.0	108.6	0.1760147	0.1910653		8.6	20
1,2-Dichlorobenzene	A	100.0	101.8	1.008607	1.026313		1.8	20
1,3-Dichlorobenzene	A	100.0	100.1	1.086699	1.088135		0.1	20
1,4-Dichlorobenzene	A	100.0	83.62	1.243319	1.039712		-16.4	20
Dichlorodifluoromethane	A	100.0	86.99	0.1891346	0.1645305		-13.0	20
1,1-Dichloroethane	A	100.0	110.2	0.418837	0.4615625	0.1	10.2	20
1,2-Dichloroethane	A	100.0	106.3	0.2920688	0.310434		6.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	0201CC1.D	Calibration Date:	10/12/10 08:07
Sequence:	1B03305	Injection Date:	02/01/11
Lab Sample ID:	1B03305-CCV1	Injection Time:	10:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	117.1	0.2047309	0.2397757		17.1	20
cis-1,2-Dichloroethene	A	100.0	121.1	0.2539806	0.3075418		21.1	20 *
trans-1,2-Dichloroethene	A	100.0	119.8	0.237595	0.2845293		19.8	20
1,2-Dichloropropane	A	100.0	105.5	0.2327228	0.24563		5.5	20
1,3-Dichloropropane	A	100.0	98.59	0.8731742	0.8608988		-1.4	20
2,2-Dichloropropane	L	100.0	120.6	0.2849644	0.3540856		20.6	20 *
1,1-Dichloropropene	A	100.0	114.0	0.2922463	0.3332699		14.0	20
cis-1,3-Dichloropropene	A	100.0	118.8	0.3503386	0.416326		18.8	20
trans-1,3-Dichloropropene	L	100.0	110.3	0.7460596	0.8295594		10.3	20
Ethylbenzene	A	100.0	105.6	2.209905	2.333623		5.6	20
Hexachlorobutadiene	L	100.0	91.32	0.2639412	0.2502564		-8.7	20
2-Hexanone	L	200.0	197.1	0.3733401	0.4327347		-1.4	20
Isopropylbenzene	Q	100.0	99.37	1.746379	1.83569		-0.6	20
p-Isopropyltoluene	A	100.0	82.84	1.410458	1.168394		-17.2	20
Methylene chloride	A	100.0	107.8	0.2747203	0.2962738		7.8	20
Naphthalene	L	100.0	93.19	1.293816	1.39808		-6.8	20
4-Methyl-2-pentanone	A	200.0	208.0	0.2175995	0.226306		4.0	20
Methyl t-Butyl Ether	A	100.0	122.8	0.5675005	0.6967577		22.8	20 *
n-Propylbenzene	A	100.0	92.44	2.027251	1.87411		-7.6	20
Styrene	A	100.0	115.6	1.398485	1.616452		15.6	20
1,1,2,2-Tetrachloroethane	A	100.0	93.05	0.571341	0.5316136	0.3	-7.0	20
1,1,1,2-Tetrachloroethane	A	100.0	101.6	0.5897171	0.5989947		1.6	20
Tetrachloroethene	A	100.0	104.9	0.672589	0.705329		4.9	20
Toluene	A	100.0	100.3	1.332562	1.336082		0.3	20
1,2,3-Trichlorobenzene	A	100.0	111.9	0.5416388	0.6062879		11.9	20
1,2,4-Trichlorobenzene	A	100.0	109.5	0.600548	0.6575517		9.5	20
1,1,2-Trichloroethane	A	100.0	102.2	0.4671038	0.477563		2.2	20
1,1,1-Trichloroethane	A	100.0	108.3	0.3172406	0.3435977		8.3	20
Trichloroethene	A	100.0	106.7	0.2427317	0.2591071		6.7	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	0201CC1.D	Calibration Date:	10/12/10 08:07
Sequence:	1B03305	Injection Date:	02/01/11
Lab Sample ID:	1B03305-CCV1	Injection Time:	10:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	106.9	0.3588331	0.3835602		6.9	20
1,2,3-Trichloropropane	A	100.0	108.8	0.1774321	0.1931021		8.8	20
1,3,5-Trimethylbenzene	A	100.0	95.42	1.387364	1.323826		-4.6	20
1,2,4-Trimethylbenzene	A	100.0	99.72	1.435102	1.431097		-0.3	20
Vinyl chloride	Q	100.0	91.26	0.1877522	0.1575596		-8.7	20
m,p-Xylene	A	200.0	196.9	1.622775	1.597762		-1.5	20
o-Xylene	A	100.0	104.2	1.737591	1.811182		4.2	20
Bromofluorobenzene	A	30.00	35.01	0.8833723	1.030783		16.7	20
Dibromofluoromethane	A	30.00	31.36	0.3194396	0.333944		4.5	20
1,2-Dichloroethane-d4	A	30.00	32.48	6.155599E-02	0.0666522		8.3	20
Toluene-d8	A	30.00	30.71	2.302504	2.356789		2.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01007-BLK1 File ID: 0201BL1.D

Sampled: Prepared: Analyzed: 02/01/11 12:44

Solids: Preparation: 5030B Dilution:

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01007-BLK1 File ID: 0201BL1.D

Sampled: Prepared: Analyzed: 02/01/11 12:44

Solids: Preparation: 5030B Dilution:

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	35.53	118	75 - 120	
Dibromofluoromethane	30.00	29.18	97.3	85 - 115	
1,2-Dichloroethane-d4	30.00	31.69	106	70 - 120	
Toluene-d8	30.00	29.22	97.4	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01007-BS1 File ID: 0201LS1.D

Sampled: Prepared: Analyzed: 02/01/11 11:14

Solids: Preparation: 5030B Dilution:

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	94.3	2.50	5.00	10.0	X
71-43-2	Benzene	55.5	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.6	0.250	0.500	1.00	
74-97-5	Bromochloromethane	52.4	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	56.6	0.250	0.500	1.00	
75-25-2	Bromoform	61.8	0.250	0.500	1.00	
74-83-9	Bromomethane	25.5	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	45.2	0.250	0.500	1.00	
78-93-3	2-Butanone	110	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	44.2	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	46.0	0.250	0.500	1.00	
75-15-0	Carbon disulfide	50.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	47.8	0.250	0.500	1.00	
108-90-7	Chlorobenzene	51.8	0.250	0.500	1.00	
75-00-3	Chloroethane	53.6	0.500	1.00	2.00	
67-66-3	Chloroform	50.0	0.250	0.500	1.00	
74-87-3	Chloromethane	41.0	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	46.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	52.7	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.8	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	50.8	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.9	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	50.0	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	46.4	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	39.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	48.2	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	53.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	51.4	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	58.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	57.1	0.250	0.500	1.00	X
156-60-5	trans-1,2-Dichloroethene	58.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	52.5	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	54.1	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	52.2	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	55.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	59.3	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.8	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	49.1	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01007-BS1 File ID: 0201LS1.D

Sampled: Prepared: Analyzed: 02/01/11 11:14

Solids: Preparation: 5030B Dilution:

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	91.2	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	50.9	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	44.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.8	0.500	1.00	2.00	
91-20-3	Naphthalene	48.1	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	104	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	112	0.250	0.500	1.00	X
103-65-1	n-Propylbenzene	48.1	0.250	0.500	1.00	
100-42-5	Styrene	60.1	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	50.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	51.3	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	53.5	0.250	0.500	1.00	
108-88-3	Toluene	51.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	53.8	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	53.7	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.8	0.250	0.500	1.00	
79-01-6	Trichloroethene	53.7	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	48.7	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	50.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	50.2	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	49.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	37.1	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	110	0.500	1.00	2.00	
95-47-6	o-Xylene	55.2	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.43	115	75 - 120	
Dibromofluoromethane	30.00	29.91	99.7	85 - 115	
1,2-Dichloroethane-d4	30.00	32.75	109	70 - 120	
Toluene-d8	30.00	30.16	101	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01007-BSD1 File ID: 0201LSD1.D

Sampled: Prepared: Analyzed: 02/01/11 21:39

Solids: Preparation: 5030B Dilution:

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	89.2	2.50	5.00	10.0	X
71-43-2	Benzene	54.8	0.250	0.500	1.00	
108-86-1	Bromobenzene	49.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.3	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	55.6	0.250	0.500	1.00	
75-25-2	Bromoform	62.7	0.250	0.500	1.00	
74-83-9	Bromomethane	20.4	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	44.1	0.250	0.500	1.00	
78-93-3	2-Butanone	113	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	43.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	45.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	52.1	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	50.1	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.8	0.250	0.500	1.00	
75-00-3	Chloroethane	48.7	0.500	1.00	2.00	
67-66-3	Chloroform	48.9	0.250	0.500	1.00	
74-87-3	Chloromethane	40.3	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	46.1	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.6	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	54.5	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	47.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.4	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	47.6	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.8	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	42.0	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	47.4	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	52.6	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	49.6	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	61.9	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	56.8	0.250	0.500	1.00	X
156-60-5	trans-1,2-Dichloroethene	58.9	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	53.2	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	48.1	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	53.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	57.6	0.250	0.500	1.00	
100-41-4	Ethylbenzene	57.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	43.6	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01007-BSD1 File ID: 0201LSD1.D

Sampled: Prepared: Analyzed: 02/01/11 21:39

Solids: Preparation: 5030B Dilution:

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	85.5	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	51.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	44.9	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.2	0.500	1.00	2.00	
91-20-3	Naphthalene	45.3	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	102	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	112	0.250	0.500	1.00	X
103-65-1	n-Propylbenzene	48.0	0.250	0.500	1.00	
100-42-5	Styrene	62.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	46.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	54.6	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	57.3	0.250	0.500	1.00	
108-88-3	Toluene	51.8	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	49.6	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	51.1	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	52.4	0.250	0.500	1.00	
79-01-6	Trichloroethene	54.1	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.2	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	52.0	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	47.2	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	47.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride	38.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	110	0.500	1.00	2.00	
95-47-6	o-Xylene	55.2	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.85	116	75 - 120	
Dibromofluoromethane	30.00	30.35	101	85 - 115	
1,2-Dichloroethane-d4	30.00	31.56	105	70 - 120	
Toluene-d8	30.00	30.61	102	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01012-BLK1 File ID: 0201BL1E.D

Sampled: Prepared: Analyzed: 02/02/11 00:34

Solids: Preparation: 5030B Dilution:

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01012-BLK1 File ID: 0201BL1E.D

Sampled: Prepared: Analyzed: 02/02/11 00:34

Solids: Preparation: 5030B Dilution:

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	35.00	117	75 - 120	
Dibromofluoromethane	30.00	31.40	105	85 - 115	
1,2-Dichloroethane-d4	30.00	33.41	111	70 - 120	
Toluene-d8	30.00	28.80	96.0	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01012-BS1 File ID: 0201LS1E.D

Sampled: Prepared: Analyzed: 02/01/11 23:07

Solids: Preparation: 5030B Dilution:

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	91.9	2.50	5.00	10.0	
71-43-2	Benzene	56.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.6	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	56.6	0.250	0.500	1.00	
75-25-2	Bromoform	61.0	0.250	0.500	1.00	
74-83-9	Bromomethane	27.2	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	42.3	0.250	0.500	1.00	
78-93-3	2-Butanone	90.8	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	45.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	43.8	0.250	0.500	1.00	
75-15-0	Carbon disulfide	52.9	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	50.7	0.250	0.500	1.00	
108-90-7	Chlorobenzene	50.8	0.250	0.500	1.00	
75-00-3	Chloroethane	54.8	0.500	1.00	2.00	
67-66-3	Chloroform	50.1	0.250	0.500	1.00	
74-87-3	Chloromethane	38.2	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	44.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.7	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	54.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	45.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	53.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	46.6	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.4	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	41.4	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	49.7	0.500	1.00	2.00	Y
75-34-3	1,1-Dichloroethane	52.8	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	50.9	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	61.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	57.9	0.250	0.500	1.00	X
156-60-5	trans-1,2-Dichloroethene	58.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	53.3	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.2	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.9	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	56.2	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.9	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	57.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	56.6	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	47.9	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01012-BS1 File ID: 0201LS1E.D

Sampled: Prepared: Analyzed: 02/01/11 23:07

Solids: Preparation: 5030B Dilution:

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	82.7	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	51.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	44.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	54.7	0.500	1.00	2.00	
91-20-3	Naphthalene	43.1	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	95.5	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	112	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	46.8	0.250	0.500	1.00	
100-42-5	Styrene	60.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	44.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	54.0	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	57.3	0.250	0.500	1.00	
108-88-3	Toluene	50.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.9	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	48.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	52.3	0.250	0.500	1.00	
79-01-6	Trichloroethene	54.2	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.8	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	50.1	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	47.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	47.2	0.250	0.500	1.00	
75-01-4	Vinyl chloride	36.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	111	0.500	1.00	2.00	
95-47-6	o-Xylene	53.8	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.03	113	75 - 120	
Dibromofluoromethane	30.00	30.86	103	85 - 115	
1,2-Dichloroethane-d4	30.00	32.24	107	70 - 120	
Toluene-d8	30.00	30.89	103	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01012-BSD1 File ID: 0201LD1E.D

Sampled: Prepared: Analyzed: 02/02/11 09:23

Solids: Preparation: 5030B Dilution:

