ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_003

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

SUBMITTAL TO:
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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.

As per the client, SW8270C to be analyzed on extra 1L Diesel Range Organic bottle received for sample GW0033. Sample GW0033 was received outside of the EPA recommended holding time for Nitrate as N; however, as per the client the sample is to be analyzed and qualified. No sample containers were received for the sample listed on the CoC as GW0023; however, sample containers were received with sample IDs listed as GW0021 which was not listed on the CoC. As per the client, the sample containers with the ID GW0021 are the sample ID GW0023.

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 initial calibration verification 1B04204-ICV1 exceeded criteria with a positive bias

for Dichlorodifluoromethane.

The batch spikes associated to batch 1B14003 exceeded criteria with a negative bias for 2,2-Dichloropropane and with a positive bias for Bromodichloromethane. The batch spikes associated to batches 1B15001 and 1B15004 exceeded criteria with a positive bias for Bromodichloromethane. The batch spikes associated to batch 1B15006 exceeded recovery criteria with a positive bias for Bromodichloromethane and exceeded relative percent difference criteria for Bromomethane.

The matrix spikes associated to sample 1102088-03 exceeded criteria with a positive bias for Bromodichloromethane and Dichlorodifluoromethane.

The method blanks 1B12004-BLK1, 1B14003-BLK1, 1B15004-BLK1, and 1B15006-BLK1 have positive results for Hexachlorobutadiene.

The continuing calibration verifications exceeded criteria in 1B04509-CCV1 with a positive bias for Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Dibromomethane, Dichlorodifluoromethane, 1,2-Dichloroethane, Methyl t-Butyl Ether, 1,2,3-Trichlorobenzene, and 1,1,1-Trichloroethane, in 1B04609-CCV1 with a positive bias for Acetone, Bromoform, 1,3-Dichlorobenzene, Dichlorodifluoromethane, 1,2-Dichloroethane, 2-Hexanone, Naphthalene, 4-Methyl-2-pentanone, and 1,2,3-Trichlorobenzene, in 1B04702-CCV1 with a positive bias for Acetone, Bromodichloromethane, Dichlorodifluoromethane, 4-Methyl-2-pentanone, and 1,1,1,2-Tetrachloroethane, in 1B04703-CCV1 with a positive bias for Bromodichloromethane, Bromoform, Dichlorodifluoromethane, and 1,1,1,2-Tetrachloroethane, and in 1B04705-CCV1 exceeded criteria with a positive bias for Acetone, Dichlorodifluoromethane, 1,2-Dichloroethane, and 4-Methyl-2-pentanone.

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

SW8270C:
The batch spikes associated to batch 1B11003 exceeded recovery criteria with a positive bias for Butylbenzylphthalate and 4-Nitroaniline, with a negative bias for Caprolactam, Hexachlorobutadiene, and Hexachloroethane and exceeded relative percent difference criteria for Hexachlorobutadiene and Hexachlorocyclopentadiene.

The continuing calibration verification 1B04714-CCV1 exceeded criteria with a negative bias for Benzaldehyde and Benzidine and with a positive bias for 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, 4-Nitroaniline, and Pyrene.

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:
No anomalies or deviations are noted.

SW8011 EDB:
No anomalies or deviations are noted.

SW6010B:
The continuing calibration verification 1B04817-CCV4 exceeded criteria with a positive bias for Sodium.

The matrix spikes associated to sample 1102088-03 exceeded criteria for Calcium, Magnesium and Sodium; however, the concentration for these compounds in the parent sample were greater than 4 times the amount spiked.

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

Wet Chemistry:
Samples 1102062-01, -03, -06, 1102063-01, 1102076-01, -03, 1102088-01, -03, 1102097-01, and -02 are qualified with an M for Chloride to indicate that the LOQ was raised due to interference.

Sample 1102063-01 was received after the EPA recommended holding time for Nitrate as N.

The continuing calibration blank 1B04809-CCB2 has a positive result for Chloride.

The matrix spikes associated to sample 1102088-03 exceeded criteria with a negative bias for Sulfide. The matrix spikes associated to sample 1102063-01 exceeded criteria with a positive bias for Alkalinity, Total (as CACO3).

The matrix spike duplicate associated to sample 1101211-01 exceeded criteria with a positive bias for Chloride.

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.

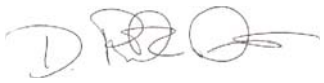
BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible 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-GW009

10

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

Samples Shipment Date: 07 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182313

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 Env. Date: 2-7-2011 Time: 1800
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) 2.6°C Date: 2-8-11 Time: 08:45

Comments:

1102062

	Sample No	Sample Name	Sample Date	Sample Time	Container	Qtr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-02	GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by			N		

KIRTLAND_003 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW009

1102062

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								SW846 6010C					
-61	GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-63	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-63	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-06	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-07	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-06	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-05	GW8009-TB	FIELDQC-BW-GW8009-TB-TB	07 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

AP 2-8-11

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102062 Number of Coolers: 1 of 2

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

Date/Time Received: 2·8·11 08:45 Date cooler(s) opened: 2·8·11

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: 7319

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

How many: 1 Seal date: 2·7·11 Seal Initials: ML

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: 2.9 °C Correction Factor: -0.3 °C Final Value: 2.6 °C

Dates samples were logged-in: 2-8-11

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

· ph > 9 for all sulfides

CP 2-9-11

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: K0206~~8~~2 Number of Coolers: 2 of 2

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

Date/Time Received: 2·8·11 08:45 Date cooler(s) opened: 2·8·11

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: 2313

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

How many: 1 Seal date: 2·7·11 Seal Initials: ML

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: 2.5 °C Correction Factor: -0.3 °C Final Value: 2.2 °C

Dates samples were logged-in: See 1 of 2

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____
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: _____

Kim Kostzer

From: Moss, Pamela J [pamela.moss@shawgrp.com]
Sent: Thursday, February 10, 2011 11:33 AM
To: kkostzer@empirlabs.com
Subject: SVOC analysis required on 2 samples for Kirtland

Kim ,
Plz check immediately if we are able to run 8270 analysis on the 1-L, DRO sample container for these 2 samples submitted to lab. Plz run the sample GW0033 ASAP to meet the extraction HT. Thx.

106045 – GW0034 sample date 1/28
106044 – GW0033 sample date 2/4

Pam

Pamela Moss
Program Manager
Shaw Environmental & Infrastructure, Inc.
7604 Technology Way, Ste. 300
Denver, CO 80237
Office 720-554-8252
Cell 303-810-6903
pamela.moss@shawgrp.com

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Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW008

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

Samples Shipment Date: 04 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182254

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 _ Radiological _ Unknown _

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

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental — Date: 2/4/11 Time: 1730
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: 2/8/11 Time: 0810:15
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: 2-8-11 Time: 08:45

Comments: CP 2/8/11

110206#3

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02	GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

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1102063

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW008

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-02 GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01 GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-03 GW8008-TB	FIELDQC-BW-GW8008-TB-TB	04 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

CD 2/8/11

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 11020683 Number of Coolers: 1 of 1

Client: Shaw Project: Kirtland AFB

Date/Time Received: 2/8/11 08:45 Date cooler(s) opened: 2/8/11 10:15

Opened By (print): CAT (signature): CAT

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: 872 6791 82254

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

How many: 1 Seal date: 2/4/11 Seal Initials: ML

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: 0.1 °C Correction Factor: -0.3 °C Final Value: -0.2 °C

Dates samples were logged-in: 2/8/11

9. Initial this form to acknowledge login of sample(s): (Name): CAT (Initial): CAT

*Samples Not frozen.

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 → Bubbles in TB only (CAT)

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

· ph < 2 for all ammonia & metals.
· ph > 9 for sulfide

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW010

18

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

Samples Shipment Date: 08 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182302

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 Radiological Unknown

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

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Env. Date: 2/8/2011 Time: 1800
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) 2.0°C Date: 2-9-11 Time: 08:30

Comments:

1102076

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
-02 GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by			Y		

KIRTLAND_003 Summ Package

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1162076

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW010

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-02	GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	250 mL HDPE	1	HNO3<pH 2	SW846 6010C Dissolved Iron and Manganese by SW846 6010C			N		
-01	GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-03	GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-04	GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
~~-04~~ -03	GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
	GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-05	GW8001-AB	FIELDQC-BW-GW8001-AB-AB	08 FEB 2011	10:55	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-06	GW8001-RB	FIELDQC-BW-GW8001-RB-ER	08 FEB 2011	08:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW8001-RB	FIELDQC-BW-GW8001-RB-ER	08 FEB 2011	08:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW8001-RB	FIELDQC-BW-GW8001-RB-ER	08 FEB 2011	08:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW8001-RB	FIELDQC-BW-GW8001-RB-ER	08 FEB 2011	08:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-07	GW8001-RB	FIELDQC-BW-GW8001-RB-ER	08 FEB 2011	08:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW8001-RB	FIELDQC-BW-GW8001-RB-ER	08 FEB 2011	08:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-08	GW8010-TB	FIELDQC-BW-GW8010-TB-TB	08 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102076

Number of Coolers: 1 of 2

Client: Shaw E&I

Project: Kirtland AFB

Date/Time Received: 2-9-11/08:30

Date cooler(s) opened: 2-9-11

Opened By (print): Chris Donald

(signature): [signature]

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: 0695

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

How many: 1 Seal date: 2-8-11 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: 2.3 °C Correction Factor: -0.3 °C Final Value: 2.0 °C

Dates samples were logged-in: 2-9-11

9. Initial this form to acknowledge login of sample(s): (Name): Chris Donald (Initial) CD
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 & metal samples

ph >9 for all sulfides

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102076

Client: Shaw E&I

Number of Coolers: 1 of 2

Project: Kirtland AFB

Date/Time Received: 2-9-11/08:30

Date cooler(s) opened: 2-9-11

Opened By (print): Chris Donald

(signature): [signature]

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: 2302

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

How many 1 Seal date: 2-8-11 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: 1.8 °C Correction Factor: -0.3 °C Final Value: 1.5 °C

Dates samples were logged-in: 2-9-11

9. Initial this form to acknowledge login of sample(s): (Name): Chris Donald (Initial): CD
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: _____

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW012

22

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

Samples Shipment Date: 10 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182287

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 Radiological Unknown

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

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental Date: 2/10/11 Time: 1800
1. Received By (Signature/Affiliation) Date: Time:
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) [signature] Date: 2-11-11 Time: 08:45

Comments:

1102088

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-02	GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA			N		

KIRTLAND_003 Summ Package

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW012

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							300, Alkalinity by SM2320B					
-02 GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01 GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-03 GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-04 GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-03 GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04 GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-03 GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-04 GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03 GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW012

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-02	GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04	GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03	GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
-05	GW8012-TB	FIELDQC-BW-GW8012-TB-TB	10 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102088

Client: SHAW E&I INC

Number of Coolers: 1 of 2

Project: KIRTLAND AFB

Date/Time Received: 2-11-11 08:45

Date cooler(s) opened: 2-11-11

Opened By (print): Russ Townend

(signature): [signature]

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: 2287

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

How many: 1 Seal date: 2-10-11 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: 1.4 °C Correction Factor: -0.3 °C Final Value: 1.1 °C

Dates samples were logged-in: 2-11-11

9. Initial this form to acknowledge login of sample(s): (Name): [signature] (Initial): [signature]
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

CP 2-11-11 No samples received for CN 0029. GW021 Samples recieved with matching time stamp but not present on COC

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

pH 2 for all ammonia + metals samples CP 2-11-11

pH >2 for all solids

2 CP 2-11-11

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108088

Number of Coolers: 2 of 2

Client: Shaw E+I INC

Project: Kirtland AFB

Date/Time Received: 2·11·11 08:45

Date cooler(s) opened: 2·11·11

Opened By (print): Russ Townsend

(signature): [signature]

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: 0333

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

How many: 1 Seal date: 2·10·11 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: 2.3 °C Correction Factor: -0.3 °C Final Value: 2.0 °C

Dates samples were logged-in: 2-11-11

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

Broken GW0026-MSD TPH as Diesel

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

See 1 of 2

CP 2-11-11

Kim Kostzer

From: Moss, Pamela J [pamela.moss@shawgrp.com]
Sent: Monday, February 14, 2011 12:16 PM
To: kkostzer@empirlabs.com
Subject: RE: Prelim SRC for samples received 2/11/11

Hi Kim,
GW0023 is for sample KAFB10621 that is correct. I wonder if they screwed up the sample labels.? Also anions are nitrate, chloride and sulfate as usual.
Did you send a SRB for the samples we collected on 2/8 and 2/9 ?? if so plz resend thx.

From: Kim Kostzer [mailto:kkostzer@empirlabs.com]
Sent: Monday, February 14, 2011 8:41 AM
To: Moss, Pamela J
Cc: Lyon, Mark; George, Lisa
Subject: Prelim SRC for samples received 2/11/11

Please see attached Prelim SRC for samples received on 2/11/11 for SDG Kirtland_003. Note that the COC sample ID GW0023 was not indicated on any containers received. We did receive containers that said GW0021 with the same sample dates and times indicated on COC for GW0023. Can you please let me know what the correct sample ID should be. Currently they are logged in as per COC. In addition, I noticed that the coc's have indicted Nitrate only for Anions. Is this correct, or should it be both nitrate/nitrite?

Thank you,

Kim

Kim Kostzer
Project Manager
Empirical Laboratories, LLC
"Your National Small Business Partner"
621 Mainstream Drive, Suite 270 I Nashville, TN 37228 I www.empirlabs.com
Main: 615.345.1115 ext. 240 I Toll free: 877.345.1113 I Fax: 866.417.0548

Celebrating over 40 years of excellence, Empirical Laboratories is certified as a Woman-Owned Small Business and a Small Disadvantaged Business. Come visit our website at www.empirlabs.com today.

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http://www.shawgrp.com

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW011

28

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

Samples Shipment Date: 09 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182276

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 Radiological Unknown

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

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Env. Date: 2-9-2011 Time: 1730
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Empirical Lab Date: 2/10/11 Time: 1145
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments:

0.2°C

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
1020977-01 GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		

-01 -04 -01

KIRTLAND_003 Summ Package

Shaw
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW011

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
1102097-01	GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-05	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-05	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
-03	GW8011-TB	FIELDQC-BW-GW8011-TB-TB	09 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

2-14-11

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102097

Number of Coolers: 1 of 1

Client: Shaw E+I Inc.

Project: Kirtland AFB

Date/Time Received: 2.10.11 11:45

Date cooler(s) opened: 2.10.11

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: 2276

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

How many: 1 Seal date: 2.9.11 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: 0.5 °C Correction Factor: -0.3 °C Final Value: 0.2 °C

Dates samples were logged-in: 2-11-11

9. Initial this form to acknowledge login of sample(s): (Name): (Initial):
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 & metals samples

ph >9 for all sulfides

WORK ORDER

1102062

Printed: 2/28/2011 3:32:31PM

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: 03/01/2011 16:00 (15 day TAT)

Received By: Chris Donald

Logged In By: Chris Donald

Date Received: 02/08/2011 08:45

Date Logged In 02/08/2011 10:07

Samples Received at: **2.6°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

1102062

Printed: 2/28/2011 3:32:31PM

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
1102062-01 GW0014 [Water] Sampled 02/07/2011 11:15 Central					
E300.0	02/24/2011 14:00	15	02/09/2011 11:15		Nitrate
E300.0	02/24/2011 14:00	15	03/07/2011 11:15		Chloride, Sulfate
SM4500NH3BG	02/24/2011 14:00	15	03/07/2011 11:15		
SM2320B	02/24/2011 14:00	15	02/21/2011 11:15		
SW8260B	02/24/2011 14:00	15	02/21/2011 11:15		
SW8015B	02/24/2011 14:00	15	02/21/2011 11:15		
SW8011	02/24/2011 14:00	15	02/21/2011 11:15		
SW8015B	02/24/2011 14:00	15	02/14/2011 11:15		
SW6010B	02/24/2011 14:00	15	08/06/2011 11:15		Ca, Pb, K, Na, Mg
SM4500S2CF	02/24/2011 14:00	15	02/14/2011 11:15		
1102062-02 GW0014 [Water] Sampled 02/07/2011 11:15 Central					**Field Filtered and Preserved.**
SW6010B	02/24/2011 14:00	15	08/06/2011 11:15		Fe & Mn, Field Filtered and Preserved.
1102062-03 GW0028 [Water] Sampled 02/07/2011 15:16 Central					
SW8015B	02/24/2011 14:00	15	02/14/2011 15:16		
E300.0	02/24/2011 14:00	15	02/09/2011 15:16		Nitrate
SM4500S2CF	02/24/2011 14:00	15	02/14/2011 15:16		
SM4500NH3BG	02/24/2011 14:00	15	03/07/2011 15:16		
SM2320B	02/24/2011 14:00	15	02/21/2011 15:16		
SW8260B	02/24/2011 14:00	15	02/21/2011 15:16		
E300.0	02/24/2011 14:00	15	03/07/2011 15:16		Chloride, Sulfate
SW8011	02/24/2011 14:00	15	02/21/2011 15:16		
SW6010B	02/24/2011 14:00	15	08/06/2011 15:16		Ca, Pb, K, Na, Mg
SW8015B	02/24/2011 14:00	15	02/21/2011 15:16		

WORK ORDER

1102062

Printed: 2/28/2011 3:32:31PM

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
1102062-04 GW0028 [Water] Sampled 02/07/2011 15:16 Central					**Field Filtered and Preserved.**
SW6010B	02/24/2011 14:00	15	08/06/2011 15:16		Fe & Mn, Field Filtered and Preserved.
1102062-05 GW8009-TB [Water] Sampled 02/07/2011 08:00 Central					
SW8260B	02/24/2011 14:00	15	02/21/2011 08:00		
1102062-06 GW0029 [Water] Sampled 02/07/2011 15:16 Central					
SW8011	02/24/2011 14:00	15	02/21/2011 15:16		
SW8015B	02/24/2011 14:00	15	02/14/2011 15:16		
SW8015B	02/24/2011 14:00	15	02/21/2011 15:16		
SW8260B	02/24/2011 14:00	15	02/21/2011 15:16		
SM2320B	02/24/2011 14:00	15	02/21/2011 15:16		
SM4500NH3BG	02/24/2011 14:00	15	03/07/2011 15:16		
E300.0	02/24/2011 14:00	15	03/07/2011 15:16		Chloride, Sulfate
E300.0	02/24/2011 14:00	15	02/09/2011 15:16		Nitrate
SM4500S2CF	02/24/2011 14:00	15	02/14/2011 15:16		
SW6010B	02/24/2011 14:00	15	08/06/2011 15:16		Ca, Pb, K, Na, Mg
1102062-07 GW0028 [Water] Sampled 02/07/2011 15:16 Central					**Field Filtered and Preserved.**
SW6010B	02/24/2011 14:00	15	08/06/2011 15:16		Fe & Mn, Field Filtered and Preserved.

WORK ORDER

1102063

Printed: 2/28/2011 3:33:04PM

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: 03/01/2011 16:00 (15 day TAT)
Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/08/2011 08:45
Date Logged In 02/08/2011 10:33

Samples Received at: **-0.2°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

1102063

Printed: 2/28/2011 3:33:04PM

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
1102063-01 GW0033 [Water] Sampled 02/04/2011 12:55 Central					**Nitrate received Out Of Hold**
SM4500S2CF	02/24/2011 14:00	15	02/11/2011 12:55		
E300.0	02/24/2011 14:00	15	02/06/2011 12:55		Nitrate
E300.0	02/24/2011 14:00	15	03/04/2011 12:55		Chloride, Sulfate
SM4500NH3BG	02/24/2011 14:00	15	03/04/2011 12:55		
SM2320B	02/24/2011 14:00	15	02/18/2011 12:55		
SW8260B	02/24/2011 14:00	15	02/18/2011 12:55		
SW8015B	02/24/2011 14:00	15	02/18/2011 12:55		
SW8270C	02/24/2011 14:00	15	02/11/2011 12:55		use extra DRO container
SW8011	02/24/2011 14:00	15	02/18/2011 12:55		
SW8015B	02/24/2011 14:00	15	02/11/2011 12:55		
SW6010B	02/24/2011 14:00	15	08/03/2011 12:55		Ca, Pb, K, Na, Mg
1102063-02 GW0033 [Water] Sampled 02/04/2011 12:55 Central					**Field Filtered and Preserved.**
SW6010B	02/24/2011 14:00	15	08/03/2011 12:55		Fe & Mn, Field Filtered and Preserved.
1102063-03 GW8008-TB [Water] Sampled 02/04/2011 08:00 Central					
SW8260B	02/24/2011 14:00	15	02/18/2011 08:00		

WORK ORDER

1102076

Printed: 2/28/2011 3:33:31PM

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: 03/02/2011 16:00 (15 day TAT)
Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/09/2011 08:45
Date Logged In 02/09/2011 16:02

Samples Received at: **2°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

1102076

Printed: 2/28/2011 3:33:31PM

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
1102076-01 GW0025 [Water] Sampled 02/08/2011 12:04 Central					
SW8015B	03/02/2011 14:00	15	02/15/2011 12:04		
SW8011	03/02/2011 14:00	15	02/22/2011 12:04		
SW8015B	03/02/2011 14:00	15	02/22/2011 12:04		
SW8260B	03/02/2011 14:00	15	02/22/2011 12:04		
SM2320B	03/02/2011 14:00	15	02/22/2011 12:04		
SM4500NH3BG	03/02/2011 14:00	15	03/08/2011 12:04		
E300.0	03/02/2011 14:00	15	03/08/2011 12:04		Chloride, Sulfate
E300.0	03/02/2011 14:00	15	02/10/2011 12:04		Nitrate
SM4500S2CF	03/02/2011 14:00	15	02/15/2011 12:04		
SW6010B	03/02/2011 14:00	15	08/07/2011 12:04		Ca, Pb, K, Na, Mg
1102076-02 GW0025 [Water] Sampled 02/08/2011 12:04 Central					**Field Filtered and Preserved.**
SW6010B	03/02/2011 14:00	15	08/07/2011 12:04		Fe & Mn, Field Filtered and Preserved.
1102076-03 GW0027 [Water] Sampled 02/08/2011 16:08 Central					
SW8260B	03/02/2011 14:00	15	02/22/2011 16:08		
SW6010B	03/02/2011 14:00	15	08/07/2011 16:08		Ca, Pb, K, Na, Mg
SW8015B	03/02/2011 14:00	15	02/15/2011 16:08		
SW8015B	03/02/2011 14:00	15	02/22/2011 16:08		
SM2320B	03/02/2011 14:00	15	02/22/2011 16:08		
SM4500NH3BG	03/02/2011 14:00	15	03/08/2011 16:08		
E300.0	03/02/2011 14:00	15	03/08/2011 16:08		Chloride, Sulfate
E300.0	03/02/2011 14:00	15	02/10/2011 16:08		Nitrate
SM4500S2CF	03/02/2011 14:00	15	02/15/2011 16:08		
SW8011	03/02/2011 14:00	15	02/22/2011 16:08		

WORK ORDER

1102076

Printed: 2/28/2011 3:33:31PM

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
1102076-04 GW0027 [Water] Sampled 02/08/2011 16:08 Central					**Field Filtered and Preserved.**
SW6010B	03/02/2011 14:00	15	08/07/2011 16:08		Fe & Mn, Field Filtered and Preserved.
1102076-05 GW8001-AB [Water] Sampled 02/08/2011 10:55 Central					
SW8260B	03/02/2011 14:00	15	02/22/2011 10:55		
1102076-06 GW8001-RB [Water] Sampled 02/08/2011 08:45 Central					
SW6010B	03/02/2011 14:00	15	08/07/2011 08:45		Ca, Pb, K, Na, Mg
SW8015B	03/02/2011 14:00	15	02/15/2011 08:45		
SW8015B	03/02/2011 14:00	15	02/22/2011 08:45		
SW8260B	03/02/2011 14:00	15	02/22/2011 08:45		
1102076-07 GW8001-RB [Water] Sampled 02/08/2011 08:45 Central					**Field Filtered and Preserved.**
SW6010B	03/02/2011 14:00	15	08/07/2011 08:45		Fe & Mn, Field Filtered and Preserved.
1102076-08 GW8010-TB [Water] Sampled 02/08/2011 08:00 Central					
SW8260B	03/02/2011 14:00	15	02/22/2011 08:00		

WORK ORDER

1102088

Printed: 2/28/2011 3:33:57PM

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: 03/04/2011 16:00 (15 day TAT)
Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/11/2011 08:45
Date Logged In 02/11/2011 11:35

Samples Received at: **2°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

1102088

Printed: 2/28/2011 3:33:57PM

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
1102088-01 GW0023 [Water] Sampled 02/10/2011 14:48 Central					
SM4500S2CF	03/01/2011 14:00	15	02/17/2011 14:48		
SW8015B	03/01/2011 14:00	15	02/17/2011 14:48		
SW8011	03/01/2011 14:00	15	02/24/2011 14:48		
SW8015B	03/01/2011 14:00	15	02/24/2011 14:48		
SW8260B	03/01/2011 14:00	15	02/24/2011 14:48		
SM2320B	03/01/2011 14:00	15	02/24/2011 14:48		
SM4500NH3BG	03/01/2011 14:00	15	03/10/2011 14:48		
E300.0	03/01/2011 14:00	15	03/10/2011 14:48		Chloride, Sulfate
SW6010B	03/01/2011 14:00	15	08/09/2011 14:48		Ca, Pb, K, Na, Mg
E300.0	03/01/2011 14:00	15	02/12/2011 14:48		Nitrate
1102088-02 GW0023 [Water] Sampled 02/10/2011 14:48 Central					**Field Filtered and Preserved.**
SW6010B	03/01/2011 14:00	15	08/09/2011 14:48		Fe & Mn, Field Filtered and Preserved.
1102088-03 GW0026 [Water] Sampled 02/10/2011 10:35 Central					**MS/MSD**
SM4500S2CF	03/01/2011 14:00	15	02/17/2011 10:35		MS/MSD
SW6010B	03/01/2011 14:00	15	08/09/2011 10:35		Ca, Pb, K, Na, Mgm MS/MSD
SW8015B	03/01/2011 14:00	15	02/17/2011 10:35		MS/MSD
SW8011	03/01/2011 14:00	15	02/24/2011 10:35		MS/MSD
SW8015B	03/01/2011 14:00	15	02/24/2011 10:35		MS/MSD
SW8260B	03/01/2011 14:00	15	02/24/2011 10:35		MS/MSD
SM2320B	03/01/2011 14:00	15	02/24/2011 10:35		MS/MSD
SM4500NH3BG	03/01/2011 14:00	15	03/10/2011 10:35		MS/MSD
E300.0	03/01/2011 14:00	15	03/10/2011 10:35		Chloride, Sulfate, MS/MSD
E300.0	03/01/2011 14:00	15	02/12/2011 10:35		Nitrate, MS/MSD

WORK ORDER

1102088

Printed: 2/28/2011 3:33:57PM

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
1102088-04 GW0026 [Water] Sampled 02/10/2011 10:35 Central					**Field Filtered and Preserved.**
SW6010B	03/01/2011 14:00	15	08/09/2011 10:35		Fe & Mn, Field Filtered and Preserved.
1102088-05 GW8012-TB [Water] Sampled 02/10/2011 08:00 Central					
SW8260B	03/01/2011 14:00	15	02/24/2011 08:00		

WORK ORDER

1102097

Printed: 2/28/2011 3:34:18PM

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: 03/03/2011 16:00 (15 day TAT)
Received By: Sonya Gordon
Logged In By: Sonya Gordon

Date Received: 02/10/2011 11:45
Date Logged In 02/11/2011 16:01

Samples Received at: **0.2°C**

Custody Seals	No	Received On Ice	No
Containers Intact	No		
COC/Labels Agree	No		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102097

Printed: 2/28/2011 3:34:18PM

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
1102097-01 GW0024 [Water] Sampled 02/09/2011 11:48 US Mountain					
SW8015B	02/28/2011 14:00	15	02/16/2011 12:48		
SW8011	02/28/2011 14:00	15	02/23/2011 12:48		
SW8015B	02/28/2011 14:00	15	02/23/2011 12:48		
SW8260B	02/28/2011 14:00	15	02/23/2011 12:48		
SM2320B	02/28/2011 14:00	15	02/23/2011 12:48		
SM4500NH3BG	02/28/2011 14:00	15	03/09/2011 13:48		
E300.0	02/28/2011 14:00	15	03/09/2011 13:48		Chloride/sulfate
E300.0	02/28/2011 14:00	15	02/11/2011 12:48		Nitrate
SM4500S2CF	02/28/2011 14:00	15	02/16/2011 12:48		
SW6010B	02/28/2011 14:00	15	08/08/2011 13:48		Ca, Pb, K, Na, Mg
1102097-02 GW0030 [Water] Sampled 02/09/2011 14:52 US Mountain					
SW8011	02/28/2011 14:00	15	02/23/2011 15:52		
SW8015B	02/28/2011 14:00	15	02/16/2011 15:52		
SW8015B	02/28/2011 14:00	15	02/23/2011 15:52		
SW8260B	02/28/2011 14:00	15	02/23/2011 15:52		
SM2320B	02/28/2011 14:00	15	02/23/2011 15:52		
SM4500NH3BG	02/28/2011 14:00	15	03/09/2011 16:52		
E300.0	02/28/2011 14:00	15	03/09/2011 16:52		Chloride/Sulfate
E300.0	02/28/2011 14:00	15	02/11/2011 15:52		Nitrate
SM4500S2CF	02/28/2011 14:00	15	02/16/2011 15:52		
SW6010B	02/28/2011 14:00	15	08/08/2011 16:52		Ca, Pb, K, Na, Mg
1102097-03 GW8011-TB [Water] Sampled 02/09/2011 08:00 US Mountain					
SW8260B	02/28/2011 14:00	15	02/23/2011 09:00		

WORK ORDER

1102097

Printed: 2/28/2011 3:34:18PM

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
1102097-04 GW0024 [Water] Sampled 02/09/2011 11:48 US Mountain					**Field Filtered and Preserved**
SW6010B	02/28/2011 14:00	15	08/08/2011 13:48		Fe & Mn,Field Filtered and Preserved
1102097-05 GW0030 [Water] Sampled 02/09/2011 14:52 US Mountain					**Field Filtered and Preserved**
SW6010B	02/28/2011 14:00	15	08/08/2011 16:52		Fe & Mn, Field Filtered and Preserved

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: kirtland_003
MATRIX: Water