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	90.3	2.50	5.00	10.0	
71-43-2	Benzene	55.8	0.250	0.500	1.00	
108-86-1	Bromobenzene	51.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.6	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	57.4	0.250	0.500	1.00	
75-25-2	Bromoform	58.4	0.250	0.500	1.00	
74-83-9	Bromomethane	27.0	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	43.5	0.250	0.500	1.00	
78-93-3	2-Butanone	90.7	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	45.0	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	45.8	0.250	0.500	1.00	
75-15-0	Carbon disulfide	53.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	50.6	0.250	0.500	1.00	
75-00-3	Chloroethane	54.3	0.500	1.00	2.00	
67-66-3	Chloroform	50.7	0.250	0.500	1.00	
74-87-3	Chloromethane	41.7	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	48.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.1	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	46.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.2	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.3	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.6	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	44.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	40.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	48.1	0.500	1.00	2.00	Y
75-34-3	1,1-Dichloroethane	53.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	51.9	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	61.9	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	55.7	0.250	0.500	1.00	X
156-60-5	trans-1,2-Dichloroethene	58.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.1	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	46.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	38.3	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	55.5	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	54.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	52.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	44.7	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01012-BSD1 File ID: 0201LD1E.D

Sampled: Prepared: Analyzed: 02/02/11 09:23

Solids: Preparation: 5030B Dilution:

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	80.9	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	49.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	44.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	54.4	0.500	1.00	2.00	
91-20-3	Naphthalene	46.2	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	99.9	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	111	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	45.9	0.250	0.500	1.00	
100-42-5	Styrene	57.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	47.2	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	52.9	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	53.2	0.250	0.500	1.00	
108-88-3	Toluene	48.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	50.0	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	47.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	54.0	0.250	0.500	1.00	
79-01-6	Trichloroethene	55.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.9	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	52.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	47.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	47.6	0.250	0.500	1.00	
75-01-4	Vinyl chloride	36.9	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	103	0.500	1.00	2.00	
95-47-6	o-Xylene	52.4	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	33.79	113	75 - 120	
Dibromofluoromethane	30.00	31.72	106	85 - 115	
1,2-Dichloroethane-d4	30.00	33.28	111	70 - 120	
Toluene-d8	30.00	28.97	96.6	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0001	01/25/11 12:57	01/26/11 08:45	02/01/11 00:00	N/A	14.00	02/01/11 15:43	7.12	14.00	
GW8001-TB	01/25/11 08:00	01/26/11 08:45	02/01/11 00:00	N/A	14.00	02/01/11 13:14	7.22	14.00	
GW0017	01/26/11 13:25	01/27/11 08:45	02/01/11 00:00	N/A	14.00	02/01/11 16:12	6.12	14.00	
GW0032	01/26/11 11:29	01/27/11 08:45	02/01/11 00:00	N/A	14.00	02/01/11 16:42	6.22	14.00	
GW8002-TB	01/26/11 08:00	01/27/11 08:45	02/01/11 00:00	N/A	14.00	02/01/11 14:14	6.26	14.00	
GW0002	01/27/11 14:45	01/28/11 08:30	02/01/11 14:32	N/A	14.00	02/02/11 07:54	5.71	14.00	
GW0003	01/27/11 12:56	01/28/11 08:30	02/01/11 14:32	N/A	14.00	02/02/11 08:23	5.81	14.00	
GW0004	01/27/11 10:10	01/28/11 08:30	02/01/11 14:32	N/A	14.00	02/02/11 08:53	5.95	14.00	
GW8003-TB	01/27/11 08:00	01/28/11 08:30	02/01/11 14:32	N/A	14.00	02/02/11 05:55	5.91	14.00	

Data for MODSW8015B (GRO) Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1A02805-CAL1	003F0301.D	01/27/11 18:33
Cal Standard	1A02805-CAL2	004F0401.D	01/27/11 19:08
Cal Standard	1A02805-CAL3	005F0501.D	01/27/11 19:44
Cal Standard	1A02805-CAL4	006F0601.D	01/27/11 20:20
Cal Standard	1A02805-CAL5	007F0701.D	01/27/11 20:55
Cal Standard	1A02805-CAL6	008F0801.D	01/27/11 21:31
Initial Cal Check	1A02805-ICV1	009F0901.D	01/27/11 22:07

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02809	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1A02809-CCV1	010F1001.D	01/27/11 22:43
Blank	1A27019-BLK1	011F1101.D	01/27/11 23:19
LCS	1A27019-BS1	012F1201.D	01/27/11 23:56
LCS Dup	1A27019-BSD1	013F1301.D	01/28/11 00:31
Calibration Check	1A02809-CCV2	022F2201.D	01/28/11 05:51
GW0001	1101162-01	032F3201.D	01/28/11 11:42
Calibration Check	1A02809-CCV3	033F3301.D	01/28/11 12:17
Blank	1A28012-BLK1	034F3501.D	01/28/11 13:29
LCS	1A28012-BS1	035F3601.D	01/28/11 14:05
LCS Dup	1A28012-BSD1	036F3701.D	01/28/11 14:40
GW0017	1101181-01	038F3901.D	01/28/11 15:50
GW0032	1101181-02	039F4001.D	01/28/11 16:25
GW0002	1101198-01	041F4201.D	01/28/11 17:35
GW0003	1101198-03	042F4301.D	01/28/11 18:10
GW0004	1101198-05	043F4401.D	01/28/11 18:45
GW0004	1A28012-MS1	044F4501.D	01/28/11 19:19
GW0004	1A28012-MSD1	045F4601.D	01/28/11 19:54
Calibration Check	1A02809-CCV4	046F4701.D	01/28/11 20:28

ANALYSIS DATA SHEET

GW0001

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101162-01	File ID:	032F3201.D
Sampled:	01/25/11 12:57	Prepared:	01/27/11 16:30	Analyzed:	01/28/11 11:42
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1A27019 Sequence: 1A02809 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.0741	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05432	109	50 - 150	

ANALYSIS DATA SHEET

GW0017

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-01	File ID:	038F3901.D
Sampled:	01/26/11 13:25	Prepared:	01/28/11 12:34	Analyzed:	01/28/11 15:50
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1A28012 Sequence: 1A02809 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05331	107	50 - 150	

ANALYSIS DATA SHEET

GW0032

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-02	File ID:	039F4001.D
Sampled:	01/26/11 11:29	Prepared:	01/28/11 12:34	Analyzed:	01/28/11 16:25
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1A28012 Sequence: 1A02809 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.101	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05299	106	50 - 150	

ANALYSIS DATA SHEET

GW0002

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-01	File ID:	041F4201.D
Sampled:	01/27/11 14:45	Prepared:	01/28/11 12:34	Analyzed:	01/28/11 17:35
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1A28012 Sequence: 1A02809 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05214	104	50 - 150	

ANALYSIS DATA SHEET

GW0003

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-03	File ID:	042F4301.D
Sampled:	01/27/11 12:56	Prepared:	01/28/11 12:34	Analyzed:	01/28/11 18:10
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1A28012 Sequence: 1A02809 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05230	105	50 - 150	

ANALYSIS DATA SHEET

GW0004

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-05	File ID:	043F4401.D
Sampled:	01/27/11 10:10	Prepared:	01/28/11 12:34	Analyzed:	01/28/11 18:45
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1A28012 Sequence: 1A02809 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05163	103	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A27019	Laboratory ID:	1A27019-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4952	99.0	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5910	118	17.6	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A28012	Laboratory ID:	1A28012-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5573	111	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5722	114	2.64	50	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B

GW0004

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1A28012

% Solids:

Source Sample Name: **1101198-05**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	ND	0.5332	107		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5766	115	7.82		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A27019 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	01/27/11 16:30	5.00	5.00
Blank	1A27019-BLK1	01/27/11 16:30	5.00	5.00
LCS	1A27019-BS1	01/27/11 16:30	5.00	5.00
LCS Dup	1A27019-BSD1	01/27/11 16:30	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A28012 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0017	1101181-01	01/28/11 12:34	5.00	5.00
GW0032	1101181-02	01/28/11 12:34	5.00	5.00
GW0002	1101198-01	01/28/11 12:34	5.00	5.00
GW0003	1101198-03	01/28/11 12:34	5.00	5.00
GW0004	1101198-05	01/28/11 12:34	5.00	5.00
Blank	1A28012-BLK1	01/28/11 12:34	5.00	5.00
LCS	1A28012-BS1	01/28/11 12:34	5.00	5.00
LCS Dup	1A28012-BSD1	01/28/11 12:34	5.00	5.00
GW0004	1A28012-MS1	01/28/11 12:34	5.00	5.00
GW0004	1A28012-MSD1	01/28/11 12:34	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11A0780	GRO Cal 0.1ppm	1A02805-CAL1	003F0301.D	01/27/11 18:33
11A0781	GRO Cal 0.2ppm	1A02805-CAL2	004F0401.D	01/27/11 19:08
11A0783	GRO Cal 0.5ppm	1A02805-CAL3	005F0501.D	01/27/11 19:44
11A0789	GRO Cal 1.0ppm	1A02805-CAL4	006F0601.D	01/27/11 20:20
11A0790	GRO Cal 2.0ppm	1A02805-CAL5	007F0701.D	01/27/11 20:55
11A0791	GRO Cal 5.0ppm	1A02805-CAL6	008F0801.D	01/27/11 21:31

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Gasoline Range Organics (C6-C10	5	2516042	2	2730054	1	2493619	0.5	2526354	0.2	3408960	0.1	3753180
Bromofluorobenzene	0.5	1483418	0.2	1700855	0.1	1733590	0.05	1558880	0.02	1723950	0.01	1745400

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	2904701	18.65348	7.287	1.259059E-02			20	
Bromofluorobenzene	1657682	6.599566	19.57967	2.614775E-02			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	009F0901.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02805	Injection Date:	01/27/11
Lab Sample ID:	1A02805-ICV1	Injection Time:	22:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5128	2904701	2979066		2.6	20
Bromofluorobenzene	A	0.05000	0.05836	1657682	1934860		16.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	010F1001.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02809	Injection Date:	01/27/11
Lab Sample ID:	1A02809-CCV1	Injection Time:	22:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4944	2904701	2871998		-1.1	20
Bromofluorobenzene	A	0.05000	0.05599	1657682	1856420		12.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	022F2201.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02809	Injection Date:	01/28/11
Lab Sample ID:	1A02809-CCV2	Injection Time:	05:51

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4607	2904701	2676680		-7.9	20
Bromofluorobenzene	A	0.05000	0.05482	1657682	1817640		9.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	033F3301.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02809	Injection Date:	01/28/11
Lab Sample ID:	1A02809-CCV3	Injection Time:	12:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4004	2904701	2326006		-19.9	20
Bromofluorobenzene	A	0.05000	0.05539	1657682	1836400		10.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	046F4701.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02809	Injection Date:	01/28/11
Lab Sample ID:	1A02809-CCV4	Injection Time:	20:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5588	2904701	3246440		11.8	20
Bromofluorobenzene	A	0.05000	0.05516	1657682	1828740		10.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02809	Instrument:	GL-GCVOA2
		Calibration:	1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1A02809-CCV1) ug/mL				Lab File ID: 010F1001.D		Analyzed: 01/27/11 22:43		
Bromofluorobenzene	0.05000	112	80 - 120	19.573	19.573	0.0000	+/-0.210	
Blank (1A27019-BLK1) mg/L				Lab File ID: 011F1101.D		Analyzed: 01/27/11 23:19		
Bromofluorobenzene	0.05000	105	50 - 150	19.57	19.573	-0.0030	+/-0.210	
LCS (1A27019-BS1) mg/L				Lab File ID: 012F1201.D		Analyzed: 01/27/11 23:56		
Bromofluorobenzene	0.05000	112	50 - 150	19.563	19.573	-0.0100	+/-0.210	
LCS Dup (1A27019-BSD1) mg/L				Lab File ID: 013F1301.D		Analyzed: 01/28/11 00:31		
Bromofluorobenzene	0.05000	114	50 - 150	19.57	19.573	-0.0030	+/-0.210	
Calibration Check (1A02809-CCV2) ug/mL				Lab File ID: 022F2201.D		Analyzed: 01/28/11 05:51		
Bromofluorobenzene	0.05000	110	80 - 120	19.573	19.573	0.0000	+/-0.210	
GW0001 (1101162-01) mg/L				Lab File ID: 032F3201.D		Analyzed: 01/28/11 11:42		
Bromofluorobenzene	0.05000	109	50 - 150	19.573	19.573	0.0000	+/-0.210	
Calibration Check (1A02809-CCV3) ug/mL				Lab File ID: 033F3301.D		Analyzed: 01/28/11 12:17		
Bromofluorobenzene	0.05000	111	80 - 120	19.566	19.573	-0.0070	+/-0.210	
Blank (1A28012-BLK1) mg/L				Lab File ID: 034F3501.D		Analyzed: 01/28/11 13:29		
Bromofluorobenzene	0.05000	108	50 - 150	19.566	19.573	-0.0070	+/-0.210	
LCS (1A28012-BS1) mg/L				Lab File ID: 035F3601.D		Analyzed: 01/28/11 14:05		
Bromofluorobenzene	0.05000	112	50 - 150	19.566	19.573	-0.0070	+/-0.210	
LCS Dup (1A28012-BSD1) mg/L				Lab File ID: 036F3701.D		Analyzed: 01/28/11 14:40		
Bromofluorobenzene	0.05000	111	50 - 150	19.573	19.573	0.0000	+/-0.210	
GW0017 (1101181-01) mg/L				Lab File ID: 038F3901.D		Analyzed: 01/28/11 15:50		
Bromofluorobenzene	0.05000	107	50 - 150	19.57	19.573	-0.0030	+/-0.210	
GW0032 (1101181-02) mg/L				Lab File ID: 039F4001.D		Analyzed: 01/28/11 16:25		
Bromofluorobenzene	0.05000	106	50 - 150	19.58	19.573	0.0070	+/-0.210	
GW0002 (1101198-01) mg/L				Lab File ID: 041F4201.D		Analyzed: 01/28/11 17:35		
Bromofluorobenzene	0.05000	104	50 - 150	19.583	19.573	0.0100	+/-0.210	
GW0003 (1101198-03) mg/L				Lab File ID: 042F4301.D		Analyzed: 01/28/11 18:10		
Bromofluorobenzene	0.05000	105	50 - 150	19.583	19.573	0.0100	+/-0.210	
GW0004 (1101198-05) mg/L				Lab File ID: 043F4401.D		Analyzed: 01/28/11 18:45		
Bromofluorobenzene	0.05000	103	50 - 150	19.593	19.573	0.0200	+/-0.210	
Matrix Spike (1A28012-MS1) mg/L				Lab File ID: 044F4501.D		Analyzed: 01/28/11 19:19		
Bromofluorobenzene	0.05000	109	50 - 150	19.59	19.573	0.0170	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02809	Instrument:	GL-GCVOA2
		Calibration:	1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (1A28012-MSD1) mg/L				Lab File ID: 045F4601.D		Analyzed: 01/28/11 19:54		
Bromofluorobenzene	0.05000	107	50 - 150	19.596	19.573	0.0230	+/-0.210	
Calibration Check (1A02809-CCV4) ug/mL				Lab File ID: 046F4701.D		Analyzed: 01/28/11 20:28		
Bromofluorobenzene	0.05000	110	80 - 120	19.6	19.573	0.0270	+/-0.210	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0001	01/25/11 12:57	01/26/11 08:45	01/27/11 16:30	N/A	14.00	01/28/11 11:42	2.95	14.00	
GW0017	01/26/11 13:25	01/27/11 08:45	01/28/11 12:34	N/A	14.00	01/28/11 15:50	2.10	14.00	
GW0032	01/26/11 11:29	01/27/11 08:45	01/28/11 12:34	N/A	14.00	01/28/11 16:25	2.21	14.00	
GW0002	01/27/11 14:45	01/28/11 08:30	01/28/11 12:34	N/A	14.00	01/28/11 17:35	1.12	14.00	
GW0003	01/27/11 12:56	01/28/11 08:30	01/28/11 12:34	N/A	14.00	01/28/11 18:10	1.22	14.00	
GW0004	01/27/11 10:10	01/28/11 08:30	01/28/11 12:34	N/A	14.00	01/28/11 18:45	1.36	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1A27019-BLK1	File ID:	011F1101.D
Sampled:		Prepared:		Analyzed:	01/27/11 23:19
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1A27019	Sequence:	1A02809	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05246	105	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1A27019-BS1	File ID:	012F1201.D
Sampled:		Prepared:		Analyzed:	01/27/11 23:56
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1A27019	Sequence:	1A02809	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.4952	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05617	112	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1A27019-BSD1	File ID:	013F1301.D
Sampled:		Prepared:		Analyzed:	01/28/11 00:31
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1A27019	Sequence:	1A02809	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.5910	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05683	114	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1A28012-BLK1	File ID:	034F3501.D
Sampled:		Prepared:		Analyzed:	01/28/11 13:29
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1A28012 Sequence: 1A02809 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05415	108	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1A28012-BS1	File ID:	035F3601.D
Sampled:		Prepared:		Analyzed:	01/28/11 14:05
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1A28012	Sequence:	1A02809	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.5573	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05577	112	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1A28012-BSD1	File ID:	036F3701.D
Sampled:		Prepared:		Analyzed:	01/28/11 14:40
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1A28012	Sequence:	1A02809	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.5722	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05561	111	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1A28012-MS1	File ID:	044F4501.D
Sampled:		Prepared:		Analyzed:	01/28/11 19:19
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1A28012	Sequence:	1A02809	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.5332	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05441	109	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1A28012-MSD1	File ID:	045F4601.D
Sampled:		Prepared:		Analyzed:	01/28/11 19:54
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1A28012	Sequence:	1A02809	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.5766	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05344	107	50 - 150	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCVOA2

Analyte	MDL	MRL	Units	Method
Gasoline Range Organics (C6-C10)	0.0500	0.150	mg/L	SW8015B

Data for MODSW8015B (DRO) Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L35504	Instrument:	GL-GCFID2
Calibration:	0355001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0L35504-CAL6	004F0401.D	12/18/10 17:50
Cal Standard	0L35504-CAL5	005F0501.D	12/18/10 18:39
Cal Standard	0L35504-CAL4	006F0601.D	12/18/10 19:12
Cal Standard	0L35504-CAL3	007F0701.D	12/18/10 19:46
Cal Standard	0L35504-CAL2	008F0801.D	12/18/10 20:19
Cal Standard	0L35504-CAL1	009F0901.D	12/18/10 20:53
Initial Cal Check	0L35504-ICV1	010F1001.D	12/18/10 21:26

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03204	Instrument:	GL-GCFID2
Calibration:	0355001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B03204-CCV1	003F0301.D	01/30/11 17:23
Calibration Check	1B03204-CCV3	026F2601.D	01/31/11 07:06
Blank	1A28007-BLK1	027F2701.D	01/31/11 07:39
LCS	1A28007-BS1	028F2801.D	01/31/11 08:12
LCS Dup	1A28007-BSD1	029F2901.D	01/31/11 08:45
GW0001	1101162-01	030F3001.D	01/31/11 09:18
GW0017	1101181-01	031F3101.D	01/31/11 09:51
GW0032	1101181-02	032F3201.D	01/31/11 10:24
GW0002	1101198-01	033F3301.D	01/31/11 12:08
GW0003	1101198-03	034F3401.D	01/31/11 12:41
GW0004	1101198-05	035F3501.D	01/31/11 13:14
Calibration Check	1B03204-CCV4	041F4101.D	01/31/11 16:32

ANALYSIS DATA SHEET

GW0001

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101162-01	File ID:	030F3001.D
Sampled:	01/25/11 12:57	Prepared:	01/28/11 13:55	Analyzed:	01/31/11 09:18
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1A28007 Sequence: 1B03204 Calibration: 0355001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01658	84.6	30 - 140	

ANALYSIS DATA SHEET

GW0017

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-01	File ID:	031F3101.D
Sampled:	01/26/11 13:25	Prepared:	01/28/11 13:55	Analyzed:	01/31/11 09:51
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1A28007 Sequence: 1B03204 Calibration: 0355001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01700	90.1	30 - 140	

ANALYSIS DATA SHEET

GW0032

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-02	File ID:	032F3201.D
Sampled:	01/26/11 11:29	Prepared:	01/28/11 13:55	Analyzed:	01/31/11 10:24
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1A28007 Sequence: 1B03204 Calibration: 0355001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01820	94.6	30 - 140	

ANALYSIS DATA SHEET

GW0002

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-01	File ID:	033F3301.D
Sampled:	01/27/11 14:45	Prepared:	01/28/11 13:55	Analyzed:	01/31/11 12:08
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1A28007 Sequence: 1B03204 Calibration: 0355001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01883	97.9	30 - 140	

ANALYSIS DATA SHEET

GW0003

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-03	File ID:	034F3401.D
Sampled:	01/27/11 12:56	Prepared:	01/28/11 13:55	Analyzed:	01/31/11 12:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1A28007 Sequence: 1B03204 Calibration: 0355001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01509	75.5	30 - 140	

ANALYSIS DATA SHEET

GW0004

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-05	File ID:	035F3501.D
Sampled:	01/27/11 10:10	Prepared:	01/28/11 13:55	Analyzed:	01/31/11 13:14
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1A28007 Sequence: 1B03204 Calibration: 0355001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01666	85.0	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A28007	Laboratory ID:	1A28007-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.7167	71.7	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.7426	74.3	3.55	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A28007 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	01/28/11 13:55	1,020.00	1.00
GW0017	1101181-01	01/28/11 13:55	1,060.00	1.00
GW0032	1101181-02	01/28/11 13:55	1,040.00	1.00
GW0002	1101198-01	01/28/11 13:55	1,040.00	1.00
GW0003	1101198-03	01/28/11 13:55	1,000.00	1.00
GW0004	1101198-05	01/28/11 13:55	1,020.00	1.00
Blank	1A28007-BLK1	01/28/11 13:55	1,000.00	1.00
LCS	1A28007-BS1	01/28/11 13:55	1,000.00	1.00
LCS Dup	1A28007-BSD1	01/28/11 13:55	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L35504	Instrument:	GL-GCFID2
Calibration:	0355001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10K0188	DRO ICAL6@100ppm	0L35504-CAL6	004F0401.D	12/18/10 17:50
10K0189	DRO ICAL5@250ppm	0L35504-CAL5	005F0501.D	12/18/10 18:39
10K0190	DRO ICAL4@500ppm	0L35504-CAL4	006F0601.D	12/18/10 19:12
10K0192	DRO ICAL3@1000ppm	0L35504-CAL3	007F0701.D	12/18/10 19:46
10K0193	DRO ICAL2@2500ppm	0L35504-CAL2	008F0801.D	12/18/10 20:19
10K0194	DRO ICAL1@5000ppm	0L35504-CAL1	009F0901.D	12/18/10 20:53

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0355001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	12/18/2010 5:50:23PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	2002.42	250	2054.808	500	2018.564	1000	2618.724	2500	2162.952	5000	1783.595
o-Terphenyl	5	2224.2	12.5	2325.28	25	2325.08	50	2438.14	125	2234.048	250	2209.376

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0355001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	12/18/2010 5:50:23PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	2106.844	13.27416	4.747	2.033446E-02			20	
o-Terphenyl	2292.687	3.819306	8.5235	0.1052077			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	0355001
Lab File ID:	010F1001.D	Calibration Date:	12/18/10 17:50
Sequence:	0L35504	Injection Date:	12/18/10
Lab Sample ID:	0L35504-ICV1	Injection Time:	21:26

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	984.4	2106.844	2074.064		-1.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	0355001
Lab File ID:	003F0301.D	Calibration Date:	12/18/10 17:50
Sequence:	1B03204	Injection Date:	01/30/11
Lab Sample ID:	1B03204-CCV1	Injection Time:	17:23

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1112	2106.844	2341.895		11.2	20
o-Terphenyl	A	50.00	50.72	2292.687	2325.84		1.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	0355001
Lab File ID:	026F2601.D	Calibration Date:	12/18/10 17:50
Sequence:	1B03204	Injection Date:	01/31/11
Lab Sample ID:	1B03204-CCV3	Injection Time:	07:06

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	958.8	2106.844	2020.129		-4.1	20
o-Terphenyl	A	50.00	58.59	2292.687	2686.52		17.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	0355001
Lab File ID:	041F4101.D	Calibration Date:	12/18/10 17:50
Sequence:	1B03204	Injection Date:	01/31/11
Lab Sample ID:	1B03204-CCV4	Injection Time:	16:32

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	929.4	2106.844	1958.045		-7.1	20
o-Terphenyl	A	50.00	52.46	2292.687	2405.54		4.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03204	Instrument:	GL-GCFID2
		Calibration:	0355001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B03204-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 01/30/11 17:23		
o-Terphenyl	50.00	101	80 - 120	8.38	8.38	0.0000	+/-0.050	
Calibration Check (1B03204-CCV3) mg/L				Lab File ID: 026F2601.D		Analyzed: 01/31/11 07:06		
o-Terphenyl	50.00	117	80 - 120	8.383	8.38	0.0030	+/-0.050	
Blank (1A28007-BLK1) mg/L				Lab File ID: 027F2701.D		Analyzed: 01/31/11 07:39		
o-Terphenyl	0.02000	109	30 - 140	8.423	8.38	0.0430	+/-0.050	
LCS (1A28007-BS1) mg/L				Lab File ID: 028F2801.D		Analyzed: 01/31/11 08:12		
o-Terphenyl	0.02000	105	30 - 140	8.39	8.38	0.0100	+/-0.050	
LCS Dup (1A28007-BSD1) mg/L				Lab File ID: 029F2901.D		Analyzed: 01/31/11 08:45		
o-Terphenyl	0.02000	109	30 - 140	8.39	8.38	0.0100	+/-0.050	
GW0001 (1101162-01) mg/L				Lab File ID: 030F3001.D		Analyzed: 01/31/11 09:18		
o-Terphenyl	0.01961	84.6	30 - 140	8.443	8.38	0.0630	+/-0.050	*
GW0017 (1101181-01) mg/L				Lab File ID: 031F3101.D		Analyzed: 01/31/11 09:51		
o-Terphenyl	0.01887	90.1	30 - 140	8.456	8.38	0.0760	+/-0.050	*
GW0032 (1101181-02) mg/L				Lab File ID: 032F3201.D		Analyzed: 01/31/11 10:24		
o-Terphenyl	0.01923	94.6	30 - 140	8.46	8.38	0.0800	+/-0.050	*
GW0002 (1101198-01) mg/L				Lab File ID: 033F3301.D		Analyzed: 01/31/11 12:08		
o-Terphenyl	0.01923	97.9	30 - 140	8.483	8.38	0.1030	+/-0.050	*
GW0003 (1101198-03) mg/L				Lab File ID: 034F3401.D		Analyzed: 01/31/11 12:41		
o-Terphenyl	0.02000	75.5	30 - 140	8.51	8.38	0.1300	+/-0.050	*
GW0004 (1101198-05) mg/L				Lab File ID: 035F3501.D		Analyzed: 01/31/11 13:14		
o-Terphenyl	0.01961	85.0	30 - 140	8.496	8.38	0.1160	+/-0.050	*
Calibration Check (1B03204-CCV4) mg/L				Lab File ID: 041F4101.D		Analyzed: 01/31/11 16:32		
o-Terphenyl	50.00	105	80 - 120	8.386	8.38	0.0060	+/-0.050	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0001	01/25/11 12:57	01/26/11 08:45	01/28/11 13:55	3.04	7.00	01/31/11 09:18	2.81	40.00	
GW0017	01/26/11 13:25	01/27/11 08:45	01/28/11 13:55	2.02	7.00	01/31/11 09:51	2.83	40.00	
GW0032	01/26/11 11:29	01/27/11 08:45	01/28/11 13:55	2.10	7.00	01/31/11 10:24	2.85	40.00	
GW0002	01/27/11 14:45	01/28/11 08:30	01/28/11 13:55	0.97	7.00	01/31/11 12:08	2.93	40.00	
GW0003	01/27/11 12:56	01/28/11 08:30	01/28/11 13:55	1.04	7.00	01/31/11 12:41	2.95	40.00	
GW0004	01/27/11 10:10	01/28/11 08:30	01/28/11 13:55	1.16	7.00	01/31/11 13:14	2.97	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1A28007-BLK1	File ID:	027F2701.D
Sampled:		Prepared:		Analyzed:	01/31/11 07:39
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1A28007	Sequence:	1B03204	Calibration:	0355001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02174	109	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1A28007-BS1	File ID:	028F2801.D
Sampled:		Prepared:		Analyzed:	01/31/11 08:12
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1A28007	Sequence:	1B03204	Calibration:	0355001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)	0.7167	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02106	105	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1A28007-BSD1	File ID:	029F2901.D
Sampled:		Prepared:		Analyzed:	01/31/11 08:45
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1A28007	Sequence:	1B03204	Calibration:	0355001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)	0.7426	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02174	109	30 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCFID2