QC LEVEL: EDD/IVQSM
Report Due: 3/1/2011
Client Sample Count: 23

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B	SW8011	SW8015B	SW8260B	SW8270C
Client Sample	2/7/2011	2/8/2011	1102062-01	GW0014	X	X	X	X	X	X	X	X	
Client Sample	2/7/2011	2/8/2011	1102062-02	GW0014					Field Filtered and Preserved.				
Client Sample	2/7/2011	2/8/2011	1102062-03	GW0028	X	X	X	X	X	X	X	X	
Client Sample	2/7/2011	2/8/2011	1102062-04	GW0028					Field Filtered and Preserved.				
Trip Blank	2/7/2011	2/8/2011	1102062-05	GW8009-TB								X	
Client Sample	2/7/2011	2/8/2011	1102062-06	GW0029	X	X	X	X	X	X	X	X	
Client Sample	2/7/2011	2/8/2011	1102062-07	GW0028					Field Filtered and Preserved.				
Client Sample	2/4/2011	2/8/2011	1102063-01	GW0033	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold
Client Sample	2/4/2011	2/8/2011	1102063-02	GW0033					Field Filtered				
Trip Blank	2/4/2011	2/8/2011	1102063-03	GW8008-TB								X	
Client Sample	2/8/2011	2/9/2011	1102076-01	GW0025	X	X	X	X	X	X	X	X	
Client Sample	2/8/2011	2/9/2011	1102076-02	GW0025					Field Filtered and Preserved.				
Client Sample	2/8/2011	2/9/2011	1102076-03	GW0027	X	X	X	X	X	X	X	X	
Client Sample	2/8/2011	2/9/2011	1102076-04	GW0027					Field Filtered and Preserved.				
Client Sample	2/8/2011	2/9/2011	1102076-05	GW8001-AB								X	
Client Sample	2/8/2011	2/9/2011	1102076-06	GW8001-RB					X		X	X	
Client Sample	2/8/2011	2/9/2011	1102076-07	GW8001-RB					Field Filtered and Preserved.				
Trip Blank	2/8/2011	2/9/2011	1102076-08	GW8010-TB								X	
Client Sample	2/10/2011	2/11/2011	1102088-01	GW0023	X	X	X	X	X	X	X	X	
Client Sample	2/10/2011	2/11/2011	1102088-02	GW0023					Field Filtered				
Client Sample	2/10/2011	2/11/2011	1102088-03	GW0026	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	
Client Sample	2/10/2011	2/11/2011	1102088-04	GW0026					Field Filtered				
Trip Blank	2/10/2011	2/11/2011	1102088-05	GW8012-TB								X	
Client Sample	2/9/2011	2/10/2011	1102097-01	GW0024	X	X	X	X	X	X	X	X	
Client Sample	2/9/2011	2/10/2011	1102097-02	GW0030	X	X	X	X	X	X	X	X	
Trip Blank	2/9/2011	2/10/2011	1102097-03	GW8011-TB								X	
Client Sample	2/9/2011	2/10/2011	1102097-04	GW0024					Field Filtered and Preserved				
Client Sample	2/9/2011	2/10/2011	1102097-05	GW0030					Field Filtered and Preserved				

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0014

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-01	File ID:	0206201.D
Sampled:	02/07/11 11:15	Prepared:	02/12/11 00:00	Analyzed:	02/13/11 04:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	X, 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	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	X, 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	X, 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	X, 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

GW0014

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-01	File ID:	0206201.D
Sampled:	02/07/11 11:15	Prepared:	02/12/11 00:00	Analyzed:	02/13/11 04:33
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	6.16	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, 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	X, 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	32.63	109	75 - 120	
Dibromofluoromethane	30.00	32.63	109	85 - 115	
1,2-Dichloroethane-d4	30.00	30.17	101	70 - 120	
Toluene-d8	30.00	29.83	99.4	85 - 120	

ANALYSIS DATA SHEET

GW0028

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-03	File ID:	0206203.D
Sampled:	02/07/11 15:16	Prepared:	02/12/11 00:00	Analyzed:	02/13/11 05:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	X, 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	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	X, 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	X, 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	X, 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

GW0028

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-03	File ID:	0206203.D
Sampled:	02/07/11 15:16	Prepared:	02/12/11 00:00	Analyzed:	02/13/11 05:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	5.10	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, 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	X, 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	29.89	99.6	75 - 120	
Dibromofluoromethane	30.00	32.14	107	85 - 115	
1,2-Dichloroethane-d4	30.00	30.60	102	70 - 120	
Toluene-d8	30.00	26.90	89.7	85 - 120	

ANALYSIS DATA SHEET

GW8009-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-05	File ID:	0206205.D
Sampled:	02/07/11 08:00	Prepared:	02/12/11 00:00	Analyzed:	02/13/11 02:35
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	X, 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	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	X, 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	X, 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	X, 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

GW8009-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-05	File ID:	0206205.D
Sampled:	02/07/11 08:00	Prepared:	02/12/11 00:00	Analyzed:	02/13/11 02:35
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	X, 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	X, 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	29.36	97.9	75 - 120	
Dibromofluoromethane	30.00	31.99	107	85 - 115	
1,2-Dichloroethane-d4	30.00	30.58	102	70 - 120	
Toluene-d8	30.00	26.40	88.0	85 - 120	

ANALYSIS DATA SHEET

GW0029

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-06	File ID:	0206206.D
Sampled:	02/07/11 15:16	Prepared:	02/12/11 00:00	Analyzed:	02/13/11 05:32
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	X, 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	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	X, 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	X, 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	X, 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

GW0029

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-06	File ID:	0206206.D
Sampled:	02/07/11 15:16	Prepared:	02/12/11 00:00	Analyzed:	02/13/11 05:32
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	4.98	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, 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	X, 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	31.57	105	75 - 120	
Dibromofluoromethane	30.00	32.10	107	85 - 115	
1,2-Dichloroethane-d4	30.00	28.91	96.4	70 - 120	
Toluene-d8	30.00	29.36	97.9	85 - 120	

ANALYSIS DATA SHEET

GW0033

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-01	File ID:	0206301.D
Sampled:	02/04/11 12:55	Prepared:	02/12/11 00:00	Analyzed:	02/13/11 06:02
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	X, 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	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	X, 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	X, 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	X, 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

GW0033

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-01	File ID:	0206301.D
Sampled:	02/04/11 12:55	Prepared:	02/12/11 00:00	Analyzed:	02/13/11 06:02
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	8.79	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, 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	X, 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	31.15	104	75 - 120	
Dibromofluoromethane	30.00	31.61	105	85 - 115	
1,2-Dichloroethane-d4	30.00	29.85	99.5	70 - 120	
Toluene-d8	30.00	28.56	95.2	85 - 120	

ANALYSIS DATA SHEET

GW8008-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-03	File ID:	0206303.D
Sampled:	02/04/11 08:00	Prepared:	02/12/11 00:00	Analyzed:	02/13/11 03:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	X, 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	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	X, 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	X, 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	X, 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

GW8008-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-03	File ID:	0206303.D
Sampled:	02/04/11 08:00	Prepared:	02/12/11 00:00	Analyzed:	02/13/11 03:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	X, 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	X, 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	31.06	104	75 - 120	
Dibromofluoromethane	30.00	32.27	108	85 - 115	
1,2-Dichloroethane-d4	30.00	30.54	102	70 - 120	
Toluene-d8	30.00	28.70	95.7	85 - 120	

ANALYSIS DATA SHEET

GW0025

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-01	File ID:	0207601.D
Sampled:	02/08/11 12:04	Prepared:	02/14/11 00:00	Analyzed:	02/15/11 04:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 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	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	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	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	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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	X, 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	Q, 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

GW0025

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-01	File ID:	0207601.D
Sampled:	02/08/11 12:04	Prepared:	02/14/11 00:00	Analyzed:	02/15/11 04:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, 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	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, 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	8.18	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, 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	31.72	106	75 - 120	
Dibromofluoromethane	30.00	34.30	114	85 - 115	
1,2-Dichloroethane-d4	30.00	31.35	105	70 - 120	
Toluene-d8	30.00	27.56	91.9	85 - 120	

ANALYSIS DATA SHEET

GW0027

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-03	File ID:	0207603.D
Sampled:	02/08/11 16:08	Prepared:	02/14/11 00:00	Analyzed:	02/15/11 05:07
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 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	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	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	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	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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	X, 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	Q, 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

GW0027

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-03	File ID:	0207603.D
Sampled:	02/08/11 16:08	Prepared:	02/14/11 00:00	Analyzed:	02/15/11 05:07
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, 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	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, 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	9.09	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, 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	30.70	102	75 - 120	
Dibromofluoromethane	30.00	34.39	115	85 - 115	
1,2-Dichloroethane-d4	30.00	31.02	103	70 - 120	
Toluene-d8	30.00	28.20	94.0	85 - 120	

ANALYSIS DATA SHEET

GW8001-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-05	File ID:	0207605.D
Sampled:	02/08/11 10:55	Prepared:	02/14/11 00:00	Analyzed:	02/15/11 02:39
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 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	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	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	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	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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	X, 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	Q, 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-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-05	File ID:	0207605.D
Sampled:	02/08/11 10:55	Prepared:	02/14/11 00:00	Analyzed:	02/15/11 02:39
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, 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	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, 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	X, 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	29.72	99.1	75 - 120	
Dibromofluoromethane	30.00	31.13	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.47	102	70 - 120	
Toluene-d8	30.00	26.99	90.0	85 - 120	

ANALYSIS DATA SHEET

GW8001-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-06	File ID:	0207606.D
Sampled:	02/08/11 08:45	Prepared:	02/14/11 00:00	Analyzed:	02/15/11 01:10
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 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	0.600	0.250	0.500	1.00	J
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	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	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	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	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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	X, 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	Q, 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	0.332	0.250	0.500	1.00	J
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8001-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-06	File ID:	0207606.D
Sampled:	02/08/11 08:45	Prepared:	02/14/11 00:00	Analyzed:	02/15/11 01:10
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, 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	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, 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	2.52	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, 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	0.751	0.500	1.00	2.00	J
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	30.33	101	75 - 120	
Dibromofluoromethane	30.00	30.87	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.39	101	70 - 120	
Toluene-d8	30.00	27.49	91.6	85 - 120	

ANALYSIS DATA SHEET

GW8010-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-08	File ID:	0207608.D
Sampled:	02/08/11 08:00	Prepared:	02/14/11 00:00	Analyzed:	02/14/11 23:41
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 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	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	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	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	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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	X, 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	Q, 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

GW8010-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-08	File ID:	0207608.D
Sampled:	02/08/11 08:00	Prepared:	02/14/11 00:00	Analyzed:	02/14/11 23:41
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, 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	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, 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	X, 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	32.22	107	75 - 120	
Dibromofluoromethane	30.00	31.97	107	85 - 115	
1,2-Dichloroethane-d4	30.00	28.01	93.4	70 - 120	
Toluene-d8	30.00	29.46	98.2	85 - 120	

ANALYSIS DATA SHEET

GW0023

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-01	File ID:	0208801.D
Sampled:	02/10/11 14:48	Prepared:	02/15/11 00:00	Analyzed:	02/15/11 12:31
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

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	1.12	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	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	0.775	0.250	0.500	1.00	J
98-06-6	tert-Butylbenzene	0.415	0.250	0.500	1.00	J
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	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	X, 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

GW0023

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-01	File ID:	0208801.D
Sampled:	02/10/11 14:48	Prepared:	02/15/11 00:00	Analyzed:	02/15/11 12:31
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

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	7.53	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	X, 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	X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	11.5	0.250	0.500	1.00	
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	2.54	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	2.38	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene	4.75	0.500	1.00	2.00	
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	30.73	102	75 - 120	
Dibromofluoromethane	30.00	30.99	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.13	97.1	70 - 120	
Toluene-d8	30.00	30.31	101	85 - 120	

ANALYSIS DATA SHEET

GW0026

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-03	File ID:	0208803.D
Sampled:	02/10/11 10:35	Prepared:	02/15/11 00:00	Analyzed:	02/15/11 20:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

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	X, N, Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	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	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	N, X, 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	0.634	0.250	0.500	1.00	J, B

ANALYSIS DATA SHEET

GW0026

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-03	File ID:	0208803.D
Sampled:	02/10/11 10:35	Prepared:	02/15/11 00:00	Analyzed:	02/15/11 20:54
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

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	X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	10.9	0.250	0.500	1.00	
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	31.09	104	75 - 120	
Dibromofluoromethane	30.00	31.36	105	85 - 115	
1,2-Dichloroethane-d4	30.00	31.34	104	70 - 120	
Toluene-d8	30.00	30.62	102	85 - 120	

ANALYSIS DATA SHEET

GW8012-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-05	File ID:	0208805.D
Sampled:	02/10/11 08:00	Prepared:	02/15/11 00:00	Analyzed:	02/15/11 10:02
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

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	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	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	X, 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	0.599	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

GW8012-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-05	File ID:	0208805.D
Sampled:	02/10/11 08:00	Prepared:	02/15/11 00:00	Analyzed:	02/15/11 10:02
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

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	X, 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	X, 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	31.50	105	75 - 120	
Dibromofluoromethane	30.00	30.94	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.88	99.6	70 - 120	
Toluene-d8	30.00	30.61	102	85 - 120	

ANALYSIS DATA SHEET

GW0024

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-01	File ID:	0209701.D
Sampled:	02/09/11 11:48	Prepared:	02/15/11 00:00	Analyzed:	02/15/11 13:32
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 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	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Q, 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	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)	1.11	0.250	0.500	1.00	
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	X, 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	X, 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

GW0024

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-01	File ID:	0209701.D
Sampled:	02/09/11 11:48	Prepared:	02/15/11 00:00	Analyzed:	02/15/11 13:32
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 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	1.94	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	X, 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	10.6	0.250	0.500	1.00	
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	0.284	0.250	0.500	1.00	J
95-63-6	1,2,4-Trimethylbenzene	0.391	0.250	0.500	1.00	J
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene	0.989	0.500	1.00	2.00	J
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	30.07	100	75 - 120	
Dibromofluoromethane	30.00	32.08	107	85 - 115	
1,2-Dichloroethane-d4	30.00	29.98	99.9	70 - 120	
Toluene-d8	30.00	27.77	92.6	85 - 120	

ANALYSIS DATA SHEET

GW0030

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-02	File ID:	0209702.D
Sampled:	02/09/11 14:52	Prepared:	02/15/11 00:00	Analyzed:	02/15/11 14:01
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 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	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Q, 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	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	X, 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	X, 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

GW0030

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-02	File ID:	0209702.D
Sampled:	02/09/11 14:52	Prepared:	02/15/11 00:00	Analyzed:	02/15/11 14:01
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 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	X, 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	9.48	0.250	0.500	1.00	
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	30.90	103	75 - 120	
Dibromofluoromethane	30.00	32.52	108	85 - 115	
1,2-Dichloroethane-d4	30.00	29.85	99.5	70 - 120	
Toluene-d8	30.00	27.94	93.1	85 - 120	

ANALYSIS DATA SHEET

GW8011-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-03	File ID:	0209703.D
Sampled:	02/09/11 08:00	Prepared:	02/15/11 00:00	Analyzed:	02/15/11 12:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 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	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Q, 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	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	X, 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	X, 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	0.349	0.250	0.500	1.00	J, B