Analyte	MDL	MRL	Units	Method
Diesel Range Organics (C10-C28)	0.100	0.100	mg/L	SW8015B

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34409	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0L34409-CAL1	002R0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL1	002F0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL2	003F0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL2	003R0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL3	004F0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL3	004R0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL4	005R0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL4	005F0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL5	006R0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL5	006F0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL6	007F0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL6	007R0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL7	008F0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL7	008R0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL8	009F0101.D	12/09/10 16:42
Cal Standard	0L34409-CAL8	009R0101.D	12/09/10 16:42
Initial Cal Check	0L34409-ICV1	010R0101.D	12/09/10 17:04
Initial Cal Check	0L34409-ICV1	010F0101.D	12/09/10 17:04

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04113	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04113-CCV1	002R0101.D	02/07/11 14:16
Calibration Check	1B04113-CCV1	002F0101.D	02/07/11 14:16
LCS	1B07020-BS1	004R0101.D	02/07/11 15:08
LCS	1B07020-BS1	004F0101.D	02/07/11 15:08
LCS Dup	1B07020-BSD1	005F0101.D	02/07/11 15:24
LCS Dup	1B07020-BSD1	005R0101.D	02/07/11 15:24
Blank	1B07020-BLK1	006R0101.D	02/07/11 15:46
GW0001	1101162-01	007R0101.D	02/07/11 16:07
GW0001	1101162-01	007F0101.D	02/07/11 16:07
GW0017	1101181-01	008R0101.D	02/07/11 16:28
GW0032	1101181-02	009R0101.D	02/07/11 16:49
GW0002	1101198-01	010R0101.D	02/07/11 17:10
GW0003	1101198-03	011R0101.D	02/07/11 17:32
GW0004	1101198-05	012F0101.D	02/07/11 17:53
Calibration Check	1B04113-CCV2	017R0101.D	02/07/11 19:39
Calibration Check	1B04113-CCV2	017F0101.D	02/07/11 19:39

ANALYSIS DATA SHEET

GW0001

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101162-01	File ID:	007R0101.D
Sampled:	01/25/11 12:57	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 16:07
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B07020 Sequence: 1B04113 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.0614	0.00983	0.0197	0.0295	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0017

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-01	File ID:	008R0101.D
Sampled:	01/26/11 13:25	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 16:28
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B07020 Sequence: 1B04113 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00969	0.0194	0.0291	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0032

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-02	File ID:	009R0101.D
Sampled:	01/26/11 11:29	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 16:49
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B07020 Sequence: 1B04113 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00976	0.0195	0.0293	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0002

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-01	File ID:	010R0101.D
Sampled:	01/27/11 14:45	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 17:10
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B07020 Sequence: 1B04113 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00988	0.0198	0.0296	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0003

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-03	File ID:	011R0101.D
Sampled:	01/27/11 12:56	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 17:32
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B07020 Sequence: 1B04113 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00968	0.0194	0.0290	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0004

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-05	File ID:	012F0101.D
Sampled:	01/27/11 10:10	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 17:53
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B07020 Sequence: 1B04113 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00975	0.0195	0.0293	U

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B07020	Laboratory ID:	1B07020-BS1
Preparation:	EDB	Initial/Final:	35 mL / 35 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5440	109	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5412	108	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5078	102	6.88	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5629	113	3.93	20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B07020 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	02/07/11 14:59	35.61	35.00
GW0017	1101181-01	02/07/11 14:59	36.11	35.00
GW0032	1101181-02	02/07/11 14:59	35.86	35.00
GW0002	1101198-01	02/07/11 14:59	35.42	35.00
GW0003	1101198-03	02/07/11 14:59	36.17	35.00
GW0004	1101198-05	02/07/11 14:59	35.88	35.00
Blank	1B07020-BLK1	02/07/11 14:59	35.00	35.00
LCS	1B07020-BS1	02/07/11 14:59	35.00	35.00
LCS Dup	1B07020-BSD1	02/07/11 14:59	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B07020-BLK1	File ID:	006R0101.D
Sampled:		Prepared:	02/07/11 14:59	Analyzed:	02/07/11 15:46
Solids:		Preparation:	EDB	Dilution:	

Batch: 1B07020 Sequence: 1B04113 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34409	Instrument:	GL-ECD2
Calibration:	0344003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002R0101.D	12/09/10 14:14
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002F0101.D	12/09/10 14:14
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003F0101.D	12/09/10 14:35
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003R0101.D	12/09/10 14:35
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004F0101.D	12/09/10 14:56
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004R0101.D	12/09/10 14:56
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005R0101.D	12/09/10 15:17
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005F0101.D	12/09/10 15:17
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006R0101.D	12/09/10 15:38
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006F0101.D	12/09/10 15:38
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007F0101.D	12/09/10 16:00
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007R0101.D	12/09/10 16:00
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008F0101.D	12/09/10 16:21
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008R0101.D	12/09/10 16:21
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009R0101.D	12/09/10 16:42
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009F0101.D	12/09/10 16:42

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 12:00:04AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	1	14540	0.5	15516	0.4	15402.5	0.2	16590	0.15	15980	0.1	~~17600~~
1,2-Dibromoethane [2C]	1	29076	0.5	33560	0.4	33402.5	0.2	38785	0.15	37866.67	0.1	~~42050~~
1,2-Dibromo-3-chloropropane	1	24442	0.5	28986	0.4	28852.5	0.2	31650	0.15	31693.33	0.1	~~45080~~
1,2-Dibromo-3-chloropropane [2C]	1	69695	0.5	78930	0.4	76647.5	0.2	85730	0.15	88033.34	0.1	~~105450~~

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 12:00:04AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.05	23100	0.03	21300								
1,2-Dibromoethane [2C]	0.05	45260	0.03	42333.33								
1,2-Dibromo-3-chloropropane	0.05	52760	0.03	51166.67								
1,2-Dibromo-3-chloropropane [2C]	0.05	155180	0.03	148933.3								

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 12:00:04AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	17489.79	18.96825	1.543	1.749237E-02		0.9996372	CCC ()	*
1,2-Dibromoethane [2C]	37183.36	15.05167	0.583	2.248094E-02		0.9995717	CCC ()	*
1,2-Dibromo-3-chloropropane	35650.07	32.01128	6.973	2.748517E-02		0.9987968	CCC ()	*
1,2-Dibromo-3-chloropropane [2C]	100449.9	35.64558	4.139286	5.910871E-02		0.9986728	CCC ()	*

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	010F0101.D	Calibration Date:	12/09/10 00:00
Sequence:	0L34409	Injection Date:	12/09/10
Lab Sample ID:	0L34409-ICV1	Injection Time:	17:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4746	17489.79	14620		-5.1	20
1,2-Dibromoethane [2C]	Q	0.5000	0.4584	37183.36	30824		-8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	002F0101.D	Calibration Date:	12/09/10 00:00
Sequence:	1B04113	Injection Date:	02/07/11
Lab Sample ID:	1B04113-CCV1	Injection Time:	14:16

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5145	17489.79	15762		2.9	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5592	37183.36	36414		11.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	017F0101.D	Calibration Date:	12/09/10 00:00
Sequence:	1B04113	Injection Date:	02/07/11
Lab Sample ID:	1B04113-CCV2	Injection Time:	19:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5048	17489.79	15486		1.0	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5417	37183.36	35464		8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0001	01/25/11 12:57	01/26/11 08:45	02/07/11 14:59	13.08	14.00	02/07/11 16:07	0.05	14.00	
GW0017	01/26/11 13:25	01/27/11 08:45	02/07/11 14:59	12.07	14.00	02/07/11 16:28	0.06	14.00	
GW0032	01/26/11 11:29	01/27/11 08:45	02/07/11 14:59	12.15	14.00	02/07/11 16:49	0.08	14.00	
GW0002	01/27/11 14:45	01/28/11 08:30	02/07/11 14:59	11.01	14.00	02/07/11 17:10	0.09	14.00	
GW0003	01/27/11 12:56	01/28/11 08:30	02/07/11 14:59	11.09	14.00	02/07/11 17:32	0.11	14.00	
GW0004	01/27/11 10:10	01/28/11 08:30	02/07/11 14:59	11.20	14.00	02/07/11 17:53	0.12	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B07020-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	02/07/11 15:08
Solids:		Preparation:	EDB	Dilution:	
Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5440	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B07020-BS1
File ID: 004R0101.D
Sampled:
Prepared:
Analyzed: 02/07/11 15:08
Solids:
Preparation: EDB
Dilution:
Batch: 1B07020
Sequence: 1B04113
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5412	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B07020-BSD1	File ID:	005F0101.D
Sampled:		Prepared:		Analyzed:	02/07/11 15:24
Solids:		Preparation:	EDB	Dilution:	

Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5078	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B07020-BSD1	File ID:	005R0101.D
Sampled:		Prepared:		Analyzed:	02/07/11 15:24
Solids:		Preparation:	EDB	Dilution:	

Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5629	0.0100	0.0200	0.0300	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0001

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1101162-01

Date(s) Analyzed: 02/07/2011 02/07/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.0589	
	2	0.58	0.55	0.61	0.0614	4

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B07020-BS1 Date(s) Analyzed: 02/07/2011 02/07/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.5440	
	2	0.58	0.55	0.61	0.5412	1

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B07020-BSD1 Date(s) Analyzed: 02/07/2011 02/07/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.5078	
	2	0.58	0.55	0.61	0.5629	10

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_001

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-ECD2

Analyte	MDL	MRL	Units	Method
1,2-Dibromoethane	0.0100	0.0300	ug/L	SW8011
1,2-Dibromoethane [2C]	0.0100	0.0300	ug/L	SW8011

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0001

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101162-01
Sampled:	01/25/11 12:57	Received:	01/26/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	49600	1000	2000	5000	1		SW6010B	1A31008	02/02/11 16:07
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1A31008	02/02/11 16:07
7439-95-4	Magnesium	6960	1000	3000	5000	1		SW6010B	1A31008	02/02/11 16:07
7440-09-7	Potassium	2620	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 16:07
7440-23-5	Sodium	24100	1000	3000	5000	1		SW6010B	1A31008	02/02/11 16:07

ANALYSIS DATA SHEET

GW0001

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101162-03
Sampled:	01/25/11 12:57	Received:	01/26/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	68.3	30.0	60.0	100	1	J	SW6010B	1A31008	02/02/11 16:12
7439-96-5	Manganese (dissolved)	199	3.00	6.00	15.0	1		SW6010B	1A31008	02/02/11 16:12

ANALYSIS DATA SHEET

GW0017

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-01
Sampled:	01/26/11 13:25	Received:	01/27/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	34400	1000	2000	5000	1		SW6010B	1A31008	02/02/11 16:16
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1A31008	02/02/11 16:16
7439-95-4	Magnesium	4750	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 16:16
7440-09-7	Potassium	2200	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 16:16
7440-23-5	Sodium	20400	1000	3000	5000	1		SW6010B	1A31008	02/02/11 16:16

ANALYSIS DATA SHEET

GW0032

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-02
Sampled:	01/26/11 11:29	Received:	01/27/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	61100	1000	2000	5000	1		SW6010B	1A31008	02/02/11 16:21
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1A31008	02/02/11 16:21
7439-95-4	Magnesium	8540	1000	3000	5000	1		SW6010B	1A31008	02/02/11 16:21
7440-09-7	Potassium	2870	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 16:21
7440-23-5	Sodium	27200	1000	3000	5000	1		SW6010B	1A31008	02/02/11 16:21

ANALYSIS DATA SHEET

GW0017

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-04
Sampled:	01/26/11 13:25	Received:	01/27/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1A31008	02/02/11 16:26
7439-96-5	Manganese (dissolved)	168	3.00	6.00	15.0	1		SW6010B	1A31008	02/02/11 16:26

ANALYSIS DATA SHEET

GW0032

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-05
Sampled:	01/26/11 11:29	Received:	01/27/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1A31008	02/02/11 16:30
7439-96-5	Manganese (dissolved)	63.7	3.00	6.00	15.0	1		SW6010B	1A31008	02/02/11 16:30

ANALYSIS DATA SHEET

GW0002

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-01
Sampled:	01/27/11 14:45	Received:	01/28/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	43700	1000	2000	5000	1		SW6010B	1A31008	02/02/11 17:02
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1A31008	02/02/11 17:02
7439-95-4	Magnesium	6150	1000	3000	5000	1		SW6010B	1A31008	02/02/11 17:02
7440-09-7	Potassium	2470	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 17:02
7440-23-5	Sodium	23200	1000	3000	5000	1		SW6010B	1A31008	02/02/11 17:02

ANALYSIS DATA SHEET

GW0002

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101198-02
Sampled:	01/27/11 14:45	Received:	01/28/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1A31008	02/02/11 17:06
7439-96-5	Manganese (dissolved)	5.15	3.00	6.00	15.0	1	J	SW6010B	1A31008	02/02/11 17:06

ANALYSIS DATA SHEET

GW0003

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-03
Sampled:	01/27/11 12:56	Received:	01/28/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	103000	1000	2000	5000	1		SW6010B	1A31008	02/02/11 17:11
7439-92-1	Lead	5.21	1.50	3.00	3.00	1		SW6010B	1A31008	02/02/11 17:11
7439-95-4	Magnesium	14800	1000	3000	5000	1		SW6010B	1A31008	02/02/11 17:11
7440-09-7	Potassium	4440	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 17:11
7440-23-5	Sodium	49000	1000	3000	5000	1		SW6010B	1A31008	02/02/11 17:11

ANALYSIS DATA SHEET

GW0003

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101198-04
Sampled:	01/27/11 12:56	Received:	01/28/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1A31008	02/02/11 17:15
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1A31008	02/02/11 17:15

ANALYSIS DATA SHEET

GW0004

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-05
Sampled:	01/27/11 10:10	Received:	01/28/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	62900	1000	2000	5000	1		SW6010B	1A31008	02/02/11 17:20
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1A31008	02/02/11 17:20
7439-95-4	Magnesium	8870	1000	3000	5000	1		SW6010B	1A31008	02/02/11 17:20
7440-09-7	Potassium	2930	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 17:20
7440-23-5	Sodium	26900	1000	3000	5000	1		SW6010B	1A31008	02/02/11 17:20

ANALYSIS DATA SHEET

GW0004

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101198-06
Sampled:	01/27/11 10:10	Received:	01/28/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1A31008	02/02/11 17:43
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1A31008	02/02/11 17:43

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 1038003
Sequence: 1B03412

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B03412-ICV1	Calcium	50000	50650	101	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10250	102	ug/L	+/- 10.00%
	Lead	1000	1028	103	ug/L	+/- 10.00%
	Magnesium	50000	49250	98.5	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1015	102	ug/L	+/- 10.00%
	Potassium	10000	9245	92.5	ug/L	+/- 10.00%
	Sodium	50000	48780	97.6	ug/L	+/- 10.00%
1B03412-CCV1	Calcium	50000	51000	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10150	101	ug/L	+/- 10.00%
	Lead	1000	1011	101	ug/L	+/- 10.00%
	Magnesium	50000	48230	96.5	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1002	100	ug/L	+/- 10.00%
	Potassium	10000	9628	96.3	ug/L	+/- 10.00%
	Sodium	50000	46780	93.6	ug/L	+/- 10.00%
1B03412-CCV3	Calcium	50000	51660	103	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9459	94.6	ug/L	+/- 10.00%
	Lead	1000	968.9	96.9	ug/L	+/- 10.00%
	Magnesium	50000	48330	96.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1016	102	ug/L	+/- 10.00%
	Potassium	10000	9817	98.2	ug/L	+/- 10.00%
	Sodium	50000	47790	95.6	ug/L	+/- 10.00%
1B03412-CCV4	Calcium	50000	51110	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9286	92.9	ug/L	+/- 10.00%
	Lead	1000	942.6	94.3	ug/L	+/- 10.00%
	Magnesium	50000	47340	94.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	993.8	99.4	ug/L	+/- 10.00%
	Potassium	10000	9735	97.4	ug/L	+/- 10.00%
	Sodium	50000	46380	92.8	ug/L	+/- 10.00%
1B03412-CCV5	Calcium	50000	48780	97.6	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9116	91.2	ug/L	+/- 10.00%
	Lead	1000	938.9	93.9	ug/L	+/- 10.00%
	Magnesium	50000	46600	93.2	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	972.2	97.2	ug/L	+/- 10.00%
	Potassium	10000	9875	98.8	ug/L	+/- 10.00%
	Sodium	50000	48230	96.5	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1038003

Sequence: 1B03412

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B03412-CRL1	Calcium	2000	2047	102	ug/L	80 - 120
	Iron (dissolved)	60.00	62.78	105	ug/L	80 - 120
	Magnesium	3000	2864	95.5	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.419	107	ug/L	80 - 120
	Potassium	3000	2852	95.1	ug/L	80 - 120
	Sodium	3000	2869	95.6	ug/L	80 - 120
1B03412-CRL2	Lead	3.000	2.752	91.7	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1B03412
Calibration: 1038003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B03412-ICB1	Calcium	2.300	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.3139	30.0	100	ug/L	U	SW6010B
	Lead	-0.7428	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.940	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.05804	3.00	15.0	ug/L	U	SW6010B
	Potassium	-5.800	1000	5000	ug/L	U	SW6010B
	Sodium	-43.95	1000	5000	ug/L	U	SW6010B
1B03412-CCB1	Calcium	11.6	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.66	30.0	100	ug/L	U	SW6010B
	Lead	-0.589	1.50	3.00	ug/L	U	SW6010B
	Magnesium	15.0	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.177	3.00	15.0	ug/L	U	SW6010B
	Potassium	-1.64	1000	5000	ug/L	U	SW6010B
	Sodium	-44.5	1000	5000	ug/L	U	SW6010B
1B03412-CCB3	Calcium	35.6	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.684	30.0	100	ug/L	U	SW6010B
	Lead	-0.0769	1.50	3.00	ug/L	U	SW6010B
	Magnesium	15.5	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.176	3.00	15.0	ug/L	U	SW6010B
	Potassium	-1.19	1000	5000	ug/L	U	SW6010B
	Sodium	-54.1	1000	5000	ug/L	U	SW6010B
1A31008-BLK1	Calcium	22.6	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.0527	30.0	100	ug/L	U	SW6010B
	Lead	0.0488	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.66	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0722	3.00	15.0	ug/L	U	SW6010B
	Potassium	0.760	1000	5000	ug/L	U	SW6010B
	Sodium	-64.5	1000	5000	ug/L	U	SW6010B
1B03412-CCB4	Calcium	15.6	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.476	30.0	100	ug/L	U	SW6010B
	Lead	-0.433	1.50	3.00	ug/L	U	SW6010B
	Magnesium	14.1	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.376	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1B03412
Calibration: 1038003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B03412-CCB4	Potassium	-4.92	1000	5000	ug/L	U	SW6010B
	Sodium	-80.8	1000	5000	ug/L	U	SW6010B
1B03412-CCB5	Calcium	16.1	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-1.37	30.0	100	ug/L	U	SW6010B
	Lead	-1.01	1.50	3.00	ug/L	U	SW6010B
	Magnesium	16.5	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.141	3.00	15.0	ug/L	U	SW6010B
	Potassium	3.12	1000	5000	ug/L	U	SW6010B
	Sodium	-62.0	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1038003
Sequence: 1B03412

Lab Sample ID	Analyte	True	Found	%R	Units
1B03412-IFA1	Calcium	500000	497,370.00	99.5	ug/L
	Iron (dissolved)	200000	199,000.00	99.5	ug/L
	Lead		6.75		ug/L
	Magnesium	500000	495,050.00	99.0	ug/L
	Manganese (dissolved)		3.50		ug/L
	Potassium		-42.79		ug/L
	Sodium		3.83		ug/L
1B03412-IFB1	Calcium	500000	462,040.00	92.4	ug/L
	Iron (dissolved)	200000	184,640.00	92.3	ug/L
	Lead	50.00	53.95	108	ug/L
	Magnesium	500000	459,610.00	91.9	ug/L
	Manganese (dissolved)	500.0	437.42	87.5	ug/L
	Potassium		-22.95		ug/L
	Sodium		59.81		ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0004

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1A31008

% Solids:

Source Sample Name: **1101198-05**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	62930	72900	199		80 - 120
Lead	250.0	ND	250.3	100		80 - 120
Magnesium	5000	8873	14130	105		80 - 120
Potassium	5000	2927	8086	103		80 - 120
Sodium	5000	26890	32970	122		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	70370	149	3.53		20	80 - 120
Lead	250.0	246.4	98.6	1.54		20	80 - 120
Magnesium	5000	13790	98.3	2.43		20	80 - 120
Potassium	5000	7972	101	1.43		20	80 - 120
Sodium	5000	31980	102	3.04		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0004

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1A31008

% Solids:

Source Sample Name: **1101198-06**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	ND	968.8	96.9		80 - 120
Manganese (dissolved)	500.0	ND	494.3	98.9		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	962.1	96.2	0.692		20	80 - 120
Manganese (dissolved)	500.0	504.5	101	2.05		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0004

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1A31008-PS1
Batch: 1A31008
Lab Source ID: 1101198-05
Preparation: MET_3005A
Initial/Final: 20 mL / 20 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Calcium	68430	62930	5000	110	80 - 120
Lead	248.4	ND	250.0	99.7	80 - 120
Magnesium	13580	8873	5000	94.0	80 - 120
Potassium	8028	2927	5000	102	80 - 120
Sodium	31120	26890	5000	84.7	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0004

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1A31008-PS2
Batch: 1A31008
Lab Source ID: 1101198-06
Preparation: MET_3005A
Initial/Final: 20 mL / 20 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Iron (dissolved)	997.5	ND	1000	99.1	80 - 120
Manganese (dissolved)	505.7	ND	500.0	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A31008	Laboratory ID:	1A31008-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	5232	105	80 - 120
Iron (dissolved)	1000	1018	102	80 - 120
Lead	250.0	256.1	102	80 - 120
Magnesium	5000	4877	97.5	80 - 120
Manganese (dissolved)	500.0	536.5	107	80 - 120
Potassium	5000	5152	103	80 - 120
Sodium	5000	5086	102	80 - 120

SERIAL DILUTION

SW6010B

GW0004

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1B03412
Preparation: MET_3005A

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1A31008-DUP1
Lab Source ID: 1101198-05
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	62932	64410	2.35		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	8872.7	9004.5	1.49		SW6010B	10.00
Potassium	2926.6	ND			SW6010B	10.00
Sodium	26888	25455	-5.33		SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0004

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1B03412
Preparation: MET_3005A

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1A31008-DUP2
Lab Source ID: 1101198-06
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Iron (dissolved)	ND	ND			SW6010B	10.00
Manganese (dissolved)	ND	ND			SW6010B	10.00

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_001

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** ME-ICP

Analyte	MDL	MRL	Units	Method
Calcium	1000	5000	ug/L	SW6010B
Iron (dissolved)	30.0	100	ug/L	SW6010B
Lead	1.50	3.00	ug/L	SW6010B
Magnesium	1000	5000	ug/L	SW6010B
Manganese (dissolved)	3.00	15.0	ug/L	SW6010B
Potassium	1000	5000	ug/L	SW6010B
Sodium	1000	5000	ug/L	SW6010B

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_001

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_001

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_001

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_001

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_001

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_001

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: kirtland_001

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A31008 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	01/31/11 08:32	50.00	50.00
GW0001	1101162-03	01/31/11 08:32	50.00	50.00
GW0017	1101181-01	01/31/11 08:32	50.00	50.00
GW0032	1101181-02	01/31/11 08:32	50.00	50.00
GW0017	1101181-04	01/31/11 08:32	50.00	50.00
GW0032	1101181-05	01/31/11 08:32	50.00	50.00
GW0002	1101198-01	01/31/11 08:32	50.00	50.00
GW0002	1101198-02	01/31/11 08:32	50.00	50.00
GW0003	1101198-03	01/31/11 08:32	50.00	50.00
GW0003	1101198-04	01/31/11 08:32	50.00	50.00
GW0004	1101198-05	01/31/11 08:32	50.00	50.00
GW0004	1101198-06	01/31/11 08:32	50.00	50.00
Blank	1A31008-BLK1	01/31/11 08:32	50.00	50.00
Blank	1A31008-BLK1	01/31/11 08:32	50.00	50.00
LCS	1A31008-BS1	01/31/11 08:32	50.00	50.00
LCS	1A31008-BS1	01/31/11 08:32	50.00	50.00
GW0004	1A31008-DUP1	01/31/11 08:32	50.00	50.00
GW0004	1A31008-DUP1	01/31/11 08:32	50.00	50.00
GW0004	1A31008-DUP2	01/31/11 08:32	50.00	50.00
GW0004	1A31008-DUP2	01/31/11 08:32	50.00	50.00
GW0004	1A31008-MS1	01/31/11 08:32	50.00	50.00
GW0004	1A31008-MS2	01/31/11 08:32	50.00	50.00
GW0004	1A31008-MSD1	01/31/11 08:32	50.00	50.00
GW0004	1A31008-MSD2	01/31/11 08:32	50.00	50.00
GW0004	1A31008-PS1	01/31/11 08:32	20.00	20.00
GW0004	1A31008-PS2	01/31/11 08:32	20.00	20.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03412	Instrument:	ME-ICP
Calibration:	1038003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B03412-CAL1	020211A-001	02/02/11 10:33
Cal Standard	1B03412-CAL1	020211A-001	02/02/11 10:33
Cal Standard	1B03412-CAL2	020211A-002	02/02/11 10:37
Cal Standard	1B03412-CAL2	020211A-002	02/02/11 10:37
Cal Standard	1B03412-CAL3	020211A-003	02/02/11 10:42
Cal Standard	1B03412-CAL3	020211A-003	02/02/11 10:42
Cal Standard	1B03412-CAL4	020211A-004	02/02/11 10:46
Cal Standard	1B03412-CAL5	020211A-005	02/02/11 10:52
Cal Standard	1B03412-CAL5	020211A-005	02/02/11 10:52
Cal Standard	1B03412-CAL6	020211A-006	02/02/11 10:58
Cal Standard	1B03412-CAL6	020211A-006	02/02/11 10:58
Cal Standard	1B03412-CAL7	020211A-007	02/02/11 11:04
Cal Standard	1B03412-CAL8	020211A-008	02/02/11 11:09
Initial Cal Check	1B03412-ICV1	020211B-001	02/02/11 11:42
Initial Cal Check	1B03412-ICV1	020211B-001	02/02/11 11:42
Initial Cal Blank	1B03412-ICB1	020211B-002	02/02/11 11:49
Initial Cal Blank	1B03412-ICB1	020211B-002	02/02/11 11:49
Instrument RL Check	1B03412-CRL1	020211B-003	02/02/11 11:54
Instrument RL Check	1B03412-CRL1	020211B-003	02/02/11 11:54
Instrument RL Check	1B03412-CRL2	020211B-007	02/02/11 12:12
Interference Check A	1B03412-IFA1	020211B-008	02/02/11 12:18
Interference Check A	1B03412-IFA1	020211B-008	02/02/11 12:18
Interference Check B	1B03412-IFB1	020211B-010	02/02/11 12:32
Interference Check B	1B03412-IFB1	020211B-010	02/02/11 12:32
Calibration Check	1B03412-CCV1	020211C-002	02/02/11 12:43
Calibration Check	1B03412-CCV1	020211C-002	02/02/11 12:43
Calibration Blank	1B03412-CCB1	020211C-003	02/02/11 12:51
Calibration Blank	1B03412-CCB1	020211C-003	02/02/11 12:51
Calibration Check	1B03412-CCV3	020211C-035	02/02/11 15:30
Calibration Check	1B03412-CCV3	020211C-035	02/02/11 15:30
Calibration Blank	1B03412-CCB3	020211C-036	02/02/11 15:37
Calibration Blank	1B03412-CCB3	020211C-036	02/02/11 15:37