ANALYSIS DATA SHEET

GW8011-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-03	File ID:	0209703.D
Sampled:	02/09/11 08:00	Prepared:	02/15/11 00:00	Analyzed:	02/15/11 12:03
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 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	X, 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	32.24	107	75 - 120	
Dibromofluoromethane	30.00	31.04	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.82	99.4	70 - 120	
Toluene-d8	30.00	29.57	98.6	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04509	Instrument:	MS-VOA4
		Calibration:	1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04509-CCV1) ug/L				Lab File ID: 0212CCVE.D		Analyzed: 02/12/11 23:38		
Bromofluorobenzene	30.00	96.9	80 - 120	16.459	16.459	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	80 - 120	8.866	8.866	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	80 - 120	10.108	10.108	0.0000	+/-1.000	
Toluene-d8	30.00	93.7	80 - 120	14.132	14.132	0.0000	+/-1.000	
LCS (1B12014-BS1) ug/L				Lab File ID: 0212LS1E.D		Analyzed: 02/13/11 00:08		
Bromofluorobenzene	30.00	101	75 - 120	16.45	16.459	-0.0090	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	8.837	8.866	-0.0290	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.08	10.108	-0.0280	+/-1.000	
Toluene-d8	30.00	97.2	85 - 120	14.123	14.132	-0.0090	+/-1.000	
Blank (1B12014-BLK1) ug/L				Lab File ID: 0212BL1E.D		Analyzed: 02/13/11 01:36		
Bromofluorobenzene	30.00	96.7	75 - 120	16.459	16.459	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	8.846	8.866	-0.0200	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.4	70 - 120	10.079	10.108	-0.0290	+/-1.000	
Toluene-d8	30.00	91.9	85 - 120	14.122	14.132	-0.0100	+/-1.000	
GW8009-TB (1102062-05) ug/L				Lab File ID: 0206205.D		Analyzed: 02/13/11 02:35		
Bromofluorobenzene	30.00	97.9	75 - 120	16.461	16.459	0.0020	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	8.966	8.866	0.1000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.199	10.108	0.0910	+/-1.000	
Toluene-d8	30.00	88.0	85 - 120	14.143	14.132	0.0110	+/-1.000	
GW8008-TB (1102063-03) ug/L				Lab File ID: 0206303.D		Analyzed: 02/13/11 03:04		
Bromofluorobenzene	30.00	104	75 - 120	16.46	16.459	0.0010	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	8.877	8.866	0.0110	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.11	10.108	0.0020	+/-1.000	
Toluene-d8	30.00	95.7	85 - 120	14.133	14.132	0.0010	+/-1.000	
GW0014 (1102062-01) ug/L				Lab File ID: 0206201.D		Analyzed: 02/13/11 04:33		
Bromofluorobenzene	30.00	109	75 - 120	16.46	16.459	0.0010	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	8.897	8.866	0.0310	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.139	10.108	0.0310	+/-1.000	
Toluene-d8	30.00	99.4	85 - 120	14.133	14.132	0.0010	+/-1.000	
GW0028 (1102062-03) ug/L				Lab File ID: 0206203.D		Analyzed: 02/13/11 05:03		
Bromofluorobenzene	30.00	99.6	75 - 120	16.459	16.459	0.0000	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	8.866	8.866	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.098	10.108	-0.0100	+/-1.000	
Toluene-d8	30.00	89.7	85 - 120	14.132	14.132	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04509	Instrument:	MS-VOA4
		Calibration:	1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0029 (1102062-06) ug/L				Lab File ID: 0206206.D		Analyzed: 02/13/11 05:32		
Bromofluorobenzene	30.00	105	75 - 120	16.454	16.459	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	8.871	8.866	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.4	70 - 120	10.123	10.108	0.0150	+/-1.000	
Toluene-d8	30.00	97.9	85 - 120	14.137	14.132	0.0050	+/-1.000	
GW0033 (1102063-01) ug/L				Lab File ID: 0206301.D		Analyzed: 02/13/11 06:02		
Bromofluorobenzene	30.00	104	75 - 120	16.46	16.459	0.0010	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	8.867	8.866	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.5	70 - 120	10.099	10.108	-0.0090	+/-1.000	
Toluene-d8	30.00	95.2	85 - 120	14.133	14.132	0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04609	Instrument:	MS-VOA4
		Calibration:	1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04609-CCV1) ug/L				Lab File ID: 0214CCVE.D		Analyzed: 02/14/11 20:45		
Bromofluorobenzene	30.00	105	80 - 120	16.454	16.454	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	80 - 120	8.9	8.9	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	80 - 120	10.123	10.123	0.0000	+/-1.000	
Toluene-d8	30.00	91.6	80 - 120	14.136	14.136	0.0000	+/-1.000	
LCS (1B14003-BS1) ug/L				Lab File ID: 0214LS1E.D		Analyzed: 02/14/11 21:14		
Bromofluorobenzene	30.00	96.2	75 - 120	16.445	16.454	-0.0090	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	8.823	8.9	-0.0770	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.065	10.123	-0.0580	+/-1.000	
Toluene-d8	30.00	95.6	85 - 120	14.118	14.136	-0.0180	+/-1.000	
Blank (1B14003-BLK1) ug/L				Lab File ID: 0214BL1E.D		Analyzed: 02/14/11 23:12		
Bromofluorobenzene	30.00	101	75 - 120	16.453	16.454	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	8.909	8.9	0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.142	10.123	0.0190	+/-1.000	
Toluene-d8	30.00	94.7	85 - 120	14.136	14.136	0.0000	+/-1.000	
GW8010-TB (1102076-08) ug/L				Lab File ID: 0207608.D		Analyzed: 02/14/11 23:41		
Bromofluorobenzene	30.00	107	75 - 120	16.449	16.454	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	8.846	8.9	-0.0540	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.4	70 - 120	10.078	10.123	-0.0450	+/-1.000	
Toluene-d8	30.00	98.2	85 - 120	14.121	14.136	-0.0150	+/-1.000	
GW8001-RB (1102076-06) ug/L				Lab File ID: 0207606.D		Analyzed: 02/15/11 01:10		
Bromofluorobenzene	30.00	101	75 - 120	16.45	16.454	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.837	8.9	-0.0630	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.07	10.123	-0.0530	+/-1.000	
Toluene-d8	30.00	91.6	85 - 120	14.123	14.136	-0.0130	+/-1.000	
GW8001-AB (1102076-05) ug/L				Lab File ID: 0207605.D		Analyzed: 02/15/11 02:39		
Bromofluorobenzene	30.00	99.1	75 - 120	16.455	16.454	0.0010	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	8.832	8.9	-0.0680	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.055	10.123	-0.0680	+/-1.000	
Toluene-d8	30.00	90.0	85 - 120	14.118	14.136	-0.0180	+/-1.000	
GW0025 (1102076-01) ug/L				Lab File ID: 0207601.D		Analyzed: 02/15/11 04:37		
Bromofluorobenzene	30.00	106	75 - 120	16.453	16.454	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	114	85 - 115	8.89	8.9	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	10.112	10.123	-0.0110	+/-1.000	
Toluene-d8	30.00	91.9	85 - 120	14.126	14.136	-0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04609	Instrument:	MS-VOA4
		Calibration:	1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0027 (1102076-03) ug/L				Lab File ID: 0207603.D		Analyzed: 02/15/11 05:07		
Bromofluorobenzene	30.00	102	75 - 120	16.45	16.454	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	115	85 - 115	8.857	8.9	-0.0430	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	10.09	10.123	-0.0330	+/-1.000	
Toluene-d8	30.00	94.0	85 - 120	14.123	14.136	-0.0130	+/-1.000	
LCS Dup (1B14003-BSD1) ug/L				Lab File ID: 0214LD1E.D		Analyzed: 02/15/11 08:04		
Bromofluorobenzene	30.00	98.9	75 - 120	16.45	16.454	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.857	8.9	-0.0430	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.089	10.123	-0.0340	+/-1.000	
Toluene-d8	30.00	93.7	85 - 120	14.123	14.136	-0.0130	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04702	Instrument:	MS-VOA3
		Calibration:	1042001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04702-CCV1) ug/L				Lab File ID: 0215CCV1.D		Analyzed: 02/15/11 06:36		
Bromofluorobenzene	30.00	101	80 - 120	16.971	16.971	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	9.895	9.895	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	80 - 120	10.978	10.978	0.0000	+/-1.000	
Toluene-d8	30.00	96.5	80 - 120	14.622	14.622	0.0000	+/-1.000	
LCS (1B15001-BS1) ug/L				Lab File ID: 0215LS1.D		Analyzed: 02/15/11 07:36		
Bromofluorobenzene	30.00	103	75 - 120	16.965	16.971	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	9.883	9.895	-0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.9	70 - 120	10.972	10.978	-0.0060	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.623	14.622	0.0010	+/-1.000	
Blank (1B15001-BLK1) ug/L				Lab File ID: 0215BL1.D		Analyzed: 02/15/11 09:32		
Bromofluorobenzene	30.00	103	75 - 120	16.965	16.971	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	9.889	9.895	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	10.966	10.978	-0.0120	+/-1.000	
Toluene-d8	30.00	99.3	85 - 120	14.622	14.622	0.0000	+/-1.000	
GW8012-TB (1102088-05) ug/L				Lab File ID: 0208805.D		Analyzed: 02/15/11 10:02		
Bromofluorobenzene	30.00	105	75 - 120	16.965	16.971	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	9.889	9.895	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.6	70 - 120	10.972	10.978	-0.0060	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.622	14.622	0.0000	+/-1.000	
GW0023 (1102088-01) ug/L				Lab File ID: 0208801.D		Analyzed: 02/15/11 12:31		
Bromofluorobenzene	30.00	102	75 - 120	16.971	16.971	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	9.889	9.895	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.1	70 - 120	10.978	10.978	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	14.622	14.622	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04703	Instrument:	MS-VOA3
		Calibration:	1042001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04703-CCV1) ug/L				Lab File ID: 0215CCVE.D		Analyzed: 02/15/11 18:28		
Bromofluorobenzene	30.00	99.9	80 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	80 - 120	9.914	9.914	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.5	80 - 120	10.991	10.991	0.0000	+/-1.000	
Toluene-d8	30.00	97.4	80 - 120	14.629	14.629	0.0000	+/-1.000	
LCS (1B15004-BS1) ug/L				Lab File ID: 0215LS1E.D		Analyzed: 02/15/11 18:58		
Bromofluorobenzene	30.00	104	75 - 120	16.971	16.977	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	9.902	9.914	-0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.99	10.991	-0.0010	+/-1.000	
Toluene-d8	30.00	98.4	85 - 120	14.628	14.629	-0.0010	+/-1.000	
Blank (1B15004-BLK1) ug/L				Lab File ID: 0215BLE.D		Analyzed: 02/15/11 20:25		
Bromofluorobenzene	30.00	103	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	9.901	9.914	-0.0130	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.5	70 - 120	10.984	10.991	-0.0070	+/-1.000	
Toluene-d8	30.00	101	85 - 120	14.628	14.629	-0.0010	+/-1.000	
GW0026 (1102088-03) ug/L				Lab File ID: 0208803.D		Analyzed: 02/15/11 20:54		
Bromofluorobenzene	30.00	104	75 - 120	16.971	16.977	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	9.902	9.914	-0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	10.984	10.991	-0.0070	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.629	14.629	0.0000	+/-1.000	
Matrix Spike (1B15004-MS1) ug/L				Lab File ID: 0208803M.D		Analyzed: 02/16/11 01:52		
Bromofluorobenzene	30.00	102	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	9.895	9.914	-0.0190	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.984	10.991	-0.0070	+/-1.000	
Toluene-d8	30.00	98.4	85 - 120	14.628	14.629	-0.0010	+/-1.000	
Matrix Spike Dup (1B15004-MSD1) ug/L				Lab File ID: 0208803S.D		Analyzed: 02/16/11 02:21		
Bromofluorobenzene	30.00	101	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	9.908	9.914	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.984	10.991	-0.0070	+/-1.000	
Toluene-d8	30.00	96.4	85 - 120	14.628	14.629	-0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04705	Instrument:	MS-VOA4
		Calibration:	1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04705-CCV1) ug/L				Lab File ID: 0215CCV1.D		Analyzed: 02/15/11 09:18		
Bromofluorobenzene	30.00	100	80 - 120	16.453	16.453	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	8.831	8.831	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	10.063	10.063	0.0000	+/-1.000	
Toluene-d8	30.00	96.4	80 - 120	14.116	14.116	0.0000	+/-1.000	
LCS (1B15006-BS1) ug/L				Lab File ID: 0215LS1.D		Analyzed: 02/15/11 10:05		
Bromofluorobenzene	30.00	101	75 - 120	16.454	16.453	0.0010	+/-1.000	
Dibromofluoromethane	30.00	96.5	85 - 115	8.91	8.831	0.0790	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.143	10.063	0.0800	+/-1.000	
Toluene-d8	30.00	94.4	85 - 120	14.137	14.116	0.0210	+/-1.000	
Blank (1B15006-BLK1) ug/L				Lab File ID: 0215BL1.D		Analyzed: 02/15/11 11:33		
Bromofluorobenzene	30.00	108	75 - 120	16.454	16.453	0.0010	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	8.881	8.831	0.0500	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.114	10.063	0.0510	+/-1.000	
Toluene-d8	30.00	96.3	85 - 120	14.127	14.116	0.0110	+/-1.000	
GW8011-TB (1102097-03) ug/L				Lab File ID: 0209703.D		Analyzed: 02/15/11 12:03		
Bromofluorobenzene	30.00	107	75 - 120	16.453	16.453	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.89	8.831	0.0590	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.4	70 - 120	10.112	10.063	0.0490	+/-1.000	
Toluene-d8	30.00	98.6	85 - 120	14.126	14.116	0.0100	+/-1.000	
GW0024 (1102097-01) ug/L				Lab File ID: 0209701.D		Analyzed: 02/15/11 13:32		
Bromofluorobenzene	30.00	100	75 - 120	16.454	16.453	0.0010	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	8.979	8.831	0.1480	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.9	70 - 120	10.202	10.063	0.1390	+/-1.000	
Toluene-d8	30.00	92.6	85 - 120	14.147	14.116	0.0310	+/-1.000	
GW0030 (1102097-02) ug/L				Lab File ID: 0209702.D		Analyzed: 02/15/11 14:01		
Bromofluorobenzene	30.00	103	75 - 120	16.459	16.453	0.0060	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	8.866	8.831	0.0350	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.5	70 - 120	10.108	10.063	0.0450	+/-1.000	
Toluene-d8	30.00	93.1	85 - 120	14.132	14.116	0.0160	+/-1.000	
LCS Dup (1B15006-BSD1) ug/L				Lab File ID: 0215LD1.D		Analyzed: 02/15/11 19:30		
Bromofluorobenzene	30.00	102	75 - 120	16.454	16.453	0.0010	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.861	8.831	0.0300	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.1	70 - 120	10.094	10.063	0.0310	+/-1.000	
Toluene-d8	30.00	94.3	85 - 120	14.127	14.116	0.0110	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B12014	Laboratory ID:	1B12014-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	117	117	40 - 140
Benzene	50.00	51.6	103	80 - 120
Bromobenzene	50.00	52.1	104	75 - 125
Bromochloromethane	50.00	53.9	108	65 - 130
Bromodichloromethane	50.00	56.5	113	75 - 120
Bromoform	50.00	54.0	108	70 - 130
Bromomethane	50.00	40.7	81.5	30 - 145
n-Butylbenzene	50.00	50.5	101	70 - 135
2-Butanone	100.0	93.9	93.9	30 - 150
sec-Butylbenzene	50.00	51.2	102	70 - 125
tert-Butylbenzene	50.00	51.3	103	70 - 130
Carbon disulfide	50.00	51.5	103	35 - 160
Carbon tetrachloride	50.00	52.8	106	65 - 140
Chlorobenzene	50.00	51.6	103	80 - 120
Chloroethane	50.00	54.6	109	60 - 135
Chloroform	50.00	50.2	100	65 - 135
Chloromethane	50.00	54.3	109	40 - 125
2-Chlorotoluene	50.00	49.3	98.6	75 - 125
4-Chlorotoluene	50.00	49.6	99.3	75 - 130
Dibromochloromethane	50.00	52.4	105	60 - 135
1,2-Dibromo-3-chloropropane	50.00	43.4	86.8	50 - 130
1,2-Dibromoethane (EDB)	50.00	50.7	101	80 - 120
Dibromomethane	50.00	53.5	107	75 - 125
1,2-Dichlorobenzene	50.00	51.1	102	70 - 120
1,3-Dichlorobenzene	50.00	48.9	97.8	75 - 125
1,4-Dichlorobenzene	50.00	50.8	102	75 - 125
Dichlorodifluoromethane	50.00	64.7	129	30 - 155
1,1-Dichloroethane	50.00	52.3	105	70 - 135
1,2-Dichloroethane	50.00	54.8	110	70 - 130
1,1-Dichloroethene	50.00	54.8	110	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B12014	Laboratory ID:	1B12014-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	50.0	100	70 - 125
trans-1,2-Dichloroethene	50.00	50.5	101	60 - 140
1,2-Dichloropropane	50.00	51.5	103	75 - 125
1,3-Dichloropropane	50.00	49.8	99.6	75 - 125
2,2-Dichloropropane	50.00	41.2	82.5	70 - 135
1,1-Dichloropropene	50.00	50.7	101	75 - 130
cis-1,3-Dichloropropene	50.00	49.8	99.7	70 - 130
trans-1,3-Dichloropropene	50.00	55.6	111	55 - 140
Ethylbenzene	50.00	51.7	103	75 - 125
Hexachlorobutadiene	50.00	49.6	99.1	50 - 140
2-Hexanone	100.0	121	121	55 - 130
Isopropylbenzene	50.00	54.2	108	75 - 125
p-Isopropyltoluene	50.00	52.4	105	75 - 130
Methylene chloride	50.00	50.6	101	55 - 140
Naphthalene	50.00	50.1	100	55 - 140
4-Methyl-2-pentanone	100.0	117	117	60 - 135
Methyl t-Butyl Ether	100.0	102	102	65 - 125
n-Propylbenzene	50.00	50.5	101	70 - 130
Styrene	50.00	51.5	103	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.4	98.7	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.4	107	80 - 130
Tetrachloroethene	50.00	50.9	102	45 - 150
Toluene	50.00	48.7	97.3	75 - 120
1,2,3-Trichlorobenzene	50.00	48.2	96.3	55 - 140
1,2,4-Trichlorobenzene	50.00	49.0	97.9	65 - 135
1,1,2-Trichloroethane	50.00	52.1	104	75 - 125
1,1,1-Trichloroethane	50.00	50.9	102	65 - 130
Trichloroethene	50.00	53.3	107	70 - 125
Trichlorofluoromethane	50.00	53.6	107	60 - 145
1,2,3-Trichloropropane	50.00	47.8	95.7	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B12014	Laboratory ID:	1B12014-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	49.3	98.5	75 - 130
1,2,4-Trimethylbenzene	50.00	51.4	103	75 - 130
Vinyl chloride	50.00	56.5	113	50 - 145
m,p-Xylene	100.0	101	101	75 - 130
o-Xylene	50.00	51.5	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B14003	Laboratory ID:	1B14003-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	127	127	40 - 140
Benzene	50.00	54.4	109	80 - 120
Bromobenzene	50.00	52.8	106	75 - 125
Bromochloromethane	50.00	55.3	111	65 - 130
Bromodichloromethane	**50.00**	**61.1**	**122**	**75 - 120**
Bromoform	50.00	56.0	112	70 - 130
Bromomethane	50.00	36.8	73.7	30 - 145
n-Butylbenzene	50.00	49.9	99.8	70 - 135
2-Butanone	100.0	98.1	98.1	30 - 150
sec-Butylbenzene	50.00	54.1	108	70 - 125
tert-Butylbenzene	50.00	53.7	107	70 - 130
Carbon disulfide	50.00	54.6	109	35 - 160
Carbon tetrachloride	50.00	57.7	115	65 - 140
Chlorobenzene	50.00	51.9	104	80 - 120
Chloroethane	50.00	56.7	113	60 - 135
Chloroform	50.00	53.5	107	65 - 135
Chloromethane	50.00	54.3	109	40 - 125
2-Chlorotoluene	50.00	51.6	103	75 - 125
4-Chlorotoluene	50.00	51.9	104	75 - 130
Dibromochloromethane	50.00	54.2	108	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.5	101	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.3	107	80 - 120
Dibromomethane	50.00	58.5	117	75 - 125
1,2-Dichlorobenzene	50.00	53.3	107	70 - 120
1,3-Dichlorobenzene	50.00	50.6	101	75 - 125
1,4-Dichlorobenzene	50.00	53.5	107	75 - 125
Dichlorodifluoromethane	50.00	67.2	134	30 - 155
1,1-Dichloroethane	50.00	54.8	110	70 - 135
1,2-Dichloroethane	50.00	58.3	117	70 - 130
1,1-Dichloroethene	50.00	58.5	117	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B14003	Laboratory ID:	1B14003-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	53.1	106	70 - 125
trans-1,2-Dichloroethene	50.00	54.3	109	60 - 140
1,2-Dichloropropane	50.00	55.9	112	75 - 125
1,3-Dichloropropane	50.00	50.6	101	75 - 125
2,2-Dichloropropane	50.00	42.0	83.9	70 - 135
1,1-Dichloropropene	50.00	55.5	111	75 - 130
cis-1,3-Dichloropropene	50.00	52.5	105	70 - 130
trans-1,3-Dichloropropene	50.00	57.0	114	55 - 140
Ethylbenzene	50.00	53.1	106	75 - 125
Hexachlorobutadiene	50.00	53.2	106	50 - 140
2-Hexanone	100.0	124	124	55 - 130
Isopropylbenzene	50.00	54.5	109	75 - 125
p-Isopropyltoluene	50.00	55.1	110	75 - 130
Methylene chloride	50.00	53.9	108	55 - 140
Naphthalene	50.00	58.7	117	55 - 140
4-Methyl-2-pentanone	100.0	131	131	60 - 135
Methyl t-Butyl Ether	100.0	111	111	65 - 125
n-Propylbenzene	50.00	53.4	107	70 - 130
Styrene	50.00	52.7	105	65 - 135
1,1,2,2-Tetrachloroethane	50.00	53.1	106	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.6	107	80 - 130
Tetrachloroethene	50.00	52.0	104	45 - 150
Toluene	50.00	50.0	100	75 - 120
1,2,3-Trichlorobenzene	50.00	54.0	108	55 - 140
1,2,4-Trichlorobenzene	50.00	53.4	107	65 - 135
1,1,2-Trichloroethane	50.00	50.6	101	75 - 125
1,1,1-Trichloroethane	50.00	55.7	111	65 - 130
Trichloroethene	50.00	57.5	115	70 - 125
Trichlorofluoromethane	50.00	57.6	115	60 - 145
1,2,3-Trichloropropane	50.00	51.9	104	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B14003	Laboratory ID:	1B14003-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	54.1	108	75 - 130
1,2,4-Trimethylbenzene	50.00	54.5	109	75 - 130
Vinyl chloride	50.00	57.6	115	50 - 145
m,p-Xylene	100.0	103	103	75 - 130
o-Xylene	50.00	49.4	98.9	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	121	121	4.74	30	40 - 140
Benzene	50.00	54.9	110	0.871	30	80 - 120
Bromobenzene	50.00	54.2	108	2.61	30	75 - 125
Bromochloromethane	50.00	58.4	117	5.35	30	65 - 130
Bromodichloromethane	**50.00**	**60.3**	**121 ***	**1.30**	**30**	**75 - 120**
Bromoform	50.00	54.0	108	3.60	30	70 - 130
Bromomethane	50.00	42.6	85.2	14.5	30	30 - 145
n-Butylbenzene	50.00	49.5	99.0	0.787	30	70 - 135
2-Butanone	100.0	97.6	97.6	0.562	30	30 - 150
sec-Butylbenzene	50.00	50.1	100	7.54	30	70 - 125
tert-Butylbenzene	50.00	52.1	104	3.01	30	70 - 130
Carbon disulfide	50.00	54.5	109	0.135	30	35 - 160
Carbon tetrachloride	50.00	57.7	115	0.0394	30	65 - 140
Chlorobenzene	50.00	51.6	103	0.623	30	80 - 120
Chloroethane	50.00	44.8	89.7	23.4	30	60 - 135
Chloroform	50.00	55.8	112	4.19	30	65 - 135
Chloromethane	50.00	59.8	120	9.66	30	40 - 125
2-Chlorotoluene	50.00	50.5	101	2.09	30	75 - 125
4-Chlorotoluene	50.00	52.3	105	0.752	30	75 - 130
Dibromochloromethane	50.00	52.9	106	2.42	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	47.0	94.0	7.24	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	51.3	103	3.82	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B14003	Laboratory ID:	1B14003-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	57.8	116	1.18	30	75 - 125
1,2-Dichlorobenzene	50.00	52.2	104	2.08	30	70 - 120
1,3-Dichlorobenzene	50.00	50.9	102	0.547	30	75 - 125
1,4-Dichlorobenzene	50.00	48.7	97.4	9.50	30	75 - 125
Dichlorodifluoromethane	50.00	66.3	133	1.35	30	30 - 155
1,1-Dichloroethane	50.00	55.0	110	0.324	30	70 - 135
1,2-Dichloroethane	50.00	62.1	124	6.29	30	70 - 130
1,1-Dichloroethene	50.00	58.1	116	0.728	30	70 - 130
cis-1,2-Dichloroethene	50.00	54.8	110	3.07	30	70 - 125
trans-1,2-Dichloroethene	50.00	53.0	106	2.46	30	60 - 140
1,2-Dichloropropane	50.00	51.8	104	7.62	30	75 - 125
1,3-Dichloropropane	50.00	48.3	96.6	4.72	30	75 - 125
2,2-Dichloropropane	**50.00**	**32.8**	**65.6 ***	**24.5**	**30**	**70 - 135**
1,1-Dichloropropene	50.00	54.6	109	1.53	30	75 - 130
cis-1,3-Dichloropropene	50.00	51.5	103	1.98	30	70 - 130
trans-1,3-Dichloropropene	50.00	52.7	105	7.87	30	55 - 140
Ethylbenzene	50.00	50.5	101	4.95	30	75 - 125
Hexachlorobutadiene	50.00	43.3	86.6	20.6	30	50 - 140
2-Hexanone	100.0	108	108	13.2	30	55 - 130
Isopropylbenzene	50.00	54.4	109	0.0641	30	75 - 125
p-Isopropyltoluene	50.00	52.2	104	5.36	30	75 - 130
Methylene chloride	50.00	55.4	111	2.84	30	55 - 140
Naphthalene	50.00	53.1	106	10.2	30	55 - 140
4-Methyl-2-pentanone	100.0	121	121	8.02	30	60 - 135
Methyl t-Butyl Ether	100.0	106	106	4.27	30	65 - 125
n-Propylbenzene	50.00	52.7	105	1.31	30	70 - 130
Styrene	50.00	52.5	105	0.361	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.0	99.9	6.11	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.9	108	0.610	30	80 - 130
Tetrachloroethene	50.00	48.5	97.0	7.03	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B14003	Laboratory ID:	1B14003-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	48.1	96.3	3.88	30	75 - 120
1,2,3-Trichlorobenzene	50.00	51.5	103	4.74	30	55 - 140
1,2,4-Trichlorobenzene	50.00	51.1	102	4.35	30	65 - 135
1,1,2-Trichloroethane	50.00	47.8	95.5	5.68	30	75 - 125
1,1,1-Trichloroethane	50.00	57.4	115	3.00	30	65 - 130
Trichloroethene	50.00	53.6	107	6.97	30	70 - 125
Trichlorofluoromethane	50.00	57.9	116	0.377	30	60 - 145
1,2,3-Trichloropropane	50.00	50.9	102	1.80	30	75 - 125
1,3,5-Trimethylbenzene	50.00	50.3	101	7.18	30	75 - 130
1,2,4-Trimethylbenzene	50.00	51.9	104	4.93	30	75 - 130
Vinyl chloride	50.00	61.6	123	6.60	30	50 - 145
m,p-Xylene	100.0	102	102	0.906	30	75 - 130
o-Xylene	50.00	50.8	102	2.72	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15001	Laboratory ID:	1B15001-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	102	102	40 - 140
Benzene	50.00	49.7	99.4	80 - 120
Bromobenzene	50.00	50.5	101	75 - 125
Bromochloromethane	50.00	52.7	105	65 - 130
Bromodichloromethane	**50.00**	**60.6**	**121**	**75 - 120**
Bromoform	50.00	52.6	105	70 - 130
Bromomethane	50.00	35.7	71.4	30 - 145
n-Butylbenzene	50.00	49.9	99.9	70 - 135
2-Butanone	100.0	97.0	97.0	30 - 150
sec-Butylbenzene	50.00	50.7	101	70 - 125
tert-Butylbenzene	50.00	52.2	104	70 - 130
Carbon disulfide	50.00	55.0	110	35 - 160
Carbon tetrachloride	50.00	53.5	107	65 - 140
Chlorobenzene	50.00	52.6	105	80 - 120
Chloroethane	50.00	51.5	103	60 - 135
Chloroform	50.00	51.8	104	65 - 135
Chloromethane	50.00	54.6	109	40 - 125
2-Chlorotoluene	50.00	49.0	98.1	75 - 125
4-Chlorotoluene	50.00	49.9	99.8	75 - 130
Dibromochloromethane	50.00	55.0	110	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.1	90.1	50 - 130
1,2-Dibromoethane (EDB)	50.00	52.7	105	80 - 120
Dibromomethane	50.00	51.9	104	75 - 125
1,2-Dichlorobenzene	50.00	50.8	102	70 - 120
1,3-Dichlorobenzene	50.00	50.5	101	75 - 125
1,4-Dichlorobenzene	50.00	48.9	97.8	75 - 125
Dichlorodifluoromethane	50.00	77.1	154	30 - 155
1,1-Dichloroethane	50.00	51.3	103	70 - 135
1,2-Dichloroethane	50.00	53.3	107	70 - 130
1,1-Dichloroethene	50.00	55.5	111	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15001	Laboratory ID:	1B15001-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	50.2	100	70 - 125
trans-1,2-Dichloroethene	50.00	52.5	105	60 - 140
1,2-Dichloropropane	50.00	50.7	101	75 - 125
1,3-Dichloropropane	50.00	50.2	100	75 - 125
2,2-Dichloropropane	50.00	52.1	104	70 - 135
1,1-Dichloropropene	50.00	51.8	104	75 - 130
cis-1,3-Dichloropropene	50.00	51.0	102	70 - 130
trans-1,3-Dichloropropene	50.00	61.0	122	55 - 140
Ethylbenzene	50.00	51.6	103	75 - 125
Hexachlorobutadiene	50.00	51.0	102	50 - 140
2-Hexanone	100.0	102	102	55 - 130
Isopropylbenzene	50.00	55.5	111	75 - 125
p-Isopropyltoluene	50.00	50.5	101	75 - 130
Methylene chloride	50.00	49.9	99.9	55 - 140
Naphthalene	50.00	46.4	92.8	55 - 140
4-Methyl-2-pentanone	100.0	114	114	60 - 135
Methyl t-Butyl Ether	100.0	95.6	95.6	65 - 125
n-Propylbenzene	50.00	51.4	103	70 - 130
Styrene	50.00	53.0	106	65 - 135
1,1,2,2-Tetrachloroethane	50.00	46.5	93.0	65 - 130
1,1,1,2-Tetrachloroethane	50.00	63.0	126	80 - 130
Tetrachloroethene	50.00	51.8	104	45 - 150
Toluene	50.00	50.8	102	75 - 120
1,2,3-Trichlorobenzene	50.00	45.5	90.9	55 - 140
1,2,4-Trichlorobenzene	50.00	46.6	93.2	65 - 135
1,1,2-Trichloroethane	50.00	49.6	99.3	75 - 125
1,1,1-Trichloroethane	50.00	54.9	110	65 - 130
Trichloroethene	50.00	51.8	104	70 - 125
Trichlorofluoromethane	50.00	57.6	115	60 - 145
1,2,3-Trichloropropane	50.00	52.1	104	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15001	Laboratory ID:	1B15001-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	51.0	102	75 - 130
1,2,4-Trimethylbenzene	50.00	51.8	104	75 - 130
Vinyl chloride	50.00	55.5	111	50 - 145
m,p-Xylene	100.0	96.0	96.0	75 - 130
o-Xylene	50.00	49.7	99.4	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15004	Laboratory ID:	1B15004-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	107	107	40 - 140
Benzene	50.00	51.1	102	80 - 120
Bromobenzene	50.00	52.8	106	75 - 125
Bromochloromethane	50.00	53.6	107	65 - 130
Bromodichloromethane	**50.00**	**63.2**	**126**	**75 - 120**
Bromoform	50.00	56.2	112	70 - 130
Bromomethane	50.00	36.2	72.4	30 - 145
n-Butylbenzene	50.00	50.6	101	70 - 135
2-Butanone	100.0	94.6	94.6	30 - 150
sec-Butylbenzene	50.00	51.7	103	70 - 125
tert-Butylbenzene	50.00	53.2	106	70 - 130
Carbon disulfide	50.00	55.5	111	35 - 160
Carbon tetrachloride	50.00	54.2	108	65 - 140
Chlorobenzene	50.00	53.0	106	80 - 120
Chloroethane	50.00	53.4	107	60 - 135
Chloroform	50.00	53.0	106	65 - 135
Chloromethane	50.00	55.2	110	40 - 125
2-Chlorotoluene	50.00	50.6	101	75 - 125
4-Chlorotoluene	50.00	53.0	106	75 - 130
Dibromochloromethane	50.00	56.4	113	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.8	99.5	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.0	110	80 - 120
Dibromomethane	50.00	55.0	110	75 - 125
1,2-Dichlorobenzene	50.00	53.2	106	70 - 120
1,3-Dichlorobenzene	50.00	53.1	106	75 - 125
1,4-Dichlorobenzene	50.00	50.9	102	75 - 125
Dichlorodifluoromethane	50.00	72.3	145	30 - 155
1,1-Dichloroethane	50.00	52.0	104	70 - 135
1,2-Dichloroethane	50.00	57.1	114	70 - 130
1,1-Dichloroethene	50.00	54.9	110	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15004	Laboratory ID:	1B15004-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	51.1	102	70 - 125
trans-1,2-Dichloroethene	50.00	51.5	103	60 - 140
1,2-Dichloropropane	50.00	52.1	104	75 - 125
1,3-Dichloropropane	50.00	52.7	105	75 - 125
2,2-Dichloropropane	50.00	45.6	91.2	70 - 135
1,1-Dichloropropene	50.00	52.2	104	75 - 130
cis-1,3-Dichloropropene	50.00	51.3	103	70 - 130
trans-1,3-Dichloropropene	50.00	60.2	120	55 - 140
Ethylbenzene	50.00	52.1	104	75 - 125
Hexachlorobutadiene	50.00	54.3	109	50 - 140
2-Hexanone	100.0	98.1	98.1	55 - 130
Isopropylbenzene	50.00	55.1	110	75 - 125
p-Isopropyltoluene	50.00	52.3	105	75 - 130
Methylene chloride	50.00	51.2	102	55 - 140
Naphthalene	50.00	52.4	105	55 - 140
4-Methyl-2-pentanone	100.0	111	111	60 - 135
Methyl t-Butyl Ether	100.0	103	103	65 - 125
n-Propylbenzene	50.00	51.8	104	70 - 130
Styrene	50.00	55.3	111	65 - 135
1,1,2,2-Tetrachloroethane	50.00	51.7	103	65 - 130
1,1,1,2-Tetrachloroethane	50.00	64.4	129	80 - 130
Tetrachloroethene	50.00	51.1	102	45 - 150
Toluene	50.00	50.3	101	75 - 120
1,2,3-Trichlorobenzene	50.00	50.3	101	55 - 140
1,2,4-Trichlorobenzene	50.00	49.1	98.3	65 - 135
1,1,2-Trichloroethane	50.00	52.7	105	75 - 125
1,1,1-Trichloroethane	50.00	56.2	112	65 - 130
Trichloroethene	50.00	52.8	106	70 - 125
Trichlorofluoromethane	50.00	57.1	114	60 - 145
1,2,3-Trichloropropane	50.00	54.8	110	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15004	Laboratory ID:	1B15004-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	52.4	105	75 - 130
1,2,4-Trimethylbenzene	50.00	53.1	106	75 - 130
Vinyl chloride	50.00	55.6	111	50 - 145
m,p-Xylene	100.0	97.0	97.0	75 - 130
o-Xylene	50.00	50.3	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15006	Laboratory ID:	1B15006-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	105	105	40 - 140
Benzene	50.00	51.2	102	80 - 120
Bromobenzene	50.00	54.3	109	75 - 125
Bromochloromethane	50.00	55.4	111	65 - 130
Bromodichloromethane	50.00	58.0	116	75 - 120
Bromoform	50.00	56.2	112	70 - 130
Bromomethane	50.00	45.1	90.1	30 - 145
n-Butylbenzene	50.00	49.5	99.0	70 - 135
2-Butanone	100.0	97.8	97.8	30 - 150
sec-Butylbenzene	50.00	50.8	102	70 - 125
tert-Butylbenzene	50.00	51.2	102	70 - 130
Carbon disulfide	50.00	54.7	109	35 - 160
Carbon tetrachloride	50.00	51.1	102	65 - 140
Chlorobenzene	50.00	52.7	105	80 - 120
Chloroethane	50.00	55.8	112	60 - 135
Chloroform	50.00	51.4	103	65 - 135
Chloromethane	50.00	56.3	113	40 - 125
2-Chlorotoluene	50.00	50.0	99.9	75 - 125
4-Chlorotoluene	50.00	52.6	105	75 - 130
Dibromochloromethane	50.00	53.2	106	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.9	91.8	50 - 130
1,2-Dibromoethane (EDB)	50.00	52.8	106	80 - 120
Dibromomethane	50.00	54.0	108	75 - 125
1,2-Dichlorobenzene	50.00	51.4	103	70 - 120
1,3-Dichlorobenzene	50.00	57.3	115	75 - 125
1,4-Dichlorobenzene	50.00	46.9	93.7	75 - 125
Dichlorodifluoromethane	50.00	63.0	126	30 - 155
1,1-Dichloroethane	50.00	53.1	106	70 - 135
1,2-Dichloroethane	50.00	55.1	110	70 - 130
1,1-Dichloroethene	50.00	56.8	114	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15006	Laboratory ID:	1B15006-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	51.9	104	70 - 125
trans-1,2-Dichloroethene	50.00	54.5	109	60 - 140
1,2-Dichloropropane	50.00	50.6	101	75 - 125
1,3-Dichloropropane	50.00	48.8	97.7	75 - 125
2,2-Dichloropropane	50.00	51.5	103	70 - 135
1,1-Dichloropropene	50.00	50.4	101	75 - 130
cis-1,3-Dichloropropene	50.00	52.4	105	70 - 130
trans-1,3-Dichloropropene	50.00	57.2	114	55 - 140
Ethylbenzene	50.00	55.0	110	75 - 125
Hexachlorobutadiene	50.00	50.3	101	50 - 140
2-Hexanone	100.0	109	109	55 - 130
Isopropylbenzene	50.00	54.9	110	75 - 125
p-Isopropyltoluene	50.00	54.4	109	75 - 130
Methylene chloride	50.00	53.4	107	55 - 140
Naphthalene	50.00	52.1	104	55 - 140
4-Methyl-2-pentanone	100.0	109	109	60 - 135
Methyl t-Butyl Ether	100.0	107	107	65 - 125
n-Propylbenzene	50.00	53.0	106	70 - 130
Styrene	50.00	57.3	115	65 - 135
1,1,2,2-Tetrachloroethane	50.00	51.5	103	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.0	106	80 - 130
Tetrachloroethene	50.00	51.2	102	45 - 150
Toluene	50.00	51.8	104	75 - 120
1,2,3-Trichlorobenzene	50.00	53.4	107	55 - 140
1,2,4-Trichlorobenzene	50.00	50.7	101	65 - 135
1,1,2-Trichloroethane	50.00	48.0	96.0	75 - 125
1,1,1-Trichloroethane	50.00	51.9	104	65 - 130
Trichloroethene	50.00	51.5	103	70 - 125
Trichlorofluoromethane	50.00	52.3	105	60 - 145
1,2,3-Trichloropropane	50.00	53.0	106	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15006	Laboratory ID:	1B15006-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	51.5	103	75 - 130
1,2,4-Trimethylbenzene	50.00	52.5	105	75 - 130
Vinyl chloride	50.00	55.2	110	50 - 145
m,p-Xylene	100.0	104	104	75 - 130
o-Xylene	50.00	52.5	105	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	108	108	2.90	30	40 - 140
Benzene	50.00	52.8	106	3.16	30	80 - 120
Bromobenzene	50.00	53.5	107	1.55	30	75 - 125
Bromochloromethane	50.00	54.5	109	1.58	30	65 - 130
Bromodichloromethane	**50.00**	**61.6**	**123 ***	**6.10**	**30**	**75 - 120**
Bromoform	50.00	55.2	110	1.85	30	70 - 130
Bromomethane	50.00	28.5	56.9	45.2 *	30	30 - 145
n-Butylbenzene	50.00	50.3	101	1.58	30	70 - 135
2-Butanone	100.0	112	112	13.4	30	30 - 150
sec-Butylbenzene	50.00	52.6	105	3.41	30	70 - 125
tert-Butylbenzene	50.00	53.3	107	4.09	30	70 - 130
Carbon disulfide	50.00	54.4	109	0.610	30	35 - 160
Carbon tetrachloride	50.00	57.0	114	10.8	30	65 - 140
Chlorobenzene	50.00	51.7	103	1.98	30	80 - 120
Chloroethane	50.00	43.2	86.5	25.4	30	60 - 135
Chloroform	50.00	54.1	108	5.05	30	65 - 135
Chloromethane	50.00	51.9	104	8.06	30	40 - 125
2-Chlorotoluene	50.00	52.3	105	4.55	30	75 - 125
4-Chlorotoluene	50.00	55.5	111	5.36	30	75 - 130
Dibromochloromethane	50.00	55.1	110	3.57	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	44.0	88.0	4.20	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.4	107	1.08	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15006	Laboratory ID:	1B15006-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	55.9	112	3.30	30	75 - 125
1,2-Dichlorobenzene	50.00	52.2	104	1.49	30	70 - 120
1,3-Dichlorobenzene	50.00	56.7	113	0.965	30	75 - 125
1,4-Dichlorobenzene	50.00	46.4	92.8	0.972	30	75 - 125
Dichlorodifluoromethane	50.00	66.3	133	5.05	30	30 - 155
1,1-Dichloroethane	50.00	54.7	109	2.98	30	70 - 135
1,2-Dichloroethane	50.00	61.2	122	10.5	30	70 - 130
1,1-Dichloroethene	50.00	57.1	114	0.611	30	70 - 130
cis-1,2-Dichloroethene	50.00	51.9	104	0.0845	30	70 - 125
trans-1,2-Dichloroethene	50.00	52.3	105	4.21	30	60 - 140
1,2-Dichloropropane	50.00	51.9	104	2.55	30	75 - 125
1,3-Dichloropropane	50.00	49.3	98.7	1.03	30	75 - 125
2,2-Dichloropropane	50.00	44.9	89.7	13.8	30	70 - 135
1,1-Dichloropropene	50.00	53.5	107	5.97	30	75 - 130
cis-1,3-Dichloropropene	50.00	51.4	103	1.94	30	70 - 130
trans-1,3-Dichloropropene	50.00	55.4	111	3.10	30	55 - 140
Ethylbenzene	50.00	54.0	108	1.78	30	75 - 125
Hexachlorobutadiene	50.00	46.0	92.0	9.00	30	50 - 140
2-Hexanone	100.0	108	108	0.464	30	55 - 130
Isopropylbenzene	50.00	57.1	114	3.99	30	75 - 125
p-Isopropyltoluene	50.00	53.5	107	1.65	30	75 - 130
Methylene chloride	50.00	53.6	107	0.239	30	55 - 140
Naphthalene	50.00	52.6	105	0.991	30	55 - 140
4-Methyl-2-pentanone	100.0	108	108	1.30	30	60 - 135
Methyl t-Butyl Ether	100.0	105	105	2.70	30	65 - 125
n-Propylbenzene	50.00	53.6	107	1.15	30	70 - 130
Styrene	50.00	55.9	112	2.39	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.7	99.4	3.57	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.4	107	0.699	30	80 - 130
Tetrachloroethene	50.00	51.8	104	1.13	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15006	Laboratory ID:	1B15006-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	49.6	99.2	4.27	30	75 - 120
1,2,3-Trichlorobenzene	50.00	49.8	99.6	6.87	30	55 - 140
1,2,4-Trichlorobenzene	50.00	50.6	101	0.163	30	65 - 135
1,1,2-Trichloroethane	50.00	48.4	96.9	0.937	30	75 - 125
1,1,1-Trichloroethane	50.00	56.4	113	8.17	30	65 - 130
Trichloroethene	50.00	55.4	111	7.44	30	70 - 125
Trichlorofluoromethane	50.00	57.0	114	8.58	30	60 - 145
1,2,3-Trichloropropane	50.00	49.9	99.8	5.95	30	75 - 125
1,3,5-Trimethylbenzene	50.00	53.3	107	3.26	30	75 - 130
1,2,4-Trimethylbenzene	50.00	56.0	112	6.60	30	75 - 130
Vinyl chloride	50.00	58.7	117	6.20	30	50 - 145
m,p-Xylene	100.0	104	104	0.348	30	75 - 130
o-Xylene	50.00	53.0	106	0.985	30	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B15004