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03412	Instrument:	ME-ICP
Calibration:	1038003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1A31008-BLK1	020211C-037	02/02/11 15:42
Blank	1A31008-BLK1	020211C-037	02/02/11 15:42
LCS	1A31008-BS1	020211C-038	02/02/11 15:47
LCS	1A31008-BS1	020211C-038	02/02/11 15:47
GW0001	1101162-01	020211C-042	02/02/11 16:07
GW0001	1101162-03	020211C-043	02/02/11 16:12
GW0017	1101181-01	020211C-044	02/02/11 16:16
GW0032	1101181-02	020211C-045	02/02/11 16:21
GW0017	1101181-04	020211C-046	02/02/11 16:26
GW0032	1101181-05	020211C-047	02/02/11 16:30
Calibration Check	1B03412-CCV4	020211C-049	02/02/11 16:40
Calibration Check	1B03412-CCV4	020211C-049	02/02/11 16:40
Calibration Blank	1B03412-CCB4	020211C-050	02/02/11 16:48
Calibration Blank	1B03412-CCB4	020211C-050	02/02/11 16:48
GW0002	1101198-01	020211C-053	02/02/11 17:02
GW0002	1101198-02	020211C-054	02/02/11 17:06
GW0003	1101198-03	020211C-055	02/02/11 17:11
GW0003	1101198-04	020211C-056	02/02/11 17:15
GW0004	1101198-05	020211C-057	02/02/11 17:20
GW0004	1A31008-MS1	020211C-058	02/02/11 17:24
GW0004	1A31008-MSD1	020211C-059	02/02/11 17:29
GW0004	1A31008-PS1	020211C-060	02/02/11 17:33
GW0004	1A31008-DUP1	020211C-061	02/02/11 17:39
GW0004	1A31008-DUP1	020211C-061	02/02/11 17:39
GW0004	1101198-06	020211C-062	02/02/11 17:43
GW0004	1A31008-MS2	020211C-063	02/02/11 17:48
GW0004	1A31008-MSD2	020211C-064	02/02/11 17:52
GW0004	1A31008-PS2	020211C-065	02/02/11 17:57
GW0004	1A31008-DUP2	020211C-066	02/02/11 18:02
GW0004	1A31008-DUP2	020211C-066	02/02/11 18:02
Calibration Check	1B03412-CCV5	020211C-068	02/02/11 18:12
Calibration Check	1B03412-CCV5	020211C-068	02/02/11 18:12

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03412	Instrument:	ME-ICP
Calibration:	1038003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	1B03412-CCB5	020211C-069	02/02/11 18:20
Calibration Blank	1B03412-CCB5	020211C-069	02/02/11 18:20

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038003	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/2/2011 11:53:52AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	1.9214E-05	10000	1.9739E-05			500000	1.97856E-05		
Antimony	0	0	100	0.0007929	1000	8.7006E-04					10000	8.2834E-04
Arsenic	0	0	100	0.0003596	1000	3.9755E-04					10000	3.8522E-04
Barium	0	0	50	0.0123402	1000	0.012194	5000	0.0120078				
Beryllium	0	0	100	0.0020016	1000	0.001977					10000	0.0019214
Boron	0	0	50	0.0000114	1000	1.216E-05					5000	1.169E-05
Cadmium	0	0	100	0.0099787	1000	0.010223					10000	0.0093927
Calcium	0	0	1100	2.894545E-05	50000	2.8614E-05					10000	
Chromium	0	0	100	0.0000254	1000	2.423E-05					10000	2.4137E-05
Cobalt	0	0	100	0.0055478	1000	0.0056488					10000	0.0055154
Copper	0	0	100	0.000088	1000	8.313E-05					10000	7.8744E-05
Iron	0	0	5100	1.170588E-05	10000	1.1436E-05			500000	1.10498E-05	10000	
Lead	0	0	100	0.0012625	1000	0.0012935					10000	0.0012551
Magnesium	0	0	5100		50000	1.3006E-06			500000	1.35612E-06	10000	
Manganese	0	0	100	0.0001841	1000	1.7769E-04	10000	1.7539E-04			10000	
Molybdenum	0	0	100	0.0043992	1000	0.0046929					10000	0.0045742
Nickel	0	0	100	0.0033679	1000	0.003407					10000	0.0033364
Potassium	0	0	1000	1.054E-05	10000	1.1379E-05						
Selenium	0	0	100	0.0004632	1000	0.0004832					10000	4.4911E-04
Silver	0	0	20	0.000048	500	4.712E-05	2000	4.7835E-05				
Sodium	0	0	1000		50000	4.565E-05						
Strontium	0	0	100	0.001609	1000	0.00158					10000	0.001544
Thallium	0	0	100	0.0008395	1000	0.0008703					10000	8.525699E-04
Tin	0	0	50	0.0011438	1000	0.0012271					5000	0.0012151
Titanium	0	0	100	0.0001883	1000	1.8518E-04					10000	1.8715E-04
Vanadium	0	0	100	0.0000364	1000	3.525E-05					10000	3.4837E-05
Zinc	0	0	100	0.0038816	1000	0.0040579					10000	0.0039503
Aluminum	0	0	5000	1.9214E-05	10000	1.9739E-05			500000	1.97856E-05		
Antimony	0	0	100	0.0007929	1000	8.7006E-04					10000	8.2834E-04
Arsenic	0	0	100	0.0003596	1000	3.9755E-04					10000	3.8522E-04
Barium	0	0	50	0.0123402	1000	0.012194	5000	0.0120078				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038003	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/2/2011 11:53:52AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0020016	1000	0.001977					10000	0.0019214
Boron	0	0	50	0.0000114	1000	1.216E-05					5000	1.169E-05
Cadmium	0	0	100	0.0099787	1000	0.010223					10000	0.0093927
Calcium	0	0	1100	2.894545E-05	50000	2.8614E-05					10000	
Chromium	0	0	100	0.0000254	1000	2.423E-05					10000	2.4137E-05
Cobalt	0	0	100	0.0055478	1000	0.0056488					10000	0.0055154
Copper	0	0	100	0.000088	1000	8.313E-05					10000	7.8744E-05
Iron	0	0	5100	1.170588E-05	10000	1.1436E-05			500000	1.10498E-05	10000	
Lead	0	0	100	0.0012625	1000	0.0012935					10000	0.0012551
Magnesium	0	0	5100		50000	1.3006E-06			500000	1.35612E-06	10000	
Manganese	0	0	100	0.0001841	1000	1.7769E-04	10000	1.7539E-04			10000	
Molybdenum	0	0	100	0.0043992	1000	0.0046929					10000	0.0045742
Nickel	0	0	100	0.0033679	1000	0.003407					10000	0.0033364
Potassium	0	0	1000	1.054E-05	10000	1.1379E-05						
Selenium	0	0	100	0.0004632	1000	0.0004832					10000	4.4911E-04
Silver	0	0	20	0.000048	500	4.712E-05	2000	4.7835E-05				
Sodium	0	0	1000		50000	4.565E-05						
Strontium	0	0	100	0.001609	1000	0.00158					10000	0.001544
Thallium	0	0	100	0.0008395	1000	0.0008703					10000	8.525699E-04
Tin	0	0	50	0.0011438	1000	0.0012271					5000	0.0012151
Titanium	0	0	100	0.0001883	1000	1.8518E-04					10000	1.8715E-04
Vanadium	0	0	100	0.0000364	1000	3.525E-05					10000	3.4837E-05
Zinc	0	0	100	0.0038816	1000	0.0040579					10000	0.0039503

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038003	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/2/2011 11:53:52AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	2.8222E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.3412E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.1403E-05										
Selenium												
Silver												
Sodium	100000	4.4793E-05	500000	4.5962E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038003	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/2/2011 11:53:52AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	2.8222E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.3412E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.1403E-05										
Selenium												
Silver												
Sodium	100000	4.4793E-05	500000	4.5962E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038003	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/2/2011 11:53:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.468465E-05	66.69003	6.790918	183.8513	0.9999999		0.998	
Antimony	6.22825E-04	66.85866	3.958707	170.7603	0.9999712		0.998	
Arsenic	2.855925E-04	66.89601	16.38403	193.4206	0.999987		0.998	
Barium	0.0091355	66.6833	1.178765	157.0501	0.9999905		0.998	
Beryllium	0.001475	66.70545	8.330363	189.8158	0.9999925		0.998	
Boron	8.8125E-06	66.76131	7.595762	187.0754	0.9999287		0.998	
Cadmium	0.0073986	66.83277	0.4072075	128.8634	0.9999304		0.998	
Calcium	2.144536E-05	66.68094	1.01743	121.9973	0.9999982		0.998	
Chromium	1.844175E-05	66.73947	80.90271	198.2615	0.9999998		0.998	
Cobalt	0.004178	66.68053	3.134965	182.7572	0.9999944		0.998	
Copper	6.24685E-05	66.94079	1.08752	120.7005	0.9999772		0.998	
Iron	8.547921E-06	66.74103	2.084635	147.2073	0.9999996		0.998	
Lead	9.52775E-04	66.68952	10.32164	194.1261	0.9999909		0.998	
Magnesium	9.9948E-07	66.70798	16.63161	193.7735	0.9999852		0.998	
Manganese	1.34295E-04	66.72313	7.099268	190.4087	0.9999986		0.998	
Molybdenum	3.416575E-03	66.7601	4.954715	190.9753	0.9999922		0.998	
Nickel	2.527825E-03	66.67645	1.439345	171.5322	0.9999961		0.998	
Potassium	8.3305E-06	66.84047	3.10904	171.3044	0.9999998		0.998	
Selenium	3.488775E-04	66.7871	10.77715	193.0202	0.999947		0.998	
Silver	3.573875E-05	66.67523	9.565382	189.5152	0.9999832		0.998	
Sodium	3.410125E-05	66.68242	1.756465	81.79408	0.9999714		0.998	
Strontium	1.18325E-03	66.70452	7.248125	188.5907	0.9999952		0.998	
Thallium	6.405925E-04	66.69578	2.568265	165.1734	0.999995		0.998	
Tin	0.0008965	66.7927	7.950905	186.4179	0.999994		0.998	
Titanium	1.401575E-04	66.673	13.45015	195.6138	0.9999988		0.998	
Vanadium	2.662175E-05	66.71293	4.45613	178.986	0.9999991		0.998	
Zinc	2.97245E-03	66.71133	43.89862	199.1582	0.999992		0.998	
Aluminum	1.468465E-05	66.69003	6.790918	183.8513	0.9999999		0.998	
Antimony	6.22825E-04	66.85866	3.958707	170.7603	0.9999712		0.998	
Arsenic	2.855925E-04	66.89601	16.38403	193.4206	0.999987		0.998	
Barium	0.0091355	66.6833	1.178765	157.0501	0.9999905		0.998	
Beryllium	0.001475	66.70545	8.330363	189.8158	0.9999925		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038003	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/2/2011 11:53:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	8.8125E-06	66.76131	7.595762	187.0754	0.9999287		0.998	
Cadmium	0.0073986	66.83277	0.4072075	128.8634	0.9999304		0.998	
Calcium	2.144536E-05	66.68094	1.01743	121.9973	0.9999982		0.998	
Chromium	1.844175E-05	66.73947	80.90271	198.2615	0.9999998		0.998	
Cobalt	0.004178	66.68053	3.134965	182.7572	0.9999944		0.998	
Copper	6.24685E-05	66.94079	1.08752	120.7005	0.9999772		0.998	
Iron	8.547921E-06	66.74103	2.084635	147.2073	0.9999996		0.998	
Lead	9.52775E-04	66.68952	10.32164	194.1261	0.9999909		0.998	
Magnesium	9.9948E-07	66.70798	16.63161	193.7735	0.9999852		0.998	
Manganese	1.34295E-04	66.72313	7.099268	190.4087	0.9999986		0.998	
Molybdenum	3.416575E-03	66.7601	4.954715	190.9753	0.9999922		0.998	
Nickel	2.527825E-03	66.67645	1.439345	171.5322	0.9999961		0.998	
Potassium	8.3305E-06	66.84047	3.10904	171.3044	0.9999998		0.998	
Selenium	3.488775E-04	66.7871	10.77715	193.0202	0.999947		0.998	
Silver	3.573875E-05	66.67523	9.565382	189.5152	0.9999832		0.998	
Sodium	3.410125E-05	66.68242	1.756465	81.79408	0.9999714		0.998	
Strontium	1.18325E-03	66.70452	7.248125	188.5907	0.9999952		0.998	
Thallium	6.405925E-04	66.69578	2.568265	165.1734	0.999995		0.998	
Tin	0.0008965	66.7927	7.950905	186.4179	0.999994		0.998	
Titanium	1.401575E-04	66.673	13.45015	195.6138	0.9999988		0.998	
Vanadium	2.662175E-05	66.71293	4.45613	178.986	0.9999991		0.998	
Zinc	2.97245E-03	66.71133	43.89862	199.1582	0.999992		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0001