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acetone	100.0	ND	121	121		40 - 140
Benzene	50.00	ND	52.6	105		80 - 120
Bromobenzene	50.00	ND	53.2	106		75 - 125
Bromochloromethane	50.00	ND	54.9	110		65 - 130
Bromodichloromethane	50.00	ND	63.3	127	*	75 - 120
Bromoform	50.00	ND	51.1	102		70 - 130
Bromomethane	50.00	ND	37.8	75.6		30 - 145
n-Butylbenzene	50.00	ND	52.0	104		70 - 135
2-Butanone	100.0	ND	99.2	99.2		30 - 150
sec-Butylbenzene	50.00	ND	53.1	106		70 - 125
tert-Butylbenzene	50.00	ND	54.4	109		70 - 130
Carbon disulfide	50.00	ND	59.0	118		35 - 160
Carbon tetrachloride	50.00	ND	54.6	109		65 - 140
Chlorobenzene	50.00	ND	53.3	107		80 - 120
Chloroethane	50.00	ND	54.4	109		60 - 135
Chloroform	50.00	ND	55.2	110		65 - 135
Chloromethane	50.00	ND	59.5	119		40 - 125
2-Chlorotoluene	50.00	ND	53.0	106		75 - 125
4-Chlorotoluene	50.00	ND	53.4	107		75 - 130
Dibromochloromethane	50.00	ND	53.9	108		60 - 135
1,2-Dibromo-3-chloropropane	50.00	ND	46.2	92.3		50 - 130
1,2-Dibromoethane (EDB)	50.00	ND	54.6	109		80 - 120
Dibromomethane	50.00	ND	56.6	113		75 - 125
1,2-Dichlorobenzene	50.00	ND	53.1	106		70 - 120
1,3-Dichlorobenzene	50.00	ND	53.0	106		75 - 125
1,4-Dichlorobenzene	50.00	ND	52.2	104		75 - 125
Dichlorodifluoromethane	50.00	ND	83.6	167	*	30 - 155
1,1-Dichloroethane	50.00	ND	54.7	109		70 - 135
1,2-Dichloroethane	50.00	ND	58.8	118		70 - 130
1,1-Dichloroethene	50.00	ND	59.0	118		70 - 130
cis-1,2-Dichloroethene	50.00	ND	51.9	104		70 - 125
trans-1,2-Dichloroethene	50.00	ND	54.4	109		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B15004

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dichloropropane	50.00	ND	54.5	109		75 - 125
1,3-Dichloropropane	50.00	ND	52.2	104		75 - 125
2,2-Dichloropropane	50.00	ND	37.4	74.7		70 - 135
1,1-Dichloropropene	50.00	ND	55.7	111		75 - 130
cis-1,3-Dichloropropene	50.00	ND	50.6	101		70 - 130
trans-1,3-Dichloropropene	50.00	ND	57.5	115		55 - 140
Ethylbenzene	50.00	ND	53.6	107		75 - 125
Hexachlorobutadiene	50.00	0.634	49.1	96.9		50 - 140
2-Hexanone	100.0	ND	102	102		55 - 130
Isopropylbenzene	50.00	ND	56.4	113		75 - 125
p-Isopropyltoluene	50.00	ND	53.2	106		75 - 130
Methylene chloride	50.00	ND	53.3	107		55 - 140
Naphthalene	50.00	ND	49.3	98.5		55 - 140
4-Methyl-2-pentanone	100.0	ND	119	119		60 - 135
Methyl t-Butyl Ether	100.0	ND	103	103		65 - 125
n-Propylbenzene	50.00	ND	53.5	107		70 - 130
Styrene	50.00	ND	53.9	108		65 - 135
1,1,2,2-Tetrachloroethane	50.00	ND	49.9	99.9		65 - 130
1,1,1,2-Tetrachloroethane	50.00	ND	62.5	125		80 - 130
Tetrachloroethene	50.00	ND	52.5	105		45 - 150
Toluene	50.00	10.9	61.4	101		75 - 120
1,2,3-Trichlorobenzene	50.00	ND	47.3	94.6		55 - 140
1,2,4-Trichlorobenzene	50.00	ND	47.0	93.9		65 - 135
1,1,2-Trichloroethane	50.00	ND	50.8	102		75 - 125
1,1,1-Trichloroethane	50.00	ND	58.7	117		65 - 130
Trichloroethene	50.00	ND	56.0	112		70 - 125
Trichlorofluoromethane	50.00	ND	63.0	126		60 - 145
1,2,3-Trichloropropane	50.00	ND	55.1	110		75 - 125
1,3,5-Trimethylbenzene	50.00	ND	52.5	105		75 - 130
1,2,4-Trimethylbenzene	50.00	ND	53.3	107		75 - 130
Vinyl chloride	50.00	ND	57.7	115		50 - 145
m,p-Xylene	100.0	ND	99.2	99.2		75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B15004

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
o-Xylene	50.00	ND	51.2	102		80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B15004

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	129	129	6.47		30	40 - 140
Benzene	50.00	53.0	106	0.817		30	80 - 120
Bromobenzene	50.00	52.7	105	0.936		30	75 - 125
Bromochloromethane	50.00	56.9	114	3.72		30	65 - 130
Bromodichloromethane	50.00	65.9	132	4.14	*	30	75 - 120
Bromoform	50.00	54.2	108	5.99		30	70 - 130
Bromomethane	50.00	40.5	81.0	6.91		30	30 - 145
n-Butylbenzene	50.00	52.3	105	0.642		30	70 - 135
2-Butanone	100.0	107	107	7.35		30	30 - 150
sec-Butylbenzene	50.00	51.5	103	2.99		30	70 - 125
tert-Butylbenzene	50.00	53.5	107	1.63		30	70 - 130
Carbon disulfide	50.00	60.0	120	1.61		30	35 - 160
Carbon tetrachloride	50.00	57.7	115	5.48		30	65 - 140
Chlorobenzene	50.00	53.4	107	0.142		30	80 - 120
Chloroethane	50.00	58.2	116	6.85		30	60 - 135
Chloroform	50.00	57.2	114	3.44		30	65 - 135
Chloromethane	50.00	62.0	124	4.03		30	40 - 125
2-Chlorotoluene	50.00	51.8	104	2.36		30	75 - 125
4-Chlorotoluene	50.00	53.4	107	0.0500		30	75 - 130
Dibromochloromethane	50.00	55.9	112	3.74		30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.8	99.7	7.66		30	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.1	110	0.847		30	80 - 120
Dibromomethane	50.00	58.0	116	2.52		30	75 - 125
1,2-Dichlorobenzene	50.00	53.9	108	1.43		30	70 - 120
1,3-Dichlorobenzene	50.00	52.7	105	0.477		30	75 - 125
1,4-Dichlorobenzene	50.00	51.5	103	1.41		30	75 - 125
Dichlorodifluoromethane	50.00	84.4	169	1.05	*	30	30 - 155
1,1-Dichloroethane	50.00	55.8	112	2.07		30	70 - 135
1,2-Dichloroethane	50.00	60.0	120	1.95		30	70 - 130
1,1-Dichloroethene	50.00	59.8	120	1.30		30	70 - 130
cis-1,2-Dichloroethene	50.00	54.0	108	4.01		30	70 - 125
trans-1,2-Dichloroethene	50.00	55.9	112	2.61		30	60 - 140
1,2-Dichloropropane	50.00	53.7	107	1.40		30	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B15004

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichloropropane	50.00	53.5	107	2.44		30	75 - 125
2,2-Dichloropropane	50.00	38.5	76.9	2.87		30	70 - 135
1,1-Dichloropropene	50.00	56.2	112	0.762		30	75 - 130
cis-1,3-Dichloropropene	50.00	51.4	103	1.66		30	70 - 130
trans-1,3-Dichloropropene	50.00	57.8	116	0.488		30	55 - 140
Ethylbenzene	50.00	53.3	107	0.549		30	75 - 125
Hexachlorobutadiene	50.00	52.2	103	6.04		30	50 - 140
2-Hexanone	100.0	111	111	8.85		30	55 - 130
Isopropylbenzene	50.00	56.9	114	0.889		30	75 - 125
p-Isopropyltoluene	50.00	53.0	106	0.383		30	75 - 130
Methylene chloride	50.00	53.2	106	0.162		30	55 - 140
Naphthalene	50.00	52.9	106	7.23		30	55 - 140
4-Methyl-2-pentanone	100.0	127	127	6.22		30	60 - 135
Methyl t-Butyl Ether	100.0	107	107	4.44		30	65 - 125
n-Propylbenzene	50.00	53.1	106	0.643		30	70 - 130
Styrene	50.00	54.3	109	0.725		30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	52.2	104	4.36		30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	64.0	128	2.49		30	80 - 130
Tetrachloroethene	50.00	52.5	105	0.0495		30	45 - 150
Toluene	50.00	59.6	97.3	3.05		30	75 - 120
1,2,3-Trichlorobenzene	50.00	48.4	96.8	2.32		30	55 - 140
1,2,4-Trichlorobenzene	50.00	48.9	97.7	3.97		30	65 - 135
1,1,2-Trichloroethane	50.00	52.3	105	2.92		30	75 - 125
1,1,1-Trichloroethane	50.00	59.8	120	1.76		30	65 - 130
Trichloroethene	50.00	57.4	115	2.38		30	70 - 125
Trichlorofluoromethane	50.00	61.1	122	3.07		30	60 - 145
1,2,3-Trichloropropane	50.00	57.8	116	4.71		30	75 - 125
1,3,5-Trimethylbenzene	50.00	52.6	105	0.151		30	75 - 130
1,2,4-Trimethylbenzene	50.00	53.3	107	0.0604		30	75 - 130
Vinyl chloride	50.00	61.7	123	6.78		30	50 - 145
m,p-Xylene	100.0	98.7	98.7	0.494		30	75 - 130
o-Xylene	50.00	51.8	104	1.15		30	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B12014 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/12/11 00:00	5.00	5.00
GW0028	1102062-03	02/12/11 00:00	5.00	5.00
GW8009-TB	1102062-05	02/12/11 00:00	5.00	5.00
GW0029	1102062-06	02/12/11 00:00	5.00	5.00
GW0033	1102063-01	02/12/11 00:00	5.00	5.00
GW8008-TB	1102063-03	02/12/11 00:00	5.00	5.00
Blank	1B12014-BLK1	02/12/11 00:00	5.00	5.00
LCS	1B12014-BS1	02/12/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B14003 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0025	1102076-01	02/14/11 00:00	5.00	5.00
GW0027	1102076-03	02/14/11 00:00	5.00	5.00
GW8001-AB	1102076-05	02/14/11 00:00	5.00	5.00
GW8001-RB	1102076-06	02/14/11 00:00	5.00	5.00
GW8010-TB	1102076-08	02/14/11 00:00	5.00	5.00
Blank	1B14003-BLK1	02/14/11 00:00	5.00	5.00
LCS	1B14003-BS1	02/14/11 00:00	5.00	5.00
LCS Dup	1B14003-BSD1	02/14/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B15001 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0023	1102088-01	02/15/11 00:00	5.00	5.00
GW8012-TB	1102088-05	02/15/11 00:00	5.00	5.00
Blank	1B15001-BLK1	02/15/11 00:00	5.00	5.00
LCS	1B15001-BS1	02/15/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B15004 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0026	1102088-03	02/15/11 00:00	5.00	5.00
Blank	1B15004-BLK1	02/15/11 00:00	5.00	5.00
LCS	1B15004-BS1	02/15/11 00:00	5.00	5.00
GW0026	1B15004-MS1	02/15/11 00:00	5.00	5.00
GW0026	1B15004-MSD1	02/15/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B15006 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0024	1102097-01	02/15/11 00:00	5.00	5.00
GW0030	1102097-02	02/15/11 00:00	5.00	5.00
GW8011-TB	1102097-03	02/15/11 00:00	5.00	5.00
Blank	1B15006-BLK1	02/15/11 00:00	5.00	5.00
LCS	1B15006-BS1	02/15/11 00:00	5.00	5.00
LCS Dup	1B15006-BSD1	02/15/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0207TU1.D	Injection Date:	02/07/11
Instrument ID:	MS-VOA4	Injection Time:	07:00
Sequence:	1B03901	Lab Sample ID:	1B03901-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.9	PASS
75	30 - 60% of 95	43.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.08	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	76.7	PASS
175	5 - 9% of 174	7.96	PASS
176	95 - 101% of 174	97.6	PASS
177	5 - 9% of 176	6.59	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0209TU1.D	Injection Date:	02/09/11
Instrument ID:	MS-VOA3	Injection Time:	07:36
Sequence:	1B04204	Lab Sample ID:	1B04204-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.8	PASS
75	30 - 60% of 95	45.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.87	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	92.7	PASS
175	5 - 9% of 174	7.25	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	6.27	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0212TU1E.D	Injection Date:	02/12/11
Instrument ID:	MS-VOA4	Injection Time:	23:09
Sequence:	1B04509	Lab Sample ID:	1B04509-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.9	PASS
75	30 - 60% of 95	44.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.41	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	73.3	PASS
175	5 - 9% of 174	7.82	PASS
176	95 - 101% of 174	97.4	PASS
177	5 - 9% of 176	6.08	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0214TU1E.D	Injection Date:	02/14/11
Instrument ID:	MS-VOA4	Injection Time:	20:15
Sequence:	1B04609	Lab Sample ID:	1B04609-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.7	PASS
75	30 - 60% of 95	44.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.56	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	77	PASS
175	5 - 9% of 174	8.22	PASS
176	95 - 101% of 174	95.8	PASS
177	5 - 9% of 176	7.09	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0215TU1.D	Injection Date:	02/15/11
Instrument ID:	MS-VOA3	Injection Time:	06:11
Sequence:	1B04702	Lab Sample ID:	1B04702-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.3	PASS
75	30 - 60% of 95	50.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.61	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	78.5	PASS
175	5 - 9% of 174	6.96	PASS
176	95 - 101% of 174	99	PASS
177	5 - 9% of 176	7.26	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0215TU1E.D	Injection Date:	02/15/11
Instrument ID:	MS-VOA3	Injection Time:	18:03
Sequence:	1B04703	Lab Sample ID:	1B04703-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.4	PASS
75	30 - 60% of 95	50.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.24	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	77.7	PASS
175	5 - 9% of 174	7.58	PASS
176	95 - 101% of 174	97.3	PASS
177	5 - 9% of 176	6.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0215TU1.D	Injection Date:	02/15/11
Instrument ID:	MS-VOA4	Injection Time:	08:49
Sequence:	1B04705	Lab Sample ID:	1B04705-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.7	PASS
75	30 - 60% of 95	45.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.46	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	56.5	PASS
175	5 - 9% of 174	8.02	PASS
176	95 - 101% of 174	98.8	PASS
177	5 - 9% of 176	7.13	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03901	Instrument:	MS-VOA4
Calibration:	1039001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03901-TUN1	0207TU1.D	02/07/11 07:00
Cal Standard	1B03901-CAL1	0207CAL1.D	02/07/11 07:30
Cal Standard	1B03901-CAL2	0207CAL2.D	02/07/11 07:59
Cal Standard	1B03901-CAL3	0207CAL3.D	02/07/11 08:29
Cal Standard	1B03901-CAL4	0207CAL4.D	02/07/11 08:59
Cal Standard	1B03901-CAL5	0207CAL5.D	02/07/11 09:29
Cal Standard	1B03901-CAL6	0207CAL6.D	02/07/11 09:58
Cal Standard	1B03901-CAL7	0207CAL7.D	02/07/11 10:28
Cal Standard	1B03901-CAL8	0207CAL8.D	02/07/11 10:58
Cal Standard	1B03901-CAL9	0207CAL9.D	02/07/11 11:27
Initial Cal Check	1B03901-ICV1	0207ICV1.D	02/07/11 11:57
Cal Standard	1B03901-CALA	0207CALA.D	02/07/11 12:56
Cal Standard	1B03901-CALB	0207CALB.D	02/07/11 13:26
Cal Standard	1B03901-CALC	0207CALC.D	02/07/11 13:56
Cal Standard	1B03901-CALD	0207CALD.D	02/07/11 14:25
Cal Standard	1B03901-CALE	0207CALE.D	02/07/11 14:55
Cal Standard	1B03901-CALF	0207CALF.D	02/07/11 15:25
Cal Standard	1B03901-CALG	0207CALG.D	02/07/11 15:54
Cal Standard	1B03901-CALH	0207CALH.D	02/07/11 16:24
Cal Standard	1B03901-CALI	0207CALI.D	02/07/11 16:54
Initial Cal Check	1B03901-ICV4	0207ICV4.D	02/07/11 17:53

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04204	Instrument:	MS-VOA3
Calibration:	1042001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04204-TUN1	0209TU1.D	02/09/11 07:36
Cal Standard	1B04204-CAL1	0209CAL1.D	02/09/11 08:01
Cal Standard	1B04204-CAL2	0209CAL2.D	02/09/11 08:31
Cal Standard	1B04204-CAL3	0209CAL3.D	02/09/11 09:01
Cal Standard	1B04204-CAL4	0209CAL4.D	02/09/11 09:31
Cal Standard	1B04204-CAL5	0209CAL5.D	02/09/11 10:01
Cal Standard	1B04204-CAL6	0209CAL6.D	02/09/11 10:30
Cal Standard	1B04204-CAL7	0209CAL7.D	02/09/11 11:00
Cal Standard	1B04204-CAL8	0209CAL8.D	02/09/11 11:30
Cal Standard	1B04204-CAL9	0209CAL9.D	02/09/11 12:00
Initial Cal Check	1B04204-ICV1	0209ICV1.D	02/09/11 12:30
Cal Standard	1B04204-CALA	0209CALA.D	02/09/11 13:29
Cal Standard	1B04204-CALB	0209CALB.D	02/09/11 13:59
Cal Standard	1B04204-CALC	0209CALC.D	02/09/11 14:29
Cal Standard	1B04204-CALE	0209CALE.D	02/09/11 15:34
Cal Standard	1B04204-CALF	0209CALF.D	02/09/11 16:04
Cal Standard	1B04204-CALG	0209CALG.D	02/09/11 16:34
Cal Standard	1B04204-CALH	0209CALH.D	02/09/11 17:04
Cal Standard	1B04204-CALI	0209CALI.D	02/09/11 17:33
Initial Cal Check	1B04204-ICV3	0209ICV3.D	02/09/11 18:03

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04509	Instrument:	MS-VOA4
Calibration:	1039001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04509-TUN1	0212TU1E.D	02/12/11 23:09
Calibration Check	1B04509-CCV1	0212CCVE.D	02/12/11 23:38
LCS	1B12014-BS1	0212LS1E.D	02/13/11 00:08
Blank	1B12014-BLK1	0212BL1E.D	02/13/11 01:36
GW8009-TB	1102062-05	0206205.D	02/13/11 02:35
GW8008-TB	1102063-03	0206303.D	02/13/11 03:04
GW0014	1102062-01	0206201.D	02/13/11 04:33
GW0028	1102062-03	0206203.D	02/13/11 05:03
GW0029	1102062-06	0206206.D	02/13/11 05:32
GW0033	1102063-01	0206301.D	02/13/11 06:02

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04609	Instrument:	MS-VOA4
Calibration:	1039001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04609-TUN1	0214TU1E.D	02/14/11 20:15
Calibration Check	1B04609-CCV1	0214CCVE.D	02/14/11 20:45
LCS	1B14003-BS1	0214LS1E.D	02/14/11 21:14
Blank	1B14003-BLK1	0214BL1E.D	02/14/11 23:12
GW8010-TB	1102076-08	0207608.D	02/14/11 23:41
GW8001-RB	1102076-06	0207606.D	02/15/11 01:10
GW8001-AB	1102076-05	0207605.D	02/15/11 02:39
GW0025	1102076-01	0207601.D	02/15/11 04:37
GW0027	1102076-03	0207603.D	02/15/11 05:07
LCS Dup	1B14003-BSD1	0214LD1E.D	02/15/11 08:04

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04702	Instrument:	MS-VOA3
Calibration:	1042001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04702-TUN1	0215TU1.D	02/15/11 06:11
Calibration Check	1B04702-CCV1	0215CCV1.D	02/15/11 06:36
LCS	1B15001-BS1	0215LS1.D	02/15/11 07:36
Blank	1B15001-BLK1	0215BL1.D	02/15/11 09:32
GW8012-TB	1102088-05	0208805.D	02/15/11 10:02
GW0023	1102088-01	0208801.D	02/15/11 12:31

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04703	Instrument:	MS-VOA3
Calibration:	1042001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04703-TUN1	0215TU1E.D	02/15/11 18:03
Calibration Check	1B04703-CCV1	0215CCVE.D	02/15/11 18:28
LCS	1B15004-BS1	0215LS1E.D	02/15/11 18:58
Blank	1B15004-BLK1	0215BLE.D	02/15/11 20:25
GW0026	1102088-03	0208803.D	02/15/11 20:54
GW0026	1B15004-MS1	0208803M.D	02/16/11 01:52
GW0026	1B15004-MSD1	0208803S.D	02/16/11 02:21

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04705	Instrument:	MS-VOA4
Calibration:	1039001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04705-TUN1	0215TU1.D	02/15/11 08:49
Calibration Check	1B04705-CCV1	0215CCV1.D	02/15/11 09:18
LCS	1B15006-BS1	0215LS1.D	02/15/11 10:05
Blank	1B15006-BLK1	0215BL1.D	02/15/11 11:33
GW8011-TB	1102097-03	0209703.D	02/15/11 12:03
GW0024	1102097-01	0209701.D	02/15/11 13:32
GW0030	1102097-02	0209702.D	02/15/11 14:01
LCS Dup	1B15006-BSD1	0215LD1.D	02/15/11 19:30

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04509
Instrument: MS-VOA4
Calibration: 1039001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04509-CCV1)			Lab File ID: 0212CCVE.D			Analyzed: 02/12/11 23:38			
Fluorobenzene	1035568	11.765	1304022	11.784	79	50 - 200	-0.0190	+/-0.50	
Chlorobenzene-d5	421911	15.493	481913	15.512	88	50 - 200	-0.0190	+/-0.50	
1,4-Dichlorobenzene-d4	465529	17.386	491484	17.405	95	50 - 200	-0.0190	+/-0.50	
LCS (1B12014-BS1)			Lab File ID: 0212LS1E.D			Analyzed: 02/13/11 00:08			
Fluorobenzene	1098548	11.756	1035568	11.765	106	50 - 200	-0.0090	+/-0.50	
Chlorobenzene-d5	403101	15.494	421911	15.493	96	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	463296	17.387	465529	17.386	100	50 - 200	0.0010	+/-0.50	
Blank (1B12014-BLK1)			Lab File ID: 0212BL1E.D			Analyzed: 02/13/11 01:36			
Fluorobenzene	1092783	11.755	1035568	11.765	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	408207	15.493	421911	15.493	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	476740	17.386	465529	17.386	102	50 - 200	0.0000	+/-0.50	
GW8009-TB (1102062-05)			Lab File ID: 0206205.D			Analyzed: 02/13/11 02:35			
Fluorobenzene	1018152	11.806	1035568	11.765	98	50 - 200	0.0410	+/-0.50	
Chlorobenzene-d5	409856	15.504	421911	15.493	97	50 - 200	0.0110	+/-0.50	
1,4-Dichlorobenzene-d4	460896	17.388	465529	17.386	99	50 - 200	0.0020	+/-0.50	
GW8008-TB (1102063-03)			Lab File ID: 0206303.D			Analyzed: 02/13/11 03:04			
Fluorobenzene	1015368	11.776	1035568	11.765	98	50 - 200	0.0110	+/-0.50	
Chlorobenzene-d5	389255	15.494	421911	15.493	92	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	475473	17.387	465529	17.386	102	50 - 200	0.0010	+/-0.50	
GW0014 (1102062-01)			Lab File ID: 0206201.D			Analyzed: 02/13/11 04:33			
Fluorobenzene	1002193	11.786	1035568	11.765	97	50 - 200	0.0210	+/-0.50	
Chlorobenzene-d5	368451	15.494	421911	15.493	87	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	454009	17.387	465529	17.386	98	50 - 200	0.0010	+/-0.50	
GW0028 (1102062-03)			Lab File ID: 0206203.D			Analyzed: 02/13/11 05:03			
Fluorobenzene	1004644	11.765	1035568	11.765	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	386114	15.492	421911	15.493	92	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	440314	17.386	465529	17.386	95	50 - 200	0.0000	+/-0.50	
GW0029 (1102062-06)			Lab File ID: 0206206.D			Analyzed: 02/13/11 05:32			
Fluorobenzene	1046295	11.77	1035568	11.765	101	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	374283	15.498	421911	15.493	89	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	469040	17.391	465529	17.386	101	50 - 200	0.0050	+/-0.50	
GW0033 (1102063-01)			Lab File ID: 0206301.D			Analyzed: 02/13/11 06:02			
Fluorobenzene	1008042	11.766	1035568	11.765	97	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	381553	15.493	421911	15.493	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	437084	17.387	465529	17.386	94	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04609	Instrument:	MS-VOA4
		Calibration:	1039001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04609-CCV1)			Lab File ID: 0214CCVE.D			Analyzed: 02/14/11 20:45			
Fluorobenzene	1027413	11.779	1304022	11.784	79	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	406799	15.497	481913	15.512	84	50 - 200	-0.0150	+/-0.50	
1,4-Dichlorobenzene-d4	450307	17.381	491484	17.405	92	50 - 200	-0.0240	+/-0.50	
LCS (1B14003-BS1)			Lab File ID: 0214LS1E.D			Analyzed: 02/14/11 21:14			
Fluorobenzene	1098365	11.751	1027413	11.779	107	50 - 200	-0.0280	+/-0.50	
Chlorobenzene-d5	430632	15.489	406799	15.497	106	50 - 200	-0.0080	+/-0.50	
1,4-Dichlorobenzene-d4	480498	17.382	450307	17.381	107	50 - 200	0.0010	+/-0.50	
Blank (1B14003-BLK1)			Lab File ID: 0214BL1E.D			Analyzed: 02/14/11 23:12			
Fluorobenzene	1107157	11.779	1027413	11.779	108	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	417148	15.496	406799	15.497	103	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	523697	17.38	450307	17.381	116	50 - 200	-0.0010	+/-0.50	
GW8010-TB (1102076-08)			Lab File ID: 0207608.D			Analyzed: 02/14/11 23:41			
Fluorobenzene	1140444	11.755	1027413	11.779	111	50 - 200	-0.0240	+/-0.50	
Chlorobenzene-d5	391702	15.482	406799	15.497	96	50 - 200	-0.0150	+/-0.50	
1,4-Dichlorobenzene-d4	488061	17.386	450307	17.381	108	50 - 200	0.0050	+/-0.50	
GW8001-RB (1102076-06)			Lab File ID: 0207606.D			Analyzed: 02/15/11 01:10			
Fluorobenzene	1053486	11.756	1027413	11.779	103	50 - 200	-0.0230	+/-0.50	
Chlorobenzene-d5	399783	15.483	406799	15.497	98	50 - 200	-0.0140	+/-0.50	
1,4-Dichlorobenzene-d4	466461	17.387	450307	17.381	104	50 - 200	0.0060	+/-0.50	
GW8001-AB (1102076-05)			Lab File ID: 0207605.D			Analyzed: 02/15/11 02:39			
Fluorobenzene	1013527	11.751	1027413	11.779	99	50 - 200	-0.0280	+/-0.50	
Chlorobenzene-d5	405922	15.488	406799	15.497	100	50 - 200	-0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	452772	17.382	450307	17.381	101	50 - 200	0.0010	+/-0.50	
GW0025 (1102076-01)			Lab File ID: 0207601.D			Analyzed: 02/15/11 04:37			
Fluorobenzene	953085	11.769	1027413	11.779	93	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	372763	15.487	406799	15.497	92	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	462048	17.38	450307	17.381	103	50 - 200	-0.0010	+/-0.50	
GW0027 (1102076-03)			Lab File ID: 0207603.D			Analyzed: 02/15/11 05:07			
Fluorobenzene	925584	11.756	1027413	11.779	90	50 - 200	-0.0230	+/-0.50	
Chlorobenzene-d5	378479	15.484	406799	15.497	93	50 - 200	-0.0130	+/-0.50	
1,4-Dichlorobenzene-d4	469279	17.387	450307	17.381	104	50 - 200	0.0060	+/-0.50	
LCS Dup (1B14003-BSD1)			Lab File ID: 0214LD1E.D			Analyzed: 02/15/11 08:04			
Fluorobenzene	1069083	11.766	1027413	11.779	104	50 - 200	-0.0130	+/-0.50	
Chlorobenzene-d5	428619	15.483	406799	15.497	105	50 - 200	-0.0140	+/-0.50	
1,4-Dichlorobenzene-d4	484007	17.387	450307	17.381	107	50 - 200	0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04702	Instrument:	MS-VOA3
		Calibration:	1042001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04702-CCV1)			Lab File ID: 0215CCV1.D			Analyzed: 02/15/11 06:36			
Fluorobenzene	1179789	12.359	1314641	12.359	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	624130	15.991	660505	15.997	94	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	703131	17.968	723449	17.974	97	50 - 200	-0.0060	+/-0.50	
LCS (1B15001-BS1)			Lab File ID: 0215LS1.D			Analyzed: 02/15/11 07:36			
Fluorobenzene	1267920	12.353	1179789	12.359	107	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	625047	15.991	624130	15.991	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	727670	17.968	703131	17.968	103	50 - 200	0.0000	+/-0.50	
Blank (1B15001-BLK1)			Lab File ID: 0215BL1.D			Analyzed: 02/15/11 09:32			
Fluorobenzene	1167045	12.353	1179789	12.359	99	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	582437	15.991	624130	15.991	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	656542	17.968	703131	17.968	93	50 - 200	0.0000	+/-0.50	
GW8012-TB (1102088-05)			Lab File ID: 0208805.D			Analyzed: 02/15/11 10:02			
Fluorobenzene	1218498	12.353	1179789	12.359	103	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	583103	15.991	624130	15.991	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	699131	17.968	703131	17.968	99	50 - 200	0.0000	+/-0.50	
GW0023 (1102088-01)			Lab File ID: 0208801.D			Analyzed: 02/15/11 12:31			
Fluorobenzene	1186112	12.359	1179789	12.359	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	579918	15.991	624130	15.991	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	677502	17.974	703131	17.968	96	50 - 200	0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04703	Instrument:	MS-VOA3
		Calibration:	1042001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04703-CCV1)			Lab File ID: 0215CCVE.D			Analyzed: 02/15/11 18:28			
Fluorobenzene	1167779	12.366	1314641	12.359	89	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	610054	15.997	660505	15.997	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	680716	17.975	723449	17.974	94	50 - 200	0.0010	+/-0.50	
LCS (1B15004-BS1)			Lab File ID: 0215LS1E.D			Analyzed: 02/15/11 18:58			
Fluorobenzene	1246465	12.365	1167779	12.366	107	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	631715	15.997	610054	15.997	104	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	709611	17.974	680716	17.975	104	50 - 200	-0.0010	+/-0.50	
Blank (1B15004-BLK1)			Lab File ID: 0215BLE.D			Analyzed: 02/15/11 20:25			
Fluorobenzene	1189538	12.365	1167779	12.366	102	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	578591	15.997	610054	15.997	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	661155	17.974	680716	17.975	97	50 - 200	-0.0010	+/-0.50	
GW0026 (1102088-03)			Lab File ID: 0208803.D			Analyzed: 02/15/11 20:54			
Fluorobenzene	1152548	12.365	1167779	12.366	99	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	561363	15.997	610054	15.997	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	649603	17.975	680716	17.975	95	50 - 200	0.0000	+/-0.50	
Matrix Spike (1B15004-MS1)			Lab File ID: 0208803M.D			Analyzed: 02/16/11 01:52			
Fluorobenzene	1138496	12.365	1167779	12.366	97	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	582626	15.997	610054	15.997	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	662556	17.974	680716	17.975	97	50 - 200	-0.0010	+/-0.50	
Matrix Spike Dup (1B15004-MSD1)			Lab File ID: 0208803S.D			Analyzed: 02/16/11 02:21			
Fluorobenzene	1144935	12.365	1167779	12.366	98	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	598456	15.997	610054	15.997	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	681563	17.974	680716	17.975	100	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04705	Instrument:	MS-VOA4
		Calibration:	1039001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04705-CCV1)			Lab File ID: 0215CCV1.D			Analyzed: 02/15/11 09:18			
Fluorobenzene	1101047	11.75	1304022	11.784	84	50 - 200	-0.0340	+/-0.50	
Chlorobenzene-d5	429151	15.487	481913	15.512	89	50 - 200	-0.0250	+/-0.50	
1,4-Dichlorobenzene-d4	469992	17.38	491484	17.405	96	50 - 200	-0.0250	+/-0.50	
LCS (1B15006-BS1)			Lab File ID: 0215LS1.D			Analyzed: 02/15/11 10:05			
Fluorobenzene	1224807	11.78	1101047	11.75	111	50 - 200	0.0300	+/-0.50	
Chlorobenzene-d5	454394	15.498	429151	15.487	106	50 - 200	0.0110	+/-0.50	
1,4-Dichlorobenzene-d4	525324	17.391	469992	17.38	112	50 - 200	0.0110	+/-0.50	
Blank (1B15006-BLK1)			Lab File ID: 0215BL1.D			Analyzed: 02/15/11 11:33			
Fluorobenzene	1133604	11.77	1101047	11.75	103	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	411549	15.488	429151	15.487	96	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	495010	17.381	469992	17.38	105	50 - 200	0.0010	+/-0.50	
GW8011-TB (1102097-03)			Lab File ID: 0209703.D			Analyzed: 02/15/11 12:03			
Fluorobenzene	1074898	11.769	1101047	11.75	98	50 - 200	0.0190	+/-0.50	
Chlorobenzene-d5	401382	15.487	429151	15.487	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	501306	17.39	469992	17.38	107	50 - 200	0.0100	+/-0.50	
GW0024 (1102097-01)			Lab File ID: 0209701.D			Analyzed: 02/15/11 13:32			
Fluorobenzene	998701	11.81	1101047	11.75	91	50 - 200	0.0600	+/-0.50	
Chlorobenzene-d5	384910	15.498	429151	15.487	90	50 - 200	0.0110	+/-0.50	
1,4-Dichlorobenzene-d4	447181	17.391	469992	17.38	95	50 - 200	0.0110	+/-0.50	
GW0030 (1102097-02)			Lab File ID: 0209702.D			Analyzed: 02/15/11 14:01			
Fluorobenzene	986733	11.765	1101047	11.75	90	50 - 200	0.0150	+/-0.50	
Chlorobenzene-d5	377558	15.493	429151	15.487	88	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	446506	17.386	469992	17.38	95	50 - 200	0.0060	+/-0.50	
LCS Dup (1B15006-BSD1)			Lab File ID: 0215LD1.D			Analyzed: 02/15/11 19:30			
Fluorobenzene	1042559	11.77	1101047	11.75	95	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	401786	15.498	429151	15.487	94	50 - 200	0.0110	+/-0.50	
1,4-Dichlorobenzene-d4	469073	17.391	469992	17.38	100	50 - 200	0.0110	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

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	4.152623E-02	5.002	4.142119E-02	10	4.206971E-02	25.01	3.394957E-02	50.02	3.830479E-02	250.1	4.238086E-02
Acrylonitrile	2.499	6.970656E-02	4.998	7.413922E-02	9.996	7.531913E-02	24.99	0.0618476	49.98	7.185677E-02	249.9	8.521366E-02
Benzene	0.5	0.778119	1	0.8152918	2	0.8600903	5	0.739877	10	0.7896258	50	0.8794969
Bromobenzene	0.5	0.71772	1	0.7359208	2	0.7348263	5	0.6538562	10	0.6646496	50	0.7759657
Bromochloromethane	0.5	0.1254828	1	0.1342683	2	0.1596019	5	0.1357289	10	0.1510112	50	0.1712886
Tert-Amyl Methyl Ether	0.5	~~1.197054~~	1	0.8840889	2	0.7587682	5	0.5786786	10	0.593726	50	0.6358589
Bromodichloromethane	0.5	0.2788406	1	0.303277	2	0.30093	5	0.2642617	10	0.2884465	50	0.3385899
Bromoform	0.5	0.4867608	1	0.5283487	2	0.5448951	5	0.4811944	10	0.5532868	50	0.6757829
Bromomethane	0.5	0.1235495	1	0.1446107	2	0.1062301	5	9.196699E-02	10	9.537798E-02	50	0.1427209
Bromofluorobenzene	30	0.9678776	30	0.9406434	30	0.9893832	30	0.9200337	30	0.9633404	30	0.9985577
n-Butylbenzene	0.5	1.144099	1	1.270553	2	1.309962	5	1.096785	10	1.155022	50	1.308219
2-Butanone												
sec-Butylbenzene	0.5	1.66381	1	1.742697	2	1.870273	5	1.528009	10	1.599074	50	1.793668
tert-Butylbenzene	0.5	1.190509	1	1.227198	2	1.24904	5	1.116889	10	1.140256	50	1.283874
Carbon disulfide	0.5	0.7458378	1	0.7754487	2	0.7578437	5	0.6626988	10	0.688709	50	0.7946224
Carbon tetrachloride	0.5	0.2510105	1	0.2693112	2	0.2881806	5	0.2470081	10	0.2684516	50	0.316859
Chlorobenzene	0.5	1.584466	1	1.662913	2	1.723347	5	1.458434	10	1.571073	50	1.765307
Chloroethane	0.5	0.1641032	1	0.1740887	2	0.1314322	5	0.1607545	10	0.1372189	50	0.180331
Chloroform	0.5	0.4646144	1	0.4541751	2	0.4375327	5	0.3777413	10	0.4034578	50	0.4514354
2-Chloroethyl vinyl ether	0.9975	0.1240394	1.995	0.1197033	3.99	0.1356807	9.975	0.1227722	19.95	0.1391346	99.75	0.1532498
Chloromethane	0.5	0.2249788	1	0.2112893	2	0.2116726	5	0.1659674	10	0.1680107	50	0.1998173
1-Chlorohexane	0.501	1.625229	1.002	1.531513	2.004	1.49712	5.01	1.268525	10.02	1.316753	50.1	1.431651
2-Chlorotoluene	0.5	1.441471	1	1.528357	2	1.629262	5	1.29342	10	1.299	50	1.448114
4-Chlorotoluene	0.5	1.345687	1	1.678218	2	1.621336	5	1.341733	10	1.419661	50	1.533932
Cyclohexane	0.5	0.2864837	1	0.2774894	2	0.2813893	5	0.2492746	10	0.2539741	50	0.2978029
Dibromochloromethane	0.5	0.6638101	1	0.7089993	2	0.7798496	5	0.6456908	10	0.7271221	50	0.8709974
1,2-Dibromo-3-chloropropane	0.5	0.1134695	1	0.1227088	2	0.1319349	5	0.1133792	10	0.1328017	50	0.1620074
1,2-Dibromoethane (EDB)	0.5	0.6254078	1	0.6446083	2	0.6704798	5	0.5640158	10	0.6132271	50	0.7439216
Dibromomethane	0.5	0.1530881	1	0.1798749	2	0.1711415	5	0.1511598	10	0.1612561	50	0.1824719
1,2-Dichlorobenzene	0.5	1.053835	1	1.130812	2	1.11045	5	0.987201	10	1.033857	50	1.152756

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

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	1.195927	1	1.246	2	1.10604	5	0.9791318	10	1.085418	50	1.113399
1,4-Dichlorobenzene	0.5	1.277912	1	1.250535	2	1.262106	5	1.148084	10	1.239656	50	1.283196
Dichlorodifluoromethane	0.5	0.2296546	1	0.1946367	2	0.22037	5	0.2070284	10	0.2168869	50	0.2394676
1,1-Dichloroethane	0.5	0.3720422	1	0.4104365	2	0.4366653	5	0.3611866	10	0.3895418	50	0.4461858
1,2-Dichloroethane	0.5	0.2430076	1	0.2844375	2	0.2850646	5	0.2627554	10	0.2747684	50	0.317187
1,1-Dichloroethene	0.5	0.2092428	1	0.2184879	2	0.2310992	5	0.1880845	10	0.2071083	50	0.2342904
cis-1,2-Dichloroethene	0.5	0.2763228	1	0.2708831	2	0.2733538	5	0.2409453	10	0.2649898	50	0.2866975
trans-1,2-Dichloroethene	0.5	0.2316778	1	0.2791524	2	0.2704204	5	0.2204573	10	0.2485423	50	0.2760538
1,2-Dichloroethene (total)	1	0.2540003	2	0.2750177	4	0.2718871	10	0.2307013	20	0.2567661	100	0.2813756
1,2-Dichloropropane	0.5	0.1983176	1	0.2252309	2	0.2253123	5	0.1952239	10	0.2052834	50	0.2291204
1,3-Dichloropropane	0.5	0.8560706	1	0.8644782	2	0.9414785	5	0.8017535	10	0.8598185	50	0.9695278
2,2-Dichloropropane	0.5	0.3040181	1	0.3499315	2	0.3249793	5	0.2679353	10	0.3053818	50	0.3359196
1,1-Dichloropropene	0.5	0.2696238	1	0.30068	2	0.3059408	5	0.2686105	10	0.2891436	50	0.3246194
cis-1,3-Dichloropropene	0.5	0.3021297	1	0.3344407	2	0.3675535	5	0.3155738	10	0.3462115	50	0.3934391
trans-1,3-Dichloropropene	0.5	0.6832605	1	0.8126095	2	0.8553241	5	0.7160067	10	0.8198452	50	0.9270638
Diisopropyl Ether	0.5	0.7690821	1	0.8165675	2	0.8134299	5	0.6973428	10	0.7754005	50	0.8620326
Ethylbenzene	0.5	2.467344	1	2.442914	2	2.632981	5	2.148705	10	2.335549	50	2.690279
Ethyl tert-Butyl Ether	0.5	0.6098795	1	0.6444152	2	0.6402339	5	0.5413526	10	0.6333637	50	0.7095217
Ethyl Methacrylate	0.5	0.5164352	1	0.5903242	2	0.6492831	5	0.5458834	10	0.6880525	50	0.8116846
Hexachlorobutadiene	0.5	0.3757782	1	0.292643	2	0.2983346	5	0.2398423	10	0.2664858	50	0.2680735
2-Hexanone												
Iodomethane	0.5	0.1849646	1	0.2276001	2	0.2543609	5	0.2351847	10	0.2835001	50	0.3931091
Isopropylbenzene	0.5	1.90889	1	1.850683	2	2.170431	5	1.706227	10	1.889779	50	2.088411
p-Isopropyltoluene	0.5	1.339758	1	1.42987	2	1.446442	5	1.224103	10	1.330571	50	1.429318
Methylene chloride	0.5	0.574586	1	0.5152497	2	0.3864437	5	0.2943444	10	0.2815944	50	0.2856696
Methyl Acetate	0.5	0.22916	1	0.1794877	2	0.1847584	5	0.1337363	10	0.1617343	50	0.1771065
Methylcyclohexane	0.5	0.2218316	1	0.2147291	2	0.2293414	5	0.1988927	10	0.2174864	50	0.2274178
Naphthalene	0.5	1.246835	1	1.207401	2	1.362552	5	1.157201	10	1.396832	50	1.463568
Methyl Methacrylate	0.5		1	0.1651132	2	0.1638023	5	0.1403232	10	0.1560194	50	0.1870903
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.5993139	1	0.5546372	2	0.5869191	5	0.5091922	10	0.5598626	50	0.6318372

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

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	2.037646	1	2.228666	2	2.175046	5	1.906634	10	1.943753	50	2.286057
Styrene	0.5	1.430733	1	1.618735	2	1.722403	5	1.493592	10	1.578984	50	1.842444
1,1,2,2-Tetrachloroethane	0.5	0.53852	1	0.5865579	2	0.5940993	5	0.5168621	10	0.5496999	50	0.616987
1,1,1,2-Tetrachloroethane	0.5	0.5822676	1	0.6514098	2	0.6478179	5	0.5695504	10	0.6146874	50	0.6990274
tert-Butyl alcohol	2.5	1.593375E-02	5	1.581423E-02	10	1.726481E-02	25	1.421081E-02	50	0.0175234	250	1.991447E-02
Tetrachloroethene	0.5	0.7475967	1	0.7460574	2	0.7885106	5	0.66974	10	0.7120601	50	0.8298451
Toluene	0.5	1.397692	1	1.398294	2	1.478364	5	1.219774	10	1.286434	50	1.408395
1,2,3-Trichlorobenzene	0.5	0.5632584	1	0.5362357	2	0.6055696	5	0.4761856	10	0.5897942	50	0.6169605
1,2,4-Trichlorobenzene	0.5	0.6165175	1	0.6386497	2	0.6741205	5	0.5600916	10	0.6050536	50	0.7096591
1,1,2-Trichloroethane	0.5	0.4761628	1	0.471522	2	0.5447323	5	0.4107468	10	0.4735039	50	0.5381214
1,1,1-Trichloroethane	0.5	0.2858543	1	0.3240756	2	0.321772	5	0.2787577	10	0.2990007	50	0.3493643
Tetrahydrofuran	0.5		1	5.879651E-02	2	5.522091E-02	5	4.552784E-02	10	4.834803E-02	50	5.682407E-02
Trichloroethene	0.5	0.224664	1	0.2414734	2	0.2423306	5	0.2129307	10	0.2315309	50	0.261202
Trichlorofluoromethane	0.5	0.3692547	1	0.3774503	2	0.3847087	5	0.3440936	10	0.3631134	50	0.4023697
1,2,3-Trichloropropane	0.5	0.1998662	1	0.1966052	2	0.1920076	5	0.1511211	10	0.1825058	50	0.2201321
1,3,5-Trimethylbenzene	0.5	1.389643	1	1.480302	2	1.520051	5	1.347774	10	1.438658	50	1.704915
1,2,4-Trimethylbenzene	0.5	1.584893	1	1.574864	2	1.596096	5	1.382136	10	1.365803	50	1.588125
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.228081	1	0.2386259	2	0.2525347	5	0.2081145	10	0.2281382	50	0.2375149
Vinyl chloride	0.5	0.1742641	1	0.1810823	2	0.1774876	5	0.163649	10	0.1692312	50	0.1797419
m,p-Xylene	1	1.976032	2	1.958043	4	2.085612	10	1.713494	20	1.833643	100	1.959378
o-Xylene	0.5	1.941183	1	1.934651	2	2.127224	5	1.754075	10	1.863623	50	2.090857
Vinyl acetate	0.9995		1.999	0.190586	3.998	0.2213996	9.995	0.1911902	19.99	0.2160289	99.95	0.2773694
Xylenes (total)	1.5	1.964416	3	1.950246	6	2.099482	15	1.727021	30	1.843637	150	2.003204
Dibromofluoromethane	30	0.325012	30	0.3269315	30	0.3174149	30	0.3281362	30	0.3226715	30	0.3320444
1,2-Dichloroethane-d4	30	0.0643974	30	6.627307E-02	30	6.218726E-02	30	6.198734E-02	30	6.554103E-02	30	6.700661E-02
Toluene-d8	30	2.409996	30	2.444371	30	2.409777	30	2.372545	30	2.356909	30	2.53709
tert-Amyl alcohol	2.5		5	6.633686E-03	10	9.621999E-03	25	7.634247E-03	50	1.026869E-02	250	0.0122729
tert-Amyl ethyl ether	0.5	0.4568364	1	0.5088483	2	0.5250438	5	0.4487953	10	0.5018835	50	0.5481365

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

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							1		2	0.0658061	4	0.0728068
Acrolein	500.2	0.0413036	750.3	3.961258E-02	1000	3.876816E-02						
Acrylonitrile	499.8	7.750116E-02	749.7	7.882312E-02	999.6	7.652937E-02						
Benzene	100	0.8516983	150	0.8512852	200	0.7996691						
Bromobenzene	100	0.7068939	150	0.7216877	200	0.7061684						
Bromochloromethane	100	0.1629999	150	0.1618392	200	0.1534695						
Tert-Amyl Methyl Ether	100	0.6158965	150	0.6145088	200	0.6015948						
Bromodichloromethane	100	0.3247043	150	0.3235724	200	0.3025021						
Bromoform	100	0.6286419	150	0.6269501	200	0.603962						
Bromomethane	100	0.1459236	150	0.1601583	200	0.1586283						
Bromofluorobenzene	30	0.9423679	30	0.9528659	30	0.9414127						
n-Butylbenzene	100	1.243676	150	1.244428	200	1.186713						
2-Butanone							1		2	5.169885E-02	4	7.682525E-02
sec-Butylbenzene	100	1.656595	150	1.627556	200	1.578022						
tert-Butylbenzene	100	1.143838	150	1.184551	200	1.146998						
Carbon disulfide	100	0.7748302	150	0.780681	200	0.741686						
Carbon tetrachloride	100	0.3010489	150	0.2985462	200	0.2828049						
Chlorobenzene	100	1.495854	150	1.487447	200	1.376811						
Chloroethane	100	0.1513388	150	0.1503029	200	0.1623873						
Chloroform	100	0.4356729	150	0.431589	200	0.4190687						
2-Chloroethyl vinyl ether	199.5	0.1415964	299.2	0.1349193	399	0.1273779						
Chloromethane	100	0.1864843	150	0.1982091	200	0.1853412						
1-Chlorohexane	100.2	1.278179	150.3	1.182441	200.4	1.065207						
2-Chlorotoluene	100	1.370853	150	1.484266	200	1.327689						
4-Chlorotoluene	100	1.343808	150	1.450363	200	1.382832						
Cyclohexane	100	0.2787845	150	0.2720681	200	0.2544587						
Dibromochloromethane	100	0.771313	150	0.7654528	200	0.7293965						
1,2-Dibromo-3-chloropropane	100	0.1606349	150	0.1616619	200	0.1666479						
1,2-Dibromoethane (EDB)	100	0.6572733	150	0.6815473	200	0.6279306						
Dibromomethane	100	0.1798381	150	0.1701141	200	0.1696594						
1,2-Dichlorobenzene	100	1.077273	150	1.068258	200	1.028853						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

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	1.184229	150	1.039947	200	1.036882						
1,4-Dichlorobenzene	100	1.153287	150	1.033937	200	1.021182						
Dichlorodifluoromethane	100	0.2359321	150	0.2327664	200	0.2273232						
1,1-Dichloroethane	100	0.419726	150	0.4316699	200	0.4057132						
1,2-Dichloroethane	100	0.2962461	150	0.3075407	200	0.2886516						
1,1-Dichloroethene	100	0.2176809	150	0.2253321	200	0.2161193						
cis-1,2-Dichloroethene	100	0.2802155	150	0.2774377	200	0.269272						
trans-1,2-Dichloroethene	100	0.2639769	150	0.2606461	200	0.2544276						
1,2-Dichloroethene (total)	200	0.2720962	300	0.2690419	400	0.2618498						
1,2-Dichloropropane	100	0.2263896	150	0.2179578	200	0.2102209						
1,3-Dichloropropane	100	0.8818327	150	0.8728979	200	0.8073187						
2,2-Dichloropropane	100	0.3206966	150	0.3143398	200	0.2999092						
1,1-Dichloropropene	100	0.3116172	150	0.3094276	200	0.2984444						
cis-1,3-Dichloropropene	100	0.36589	150	0.3629244	200	0.3410242						
trans-1,3-Dichloropropene	100	0.8515892	150	0.8560765	200	0.8046995						
Diisopropyl Ether	100	0.8141731	150	0.8245506	200	0.7742325						
Ethylbenzene	100	2.201212	150	2.334571	200	2.004726						
Ethyl tert-Butyl Ether	100	0.6717369	150	0.6827483	200	0.6637785						
Ethyl Methacrylate	100	0.7020391	150	0.6872813	200	0.6736913						
Hexachlorobutadiene	100	0.2874083	150	0.2865507	200	0.2812825						
2-Hexanone							1	0.2624953	2	0.2492618	4	0.3040456
Iodomethane	100	0.3835393	150	0.3965903	200	0.3693401						
Isopropylbenzene	100	1.845225	150	1.826654	200	1.600579						
p-Isopropyltoluene	100	1.304453	150	1.245342	200	1.127652						
Methylene chloride	100	0.272905	150	0.2745239	200	0.2606038						
Methyl Acetate	100	0.1730421	150	0.1722917	200	0.1679216						
Methylcyclohexane	100	0.2098838	150	0.207984	200	0.1877819						
Naphthalene	100	1.463803	150	1.449245	200	1.441422						
Methyl Methacrylate	100	0.1790377	150	0.184229	200	0.1721687						
4-Methyl-2-pentanone							1	0.1681225	2	0.1699763	4	0.1676157
Methyl t-Butyl Ether	100	0.5930313	150	0.6196673	200	0.6079042						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

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	2.140836	150	2.056655	200	1.925151						
Styrene	100	1.639645	150	1.539873	200	1.373035						
1,1,2,2-Tetrachloroethane	100	0.56719	150	0.5444665	200	0.5409201						
1,1,1,2-Tetrachloroethane	100	0.6372228	150	0.6143552	200	0.5666373						
tert-Butyl alcohol	500	1.816844E-02	750	1.844337E-02	1000	1.867496E-02						
Tetrachloroethene	100	0.735467	150	0.749357	200	0.6611077						
Toluene	100	1.367465	150	1.297076	200	1.221637						
1,2,3-Trichlorobenzene	100	0.6568684	150	0.6397795	200	0.6121554						
1,2,4-Trichlorobenzene	100	0.6993379	150	0.7073377	200	0.6828811						
1,1,2-Trichloroethane	100	0.4817367	150	0.4829779	200	0.4580208						
1,1,1-Trichloroethane	100	0.341168	150	0.3395912	200	0.3251119						
Tetrahydrofuran	100	5.522674E-02	150	5.557544E-02	200	5.642194E-02						
Trichloroethene	100	0.2473377	150	0.2342488	200	0.233355						
Trichlorofluoromethane	100	0.384724	150	0.3750431	200	0.3535054						
1,2,3-Trichloropropane	100	0.1871261	150	0.1838681	200	0.1782138						
1,3,5-Trimethylbenzene	100	1.453817	150	1.448231	200	1.359315						
1,2,4-Trimethylbenzene	100	1.532752	150	1.470361	200	1.45087						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2412547	150	0.235551	200	0.2194815						
Vinyl chloride	100	0.1657433	150	0.1534188	200	0.135877						
m,p-Xylene	200	1.710295	300	1.580975	400	1.39134						
o-Xylene	100	1.847735	150	1.723513	200	1.530825						
Vinyl acetate	199.9	0.2604059	299.8	0.263417	399.8	0.2689706						
Xylenes (total)	300	1.756108	450	1.628487	600	1.437835						
Dibromofluoromethane	30	0.3219746	30	0.3238055	30	0.326197						
1,2-Dichloroethane-d4	30	6.806108E-02	30	0.0679893	30	6.799579E-02						
Toluene-d8	30	2.465892	30	2.525914	30	2.413122						
tert-Amyl alcohol	500	1.193594E-02	750	1.203575E-02	1000	1.286371E-02						
tert-Amyl ethyl ether	100	0.4984309	150	0.5103	200	0.4893273						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

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	0.0577326	20	5.612703E-02	100	6.552179E-02	200	6.017055E-02	300	6.784844E-02	400	6.183006E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone	10	0.0825538	20	7.702954E-02	100	9.930995E-02	200	9.491099E-02	300	0.1061759	400	9.941335E-02
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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

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	0.3007911	20	0.2908796	100	0.3678375	200	0.3394667	300	0.3718027	400	0.3290677
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.1666001	20	0.1590799	100	0.1881945	200	0.1826218	300	0.1883294	400	0.170369
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	6.348042E-02	8.759215	4.83825	0.6050106			15	
Acrolein	0.0399263	6.691411	4.695889	0.5531169			15	
Acrylonitrile	7.454851E-02	8.711723	5.439889	0.5153655			15	
Benzene	0.8183504	5.572691	11.37744	0.1289322			15	
Bromobenzene	0.7130765	5.196317	16.62456	1.955286E-02			15	
Bromochloromethane	0.1506323	10.27461	8.500111	0.2479724			15	
Tert-Amyl Methyl Ether	0.6603901	16.08493	11.77413	8.136586E-02	0.9997032		0.995	
Bromodichloromethane	0.3027916	7.799062	12.50144	7.484039E-02			15	
Bromoform	0.5699803	11.84824	15.93444	0.0262941			SPCC (0.1)	
Bromomethane	0.1299074	20.38406	3.964	0.7064521	0.9983959		0.995	
Bromofluorobenzene	0.957387	2.621998	16.47022	2.732607E-02			15	
n-Butylbenzene	1.217717	6.214575	17.71833	1.370785E-02			15	
2-Butanone	0.0859897	20.60077	7.865625	0.5470501	0.9974979		0.995	
sec-Butylbenzene	1.6733	6.555521	17.30422	5.481704E-03			15	
tert-Butylbenzene	1.187017	4.74989	17.15178	2.582753E-02			15	
Carbon disulfide	0.7469286	5.919231	5.862778	0.440633			15	
Carbon tetrachloride	0.2803579	8.360972	11.31178	0.1285976			15	
Chlorobenzene	1.569517	8.202246	15.53778	2.079923E-02			SPCC (0.3)	
Chloroethane	0.1568842	10.20786	4.106444	0.5837799			15	
Chloroform	0.4305875	6.299133	8.627111	0.3043567			CCC (20)	
2-Chloroethyl vinyl ether	0.1331637	8.077245	13.148	5.826453E-02			15	
Chloromethane	0.1946412	10.2938	3.400889	0.9415026			SPCC (0.1)	
1-Chlorohexane	1.35518	13.27346	15.50156	2.818818E-02			15	
2-Chlorotoluene	1.424715	7.937675	16.83056	1.239489E-02			15	
4-Chlorotoluene	1.457508	8.654439	16.88667	1.961681E-02			15	
Cyclohexane	0.2724139	6.070048	11.16256	9.157351E-02			15	
Dibromochloromethane	0.7402924	9.101033	14.52556	2.965746E-02			15	
1,2-Dibromo-3-chloropropane	0.1405829	15.73538	18.02822	2.127093E-02	0.9995964		0.995	
1,2-Dibromoethane (EDB)	0.6476013	7.740743	14.76	3.456003E-02			15	
Dibromomethane	0.1687338	6.803459	12.30767	7.306886E-02			15	
1,2-Dichlorobenzene	1.071477	4.931397	17.68856	5.171756E-03			15	
1,3-Dichlorobenzene	1.109664	7.765275	17.37756	2.411992E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.185544	8.618759	17.42233	1.642186E-02			15	
Dichlorodifluoromethane	0.222674	6.545885	3.215556	0.8959896	0.9995739		0.995	
1,1-Dichloroethane	0.4081297	7.150762	7.000111	0.3331365			SPCC (0.1)	
1,2-Dichloroethane	0.2844065	7.905266	10.354	0.1944757			15	
1,1-Dichloroethene	0.2163828	6.456213	5.364222	0.4507894			CCC (20)	
cis-1,2-Dichloroethene	0.2711242	4.789396	8.171444	0.3160574			15	
trans-1,2-Dichloroethene	0.2561505	7.739406	6.552	0.4156797			15	
1,2-Dichloroethene (total)	0.2636373	5.754159	0	0			15	
1,2-Dichloropropane	0.2147841	6.014639	12.37556	6.213964E-02			CCC (20)	
1,3-Dichloropropane	0.8727974	6.276488	14.29856	3.394906E-02			15	
2,2-Dichloropropane	0.313679	7.502355	8.822333	0.2473015			15	
1,1-Dichloropropene	0.2975675	6.332644	11.03133	0.1343592			15	
cis-1,3-Dichloropropene	0.3476874	8.122396	13.38378	4.350229E-02			15	
trans-1,3-Dichloropropene	0.8140528	9.161065	13.89211	5.186918E-02			15	
Diisopropyl Ether	0.7940902	5.899205	7.926	0.2693061			15	
Ethylbenzene	2.362031	9.458271	15.69978	3.074885E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6441145	7.522742	8.861667	0.2891787			15	
Ethyl Methacrylate	0.6516305	13.77595	14.37756	3.478868E-02			15	
Hexachlorobutadiene	0.2884888	12.88731	19.38244	1.708899E-02			15	
2-Hexanone	0.3128498	13.7275	14.48856	9.348562E-02			15	
Iodomethane	0.3031321	27.28541	5.409222	0.5303687	0.9980688		0.995	
Isopropylbenzene	1.87632	9.265289	16.43856	2.487316E-02			15	
p-Isopropyltoluene	1.319723	8.148758	17.42456	3.065426E-03			15	
Methylene chloride	0.3495467	33.6408	5.562556	0.4271772	0.9989096		0.995	
Methyl Acetate	0.175471	14.23463	5.605444	0.4972246			15	
Methylcyclohexane	0.2128165	6.316372	13.12722	3.972675E-02			15	
Naphthalene	1.354318	8.829272	19.35422	1.667645E-02			15	
Methyl Methacrylate	0.168473	9.252076	12.81587	4.721109E-02			15	
4-Methyl-2-pentanone	0.1734344	5.979284	13.54967	9.661555E-02			15	
Methyl t-Butyl Ether	0.5847072	6.482375	6.761333	0.4204904			15	
n-Propylbenzene	2.077827	6.638009	16.75511	2.126317E-02			15	
Styrene	1.58216	9.16915	16.11311	2.672767E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.5617003	5.691063	16.17989	9.733366E-03			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.6203306	7.021629	15.47844	2.186932E-02			15	
tert-Butyl alcohol	1.732758E-02	10.08898	5.375222	0.4514074			15	
Tetrachloroethene	0.7377491	7.192229	14.94178	2.707858E-02			15	
Toluene	1.341681	6.690052	14.22067	4.147638E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5885341	9.48889	19.56233	8.612995E-04			15	
1,2,4-Trichlorobenzene	0.6548499	8.023626	19.12722	1.896605E-02			15	
1,1,2-Trichloroethane	0.4819472	8.349452	14.03789	4.770722E-02			15	
1,1,1-Trichloroethane	0.3182995	7.871372	10.60056	0.193781			15	
Tetrahydrofuran	5.399268E-02	8.459851	9.46525	0.3380589			15	
Trichloroethene	0.2365637	5.829828	12.45456	8.455537E-02			15	
Trichlorofluoromethane	0.3726959	4.731481	4.709	0.5566022			15	
1,2,3-Trichloropropane	0.1879384	9.896004	16.285	1.047502E-02			15	
1,3,5-Trimethylbenzene	1.460301	7.356123	16.95344	0.0313921			15	
1,2,4-Trimethylbenzene	1.5051	6.027629	17.22744	0.0244513			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.232144	5.599071	5.630444	0.4391774			15	
Vinyl chloride	0.1667217	8.727087	3.568333	0.8590323			CCC (20)	
m,p-Xylene	1.800979	12.33127	15.85878	2.719885E-02			15	
o-Xylene	1.868187	9.917691	16.169	2.421734E-02			15	
Vinyl acetate	0.236171	15.03677	7.247875	0.2722697	0.9995625		0.995	
Xylenes (total)	1.823382	11.39571	0	0			15	
Dibromofluoromethane	0.3249097	1.278704	8.904444	0.2859415			15	
1,2-Dichloroethane-d4	6.571543E-02	3.64755	10.14467	0.2284643			15	
Toluene-d8	2.437291	2.571323	14.14733	0.023144			15	
tert-Amyl alcohol	1.040837E-02	22.10921	9.9325	0.3054316	0.9981958		0.995	
tert-Amyl ethyl ether	0.4986224	6.228662	13.043	0.0452972			15	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