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101162-01
Sampled:	01/25/11 12:57	Received:	01/26/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1A28005	01/31/11 16:30
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U	SM4500S2CF	1A31016	01/31/11 18:39
NA	Alkalinity, Bicarbonate (as CACO3)	147	1.00	1.00	1.00	1		SM2320B	1A31031	02/01/11 13:39
16887-00-6	Chloride	13.8	0.170	0.330	1.00	1	M	E300.0	1A26034	01/26/11 23:23
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1A31031	02/01/11 13:39
14797-55-8	Nitrate as N	0.0460	0.0330	0.100	0.200	1	J	E300.0	1A26034	01/26/11 23:23
14808-79-8	Sulfate as SO4	33.6	0.330	1.00	2.00	1	X	E300.0	1A26034	01/26/11 23:23

ANALYSIS DATA SHEET

GW0017

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-01
Sampled:	01/26/11 13:25	Received:	01/27/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B11026	02/11/11 15:28
18496-25-8	Sulfide		0.714	1.79	3.57	0.71	U	SM4500S2CF	1A31016	01/31/11 18:40
NA	Alkalinity, Bicarbonate (as CACO3)	104	1.00	1.00	1.00	1		SM2320B	1A31031	02/01/11 13:58
16887-00-6	Chloride	7.99	0.170	0.330	1.00	1	M	E300.0	1A27018	01/27/11 19:20
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1A31031	02/01/11 13:58
14797-55-8	Nitrate as N	0.209	0.0330	0.100	0.200	1		E300.0	1A27018	01/27/11 19:20
14808-79-8	Sulfate as SO4	28.6	0.330	1.00	2.00	1		E300.0	1A27018	01/27/11 19:20

ANALYSIS DATA SHEET

GW0032

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-02
Sampled:	01/26/11 11:29	Received:	01/27/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B11026	02/11/11 15:29
18496-25-8	Sulfide		0.690	1.72	3.45	0.68	U	SM4500S2CF	1A31016	01/31/11 18:40
NA	Alkalinity, Bicarbonate (as CACO3)	161	1.00	1.00	1.00	1	N	SM2320B	1A31031	02/01/11 14:12
16887-00-6	Chloride	26.7	0.170	0.330	1.00	1	M	E300.0	1A27018	01/27/11 19:38
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1A31031	02/01/11 14:12
14797-55-8	Nitrate as N	0.0510	0.0330	0.100	0.200	1	J	E300.0	1A27018	01/27/11 19:38
14808-79-8	Sulfate as SO4	39.4	0.330	1.00	2.00	1		E300.0	1A27018	01/27/11 19:38

ANALYSIS DATA SHEET

GW0002

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-01
Sampled:	01/27/11 14:45	Received:	01/28/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	0.0596	0.0500	0.150	0.200	1	J	SM4500NH3BG	1B15018	02/15/11 16:32
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U	SM4500S2CF	1B03408	02/03/11 17:46
NA	Alkalinity, Bicarbonate (as CACO3)	116	1.00	1.00	1.00	1		SM2320B	1B02021	02/03/11 13:10
16887-00-6	Chloride	17.9	0.170	0.330	1.00	1	M	E300.0	1A28010	01/28/11 15:04
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B02021	02/03/11 13:10
14797-55-8	Nitrate as N	0.639	0.0330	0.100	0.200	1		E300.0	1A28010	01/28/11 15:04
14808-79-8	Sulfate as SO4	42.0	0.330	1.00	2.00	1		E300.0	1A28010	01/28/11 15:04

ANALYSIS DATA SHEET

GW0003

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Waste Water
Sampled: 01/27/11 12:56
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101198-03
Received: 01/28/11 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.0500	0.150	0.200	1	U	SM4500NH3BG	1B15018	02/15/11 16:33
18496-25-8	Sulfide		0.727	1.82	3.64	0.73	U	SM4500S2CF	1B03408	02/03/11 17:47
NA	Alkalinity, Bicarbonate (as CACO3)	85.8	1.00	1.00	1.00	1		SM2320B	1B02021	02/03/11 13:30
16887-00-6	Chloride	106	0.170	0.330	1.00	1	M	E300.0	1A28010	01/28/11 16:14
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B02021	02/03/11 13:30
14797-55-8	Nitrate as N	3.46	0.0330	0.100	0.200	1		E300.0	1A28010	01/28/11 16:14
14808-79-8	Sulfate as SO4	177	0.330	1.00	2.00	1		E300.0	1A28010	01/28/11 16:14

ANALYSIS DATA SHEET

GW0004

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-05
Sampled:	01/27/11 10:10	Received:	01/28/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.0500	0.150	0.200	1	U	SM4500NH3BG	1B15018	02/15/11 16:34
18496-25-8	Sulfide		0.702	1.75	3.51	0.7	U	SM4500S2CF	1B03408	02/03/11 17:47
NA	Alkalinity, Bicarbonate (as CACO3)	93.1	1.00	1.00	1.00	1		SM2320B	1B02021	02/03/11 13:39
16887-00-6	Chloride	47.1	0.170	0.330	1.00	1	M	E300.0	1A28010	01/28/11 16:31
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B02021	02/03/11 13:39
14797-55-8	Nitrate as N	3.03	0.0330	0.100	0.200	1		E300.0	1A28010	01/28/11 16:31
14808-79-8	Sulfate as SO4	96.2	0.330	1.00	2.00	1		E300.0	1A28010	01/28/11 16:31

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
0J29503-ICV1	Chloride	4.800	4.639	96.6	mg/L	+/- 10.00%
	Nitrate as N	3.616	3.531	97.6	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.53	98.0	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 1031002
Sequence: 1A03116

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1A03116-ICV1	Ammonia as N	2.000	2.179	109	mg/L	+/- 10.00%
1A03116-CCV1	Ammonia as N	2.000	2.191	110	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1A03120

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1A03120-CCV1	Chloride	25.00	26.68	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.602	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.60	106	mg/L	+/- 10.00%
1A03120-CCV2	Chloride	25.00	26.63	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.586	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	27.26	109	mg/L	+/- 10.00%
1A03120-CCV3	Chloride	25.00	26.48	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.553	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.66	107	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B03813

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B03813-CCV1	Chloride	25.00	26.51	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.563	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.38	106	mg/L	+/- 10.00%
1B03813-CCV2	Chloride	25.00	26.48	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.552	102	mg/L	+/- 10.00%
	Sulfate as SO4	**25.00**	**27.71**	**111**	**mg/L**	+/- 10.00%
1B03813-CCV3	Chloride	25.00	26.50	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.567	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.22	105	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 1042002
Sequence: 1B04215

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04215-ICV1	Ammonia as N	2.000	2.148	107	mg/L	+/- 10.00%
1B04215-CCV1	Ammonia as N	2.000	2.136	107	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04612

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04612-CCV1	Chloride	25.00	26.70	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.596	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.70	107	mg/L	+/- 10.00%
1B04612-CCV2	Chloride	25.00	26.96	108	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.607	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.61	106	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 1046003
Sequence: 1B04620

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04620-ICV1	Ammonia as N	2.000	2.187	109	mg/L	+/- 10.00%
1B04620-CCV1	Ammonia as N	2.000	2.173	109	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
0J29503-CRL2	Chloride	1.000	0.8730	87.3	mg/L	75 - 125
	Nitrate as N	0.1000	0.09500	95.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.023	102	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1A03120

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1A03120-CRL1	Chloride	1.000	0.9280	92.8	mg/L	75 - 125
	Nitrate as N	0.1000	0.09600	96.0	mg/L	75 - 125
1A03120-CRL2	Sulfate as SO4	1.000	1.241	124	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1B03813

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B03813-CRL1	Chloride	1.000	0.8970	89.7	mg/L	75 - 125
	Nitrate as N	0.1000	0.09600	96.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.068	107	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1B04612

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04612-CRL1	Chloride	1.000	0.8940	89.4	mg/L	75 - 125
	Nitrate as N	0.1000	0.09600	96.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.093	109	mg/L	75 - 125

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1A26034

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A26034-BLK1	Chloride	0.362	0.170	0.500	mg/L	J	E300.0
	Nitrate as N	0.0180	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0900	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1A27018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A27018-BLK1	Chloride	-0.0660	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1A28005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A28005-BLK1	Ammonia as N	-0.00255	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1A28010

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A28010-BLK1	Chloride	-0.104	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1A31016

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A31016-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1A31031

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A31031-BLK1	Alkalinity, Total (as CACO3)	-0.817	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B02021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B02021-BLK1	Alkalinity, Total (as CACO3)	0.817	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B03408

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B03408-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B11026

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B11026-BLK1	Ammonia as N	0.0242	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B15018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B15018-BLK1	Ammonia as N	0.00242	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0J29503
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
0J29503-ICB1	Chloride	0.01700	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.000	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.08000	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1A03116
Calibration: 1031002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A03116-ICB1	Ammonia as N	-0.01020	0.110	0.300	mg/L	U	SM4500NH3BG
1A03116-CCB1	Ammonia as N	-0.0168	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1A03120
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A03120-CCB1	Chloride	-0.100	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1A03120-CCB2	Chloride	-0.0310	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.130	0.330	2.00	mg/L	U	E300.0
1A03120-CCB3	Chloride	-0.0810	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03813
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B03813-CCB1	Chloride	0.354	0.170	0.500	mg/L	J	E300.0
	Nitrate as N	0.0180	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0900	0.330	2.00	mg/L	U	E300.0
1B03813-CCB2	Chloride	0.351	0.170	0.500	mg/L	J	E300.0
	Nitrate as N	0.0180	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.179	0.330	2.00	mg/L	U	E300.0
1B03813-CCB3	Chloride	0.366	0.170	0.500	mg/L	J	E300.0
	Nitrate as N	0.0190	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0980	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04215
Calibration: 1042002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04215-ICB1	Ammonia as N	-0.01917	0.110	0.300	mg/L	U	SM4500NH3BG
1B04215-CCB1	Ammonia as N	-0.0186	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04612
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04612-CCB1	Chloride	-0.0680	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1B04612-CCB2	Chloride	-0.0610	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04620
Calibration: 1046003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04620-ICB1	Ammonia as N	-0.01197	0.110	0.300	mg/L	U	SM4500NH3BG
1B04620-CCB1	Ammonia as N	-0.0142	0.110	0.300	mg/L	U	SM4500NH3BG

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0002

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1A28010

% Solids:

Source Sample Name: **1101198-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	17.89	44.99	97.6		80 - 120
Nitrate as N	2.778	0.6390	3.276	94.9		80 - 120
Sulfate as SO4	27.78	41.97	68.69	96.2		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	47.36	106	5.13		20	80 - 120
Nitrate as N	2.778	3.504	103	6.75		20	80 - 120
Sulfate as SO4	27.78	70.74	104	2.93		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0032

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1A31031

% Solids:

Source Sample Name: **1101181-02**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	160.9	326.8	149	N	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	325.9	148	0.278	N	20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0032

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B11026

% Solids:

Source Sample Name: **1101181-02**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	ND	4.828	96.6		75 - 125

GW0002

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1A28010
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0002

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1A28010-DUP1
Lab Source ID: 1101198-01
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	17.9	17.86	0.134		E300.0
Nitrate as N	20	0.639	0.6400	0.156		E300.0
Sulfate as SO4	20	42.0	41.98	0.0119		E300.0

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A26034	Laboratory ID:	1A26034-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.950	103	90 - 110
Nitrate as N	3.616	3.685	102	90 - 110
Sulfate as SO4	24.00	25.50	106	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A27018	Laboratory ID:	1A27018-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.963	103	90 - 110
Nitrate as N	3.616	3.694	102	90 - 110
Sulfate as SO4	24.00	25.38	106	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A28005	Laboratory ID:	1A28005-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.914	98.3	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A28010	Laboratory ID:	1A28010-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.960	103	90 - 110
Nitrate as N	3.616	3.687	102	90 - 110
Sulfate as SO4	24.00	25.35	106	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A31016	Laboratory ID:	1A31016-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1413	1150	81.4	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1413	1133	80.2	1.50	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A31031	Laboratory ID:	1A31031-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1044	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B02021	Laboratory ID:	1B02021-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1048	105	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B03408	Laboratory ID:	1B03408-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1413	1150	81.4	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1413	1133	80.2	1.46	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11026	Laboratory ID:	1B11026-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.903	98.1	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15018	Laboratory ID:	1B15018-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	5.094	102	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_001

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:**

Analyte	MDL	MRL	Units	Method
Alkalinity, Bicarbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Alkalinity, Carbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Sulfide	0.800	4.00	mg/L	SM4500S2CF

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_001

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-IC

Analyte	MDL	MRL	Units	Method
Chloride	0.170	0.500	mg/L	E300.0
Nitrate as N	0.0330	0.200	mg/L	E300.0
Sulfate as SO4	0.330	2.00	mg/L	E300.0