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
Acetone												
Acrolein	2.501	4.174688E-02	5.002	3.856662E-02	10	3.437694E-02	25.01	0.0182728	50.02	2.123273E-02	250.1	2.231178E-02
Acrylonitrile	2.499	8.812904E-02	4.998	9.406873E-02	9.996	0.0929386	24.99	8.482993E-02	49.98	8.920213E-02	249.9	0.0947401
Benzene	0.5	0.9450861	1	0.9445345	2	0.9601675	5	0.7906232	10	0.8303345	50	0.9313922
Bromobenzene	0.5	0.6901022	1	0.7277522	2	0.7131113	5	0.6167644	10	0.6117274	50	0.6670966
Bromochloromethane	0.5	0.1127303	1	0.1182802	2	0.1343138	5	0.1049976	10	0.1151616	50	0.1285619
Tert-Amyl Methyl Ether	0.5	1.302566	1	0.9818719	2	0.8637552	5	0.6393085	10	0.6435684	50	0.6867683
Bromodichloromethane	0.5	0.2417891	1	0.263474	2	0.2505831	5	0.2107564	10	0.2319654	50	0.2775319
Bromoform	0.5	0.1289722	1	0.158804	2	0.168964	5	0.1489188	10	0.1619209	50	0.2570554
Bromomethane	0.5	0.1030408	1	0.1144611	2	0.1266765	5	0.1117067	10	0.1211445	50	0.1530205
Bromofluorobenzene	30	0.9654507	30	0.9976207	30	0.9729897	30	0.9746357	30	0.9380772	30	0.9440315
n-Butylbenzene	0.5	1.646562	1	1.487912	2	1.505232	5	1.25586	10	1.305682	50	1.410369
2-Butanone												
sec-Butylbenzene	0.5	1.995622	1	1.908844	2	1.974981	5	1.658612	10	1.753382	50	1.861187
tert-Butylbenzene	0.5	1.783234	1	1.683892	2	1.6604	5	1.393317	10	1.432726	50	1.554201
Carbon disulfide	0.5	0.6470439	1	0.6175059	2	0.6224395	5	0.5547088	10	0.6000347	50	0.6855299
Carbon tetrachloride	0.5	0.1950462	1	0.1928653	2	0.1925396	5	0.1680897	10	0.1865131	50	0.2307491
Chlorobenzene	0.5	1.572188	1	1.610476	2	1.613768	5	1.428043	10	1.392237	50	1.500533
Chloroethane	0.5	0.1176199	1	0.122616	2	0.1416319	5	0.1087992	10	0.1205354	50	0.1326353
Chloroform	0.5	0.4176807	1	0.4252921	2	0.4327724	5	0.363699	10	0.3708593	50	0.4130013
2-Chloroethyl vinyl ether	0.9975	0.1493271	1.995	0.1724823	3.99	0.1803491	9.975	0.1691201	19.95	0.1790793	99.75	0.1905536
Chloromethane	0.5	0.2682559	1	0.2554314	2	0.2448722	5	0.2256467	10	0.2384448	50	0.2548898
1-Chlorohexane	0.501	~~1.647162~~	1.002	1.445846	2.004	1.317613	5.01	1.115964	10.02	1.160985	50.1	1.236553
2-Chlorotoluene	0.5	1.686326	1	1.696742	2	1.73084	5	1.435526	10	1.515527	50	1.629684
4-Chlorotoluene	0.5	1.796726	1	1.764991	2	1.852982	5	1.526457	10	1.517603	50	1.651782
Cyclohexane	0.5	0.3487326	1	0.3500331	2	0.3624181	5	0.3024825	10	0.3323924	50	0.3642405
Dibromochloromethane	0.5	0.287537	1	0.3016567	2	0.2977243	5	0.2621412	10	0.2878156	50	0.3996691
1,2-Dibromo-3-chloropropane	0.5	6.563709E-02	1	8.732219E-02	2	9.957113E-02	5	7.942185E-02	10	0.0891781	50	0.116438
1,2-Dibromoethane (EDB)	0.5	0.4739428	1	0.4789681	2	0.5254348	5	0.4569947	10	0.4599806	50	0.5142327
Dibromomethane	0.5	0.1568265	1	0.156741	2	0.1561314	5	0.1410607	10	0.1496321	50	0.1626659
1,2-Dichlorobenzene	0.5	1.106465	1	1.190871	2	1.205924	5	1.018199	10	1.054561	50	1.112184

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

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
1,3-Dichlorobenzene	0.5	1.320917	1	1.283567	2	1.228413	5	1.058958	10	1.055012	50	1.114619
1,4-Dichlorobenzene	0.5	1.295837	1	1.28187	2	1.253957	5	1.11242	10	1.109189	50	1.182666
Dichlorodifluoromethane	0.5	0.1389278	1	0.1524051	2	0.1463283	5	0.1766836	10	0.1839105	50	0.1993881
1,1-Dichloroethane	0.5	0.4157966	1	0.4144189	2	0.4390419	5	0.3635615	10	0.3985996	50	0.4423158
1,2-Dichloroethane	0.5	0.3159408	1	0.3301288	2	0.3480555	5	0.3015883	10	0.3109418	50	0.353778
1,1-Dichloroethene	0.5	0.1789868	1	0.1828008	2	0.1900318	5	0.1562674	10	0.1692743	50	0.181869
cis-1,2-Dichloroethene	0.5	0.2312025	1	0.2491635	2	0.2613665	5	0.2114764	10	0.2262777	50	0.2437411
trans-1,2-Dichloroethene	0.5	0.2189111	1	0.2242045	2	0.2265313	5	0.1890057	10	0.2015217	50	0.2203565
1,2-Dichloroethene (total)	1	0.2250568	2	0.236684	4	0.2439489	10	0.2002411	20	0.2138997	100	0.2320488
1,2-Dichloropropane	0.5	0.2446153	1	0.2612948	2	0.2731986	5	0.2334747	10	0.2494524	50	0.2687378
1,3-Dichloropropane	0.5	0.7346529	1	0.8406911	2	0.7854829	5	0.7218122	10	0.7288621	50	0.793316
2,2-Dichloropropane	0.5	0.2742221	1	0.2996208	2	0.3337042	5	0.2680795	10	0.2913534	50	0.3242719
1,1-Dichloropropene	0.5	0.306027	1	0.3177728	2	0.3203218	5	0.2644934	10	0.2915432	50	0.3289568
cis-1,3-Dichloropropene	0.5	0.3790572	1	0.3451132	2	0.3648233	5	0.3270214	10	0.3452412	50	0.3960097
trans-1,3-Dichloropropene	0.5	0.5783928	1	0.6151467	2	0.631991	5	0.578027	10	0.5860145	50	0.7159333
Diisopropyl Ether	0.5	0.7792429	1	0.8091132	2	0.8432713	5	0.7376383	10	0.8046673	50	0.9065105
Ethylbenzene	0.5	2.732016	1	2.688971	2	2.678361	5	2.352547	10	2.351156	50	2.522577
Ethyl tert-Butyl Ether	0.5	0.6343489	1	0.6202018	2	0.7138933	5	0.6155446	10	0.6746352	50	0.7594678
Ethyl Methacrylate	0.5	0.4118997	1	0.4906122	2	0.5220805	5	0.5174347	10	0.549863	50	0.6524213
Hexachlorobutadiene	0.5	0.4299349	1	0.3394291	2	0.3167539	5	0.2557823	10	0.2622533	50	0.2950244
2-Hexanone												
Iodomethane	0.5	0.2030311	1	0.2374142	2	0.2544815	5	0.2271554	10	0.2691064	50	0.3379317
Isopropylbenzene	0.5	2.263236	1	2.256201	2	2.150328	5	1.859399	10	1.900794	50	2.037782
p-Isopropyltoluene	0.5	1.464414	1	1.464556	2	1.450106	5	1.218854	10	1.266581	50	1.392999
Methylene chloride	0.5	0.2711268	1	0.2560604	2	0.2608307	5	0.216929	10	0.2245747	50	0.2474163
Methyl Acetate	0.5	0.1554359	1	0.1554829	2	0.1804453	5	0.1730057	10	0.1657769	50	0.1786944
Methylcyclohexane	0.5	0.3002402	1	0.2875793	2	0.2932379	5	0.239262	10	0.2542406	50	0.2856919
Naphthalene	0.5	1.759582	1	1.656859	2	1.741664	5	1.546642	10	1.593499	50	1.691168
Methyl Methacrylate	0.5	~~0.1305392~~	1	0.1789817	2	0.2066857	5	0.1890241	10	0.2081253	50	0.2350489
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.5773333	1	0.5521541	2	0.6045546	5	0.5151834	10	0.5567914	50	0.6095863

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

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
n-Propylbenzene	0.5	2.639294	1	2.498158	2	2.578066	5	2.140346	10	2.26532	50	2.368618
Styrene	0.5	1.646769	1	1.683039	2	1.689876	5	1.487873	10	1.533405	50	1.697697
1,1,2,2-Tetrachloroethane	0.5	0.5398591	1	0.5247009	2	0.5635804	5	0.51062	10	0.5171534	50	0.5283282
1,1,1,2-Tetrachloroethane	0.5	0.3488426	1	0.3412749	2	0.3801394	5	0.322724	10	0.3422563	50	0.4448147
tert-Butyl alcohol	2.5	1.327822E-02	5	1.674569E-02	10	1.886982E-02	25	1.588996E-02	50	1.784126E-02	250	1.967488E-02
Tetrachloroethene	0.5	0.6406202	1	0.6545282	2	0.6377782	5	0.5346161	10	0.5477381	50	0.6023662
Toluene	0.5	1.414269	1	1.377359	2	1.396002	5	1.181169	10	1.206687	50	1.344946
1,2,3-Trichlorobenzene	0.5	0.8203446	1	0.678333	2	0.7123323	5	0.6086772	10	0.6157404	50	0.6759281
1,2,4-Trichlorobenzene	0.5	0.9057442	1	0.8130136	2	0.7674788	5	0.6668867	10	0.6800235	50	0.7520681
1,1,2-Trichloroethane	0.5	0.396873	1	0.3997791	2	0.4098788	5	0.3680968	10	0.3551403	50	0.3981433
1,1,1-Trichloroethane	0.5	0.281893	1	0.3139537	2	0.3242203	5	0.2726791	10	0.2948391	50	0.3425316
Tetrahydrofuran	0.5		1	6.847448E-02	2	8.919676E-02	5	5.020587E-02	10	6.195551E-02	50	6.901773E-02
Trichloroethene	0.5	0.2699605	1	0.2436371	2	0.2654701	5	0.218424	10	0.2377842	50	0.2530296
Trichlorofluoromethane	0.5	0.3386394	1	0.3350936	2	0.3020265	5	0.2659838	10	0.323219	50	0.3484605
1,2,3-Trichloropropane	0.5	0.1858527	1	0.1820921	2	0.1840108	5	0.1658145	10	0.1733853	50	0.1844241
1,3,5-Trimethylbenzene	0.5	1.790377	1	1.782205	2	1.846771	5	1.513009	10	1.576872	50	1.702232
1,2,4-Trimethylbenzene	0.5	1.812917	1	1.847747	2	1.858682	5	1.619601	10	1.648693	50	1.759763
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.1936108	1	0.1925058	2	0.1886412	5	0.1547449	10	0.1638115	50	0.1823678
Vinyl chloride	0.5	0.1927584	1	0.2128595	2	0.2191676	5	0.2064686	10	0.2130142	50	0.2258966
m,p-Xylene	1	2.121772	2	2.212015	4	2.166852	10	1.819283	20	1.836202	100	1.877009
o-Xylene	0.5	2.314493	1	2.293783	2	2.357228	5	1.977641	10	1.988426	50	2.028044
Vinyl acetate	0.9995	0.1751716	1.999	0.1999408	3.998	0.2268043	9.995	0.2095772	19.99	0.2278334	99.95	0.2776192
Xylenes (total)	1.5	2.186013	3	2.239271	6	2.23031	15	1.872069	30	1.886943	150	1.927354
Dibromofluoromethane	30	0.2525456	30	0.2445447	30	0.2526273	30	0.2533062	30	0.256516	30	0.2537646
1,2-Dichloroethane-d4	30	5.166318E-02	30	0.0532115	30	5.406673E-02	30	0.0546442	30	5.428525E-02	30	5.442078E-02
Toluene-d8	30	2.148376	30	2.223719	30	2.192669	30	2.225586	30	2.172303	30	2.222292
tert-Amyl alcohol	2.5		5		10	6.248903E-03	25	8.228846E-03	50	1.007245E-02	250	0.0118877
tert-Amyl ethyl ether	0.5	0.572668	1	0.6344448	2	0.6783855	5	0.5715893	10	0.6319354	50	0.6843155

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

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
Acetone							1		2	6.406994E-02	4	7.071503E-02
Acrolein	500.2	2.434642E-02	750.3	2.469596E-02	1000	2.489138E-02						
Acrylonitrile	499.8	9.009096E-02	749.7	8.852763E-02	999.6	8.715111E-02						
Benzene	100	0.8591368	150	0.874036	200	0.8544628						
Bromobenzene	100	0.6315675	150	0.644393	200	0.6232382						
Bromochloromethane	100	0.1265465	150	0.1271653	200	0.1314299						
Tert-Amyl Methyl Ether	100	0.6533226	150	0.6568199	200	0.6519255						
Bromodichloromethane	100	0.2810268	150	0.2984811	200	0.3002115						
Bromoform	100	0.3080016	150	0.3289292	200	0.3383705						
Bromomethane	100	0.1542462	150	0.160917	200	0.1676897						
Bromofluorobenzene	30	0.9221641	30	0.8931842	30	0.8807035						
n-Butylbenzene	100	1.28482	150	1.268822	200	1.198306						
2-Butanone							1		2	~~6.112032E-02~~	4	8.168678E-02
sec-Butylbenzene	100	1.710573	150	1.652867	200	1.549203						
tert-Butylbenzene	100	1.389272	150	1.379273	200	1.30316						
Carbon disulfide	100	0.6556263	150	0.6806134	200	0.6874371						
Carbon tetrachloride	100	0.2441366	150	0.2714559	200	0.2793467						
Chlorobenzene	100	1.355558	150	1.27044	200	1.18457						
Chloroethane	100	0.1274796	150	0.1302818	200	0.1322151						
Chloroform	100	0.3954016	150	0.4013895	200	0.404641						
2-Chloroethyl vinyl ether	199.5	0.1817779	299.2	0.1780828	399	0.1745018						
Chloromethane	100	0.2402618	150	0.2464277	200	0.2469677						
1-Chlorohexane	100.2	1.086129	150.3	1.023107	200.4	0.9520627						
2-Chlorotoluene	100	1.470217	150	1.47051	200	1.37839						
4-Chlorotoluene	100	1.573298	150	1.474768	200	1.377673						
Cyclohexane	100	0.3294888	150	0.3470529	200	0.3406395						
Dibromochloromethane	100	0.4385027	150	0.4611073	200	0.4689702						
1,2-Dibromo-3-chloropropane	100	0.1290742	150	0.1378229	200	0.13973						
1,2-Dibromoethane (EDB)	100	0.4830722	150	0.4673939	200	0.4486473						
Dibromomethane	100	0.1560727	150	0.1600483	200	0.1591782						
1,2-Dichlorobenzene	100	1.036517	150	1.028762	200	0.994313						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

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
1,3-Dichlorobenzene	100	1.042642	150	1.024408	200	0.9856162						
1,4-Dichlorobenzene	100	1.066003	150	1.059164	200	1.02387						
Dichlorodifluoromethane	100	0.1835344	150	0.1921129	200	0.1898329						
1,1-Dichloroethane	100	0.4169053	150	0.4278885	200	0.4229295						
1,2-Dichloroethane	100	0.3353864	150	0.3389994	200	0.3384457						
1,1-Dichloroethene	100	0.1734232	150	0.1778938	200	0.1793694						
cis-1,2-Dichloroethene	100	0.2368708	150	0.2383321	200	0.2420432						
trans-1,2-Dichloroethene	100	0.2088602	150	0.2167202	200	0.2176827						
1,2-Dichloroethene (total)	200	0.2228655	300	0.2275261	400	0.2298629						
1,2-Dichloropropane	100	0.2549546	150	0.2626206	200	0.2581664						
1,3-Dichloropropane	100	0.7303698	150	0.7112875	200	0.6821312						
2,2-Dichloropropane	100	0.3110273	150	0.3203295	200	0.320099						
1,1-Dichloropropene	100	0.3085004	150	0.3153698	200	0.3168351						
cis-1,3-Dichloropropene	100	0.3765932	150	0.394969	200	0.3897065						
trans-1,3-Dichloropropene	100	0.6864452	150	0.6702737	200	0.6471334						
Diisopropyl Ether	100	0.8647914	150	0.8746462	200	0.8756846						
Ethylbenzene	100	2.184514	150	1.966455	200	1.734642						
Ethyl tert-Butyl Ether	100	0.7388558	150	0.7552995	200	0.7588755						
Ethyl Methacrylate	100	0.6300261	150	0.6021328	200	0.5776199						
Hexachlorobutadiene	100	0.2870466	150	0.3059458	200	0.2945441						
2-Hexanone							1	0.2314365	2	0.2168539	4	0.2976913
Iodomethane	100	0.3288645	150	0.3402867	200	0.3331268						
Isopropylbenzene	100	1.787431	150	1.632921	200	1.498208						
p-Isopropyltoluene	100	1.284872	150	1.298624	200	1.236749						
Methylene chloride	100	0.2311665	150	0.2386509	200	0.2405573						
Methyl Acetate	100	0.1731505	150	0.1688837	200	0.1706533						
Methylcyclohexane	100	0.2599595	150	0.2751915	200	0.2711709						
Naphthalene	100	1.630735	150	1.601884	200	1.518371						
Methyl Methacrylate	100	0.2349797	150	0.2364306	200	0.2332994						
4-Methyl-2-pentanone							1	0.1663313	2	0.1780584	4	0.2206147
Methyl t-Butyl Ether	100	0.5918165	150	0.5979816	200	0.6001929						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

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
n-Propylbenzene	100	2.103864	150	2.000709	200	1.794426						
Styrene	100	1.530731	150	1.431279	200	1.33186						
1,1,2,2-Tetrachloroethane	100	0.5114625	150	0.5095915	200	0.5059235						
1,1,1,2-Tetrachloroethane	100	0.4486254	150	0.4547539	200	0.4469388						
tert-Butyl alcohol	500	2.033629E-02	750	1.974109E-02	1000	2.023323E-02						
Tetrachloroethene	100	0.5530041	150	0.5350682	200	0.5171413						
Toluene	100	1.214221	150	1.160405	200	1.106291						
1,2,3-Trichlorobenzene	100	0.6340291	150	0.6469382	200	0.6313732						
1,2,4-Trichlorobenzene	100	0.6994536	150	0.7084606	200	0.6941565						
1,1,2-Trichloroethane	100	0.3693556	150	0.3562313	200	0.3431521						
1,1,1-Trichloroethane	100	0.3316693	150	0.3510886	200	0.3502134						
Tetrahydrofuran	100	6.833676E-02	150	6.538021E-02	200	6.745593E-02						
Trichloroethene	100	0.2392579	150	0.246636	200	0.2418878						
Trichlorofluoromethane	100	0.3227814	150	0.3307451	200	0.3373636						
1,2,3-Trichloropropane	100	0.1776636	150	0.1654827	200	0.1650215						
1,3,5-Trimethylbenzene	100	1.55152	150	1.50816	200	1.411114						
1,2,4-Trimethylbenzene	100	1.608313	150	1.572028	200	1.463352						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.1660749	150	0.1749342	200	0.1723987						
Vinyl chloride	100	0.2086229	150	0.2154134	200	0.2106935						
m,p-Xylene	200	1.580116	300	~~1.383295~~	400	~~1.201173~~						
o-Xylene	100	1.800962	150	1.638327	200	~~1.493609~~						
Vinyl acetate	199.9	0.2697766	299.8	0.279667	399.8	0.2764555						
Xylenes (total)	300	1.653732	450	1.468305	600	~~1.298651~~						
Dibromofluoromethane	30	0.2528044	30	0.251013	30	0.2556936						
1,2-Dichloroethane-d4	30	5.378122E-02	30	5.382132E-02	30	5.542951E-02						
Toluene-d8	30	2.152698	30	2.055283	30	2.043852						
tert-Amyl alcohol	500	1.353586E-02	750	1.340962E-02	1000	1.365648E-02						
tert-Amyl ethyl ether	100	0.6468393	150	0.6516456	200	0.6379997						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

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			20	6.383628E-02	100	7.013675E-02	200	0.0665478	300	6.919478E-02	400	6.688945E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone			20	9.830393E-02	100	0.1132809	200	0.1065002	300	0.1107993	400	0.1072699
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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

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			20	0.3324512	100	0.3830236	200	0.3569186	300	0.3640624	400	0.3449918
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone			20	0.231484	100	0.2580018	200	0.2405014	300	0.2460843	400	0.2297922
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone												
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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	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												
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone												
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	6.734143E-02	4.131886	5.272857	0.1204455			15	
Acrolein	2.782683E-02	29.73532	5.112667	7.753974E-02	0.9993957		0.995	
Acrylonitrile	8.996425E-02	3.703462	5.939	7.312255E-02			15	
Benzene	0.8877526	6.724026	11.99533	2.484545E-02			15	
Bromobenzene	0.658417	6.565181	17.135	2.232344E-02			15	
Bromochloromethane	0.1221319	8.014157	9.435667	4.957178E-02			15	
Tert-Amyl Methyl Ether	0.7866563	28.95886	12.35033	2.602954E-02	0.999865		0.995	
Bromodichloromethane	0.2617577	11.6682	13.01144	1.351069E-02			15	
Bromoform	0.2222152	38.32122	16.42833	2.210761E-02	0.9968521		SPCC (0.1)	
Bromomethane	0.134767	17.95102	4.303	7.115313E-02	0.9986444		0.995	
Bromofluorobenzene	0.9432064	4.141834	16.96967	9.33719E-03			15	
n-Butylbenzene	1.373729	10.74547	18.31367	9.119014E-03			15	
2-Butanone	0.1029735	11.26933	8.704167	0.2876742			15	
sec-Butylbenzene	1.78503	8.794839	17.86833	8.658072E-03			15	
tert-Butylbenzene	1.508831	11.07756	17.99367	4.489641E-03			15	
Carbon disulfide	0.6389933	6.986358	6.467667	9.799745E-02			15	
Carbon tetrachloride	0.2178602	18.32864	11.952	0.0271791	0.9966548		0.995	
Chlorobenzene	1.436424	10.55311	16.022	1.374265E-02			SPCC (0.3)	
Chloroethane	0.1259794	7.710992	4.464333	8.993927E-02			15	
Chloroform	0.4027485	5.782466	9.585667	3.428825E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1750304	6.523102	13.61756	4.415385E-02			15	
Chloromethane	0.2467998	4.887919	3.656	8.056094E-02			SPCC (0.1)	
1-Chlorohexane	1.167282	13.78944	15.985	1.315906E-02			15	
2-Chlorotoluene	1.557085	8.347254	17.35333	6.828885E-03			15	
4-Chlorotoluene	1.615142	9.996862	17.41433	1.315012E-02			15	
Cyclohexane	0.3419423	5.528723	11.84133	5.030834E-02			15	
Dibromochloromethane	0.3561249	23.7061	15.00533	1.372953E-02	0.9986537		0.995	
1,2-Dibromo-3-chloropropane	0.1049106	25.64299	18.65733	2.335638E-02	0.9982178		0.995	
1,2-Dibromoethane (EDB)	0.4787408	5.397178	15.23767	1.253351E-02			15	
Dibromomethane	0.155373	4.148513	12.83	2.483071E-02			15	
1,2-Dichlorobenzene	1.083088	7.010621	18.285	8.946731E-03			15	
1,3-Dichlorobenzene	1.123795	10.89399	17.944	1.601189E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.153886	8.916754	17.993	1.058319E-02			15	
Dichlorodifluoromethane	0.1736804	12.6814	3.449667	0.0911626			15	
1,1-Dichloroethane	0.4157175	5.684783	7.742	5.272704E-02			SPCC (0.1)	
1,2-Dichloroethane	0.3303627	5.286019	11.13189	3.819698E-02			15	
1,1-Dichloroethene	0.1766574	5.439883	5.899556	6.016249E-02			CCC (20)	
cis-1,2-Dichloroethene	0.2378304	5.961484	9.068667	7.826884E-02			15	
trans-1,2-Dichloroethene	0.2137549	5.616217	7.240333	7.187083E-02			15	
1,2-Dichloroethene (total)	0.2257926	5.66826	0	0			15	
1,2-Dichloropropane	0.2562795	4.808453	12.895	2.236072E-02			CCC (20)	
1,3-Dichloropropane	0.7476228	6.565771	14.762	1.645115E-02			15	
2,2-Dichloropropane	0.3047453	7.536233	9.817	6.765373E-02			15	
1,1-Dichloropropene	0.3077578	6.277739	11.69733	3.520369E-02			15	
cis-1,3-Dichloropropene	0.3687261	6.715723	13.85867	2.725416E-02			15	
trans-1,3-Dichloropropene	0.6343731	7.849772	14.353	2.839321E-02			15	
Diisopropyl Ether	0.8328406	6.498419	8.845667	4.787607E-02			15	
Ethylbenzene	2.356804	14.6307	16.18733	2.521386E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6967914	8.80672	9.904556	4.608595E-02			15	
Ethyl Methacrylate	0.5504545	13.59658	14.83656	5.480763E-02			15	
Hexachlorobutadiene	0.3096349	16.75068	20.199	1.725689E-02	0.9992167		0.995	
2-Hexanone	0.3159287	19.62314	14.95788	0.1536743	0.9985677		0.995	
Iodomethane	0.2812665	19.26399	5.943	0.102056	0.9996984		0.995	
Isopropylbenzene	1.931811	13.91947	16.94	1.393468E-02			15	
p-Isopropyltoluene	1.341973	7.51519	17.70033	1.045186E-02			15	
Methylene chloride	0.2430347	7.249268	6.115889	6.876087E-02			15	
Methyl Acetate	0.1690587	5.282551	6.153333	0.1019137			15	
Methylcyclohexane	0.2740638	7.278646	13.64433	2.119816E-02			15	
Naphthalene	1.637823	5.048973	20.15867	1.530895E-02			15	
Methyl Methacrylate	0.2153219	10.65267	13.299	6.891426E-02			15	
4-Methyl-2-pentanone	0.2213585	14.68593	14.01325	5.837834E-02			15	
Methyl t-Butyl Ether	0.5783993	5.415197	7.494	8.264436E-02			15	
n-Propylbenzene	2.265422	12.4461	17.27367	1.504421E-02			15	
Styrene	1.55917	8.296739	16.606	2.160731E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.5234688	3.543321	16.66756	6.055184E-03			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.3922633	14.19435	15.965	1.611869E-02			15	
tert-Butyl alcohol	1.806783E-02	13.17667	5.901556	8.978124E-02			15	
Tetrachloroethene	0.5803178	9.212702	15.42567	1.615863E-02			15	
Toluene	1.266817	9.153244	14.69622	1.173103E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.6692996	9.814259	20.39467	2.147976E-02			15	
1,2,4-Trichlorobenzene	0.7430317	10.34887	19.89633	1.991692E-02			15	
1,1,2-Trichloroethane	0.3774056	6.376428	14.50167	8.979918E-03			15	
1,1,1-Trichloroethane	0.3181209	9.211913	11.33911	4.512402E-02			15	
Tetrahydrofuran	6.750291E-02	15.92611	10.47212	0.1226981	0.9994273		0.995	
Trichloroethene	0.2462319	6.256117	12.97667	2.763548E-02			15	
Trichlorofluoromethane	0.3227014	7.743543	5.156222	6.336786E-02			15	
1,2,3-Trichloropropane	0.1759719	4.977682	16.77467	1.222676E-02			15	
1,3,5-Trimethylbenzene	1.631362	9.359366	17.476	2.218609E-02			15	
1,2,4-Trimethylbenzene	1.6879	8.163573	17.77867	7.414698E-03			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1765655	7.73711	6.211	8.515101E-02			15	
Vinyl chloride	0.211655	4.326316	3.853889	5.652913E-02			CCC (20)	
m,p-Xylene	1.94475	11.82239	16.344	2.217847E-02			15	
o-Xylene	2.049863	12.57041	16.66062	1.171739E-02			15	
Vinyl acetate	0.238094	16.4196	8.031333	0.1635173	0.9997745		0.995	
Xylenes (total)	1.933	14.44837	0	0			15	
Dibromofluoromethane	0.2525351	1.358663	9.895667	6.587298E-02			15	
1,2-Dichloroethane-d4	5.392485E-02	1.948573	10.978	4.105036E-02			15	
Toluene-d8	2.159642	3.19565	14.62256	6.619058E-03			15	
tert-Amyl alcohol	1.100569E-02	26.54099	10.834	5.509799E-02	0.9993611		0.995	
tert-Amyl ethyl ether	0.6344248	6.268733	13.53989	1.578894E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0207ICV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B03901	Injection Date:	02/07/11
Lab Sample ID:	1B03901-ICV1	Injection Time:	11:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	100.0	104.8	0.8183504	0.8575312		4.8	20
Bromobenzene	A	100.0	103.5	0.7130765	0.7382378		3.5	20
Bromochloromethane	A	100.0	105.8	0.1506323	0.1593131		5.8	20
Bromodichloromethane	A	100.0	108.0	0.3027916	0.3269522		8.0	20
Bromoform	A	100.0	105.9	0.5699803	0.6036491	0.1	5.9	20
Bromomethane	L	100.0	102.4	0.1299074	0.1595994		2.4	20
n-Butylbenzene	A	100.0	103.5	1.217717	1.259747		3.5	20
sec-Butylbenzene	A	100.0	97.49	1.6733	1.631307		-2.5	20
tert-Butylbenzene	A	100.0	104.5	1.187017	1.240223		4.5	20
Carbon disulfide	A	100.0	108.4	0.7469286	0.8094463		8.4	20
Carbon tetrachloride	A	100.0	103.0	0.2803579	0.2886493		3.0	20
Chlorobenzene	A	100.0	99.64	1.569517	1.563876	0.3	-0.4	20
Chloroethane	A	100.0	107.7	0.1568842	0.1689537		7.7	20
Chloroform	A	100.0	101.7	0.4305875	0.4378576		1.7	20
Chloromethane	A	100.0	111.5	0.1946412	0.2170477	0.1	11.5	20
2-Chlorotoluene	A	100.0	102.4	1.424715	1.458813		2.4	20
4-Chlorotoluene	A	100.0	108.5	1.457508	1.581263		8.5	20
Dibromochloromethane	A	100.0	101.6	0.7402924	0.7522972		1.6	20
1,2-Dibromo-3-chloropropane	L	100.0	94.73	0.1405829	0.1548509		-5.3	20
1,2-Dibromoethane (EDB)	A	100.0	100.7	0.6476013	0.6519374		0.7	20
Dibromomethane	A	100.0	106.4	0.1687338	0.1795799		6.4	20
1,2-Dichlorobenzene	A	100.0	105.9	1.071477	1.134417		5.9	20
1,3-Dichlorobenzene	A	100.0	106.1	1.109664	1.177845		6.1	20
1,4-Dichlorobenzene	A	100.0	97.22	1.185544	1.152535		-2.8	20
Dichlorodifluoromethane	L	100.0	118.4	0.222674	0.2729908		18.4	20
1,1-Dichloroethane	A	100.0	102.7	0.4081297	0.4192552	0.1	2.7	20
1,2-Dichloroethane	A	100.0	104.6	0.2844065	0.2975996		4.6	20
1,1-Dichloroethene	A	100.0	112.6	0.2163828	0.2437113		12.6	20
cis-1,2-Dichloroethene	A	100.0	105.4	0.2711242	0.2857824		5.4	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0207ICV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B03901	Injection Date:	02/07/11
Lab Sample ID:	1B03901-ICV1	Injection Time:	11:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	100.0	106.7	0.2561505	0.273286		6.7	20
1,2-Dichloropropane	A	100.0	105.8	0.2147841	0.2272202		5.8	20
1,3-Dichloropropane	A	100.0	97.22	0.8727974	0.8485668		-2.8	20
2,2-Dichloropropane	A	100.0	97.09	0.313679	0.3045407		-2.9	20
1,1-Dichloropropene	A	100.0	104.4	0.2975675	0.3107613		4.4	20
cis-1,3-Dichloropropene	A	100.0	104.6	0.3476874	0.3636567		4.6	20
trans-1,3-Dichloropropene	A	100.0	112.9	0.8140528	0.9193387		12.9	20
Ethylbenzene	A	100.0	98.72	2.362031	2.33182		-1.3	20
Hexachlorobutadiene	A	100.0	100.7	0.2884888	0.2904635		0.7	20
Isopropylbenzene	A	100.0	100.9	1.87632	1.892421		0.9	20
p-Isopropyltoluene	A	100.0	100.8	1.319723	1.3304		0.8	20
Methylene chloride	L	100.0	106.9	0.3495467	0.2870065		6.9	20
Naphthalene	A	100.0	102.2	1.354318	1.383704		2.2	20
Methyl t-Butyl Ether	A	200.0	203.1	0.5847072	0.5937574		1.5	20
n-Propylbenzene	A	100.0	102.9	2.077827	2.138863		2.9	20
Styrene	A	100.0	97.73	1.58216	1.546204		-2.3	20
1,1,2,2-Tetrachloroethane	A	100.0	100.2	0.5617003	0.5630699	0.3	0.2	20
1,1,1,2-Tetrachloroethane	A	100.0	101.8	0.6203306	0.6312648		1.8	20
Tetrachloroethene	A	100.0	101.2	0.7377491	0.7469719		1.3	20
Toluene	A	100.0	97.48	1.341681	1.30786		-2.5	20
1,2,3-Trichlorobenzene	A	100.0	100.8	0.5885341	0.593447		0.8	20
1,2,4-Trichlorobenzene	A	100.0	98.62	0.6548499	0.6458299		-1.4	20
1,1,2-Trichloroethane	A	100.0	96.16	0.4819472	0.4634186		-3.8	20
1,1,1-Trichloroethane	A	100.0	103.0	0.3182995	0.3278918		3.0	20
Trichloroethene	A	100.0	105.1	0.2365637	0.2487209		5.1	20
Trichlorofluoromethane	A	100.0	101.9	0.3726959	0.3798505		1.9	20
1,2,3-Trichloropropane	A	100.0	97.95	0.1879384	0.1840816		-2.1	20
1,3,5-Trimethylbenzene	A	100.0	104.9	1.460301	1.532568		4.9	20
1,2,4-Trimethylbenzene	A	100.0	104.0	1.5051	1.565866		4.0	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0207ICV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B03901	Injection Date:	02/07/11
Lab Sample ID:	1B03901-ICV1	Injection Time:	11:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	100.0	101.8	0.1667217	0.1696555		1.8	20
m,p-Xylene	A	200.0	184.2	1.800979	1.65836		-7.9	20
o-Xylene	A	100.0	94.06	1.868187	1.757169		-5.9	20
Bromofluorobenzene	A	30.00	29.15	0.957387	0.9303721		-2.8	20
Dibromofluoromethane	A	30.00	29.73	0.3249097	0.3219898		-0.9	20
1,2-Dichloroethane-d4	A	30.00	31.33	6.571543E-02	6.863695E-02		4.4	20
Toluene-d8	A	30.00	28.56	2.437291	2.320547		-4.8	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0207ICV4.D	Calibration Date:	02/07/11 07:30
Sequence:	1B03901	Injection Date:	02/07/11
Lab Sample ID:	1B03901-ICV4	Injection Time:	17:53

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	100.0	107.3	6.348042E-02	6.809928E-02		7.3	20
2-Butanone	L	100.0	103.0	0.0859897	0.102141		3.0	20
2-Hexanone	A	100.0	119.4	0.3128498	0.3736664		19.4	20
4-Methyl-2-pentanone	A	100.0	116.0	0.1734344	0.2012692		16.0	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV1	Injection Time:	12:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	100.0	98.61	0.8877526	0.8754519		-1.4	20
Bromobenzene	A	100.0	96.82	0.658417	0.6374675		-3.2	20
Bromochloromethane	A	100.0	104.4	0.1221319	0.127462		4.4	20
Bromodichloromethane	A	100.0	116.9	0.2617577	0.3060053		16.9	20
Bromoform	L	100.0	101.8	0.2222152	0.3310082	0.1	1.8	20
Bromomethane	L	100.0	98.53	0.134767	0.1599718		-1.5	20
n-Butylbenzene	A	100.0	92.95	1.373729	1.276939		-7.0	20
sec-Butylbenzene	A	100.0	95.92	1.78503	1.712249		-4.1	20
tert-Butylbenzene	A	100.0	96.14	1.508831	1.450665		-3.9	20
Carbon disulfide	A	100.0	113.3	0.6389933	0.7241915		13.3	20
Carbon tetrachloride	L	100.0	99.47	0.2178602	0.2669694		-0.5	20
Chlorobenzene	A	100.0	95.93	1.436424	1.377992	0.3	-4.1	20
Chloroethane	A	100.0	106.0	0.1259794	0.133548		6.0	20
Chloroform	A	100.0	98.09	0.4027485	0.3950397		-1.9	20
Chloromethane	A	100.0	112.9	0.2467998	0.2786856	0.1	12.9	20
2-Chlorotoluene	A	100.0	97.46	1.557085	1.517555		-2.5	20
4-Chlorotoluene	A	100.0	95.12	1.615142	1.536353		-4.9	20
Dibromochloromethane	L	100.0	105.6	0.3561249	0.4826405		5.6	20
1,2-Dibromo-3-chloropropane	L	100.0	96.44	0.1049106	0.130851		-3.6	20
1,2-Dibromoethane (EDB)	A	100.0	100.8	0.4787408	0.4825239		0.8	20
Dibromomethane	A	100.0	102.0	0.155373	0.1584544		2.0	20
1,2-Dichlorobenzene	A	100.0	95.69	1.083088	1.03646		-4.3	20
1,3-Dichlorobenzene	A	100.0	93.55	1.123795	1.051362		-6.4	20
1,4-Dichlorobenzene	A	100.0	92.63	1.153886	1.06889		-7.4	20
Dichlorodifluoromethane	A	100.0	143.0	0.1736804	0.2482943		43.0	20 *
1,1-Dichloroethane	A	100.0	101.1	0.4157175	0.4204233	0.1	1.1	20
1,2-Dichloroethane	A	100.0	101.2	0.3303627	0.3342831		1.2	20
1,1-Dichloroethene	A	100.0	109.3	0.1766574	0.1931641		9.3	20
cis-1,2-Dichloroethene	A	100.0	98.74	0.2378304	0.2348456		-1.3	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV1	Injection Time:	12:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	100.0	102.4	0.2137549	0.2188265		2.4	20
1,2-Dichloropropane	A	100.0	101.0	0.2562795	0.2588877		1.0	20
1,3-Dichloropropane	A	100.0	97.49	0.7476228	0.7288219		-2.5	20
2,2-Dichloropropane	A	100.0	98.92	0.3047453	0.3014667		-1.1	20
1,1-Dichloropropene	A	100.0	101.9	0.3077578	0.3136846		1.9	20
cis-1,3-Dichloropropene	A	100.0	102.0	0.3687261	0.3759799		2.0	20
trans-1,3-Dichloropropene	A	100.0	117.9	0.6343731	0.7477025		17.9	20
Ethylbenzene	A	100.0	93.26	2.356804	2.197843		-6.7	20
Hexachlorobutadiene	L	100.0	104.9	0.3096349	0.3113485		4.9	20
Isopropylbenzene	A	100.0	97.29	1.931811	1.879531		-2.7	20
p-Isopropyltoluene	A	100.0	97.93	1.341973	1.314139		-2.1	20
Methylene chloride	A	100.0	97.27	0.2430347	0.2363881		-2.7	20
Naphthalene	A	100.0	97.52	1.637823	1.597163		-2.5	20
Methyl t-Butyl Ether	A	200.0	198.3	0.5783993	0.5734028		-0.9	20
n-Propylbenzene	A	100.0	94.99	2.265422	2.152023		-5.0	20
Styrene	A	100.0	101.1	1.55917	1.576227		1.1	20
1,1,2,2-Tetrachloroethane	A	100.0	98.64	0.5234688	0.5163364	0.3	-1.4	20
1,1,1,2-Tetrachloroethane	A	100.0	119.4	0.3922633	0.4685512		19.4	20
Tetrachloroethene	A	100.0	97.25	0.5803178	0.5643474		-2.8	20
Toluene	A	100.0	96.30	1.266817	1.219986		-3.7	20
1,2,3-Trichlorobenzene	A	100.0	94.36	0.6692996	0.6315523		-5.6	20
1,2,4-Trichlorobenzene	A	100.0	92.86	0.7430317	0.6899524		-7.1	20
1,1,2-Trichloroethane	A	100.0	96.87	0.3774056	0.3655906		-3.1	20
1,1,1-Trichloroethane	A	100.0	106.3	0.3181209	0.3380254		6.3	20
Trichloroethene	A	100.0	100.0	0.2462319	0.246225		-0.003	20
Trichlorofluoromethane	A	100.0	103.8	0.3227014	0.3349294		3.8	20
1,2,3-Trichloropropane	A	100.0	98.52	0.1759719	0.173367		-1.5	20
1,3,5-Trimethylbenzene	A	100.0	96.25	1.631362	1.570187		-3.7	20
1,2,4-Trimethylbenzene	A	100.0	97.23	1.6879	1.641188		-2.8	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV1	Injection Time:	12:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	100.0	109.1	0.211655	0.2309513		9.1	20
m,p-Xylene	A	200.0	162.6	1.94475	1.580598		-18.7	20
o-Xylene	A	100.0	88.44	2.049863	1.812892		-11.6	20
Bromofluorobenzene	A	30.00	29.31	0.9432064	0.9214516		-2.3	20
Dibromofluoromethane	A	30.00	29.50	0.2525351	0.248311		-1.7	20
1,2-Dichloroethane-d4	A	30.00	31.00	5.392485E-02	5.571539E-02		3.3	20
Toluene-d8	A	30.00	29.76	2.159642	2.142179		-0.8	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV3.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV3	Injection Time:	18:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	212.6	6.734143E-02	7.158481E-02		6.3	20
2-Butanone	A	200.0	223.5	0.1029735	0.1150657		11.7	20
2-Hexanone	L	200.0	214.8	0.3159287	0.3806354		7.4	20
4-Methyl-2-pentanone	A	200.0	234.7	0.2213585	0.2597223		17.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0212CCVE.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04509	Injection Date:	02/12/11
Lab Sample ID:	1B04509-CCV1	Injection Time:	23:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	233.3	6.348042E-02	7.403937E-02		16.6	20
Benzene	A	100.0	112.9	0.8183504	0.9238756		12.9	20
Bromobenzene	A	100.0	110.7	0.7130765	0.7893974		10.7	20
Bromochloromethane	A	100.0	120.2	0.1506323	0.1810224		20.2	20 *
Bromodichloromethane	A	100.0	123.5	0.3027916	0.374062		23.5	20 *
Bromoform	A	100.0	116.8	0.5699803	0.6655055	0.1	16.8	20
Bromomethane	L	100.0	94.33	0.1299074	0.146703		-5.7	20
n-Butylbenzene	A	100.0	106.6	1.217717	1.298709		6.7	20
2-Butanone	L	200.0	185.5	0.0859897	9.309645E-02		-7.2	20
sec-Butylbenzene	A	100.0	101.5	1.6733	1.698066		1.5	20
tert-Butylbenzene	A	100.0	106.7	1.187017	1.266589		6.7	20
Carbon disulfide	A	100.0	114.0	0.7469286	0.8515081		14.0	20
Carbon tetrachloride	A	100.0	121.5	0.2803579	0.3405262		21.5	20 *
Chlorobenzene	A	100.0	102.6	1.569517	1.609755	0.3	2.6	20
Chloroethane	A	100.0	93.19	0.1568842	0.1462053		-6.8	20
Chloroform	A	100.0	115.7	0.4305875	0.4983946		15.7	20
Chloromethane	A	100.0	112.3	0.1946412	0.2186276	0.1	12.3	20
2-Chlorotoluene	A	100.0	106.6	1.424715	1.518442		6.6	20
4-Chlorotoluene	A	100.0	113.1	1.457508	1.648328		13.1	20
Dibromochloromethane	A	100.0	106.7	0.7402924	0.7899401		6.7	20
1,2-Dibromo-3-chloropropane	L	100.0	105.7	0.1405829	0.1730135		5.7	20
1,2-Dibromoethane (EDB)	A	100.0	105.0	0.6476013	0.680028		5.0	20
Dibromomethane	A	100.0	124.4	0.1687338	0.209839		24.4	20 *
1,2-Dichlorobenzene	A	100.0	109.3	1.071477	1.171046		9.3	20
1,3-Dichlorobenzene	A	100.0	105.5	1.109664	1.170572		5.5	20
1,4-Dichlorobenzene	A	100.0	112.1	1.185544	1.329281		12.1	20
Dichlorodifluoromethane	L	100.0	126.8	0.222674	0.2924911		26.8	20 *
1,1-Dichloroethane	A	100.0	114.8	0.4081297	0.4686915	0.1	14.8	20
1,2-Dichloroethane	A	100.0	127.1	0.2844065	0.361488		27.1	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0212CCVE.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04509	Injection Date:	02/12/11
Lab Sample ID:	1B04509-CCV1	Injection Time:	23:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	111.6	0.2163828	0.2415663		11.6	20
cis-1,2-Dichloroethene	A	100.0	112.4	0.2711242	0.3048756		12.4	20
trans-1,2-Dichloroethene	A	100.0	110.5	0.2561505	0.2830664		10.5	20
1,2-Dichloropropane	A	100.0	111.5	0.2147841	0.2395665		11.5	20
1,3-Dichloropropane	A	100.0	104.8	0.8727974	0.9143469		4.8	20
2,2-Dichloropropane	A	100.0	94.56	0.313679	0.2966146		-5.4	20
1,1-Dichloropropene	A	100.0	114.7	0.2975675	0.3414167		14.7	20
cis-1,3-Dichloropropene	A	100.0	115.1	0.3476874	0.4003142		15.1	20
trans-1,3-Dichloropropene	A	100.0	105.0	0.8140528	0.8547061		5.0	20
Ethylbenzene	A	100.0	101.4	2.362031	2.395089		1.4	20
Hexachlorobutadiene	A	100.0	103.2	0.2884888	0.2977484		3.2	20
2-Hexanone	A	200.0	217.6	0.3128498	0.3404328		8.8	20
Isopropylbenzene	A	100.0	103.8	1.87632	1.948617		3.9	20
p-Isopropyltoluene	A	100.0	106.0	1.319723	1.398645		6.0	20
Methylene chloride	L	100.0	111.9	0.3495467	0.3001078		11.9	20
Naphthalene	A	100.0	117.4	1.354318	1.59016		17.4	20
4-Methyl-2-pentanone	A	200.0	237.9	0.1734344	0.2062836		18.9	20
Methyl t-Butyl Ether	A	100.0	121.0	0.5847072	0.707333		21.0	20 *
n-Propylbenzene	A	100.0	107.1	2.077827	2.225655		7.1	20
Styrene	A	100.0	106.9	1.58216	1.691866		6.9	20
1,1,2,2-Tetrachloroethane	A	100.0	107.7	0.5617003	0.6047984	0.3	7.7	20
1,1,1,2-Tetrachloroethane	A	100.0	106.9	0.6203306	0.6633304		6.9	20
Tetrachloroethene	A	100.0	101.6	0.7377491	0.7498069		1.6	20
Toluene	A	100.0	101.6	1.341681	1.362975		1.6	20
1,2,3-Trichlorobenzene	A	100.0	121.3	0.5885341	0.7138531		21.3	20 *
1,2,4-Trichlorobenzene	A	100.0	113.3	0.6548499	0.7422601		13.3	20
1,1,2-Trichloroethane	A	100.0	103.4	0.4819472	0.4982458		3.4	20
1,1,1-Trichloroethane	A	100.0	122.6	0.3182995	0.3902464		22.6	20 *
Trichloroethene	A	100.0	116.5	0.2365637	0.2755444		16.5	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0212CCVE.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04509	Injection Date:	02/12/11
Lab Sample ID:	1B04509-CCV1	Injection Time:	23:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	119.0	0.3726959	0.4434019		19.0	20
1,2,3-Trichloropropane	A	100.0	111.2	0.1879384	0.2089365		11.2	20
1,3,5-Trimethylbenzene	A	100.0	108.1	1.460301	1.578145		8.1	20
1,2,4-Trimethylbenzene	A	100.0	106.2	1.5051	1.598183		6.2	20
Vinyl chloride	A	100.0	104.6	0.1667217	0.1743881		4.6	20
m,p-Xylene	A	200.0	197.9	1.800979	1.782051		-1.1	20
o-Xylene	A	100.0	101.9	1.868187	1.903818		1.9	20
Bromofluorobenzene	A	30.00	29.08	0.957387	0.9280535		-3.1	20
Dibromofluoromethane	A	30.00	31.31	0.3249097	0.3391501		4.4	20
1,2-Dichloroethane-d4	A	30.00	31.92	6.571543E-02	6.991236E-02		6.4	20
Toluene-d8	A	30.00	28.10	2.437291	2.28288		-6.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0214CCVE.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04609	Injection Date:	02/14/11
Lab Sample ID:	1B04609-CCV1	Injection Time:	20:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	247.8	6.348042E-02	7.865702E-02		23.9	20 *
Benzene	A	100.0	108.9	0.8183504	0.8910906		8.9	20
Bromobenzene	A	100.0	114.5	0.7130765	0.8166076		14.5	20
Bromochloromethane	A	100.0	115.0	0.1506323	0.1732903		15.0	20
Bromodichloromethane	A	100.0	119.1	0.3027916	0.3606831		19.1	20
Bromoform	A	100.0	123.4	0.5699803	0.7031477	0.1	23.4	20 *
Bromomethane	L	100.0	87.69	0.1299074	0.1360979		-12.3	20
n-Butylbenzene	A	100.0	106.3	1.217717	1.294281		6.3	20
2-Butanone	L	200.0	186.9	0.0859897	9.384415E-02		-6.6	20
sec-Butylbenzene	A	100.0	111.2	1.6733	1.860519		11.2	20
tert-Butylbenzene	A	100.0	110.0	1.187017	1.306007		10.0	20
Carbon disulfide	A	100.0	110.4	0.7469286	0.8246958		10.4	20
Carbon tetrachloride	A	100.0	119.5	0.2803579	0.3349545		19.5	20
Chlorobenzene	A	100.0	101.0	1.569517	1.585404	0.3	1.0	20
Chloroethane	A	100.0	113.8	0.1568842	0.1785398		13.8	20
Chloroform	A	100.0	111.5	0.4305875	0.4799741		11.5	20
Chloromethane	A	100.0	103.6	0.1946412	0.2016723	0.1	3.6	20
2-Chlorotoluene	A	100.0	112.0	1.424715	1.595871		12.0	20
4-Chlorotoluene	A	100.0	112.4	1.457508	1.638799		12.4	20
Dibromochloromethane	A	100.0	107.8	0.7402924	0.7979879		7.8	20
1,2-Dibromo-3-chloropropane	L	100.0	112.3	0.1405829	0.1838799		12.3	20
1,2-Dibromoethane (EDB)	A	100.0	109.8	0.6476013	0.7111065		9.8	20
Dibromomethane	A	100.0	119.0	0.1687338	0.2008877		19.1	20
1,2-Dichlorobenzene	A	100.0	109.0	1.071477	1.167555		9.0	20
1,3-Dichlorobenzene	A	100.0	124.5	1.109664	1.381629		24.5	20 *
1,4-Dichlorobenzene	A	100.0	92.88	1.185544	1.10109		-7.1	20
Dichlorodifluoromethane	L	100.0	123.5	0.222674	0.2847348		23.5	20 *
1,1-Dichloroethane	A	100.0	111.0	0.4081297	0.4531899	0.1	11.0	20
1,2-Dichloroethane	A	100.0	124.6	0.2844065	0.35423		24.6	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0214CCVE.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04609	Injection Date:	02/14/11
Lab Sample ID:	1B04609-CCV1	Injection Time:	20:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	110.8	0.2163828	0.2397409		10.8	20
cis-1,2-Dichloroethene	A	100.0	108.6	0.2711242	0.2945207		8.6	20
trans-1,2-Dichloroethene	A	100.0	107.7	0.2561505	0.2758815		7.7	20
1,2-Dichloropropane	A	100.0	107.7	0.2147841	0.2313989		7.7	20
1,3-Dichloropropane	A	100.0	103.2	0.8727974	0.9007913		3.2	20
2,2-Dichloropropane	A	100.0	85.56	0.313679	0.2683713		-14.4	20
1,1-Dichloropropene	A	100.0	112.6	0.2975675	0.3349308		12.6	20
cis-1,3-Dichloropropene	A	100.0	110.6	0.3476874	0.3845353		10.6	20
trans-1,3-Dichloropropene	A	100.0	102.9	0.8140528	0.8375411		2.9	20
Ethylbenzene	A	100.0	105.7	2.362031	2.496199		5.7	20
Hexachlorobutadiene	A	100.0	102.2	0.2884888	0.2947109		2.2	20
2-Hexanone	A	200.0	242.4	0.3128498	0.3792008		21.2	20 *
Isopropylbenzene	A	100.0	104.6	1.87632	1.96222		4.6	20
p-Isopropyltoluene	A	100.0	103.8	1.319723	1.369612		3.8	20
Methylene chloride	L	100.0	106.7	0.3495467	0.2863317		6.7	20
Naphthalene	A	100.0	120.6	1.354318	1.632935		20.6	20 *
4-Methyl-2-pentanone	A	200.0	249.3	0.1734344	0.216211		24.7	20 *
Methyl t-Butyl Ether	A	100.0	114.7	0.5847072	0.6705581		14.7	20
n-Propylbenzene	A	100.0	113.7	2.077827	2.36166		13.7	20
Styrene	A	100.0	107.8	1.58216	1.705815		7.8	20
1,1,2,2-Tetrachloroethane	A	100.0	111.7	0.5617003	0.6273773	0.3	11.7	20
1,1,1,2-Tetrachloroethane	A	100.0	104.7	0.6203306	0.6494035		4.7	20
Tetrachloroethene	A	100.0	100.7	0.7377491	0.7430623		0.7	20
Toluene	A	100.0	97.93	1.341681	1.313961		-2.1	20
1,2,3-Trichlorobenzene	A	100.0	120.6	0.5885341	0.7096738		20.6	20 *
1,2,4-Trichlorobenzene	A	100.0	116.8	0.6548499	0.7649508		16.8	20
1,1,2-Trichloroethane	A	100.0	102.4	0.4819472	0.4933279		2.4	20
1,1,1-Trichloroethane	A	100.0	115.4	0.3182995	0.3672588		15.4	20
Trichloroethene	A	100.0	111.2	0.2365637	0.2629586		11.2	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0214CCVE.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04609	Injection Date:	02/14/11
Lab Sample ID:	1B04609-CCV1	Injection Time:	20:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	117.0	0.3726959	0.4360355		17.0	20
1,2,3-Trichloropropane	A	100.0	111.3	0.1879384	0.2091664		11.3	20
1,3,5-Trimethylbenzene	A	100.0	109.8	1.460301	1.602735		9.8	20
1,2,4-Trimethylbenzene	A	100.0	109.3	1.5051	1.645552		9.3	20
Vinyl chloride	A	100.0	102.0	0.1667217	0.1700264		2.0	20
m,p-Xylene	A	200.0	206.0	1.800979	1.854793		3.0	20
o-Xylene	A	100.0	102.6	1.868187	1.916103		2.6	20
Bromofluorobenzene	A	30.00	31.59	0.957387	1.008144		5.3	20
Dibromofluoromethane	A	30.00	30.69	0.3249097	0.332432		2.3	20
1,2-Dichloroethane-d4	A	30.00	30.38	6.571543E-02	6.654967E-02		1.3	20
Toluene-d8	A	30.00	27.49	2.437291	2.2334		-8.4	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0215CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04702	Injection Date:	02/15/11
Lab Sample ID:	1B04702-CCV1	Injection Time:	06:36

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	242.1	6.734143E-02	8.150678E-02		21.0	20 *
Benzene	A	100.0	98.83	0.8877526	0.8773917		-1.2	20
Bromobenzene	A	100.0	98.22	0.658417	0.6467234		-1.8	20
Bromochloromethane	A	100.0	108.0	0.1221319	0.1319544		8.0	20
Bromodichloromethane	A	100.0	122.1	0.2617577	0.3196334		22.1	20 *
Bromoform	L	100.0	114.5	0.2222152	0.3741278	0.1	14.5	20
Bromomethane	L	100.0	82.89	0.134767	0.1340561		-17.1	20
n-Butylbenzene	A	100.0	97.24	1.373729	1.335891		-2.8	20
2-Butanone	A	200.0	224.5	0.1029735	0.1155771		12.2	20
sec-Butylbenzene	A	100.0	97.93	1.78503	1.748086		-2.1	20
tert-Butylbenzene	A	100.0	97.57	1.508831	1.472162		-2.4	20
Carbon disulfide	A	100.0	111.9	0.6389933	0.7149183		11.9	20
Carbon tetrachloride	L	100.0	107.8	0.2178602	0.2899182		7.8	20
Chlorobenzene	A	100.0	97.12	1.436424	1.39512	0.3	-2.9	20
Chloroethane	A	100.0	109.4	0.1259794	0.1378617		9.4	20
Chloroform	A	100.0	105.5	0.4027485	0.4249629		5.5	20
Chloromethane	A	100.0	107.1	0.2467998	0.2642331	0.1	7.1	20
2-Chlorotoluene	A	100.0	96.11	1.557085	1.4965		-3.9	20
4-Chlorotoluene	A	100.0	97.76	1.615142	1.57895		-2.2	20
Dibromochloromethane	L	100.0	108.6	0.3561249	0.4967326		8.6	20
1,2-Dibromo-3-chloropropane	L	100.0	101.8	0.1049106	0.1382968		1.8	20
1,2-Dibromoethane (EDB)	A	100.0	104.1	0.4787408	0.4983342		4.1	20
Dibromomethane	A	100.0	106.9	0.155373	0.1661501		6.9	20
1,2-Dichlorobenzene	A	100.0	98.47	1.083088	1.066532		-1.5	20
1,3-Dichlorobenzene	A	100.0	94.02	1.123795	1.056587		-6.0	20
1,4-Dichlorobenzene	A	100.0	99.91	1.153886	1.152823		-0.09	20
Dichlorodifluoromethane	A	100.0	147.0	0.1736804	0.2552551		47.0	20 *
1,1-Dichloroethane	A	100.0	104.0	0.4157175	0.4323224	0.1	4.0	20
1,2-Dichloroethane	A	100.0	112.5	0.3303627	0.3716932		12.5	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0215CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04702	Injection Date:	02/15/11
Lab Sample ID:	1B04702-CCV1	Injection Time:	06:36