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: WC-Lachat

Analyte	MDL	MRL	Units	Method
Ammonia as N	0.110	0.300	mg/L	SM4500NH3BG

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A26034 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	01/26/11 17:51	5.00	5.00
GW0001	1101162-01	01/26/11 17:51	5.00	5.00
Blank	1A26034-BLK1	01/26/11 17:51	5.00	5.00
LCS	1A26034-BS1	01/26/11 17:51	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A27018 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0017	1101181-01	01/27/11 15:58	5.00	5.00
GW0017	1101181-01	01/27/11 15:58	5.00	5.00
GW0032	1101181-02	01/27/11 15:58	5.00	5.00
GW0032	1101181-02	01/27/11 15:58	5.00	5.00
Blank	1A27018-BLK1	01/27/11 15:58	5.00	5.00
LCS	1A27018-BS1	01/27/11 15:58	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A28005 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	01/28/11 09:19	100.00	100.00
Blank	1A28005-BLK1	01/28/11 09:19	100.00	100.00
LCS	1A28005-BS1	01/28/11 09:19	100.00	100.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A28010 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0002	1101198-01	01/28/11 10:30	5.00	5.00
GW0002	1101198-01	01/28/11 10:30	5.00	5.00
GW0003	1101198-03	01/28/11 10:30	5.00	5.00
GW0003	1101198-03	01/28/11 10:30	5.00	5.00
GW0004	1101198-05	01/28/11 10:30	5.00	5.00
GW0004	1101198-05	01/28/11 10:30	5.00	5.00
Blank	1A28010-BLK1	01/28/11 10:30	5.00	5.00
LCS	1A28010-BS1	01/28/11 10:30	5.00	5.00
GW0002	1A28010-DUP1	01/28/11 10:30	5.00	5.00
GW0002	1A28010-MS1	01/28/11 10:30	22.50	25.00
GW0002	1A28010-MSD1	01/28/11 10:30	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A31016 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	01/31/11 12:57	290.00	200.00
GW0017	1101181-01	01/31/11 12:57	280.00	200.00
GW0032	1101181-02	01/31/11 12:57	290.00	200.00
Blank	1A31016-BLK1	01/31/11 12:57	250.00	200.00
LCS	1A31016-BS1	01/31/11 12:57	3.00	250.00
LCS Dup	1A31016-BSD1	01/31/11 12:57	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A31031 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	02/01/11 08:30	25.00	25.00
GW0017	1101181-01	02/01/11 08:30	25.00	25.00
GW0032	1101181-02	02/01/11 08:30	25.00	25.00
Blank	1A31031-BLK1	02/01/11 08:30	25.00	25.00
LCS	1A31031-BS1	02/01/11 08:30	5.00	25.00
GW0032	1A31031-MS1	02/01/11 08:30	22.50	25.00
GW0032	1A31031-MSD1	02/01/11 08:30	22.50	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B02021 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0002	1101198-01	02/03/11 08:00	25.00	25.00
GW0003	1101198-03	02/03/11 08:00	25.00	25.00
GW0004	1101198-05	02/03/11 08:00	25.00	25.00
Blank	1B02021-BLK1	02/03/11 08:00	25.00	25.00
LCS	1B02021-BS1	02/03/11 08:00	5.00	25.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B03408 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0002	1101198-01	02/03/11 13:24	270.00	200.00
GW0003	1101198-03	02/03/11 13:24	275.00	200.00
GW0004	1101198-05	02/03/11 13:24	285.00	200.00
Blank	1B03408-BLK1	02/03/11 13:24	250.00	200.00
LCS	1B03408-BS1	02/03/11 13:24	3.00	250.00
LCS Dup	1B03408-BSD1	02/03/11 13:24	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B11026 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0017	1101181-01	02/11/11 11:00	100.00	100.00
GW0032	1101181-02	02/11/11 11:00	100.00	100.00
Blank	1B11026-BLK1	02/11/11 11:00	100.00	100.00
LCS	1B11026-BS1	02/11/11 11:00	100.00	100.00
GW0032	1B11026-MS1	02/11/11 11:00	100.00	100.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15018 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0002	1101198-01	02/15/11 15:00	100.00	100.00
GW0003	1101198-03	02/15/11 15:00	100.00	100.00
GW0004	1101198-05	02/15/11 15:00	100.00	100.00
Blank	1B15018-BLK1	02/15/11 15:00	100.00	100.00
LCS	1B15018-BS1	02/15/11 15:00	100.00	100.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1A31031-BLK1	020111-004	02/01/11 09:50
LCS	1A31031-BS1	020111-003	02/01/11 11:41
GW0032	1A31031-MS1	020111-025	02/01/11 14:31
GW0032	1A31031-MSD1	020111-026	02/01/11 15:02
Blank	1B02021-BLK1	020311-004	02/03/11 09:42
LCS	1B02021-BS1	020311-003	02/03/11 09:58

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1A31016-BLK1	013111-004	01/31/11 18:18
LCS Dup	1A31016-BSD1	013111-003	01/31/11 18:37
LCS	1A31016-BS1	013111-002	01/31/11 18:37
Blank	1B03408-BLK1	020311-004	02/03/11 17:45
LCS	1B03408-BS1	020311-002	02/03/11 17:56
LCS Dup	1B03408-BSD1	020311-003	02/03/11 17:57

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0J29503	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0J29503-CAL1	102110curve-057	10/21/10 10:28
Cal Standard	0J29503-CAL2	102110curve-058	10/21/10 10:45
Cal Standard	0J29503-CAL3	102110curve-059	10/21/10 11:02
Cal Standard	0J29503-CAL4	102110curve-060	10/21/10 11:20
Cal Standard	0J29503-CAL5	102110curve-061	10/21/10 11:37
Cal Standard	0J29503-CAL6	102110curve-062	10/21/10 11:55
Cal Standard	0J29503-CAL7	102110curve-063	10/21/10 12:12
Cal Standard	0J29503-CAL8	102110curve-064	10/21/10 12:29
Initial Cal Check	0J29503-ICV1	102110curve-065	10/21/10 12:47
Initial Cal Blank	0J29503-ICB1	102110curve-066	10/21/10 13:04
Instrument RL Check	0J29503-CRL2	102110curve-068	10/21/10 13:39

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A03116	Instrument:	WC-Lachat
Calibration:	1031002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1A03116-CAL1	M_1-31-2011_04-16-19PM-00	01/31/11 16:17
Cal Standard	1A03116-CAL2	M_1-31-2011_04-16-19PM-00	01/31/11 16:18
Cal Standard	1A03116-CAL3	M_1-31-2011_04-16-19PM-00	01/31/11 16:19
Cal Standard	1A03116-CAL5	M_1-31-2011_04-16-19PM-00	01/31/11 16:20
Cal Standard	1A03116-CAL4	M_1-31-2011_04-16-19PM-00	01/31/11 16:20
Cal Standard	1A03116-CAL6	M_1-31-2011_04-16-19PM-00	01/31/11 16:21
Cal Standard	1A03116-CAL7	M_1-31-2011_04-16-19PM-00	01/31/11 16:22
Cal Standard	1A03116-CAL8	M_1-31-2011_04-16-19PM-00	01/31/11 16:23
Initial Cal Check	1A03116-ICV1	M_1-31-2011_04-16-19PM-00	01/31/11 16:24
Initial Cal Blank	1A03116-ICB1	M_1-31-2011_04-16-19PM-01	01/31/11 16:25
Blank	1A28005-BLK1	M_1-31-2011_04-16-19PM-01	01/31/11 16:26
LCS	1A28005-BS1	M_1-31-2011_04-16-19PM-01	01/31/11 16:27
GW0001	1101162-01	M_1-31-2011_04-16-19PM-01	01/31/11 16:30
Calibration Check	1A03116-CCV1	M_1-31-2011_04-16-19PM-01	01/31/11 16:31
Calibration Blank	1A03116-CCB1	M_1-31-2011_04-16-19PM-01	01/31/11 16:32

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A03120	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1A03120-CCV1	012811-002	01/28/11 11:18
Calibration Blank	1A03120-CCB1	012811-003	01/28/11 11:35
Instrument RL Check	1A03120-CRL1	012811-005	01/28/11 12:10
LCS	1A28010-BS1	012811-006	01/28/11 12:27
Blank	1A28010-BLK1	012811-007	01/28/11 12:45
Instrument RL Check	1A03120-CRL2	012811-012	01/28/11 14:12
Calibration Check	1A03120-CCV2	012811-013	01/28/11 14:29
Calibration Blank	1A03120-CCB2	012811-014	01/28/11 14:46
GW0002	1101198-01	012811-015	01/28/11 15:04
GW0002	1A28010-MS1	012811-016	01/28/11 15:21
GW0002	1A28010-MSD1	012811-017	01/28/11 15:39
GW0002	1A28010-DUP1	012811-018	01/28/11 15:56
GW0003	1101198-03	012811-019	01/28/11 16:14
GW0004	1101198-05	012811-020	01/28/11 16:31
Calibration Check	1A03120-CCV3	012911-002	01/29/11 13:17
Calibration Blank	1A03120-CCB3	012911-003	01/29/11 13:35

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03813	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B03813-CCV1	012611-002	01/26/11 19:02
Calibration Blank	1B03813-CCB1	012611-003	01/26/11 19:19
Instrument RL Check	1B03813-CRL1	012611-004	01/26/11 19:37
LCS	1A26034-BS1	012611-005	01/26/11 19:54
Blank	1A26034-BLK1	012611-006	01/26/11 20:11
Calibration Check	1B03813-CCV2	012611-014	01/26/11 22:31
Calibration Blank	1B03813-CCB2	012611-015	01/26/11 22:48
GW0001	1101162-01	012611-017	01/26/11 23:23
Calibration Check	1B03813-CCV3	012611-028	01/27/11 02:34
Calibration Blank	1B03813-CCB3	012611-029	01/27/11 02:52

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04215	Instrument:	WC-Lachat
Calibration:	1042002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B04215-CAL1	M_2-11-2011_03-07-13PM-00	02/11/11 15:08
Cal Standard	1B04215-CAL2	M_2-11-2011_03-07-13PM-00	02/11/11 15:09
Cal Standard	1B04215-CAL3	M_2-11-2011_03-07-13PM-00	02/11/11 15:10
Cal Standard	1B04215-CAL4	M_2-11-2011_03-07-13PM-00	02/11/11 15:11
Cal Standard	1B04215-CAL5	M_2-11-2011_03-07-13PM-00	02/11/11 15:12
Cal Standard	1B04215-CAL6	M_2-11-2011_03-07-13PM-00	02/11/11 15:13
Cal Standard	1B04215-CAL7	M_2-11-2011_03-07-13PM-00	02/11/11 15:14
Cal Standard	1B04215-CAL8	M_2-11-2011_03-07-13PM-00	02/11/11 15:15
Initial Cal Check	1B04215-ICV1	M_2-11-2011_03-07-13PM-00	02/11/11 15:16
Initial Cal Blank	1B04215-ICB1	M_2-11-2011_03-07-13PM-01	02/11/11 15:17
Blank	1B11026-BLK1	M_2-11-2011_03-07-13PM-02	02/11/11 15:26
LCS	1B11026-BS1	M_2-11-2011_03-07-13PM-02	02/11/11 15:27
GW0017	1101181-01	M_2-11-2011_03-07-13PM-02	02/11/11 15:28
GW0032	1101181-02	M_2-11-2011_03-07-13PM-02	02/11/11 15:29
GW0032	1B11026-MS1	M_2-11-2011_03-07-13PM-02	02/11/11 15:30
Calibration Check	1B04215-CCV1	M_2-11-2011_03-07-13PM-02	02/11/11 15:31
Calibration Blank	1B04215-CCB1	M_2-11-2011_03-07-13PM-02	02/11/11 15:32

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04612	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04612-CCV1	012711-002	01/27/11 17:53
Calibration Blank	1B04612-CCB1	012711-003	01/27/11 18:11
Instrument RL Check	1B04612-CRL1	012711-004	01/27/11 18:28
LCS	1A27018-BS1	012711-005	01/27/11 18:46
Blank	1A27018-BLK1	012711-006	01/27/11 19:03
GW0017	1101181-01	012711-007	01/27/11 19:20
GW0032	1101181-02	012711-008	01/27/11 19:38
Calibration Check	1B04612-CCV2	012711-009	01/27/11 19:55
Calibration Blank	1B04612-CCB2	012711-010	01/27/11 20:13

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04620	Instrument:	WC-Lachat
Calibration:	1046003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B04620-CAL1	M_2-15-2011_04-19-55PM-00	02/15/11 16:21
Cal Standard	1B04620-CAL2	M_2-15-2011_04-19-55PM-00	02/15/11 16:22
Cal Standard	1B04620-CAL3	M_2-15-2011_04-19-55PM-00	02/15/11 16:23
Cal Standard	1B04620-CAL4	M_2-15-2011_04-19-55PM-00	02/15/11 16:24
Cal Standard	1B04620-CAL5	M_2-15-2011_04-19-55PM-00	02/15/11 16:25
Cal Standard	1B04620-CAL7	M_2-15-2011_04-19-55PM-00	02/15/11 16:26
Cal Standard	1B04620-CAL6	M_2-15-2011_04-19-55PM-00	02/15/11 16:26
Cal Standard	1B04620-CAL8	M_2-15-2011_04-19-55PM-00	02/15/11 16:27
Initial Cal Check	1B04620-ICV1	M_2-15-2011_04-19-55PM-00	02/15/11 16:28
Initial Cal Blank	1B04620-ICB1	M_2-15-2011_04-19-55PM-01	02/15/11 16:29
Blank	1B15018-BLK1	M_2-15-2011_04-19-55PM-01	02/15/11 16:30
LCS	1B15018-BS1	M_2-15-2011_04-19-55PM-01	02/15/11 16:31
GW0002	1101198-01	M_2-15-2011_04-19-55PM-01	02/15/11 16:32
GW0003	1101198-03	M_2-15-2011_04-19-55PM-01	02/15/11 16:33
GW0004	1101198-05	M_2-15-2011_04-19-55PM-01	02/15/11 16:34
Calibration Check	1B04620-CCV1	M_2-15-2011_04-19-55PM-02	02/15/11 16:40
Calibration Blank	1B04620-CCB1	M_2-15-2011_04-19-55PM-02	02/15/11 16:41