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	107.2	0.1766574	0.1894503		7.2	20
cis-1,2-Dichloroethene	A	100.0	102.8	0.2378304	0.2445163		2.8	20
trans-1,2-Dichloroethene	A	100.0	102.1	0.2137549	0.2182384		2.1	20
1,2-Dichloropropane	A	100.0	101.8	0.2562795	0.2609323		1.8	20
1,3-Dichloropropane	A	100.0	98.57	0.7476228	0.7369287		-1.4	20
2,2-Dichloropropane	A	100.0	112.8	0.3047453	0.3439238		12.9	20
1,1-Dichloropropene	A	100.0	104.6	0.3077578	0.3220072		4.6	20
cis-1,3-Dichloropropene	A	100.0	110.3	0.3687261	0.4065956		10.3	20
trans-1,3-Dichloropropene	A	100.0	110.5	0.6343731	0.7012779		10.5	20
Ethylbenzene	A	100.0	94.61	2.356804	2.22974		-5.4	20
Hexachlorobutadiene	L	100.0	104.0	0.3096349	0.3084868		4.0	20
2-Hexanone	L	200.0	213.7	0.3159287	0.3786324		6.8	20
Isopropylbenzene	A	100.0	97.08	1.931811	1.875332		-2.9	20
p-Isopropyltoluene	A	100.0	99.32	1.341973	1.332925		-0.7	20
Methylene chloride	A	100.0	98.97	0.2430347	0.2405367		-1.0	20
Naphthalene	A	100.0	100.3	1.637823	1.643357		0.3	20
4-Methyl-2-pentanone	A	200.0	240.9	0.2213585	0.2665841		20.4	20 *
Methyl t-Butyl Ether	A	100.0	106.6	0.5783993	0.6166453		6.6	20
n-Propylbenzene	A	100.0	94.33	2.265422	2.137077		-5.7	20
Styrene	A	100.0	100.1	1.55917	1.560708		0.1	20
1,1,2,2-Tetrachloroethane	A	100.0	97.20	0.5234688	0.5088362	0.3	-2.8	20
1,1,1,2-Tetrachloroethane	A	100.0	124.8	0.3922633	0.4894384		24.8	20 *
Tetrachloroethene	A	100.0	98.73	0.5803178	0.5729628		-1.3	20
Toluene	A	100.0	94.50	1.266817	1.197148		-5.5	20
1,2,3-Trichlorobenzene	A	100.0	99.97	0.6692996	0.6691237		-0.03	20
1,2,4-Trichlorobenzene	A	100.0	98.76	0.7430317	0.7338596		-1.2	20
1,1,2-Trichloroethane	A	100.0	96.74	0.3774056	0.3651148		-3.3	20
1,1,1-Trichloroethane	A	100.0	115.6	0.3181209	0.3676461		15.6	20
Trichloroethene	A	100.0	104.6	0.2462319	0.2576657		4.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0215CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04702	Injection Date:	02/15/11
Lab Sample ID:	1B04702-CCV1	Injection Time:	06:36

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	117.4	0.3227014	0.3788147		17.4	20
1,2,3-Trichloropropane	A	100.0	104.2	0.1759719	0.1834575		4.3	20
1,3,5-Trimethylbenzene	A	100.0	97.83	1.631362	1.595989		-2.2	20
1,2,4-Trimethylbenzene	A	100.0	97.99	1.6879	1.653972		-2.0	20
Vinyl chloride	A	100.0	104.9	0.211655	0.2220239		4.9	20
m,p-Xylene	A	200.0	168.8	1.94475	1.641216		-15.6	20
o-Xylene	A	100.0	91.07	2.049863	1.866765		-8.9	20
Bromofluorobenzene	A	30.00	30.19	0.9432064	0.9491692		0.6	20
Dibromofluoromethane	A	30.00	30.90	0.2525351	0.260088		3.0	20
1,2-Dichloroethane-d4	A	30.00	30.32	5.392485E-02	5.450551E-02		1.1	20
Toluene-d8	A	30.00	28.96	2.159642	2.084692		-3.5	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0215CCVE.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04703	Injection Date:	02/15/11
Lab Sample ID:	1B04703-CCV1	Injection Time:	18:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	233.2	6.734143E-02	7.852419E-02		16.6	20
Benzene	A	100.0	99.56	0.8877526	0.8838162		-0.4	20
Bromobenzene	A	100.0	104.6	0.658417	0.6888084		4.6	20
Bromochloromethane	A	100.0	112.4	0.1221319	0.1372942		12.4	20
Bromodichloromethane	A	100.0	126.4	0.2617577	0.3308509		26.4	20 *
Bromoform	L	100.0	121.0	0.2222152	0.3962826	0.1	21.0	20 *
Bromomethane	L	100.0	86.96	0.134767	0.1407883		-13.0	20
n-Butylbenzene	A	100.0	97.20	1.373729	1.335327		-2.8	20
2-Butanone	A	200.0	210.0	0.1029735	0.1081246		5.0	20
sec-Butylbenzene	A	100.0	98.60	1.78503	1.760051		-1.4	20
tert-Butylbenzene	A	100.0	97.96	1.508831	1.478071		-2.0	20
Carbon disulfide	A	100.0	111.9	0.6389933	0.7149826		11.9	20
Carbon tetrachloride	L	100.0	111.0	0.2178602	0.2989678		11.0	20
Chlorobenzene	A	100.0	100.4	1.436424	1.441615	0.3	0.4	20
Chloroethane	A	100.0	114.1	0.1259794	0.1438017		14.1	20
Chloroform	A	100.0	110.1	0.4027485	0.4433216		10.1	20
Chloromethane	A	100.0	112.1	0.2467998	0.2766382	0.1	12.1	20
2-Chlorotoluene	A	100.0	100.8	1.557085	1.56938		0.8	20
4-Chlorotoluene	A	100.0	101.9	1.615142	1.645426		1.9	20
Dibromochloromethane	L	100.0	115.2	0.3561249	0.527787		15.2	20
1,2-Dibromo-3-chloropropane	L	100.0	113.5	0.1049106	0.1547081		13.5	20
1,2-Dibromoethane (EDB)	A	100.0	110.3	0.4787408	0.5282129		10.3	20
Dibromomethane	A	100.0	114.2	0.155373	0.1773754		14.2	20
1,2-Dichlorobenzene	A	100.0	104.5	1.083088	1.131608		4.5	20
1,3-Dichlorobenzene	A	100.0	96.83	1.123795	1.088199		-3.2	20
1,4-Dichlorobenzene	A	100.0	105.2	1.153886	1.214005		5.2	20
Dichlorodifluoromethane	A	100.0	138.9	0.1736804	0.2413017		38.9	20 *
1,1-Dichloroethane	A	100.0	107.1	0.4157175	0.4453875	0.1	7.1	20
1,2-Dichloroethane	A	100.0	117.0	0.3303627	0.3865022		17.0	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0215CCVE.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04703	Injection Date:	02/15/11
Lab Sample ID:	1B04703-CCV1	Injection Time:	18:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	105.7	0.1766574	0.1867098		5.7	20
cis-1,2-Dichloroethene	A	100.0	104.8	0.2378304	0.2493649		4.8	20
trans-1,2-Dichloroethene	A	100.0	105.3	0.2137549	0.2250773		5.3	20
1,2-Dichloropropane	A	100.0	105.7	0.2562795	0.2709127		5.7	20
1,3-Dichloropropane	A	100.0	107.4	0.7476228	0.8029458		7.4	20
2,2-Dichloropropane	A	100.0	97.25	0.3047453	0.2963788		-2.7	20
1,1-Dichloropropene	A	100.0	105.4	0.3077578	0.3243855		5.4	20
cis-1,3-Dichloropropene	A	100.0	110.6	0.3687261	0.4079495		10.6	20
trans-1,3-Dichloropropene	A	100.0	114.5	0.6343731	0.726367		14.5	20
Ethylbenzene	A	100.0	97.25	2.356804	2.291934		-2.8	20
Hexachlorobutadiene	L	100.0	100.1	0.3096349	0.2968648		0.1	20
2-Hexanone	L	200.0	209.2	0.3159287	0.3708021		4.6	20
Isopropylbenzene	A	100.0	99.74	1.931811	1.926886		-0.3	20
p-Isopropyltoluene	A	100.0	100.1	1.341973	1.343262		0.1	20
Methylene chloride	A	100.0	103.0	0.2430347	0.2504562		3.1	20
Naphthalene	A	100.0	108.1	1.637823	1.770369		8.1	20
4-Methyl-2-pentanone	A	200.0	237.8	0.2213585	0.2632554		18.9	20
Methyl t-Butyl Ether	A	100.0	111.7	0.5783993	0.6463534		11.7	20
n-Propylbenzene	A	100.0	96.60	2.265422	2.188342		-3.4	20
Styrene	A	100.0	103.6	1.55917	1.614537		3.6	20
1,1,2,2-Tetrachloroethane	A	100.0	106.0	0.5234688	0.5550588	0.3	6.0	20
1,1,1,2-Tetrachloroethane	A	100.0	130.7	0.3922633	0.512783		30.7	20 *
Tetrachloroethene	A	100.0	99.58	0.5803178	0.5778679		-0.4	20
Toluene	A	100.0	96.86	1.266817	1.227077		-3.1	20
1,2,3-Trichlorobenzene	A	100.0	105.7	0.6692996	0.7073315		5.7	20
1,2,4-Trichlorobenzene	A	100.0	101.5	0.7430317	0.7544759		1.5	20
1,1,2-Trichloroethane	A	100.0	103.7	0.3774056	0.391517		3.7	20
1,1,1-Trichloroethane	A	100.0	117.6	0.3181209	0.3741048		17.6	20
Trichloroethene	A	100.0	107.8	0.2462319	0.2655019		7.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0215CCVE.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04703	Injection Date:	02/15/11
Lab Sample ID:	1B04703-CCV1	Injection Time:	18:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	112.2	0.3227014	0.3621087		12.2	20
1,2,3-Trichloropropane	A	100.0	115.6	0.1759719	0.2033623		15.6	20
1,3,5-Trimethylbenzene	A	100.0	100.8	1.631362	1.645385		0.9	20
1,2,4-Trimethylbenzene	A	100.0	101.1	1.6879	1.706851		1.1	20
Vinyl chloride	A	100.0	111.7	0.211655	0.2364309		11.7	20
m,p-Xylene	A	200.0	172.5	1.94475	1.677718		-13.7	20
o-Xylene	A	100.0	95.35	2.049863	1.954493		-4.7	20
Bromofluorobenzene	A	30.00	29.96	0.9432064	0.9419363		-0.1	20
Dibromofluoromethane	A	30.00	30.66	0.2525351	0.2581216		2.2	20
1,2-Dichloroethane-d4	A	30.00	29.54	5.392485E-02	5.310251E-02		-1.5	20
Toluene-d8	A	30.00	29.23	2.159642	2.104473		-2.6	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0215CCV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04705	Injection Date:	02/15/11
Lab Sample ID:	1B04705-CCV1	Injection Time:	09:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	246.4	6.348042E-02	7.819516E-02		23.2	20 *
Benzene	A	100.0	107.3	0.8183504	0.8782445		7.3	20
Bromobenzene	A	100.0	109.5	0.7130765	0.780905		9.5	20
Bromochloromethane	A	100.0	111.7	0.1506323	0.1682361		11.7	20
Bromodichloromethane	A	100.0	114.2	0.3027916	0.3458354		14.2	20
Bromoform	A	100.0	111.5	0.5699803	0.6353044	0.1	11.5	20
Bromomethane	L	100.0	99.10	0.1299074	0.1543109		-0.9	20
n-Butylbenzene	A	100.0	106.9	1.217717	1.302044		6.9	20
2-Butanone	L	200.0	206.2	0.0859897	0.1036685		3.1	20
sec-Butylbenzene	A	100.0	105.9	1.6733	1.772715		5.9	20
tert-Butylbenzene	A	100.0	104.8	1.187017	1.244227		4.8	20
Carbon disulfide	A	100.0	111.4	0.7469286	0.8317487		11.4	20
Carbon tetrachloride	A	100.0	115.9	0.2803579	0.3248251		15.9	20
Chlorobenzene	A	100.0	103.0	1.569517	1.615894	0.3	3.0	20
Chloroethane	A	100.0	107.5	0.1568842	0.1687187		7.5	20
Chloroform	A	100.0	111.6	0.4305875	0.4804896		11.6	20
Chloromethane	A	100.0	114.2	0.1946412	0.2222469	0.1	14.2	20
2-Chlorotoluene	A	100.0	107.7	1.424715	1.534152		7.7	20
4-Chlorotoluene	A	100.0	113.4	1.457508	1.652872		13.4	20
Dibromochloromethane	A	100.0	106.2	0.7402924	0.786247		6.2	20
1,2-Dibromo-3-chloropropane	L	100.0	104.3	0.1405829	0.1707495		4.3	20
1,2-Dibromoethane (EDB)	A	100.0	104.4	0.6476013	0.6760264		4.4	20
Dibromomethane	A	100.0	113.9	0.1687338	0.1922498		13.9	20
1,2-Dichlorobenzene	A	100.0	107.4	1.071477	1.151063		7.4	20
1,3-Dichlorobenzene	A	100.0	100.7	1.109664	1.117522		0.7	20
1,4-Dichlorobenzene	A	100.0	111.3	1.185544	1.319128		11.3	20
Dichlorodifluoromethane	L	100.0	123.5	0.222674	0.2848976		23.5	20 *
1,1-Dichloroethane	A	100.0	109.1	0.4081297	0.4451518	0.1	9.1	20
1,2-Dichloroethane	A	100.0	121.4	0.2844065	0.3452891		21.4	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0215CCV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04705	Injection Date:	02/15/11
Lab Sample ID:	1B04705-CCV1	Injection Time:	09:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	107.9	0.2163828	0.2334475		7.9	20
cis-1,2-Dichloroethene	A	100.0	108.6	0.2711242	0.2944893		8.6	20
trans-1,2-Dichloroethene	A	100.0	103.6	0.2561505	0.2654794		3.6	20
1,2-Dichloropropane	A	100.0	106.0	0.2147841	0.2276761		6.0	20
1,3-Dichloropropane	A	100.0	105.2	0.8727974	0.9181565		5.2	20
2,2-Dichloropropane	A	100.0	115.1	0.313679	0.3610778		15.1	20
1,1-Dichloropropene	A	100.0	106.5	0.2975675	0.3168998		6.5	20
cis-1,3-Dichloropropene	A	100.0	112.2	0.3476874	0.3901506		12.2	20
trans-1,3-Dichloropropene	A	100.0	102.3	0.8140528	0.8324832		2.3	20
Ethylbenzene	A	100.0	103.0	2.362031	2.432863		3.0	20
Hexachlorobutadiene	A	100.0	102.6	0.2884888	0.296121		2.6	20
2-Hexanone	A	200.0	235.9	0.3128498	0.3689967		17.9	20
Isopropylbenzene	A	100.0	102.2	1.87632	1.917747		2.2	20
p-Isopropyltoluene	A	100.0	104.1	1.319723	1.373459		4.1	20
Methylene chloride	L	100.0	109.2	0.3495467	0.2931172		9.2	20
Naphthalene	A	100.0	116.2	1.354318	1.573727		16.2	20
4-Methyl-2-pentanone	A	200.0	243.3	0.1734344	0.2109955		21.7	20 *
Methyl t-Butyl Ether	A	100.0	113.5	0.5847072	0.6639019		13.5	20
n-Propylbenzene	A	100.0	107.3	2.077827	2.228733		7.3	20
Styrene	A	100.0	101.9	1.58216	1.612584		1.9	20
1,1,2,2-Tetrachloroethane	A	100.0	104.9	0.5617003	0.5893217	0.3	4.9	20
1,1,1,2-Tetrachloroethane	A	100.0	102.1	0.6203306	0.6331289		2.1	20
Tetrachloroethene	A	100.0	101.7	0.7377491	0.7504268		1.7	20
Toluene	A	100.0	101.7	1.341681	1.36396		1.7	20
1,2,3-Trichlorobenzene	A	100.0	113.4	0.5885341	0.6671973		13.4	20
1,2,4-Trichlorobenzene	A	100.0	114.8	0.6548499	0.7519756		14.8	20
1,1,2-Trichloroethane	A	100.0	98.14	0.4819472	0.4729636		-1.9	20
1,1,1-Trichloroethane	A	100.0	116.7	0.3182995	0.371482		16.7	20
Trichloroethene	A	100.0	110.0	0.2365637	0.2602251		10.0	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0215CCV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04705	Injection Date:	02/15/11
Lab Sample ID:	1B04705-CCV1	Injection Time:	09:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	112.7	0.3726959	0.4200761		12.7	20
1,2,3-Trichloropropane	A	100.0	107.4	0.1879384	0.2018674		7.4	20
1,3,5-Trimethylbenzene	A	100.0	106.5	1.460301	1.554703		6.5	20
1,2,4-Trimethylbenzene	A	100.0	105.7	1.5051	1.590484		5.7	20
Vinyl chloride	A	100.0	104.1	0.1667217	0.1736253		4.1	20
m,p-Xylene	A	200.0	186.6	1.800979	1.680058		-6.7	20
o-Xylene	A	100.0	99.69	1.868187	1.862334		-0.3	20
Bromofluorobenzene	A	30.00	30.03	0.957387	0.9584109		0.1	20
Dibromofluoromethane	A	30.00	30.95	0.3249097	0.33523		3.2	20
1,2-Dichloroethane-d4	A	30.00	30.66	6.571543E-02	6.715699E-02		2.2	20
Toluene-d8	A	30.00	28.91	2.437291	2.348444		-3.6	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_003

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

Matrix: Laboratory ID: 1B12014-BLK1 File ID: 0212BL1E.D

Sampled: Prepared: Analyzed: 02/13/11 01:36

Solids: Preparation: 5030B Dilution:

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	X, 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	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	X, 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	X, 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	X, 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	0.497	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B12014-BLK1 File ID: 0212BL1E.D

Sampled: Prepared: Analyzed: 02/13/11 01:36

Solids: Preparation: 5030B Dilution:

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 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	X, 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	X, 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	29.00	96.7	75 - 120	
Dibromofluoromethane	30.00	30.27	101	85 - 115	
1,2-Dichloroethane-d4	30.00	28.62	95.4	70 - 120	
Toluene-d8	30.00	27.58	91.9	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B12014-BS1 File ID: 0212LS1E.D

Sampled: Prepared: Analyzed: 02/13/11 00:08

Solids: Preparation: 5030B Dilution:

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	117	2.50	5.00	10.0	
71-43-2	Benzene	51.6	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	53.9	0.250	0.500	1.00	X
75-27-4	Bromodichloromethane	56.5	0.250	0.500	1.00	X
75-25-2	Bromoform	54.0	0.250	0.500	1.00	
74-83-9	Bromomethane	40.7	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.5	0.250	0.500	1.00	
78-93-3	2-Butanone	93.9	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	51.2	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	51.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	52.8	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	51.6	0.250	0.500	1.00	
75-00-3	Chloroethane	54.6	0.500	1.00	2.00	
67-66-3	Chloroform	50.2	0.250	0.500	1.00	
74-87-3	Chloromethane	54.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.3	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.6	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	43.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	50.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	53.5	0.250	0.500	1.00	X
95-50-1	1,2-Dichlorobenzene	51.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	48.9	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	64.7	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	52.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	54.8	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	54.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	50.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	50.5	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.5	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	41.2	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	50.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	49.8	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	55.6	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	49.6	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B12014-BS1 File ID: 0212LS1E.D

Sampled: Prepared: Analyzed: 02/13/11 00:08

Solids: Preparation: 5030B Dilution:

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	121	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	54.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	52.4	0.250	0.500	1.00	
75-09-2	Methylene chloride	50.6	0.500	1.00	2.00	
91-20-3	Naphthalene	50.1	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	117	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	102	0.250	0.500	1.00	X
103-65-1	n-Propylbenzene	50.5	0.250	0.500	1.00	
100-42-5	Styrene	51.5	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.4	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.4	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	50.9	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	48.2	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	49.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	52.1	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.9	0.250	0.500	1.00	X
79-01-6	Trichloroethene	53.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	53.6	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	47.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	49.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.4	0.250	0.500	1.00	
75-01-4	Vinyl chloride	56.5	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	101	0.500	1.00	2.00	
95-47-6	o-Xylene	51.5	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.24	101	75 - 120	
Dibromofluoromethane	30.00	30.48	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.63	102	70 - 120	
Toluene-d8	30.00	29.15	97.2	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B14003-BLK1 File ID: 0214BL1E.D

Sampled: Prepared: Analyzed: 02/14/11 23:12

Solids: Preparation: 5030B Dilution:

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 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	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	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	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	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, 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	X, 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	Q, 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	0.303	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B14003-BLK1 File ID: 0214BL1E.D

Sampled: Prepared: Analyzed: 02/14/11 23:12

Solids: Preparation: 5030B Dilution:

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, 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	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, 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	X, 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	30.45	101	75 - 120	
Dibromofluoromethane	30.00	30.15	100	85 - 115	
1,2-Dichloroethane-d4	30.00	30.17	101	70 - 120	
Toluene-d8	30.00	28.41	94.7	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B14003-BS1 File ID: 0214LS1E.D

Sampled: Prepared: Analyzed: 02/14/11 21:14

Solids: Preparation: 5030B Dilution:

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	127	2.50	5.00	10.0	X
71-43-2	Benzene	54.4	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.8	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.3	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	61.1	0.250	0.500	1.00	
75-25-2	Bromoform	56.0	0.250	0.500	1.00	X
74-83-9	Bromomethane	36.8	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	49.9	0.250	0.500	1.00	
78-93-3	2-Butanone	98.1	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	54.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.7	0.250	0.500	1.00	
75-15-0	Carbon disulfide	54.6	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	57.7	0.250	0.500	1.00	
108-90-7	Chlorobenzene	51.9	0.250	0.500	1.00	
75-00-3	Chloroethane	56.7	0.500	1.00	2.00	
67-66-3	Chloroform	53.5	0.250	0.500	1.00	
74-87-3	Chloromethane	54.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.6	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.9	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	50.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	58.5	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.6	0.250	0.500	1.00	X
106-46-7	1,4-Dichlorobenzene	53.5	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	67.2	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.8	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	58.3	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	58.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	53.1	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	55.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.6	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	42.0	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	52.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	57.0	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.1	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	53.2	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B14003-BS1 File ID: 0214LS1E.D

Sampled: Prepared: Analyzed: 02/14/11 21:14

Solids: Preparation: 5030B Dilution:

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	124	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	54.5	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	55.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.9	0.500	1.00	2.00	
91-20-3	Naphthalene	58.7	0.250	0.500	1.00	X
108-10-1	4-Methyl-2-pentanone	131	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	111	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.4	0.250	0.500	1.00	
100-42-5	Styrene	52.7	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	53.1	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.6	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	52.0	0.250	0.500	1.00	
108-88-3	Toluene	50.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	54.0	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	53.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.6	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	55.7	0.250	0.500	1.00	
79-01-6	Trichloroethene	57.5	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.6	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	51.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.1	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	54.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	57.6	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	49.4	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.85	96.2	75 - 120	
Dibromofluoromethane	30.00	30.54	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.41	101	70 - 120	
Toluene-d8	30.00	28.69	95.6	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B14003-BSD1 File ID: 0214LD1E.D

Sampled: Prepared: Analyzed: 02/15/11 08:04

Solids: Preparation: 5030B Dilution:

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	121	2.50	5.00	10.0	X
71-43-2	Benzene	54.9	0.250	0.500	1.00	
108-86-1	Bromobenzene	54.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	58.4	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	60.3	0.250	0.500	1.00	
75-25-2	Bromoform	54.0	0.250	0.500	1.00	X
74-83-9	Bromomethane	42.6	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	49.5	0.250	0.500	1.00	
78-93-3	2-Butanone	97.6	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	50.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	54.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	57.7	0.250	0.500	1.00	
108-90-7	Chlorobenzene	51.6	0.250	0.500	1.00	
75-00-3	Chloroethane	44.8	0.500	1.00	2.00	
67-66-3	Chloroform	55.8	0.250	0.500	1.00	
74-87-3	Chloromethane	59.8	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	50.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	52.3	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.9	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	47.0	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	51.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	57.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.2	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.9	0.250	0.500	1.00	X
106-46-7	1,4-Dichlorobenzene	48.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	66.3	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	55.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	62.1	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	58.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	54.8	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	53.0	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.8	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	48.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	32.8	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	54.6	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	52.7	0.250	0.500	1.00	
100-41-4	Ethylbenzene	50.5	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	43.3	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B14003-BSD1 File ID: 0214LD1E.D

Sampled: Prepared: Analyzed: 02/15/11 08:04

Solids: Preparation: 5030B Dilution:

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	108	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	54.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	52.2	0.250	0.500	1.00	
75-09-2	Methylene chloride	55.4	0.500	1.00	2.00	
91-20-3	Naphthalene	53.1	0.250	0.500	1.00	X
108-10-1	4-Methyl-2-pentanone	121	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	106	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	52.7	0.250	0.500	1.00	
100-42-5	Styrene	52.5	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	50.0	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.9	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	48.5	0.250	0.500	1.00	
108-88-3	Toluene	48.1	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.5	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	51.1	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	47.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	57.4	0.250	0.500	1.00	
79-01-6	Trichloroethene	53.6	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.9	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	50.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.9	0.250	0.500	1.00	
75-01-4	Vinyl chloride	61.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	102	0.500	1.00	2.00	
95-47-6	o-Xylene	50.8	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.67	98.9	75 - 120	
Dibromofluoromethane	30.00	31.00	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.37	101	70 - 120	
Toluene-d8	30.00	28.11	93.7	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15001-BLK1 File ID: 0215BL1.D

Sampled: Prepared: Analyzed: 02/15/11 09:32

Solids: Preparation: 5030B Dilution:

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

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	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	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	X, 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

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15001-BLK1 File ID: 0215BL1.D

Sampled: Prepared: Analyzed: 02/15/11 09:32

Solids: Preparation: 5030B Dilution:

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

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	X, 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	X, 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	30.79	103	75 - 120	
Dibromofluoromethane	30.00	30.87	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.05	100	70 - 120	
Toluene-d8	30.00	29.79	99.3	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15001-BS1 File ID: 0215LS1.D

Sampled: Prepared: Analyzed: 02/15/11 07:36

Solids: Preparation: 5030B Dilution:

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	102	2.50	5.00	10.0	X
71-43-2	Benzene	49.7	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	52.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	60.6	0.250	0.500	1.00	X
75-25-2	Bromoform	52.6	0.250	0.500	1.00	
74-83-9	Bromomethane	35.7	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	49.9	0.250	0.500	1.00	
78-93-3	2-Butanone	97.0	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	50.7	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	55.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	53.5	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.6	0.250	0.500	1.00	
75-00-3	Chloroethane	51.5	0.500	1.00	2.00	
67-66-3	Chloroform	51.8	0.250	0.500	1.00	
74-87-3	Chloromethane	54.6	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	55.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	45.1	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	52.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	51.9	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	50.8	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.5	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	48.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	77.1	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	51.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	53.3	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	55.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	50.2	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	52.5	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	50.7	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	52.1	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	51.8	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	61.0	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.6	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	51.0	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15001-BS1 File ID: 0215LS1.D

Sampled: Prepared: Analyzed: 02/15/11 07:36

Solids: Preparation: 5030B Dilution:

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	102	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	55.5	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	50.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	49.9	0.500	1.00	2.00	
91-20-3	Naphthalene	46.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	114	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	95.6	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.4	0.250	0.500	1.00	
100-42-5	Styrene	53.0	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	46.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	63.0	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	51.8	0.250	0.500	1.00	
108-88-3	Toluene	50.8	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	45.5	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	46.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	49.6	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	54.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	51.8	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.6	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	52.1	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	51.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride	55.5	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	96.0	0.500	1.00	2.00	
95-47-6	o-Xylene	49.7	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.91	103	75 - 120	
Dibromofluoromethane	30.00	30.17	101	85 - 115	
1,2-Dichloroethane-d4	30.00	29.98	99.9	70 - 120	
Toluene-d8	30.00	30.54	102	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15004-BLK1 File ID: 0215BLE.D

Sampled: Prepared: Analyzed: 02/15/11 20:25

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

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	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	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	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	X, 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	0.754	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15004-BLK1 File ID: 0215BLE.D

Sampled: Prepared: Analyzed: 02/15/11 20:25

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

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	X, 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	30.91	103	75 - 120	
Dibromofluoromethane	30.00	30.46	102	85 - 115	
1,2-Dichloroethane-d4	30.00	29.85	99.5	70 - 120	
Toluene-d8	30.00	30.28	101	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15004-BS1 File ID: 0215LS1E.D

Sampled: Prepared: Analyzed: 02/15/11 18:58

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	107	2.50	5.00	10.0	
71-43-2	Benzene	51.1	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.8	0.250	0.500	1.00	
74-97-5	Bromochloromethane	53.6	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	63.2	0.250	0.500	1.00	X
75-25-2	Bromoform	56.2	0.250	0.500	1.00	X
74-83-9	Bromomethane	36.2	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.6	0.250	0.500	1.00	
78-93-3	2-Butanone	94.6	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	51.7	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	55.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	54.2	0.250	0.500	1.00	
108-90-7	Chlorobenzene	53.0	0.250	0.500	1.00	
75-00-3	Chloroethane	53.4	0.500	1.00	2.00	
67-66-3	Chloroform	53.0	0.250	0.500	1.00	
74-87-3	Chloromethane	55.2	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	50.6	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.0	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	56.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	49.8	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.0	0.250	0.500	1.00	
74-95-3	Dibromomethane	55.0	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.2	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	53.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	72.3	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	52.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	57.1	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	54.9	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	51.1	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	51.5	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	52.1	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	45.6	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	52.2	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.3	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	60.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	52.1	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	54.3	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15004-BS1 File ID: 0215LS1E.D

Sampled: Prepared: Analyzed: 02/15/11 18:58

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	98.1	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	55.1	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	52.3	0.250	0.500	1.00	
75-09-2	Methylene chloride	51.2	0.500	1.00	2.00	
91-20-3	Naphthalene	52.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	111	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	103	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.8	0.250	0.500	1.00	
100-42-5	Styrene	55.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	51.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	64.4	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	51.1	0.250	0.500	1.00	
108-88-3	Toluene	50.3	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	50.3	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	49.1	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	52.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	56.2	0.250	0.500	1.00	
79-01-6	Trichloroethene	52.8	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.1	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	54.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.4	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.1	0.250	0.500	1.00	
75-01-4	Vinyl chloride	55.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	97.0	0.500	1.00	2.00	
95-47-6	o-Xylene	50.3	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.31	104	75 - 120	
Dibromofluoromethane	30.00	30.42	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.50	102	70 - 120	
Toluene-d8	30.00	29.53	98.4	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15004-MS1 File ID: 0208803M.D

Sampled: Prepared: Analyzed: 02/16/11 01:52

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	121	2.50	5.00	10.0	
71-43-2	Benzene	52.6	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.9	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	63.3	0.250	0.500	1.00	Q, X
75-25-2	Bromoform	51.1	0.250	0.500	1.00	X
74-83-9	Bromomethane	37.8	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	52.0	0.250	0.500	1.00	
78-93-3	2-Butanone	99.2	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	53.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	59.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	54.6	0.250	0.500	1.00	
108-90-7	Chlorobenzene	53.3	0.250	0.500	1.00	
75-00-3	Chloroethane	54.4	0.500	1.00	2.00	
67-66-3	Chloroform	55.2	0.250	0.500	1.00	
74-87-3	Chloromethane	59.5	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	53.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.4	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	53.9	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	46.2	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.6	0.250	0.500	1.00	
74-95-3	Dibromomethane	56.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	53.0	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	52.2	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	83.6	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.7	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	58.8	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	59.0	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	51.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.4	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	54.5	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.2	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	37.4	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	55.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	50.6	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	57.5	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.6	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	49.1	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15004-MS1 File ID: 0208803M.D

Sampled: Prepared: Analyzed: 02/16/11 01:52

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	102	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	56.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.2	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.3	0.500	1.00	2.00	
91-20-3	Naphthalene	49.3	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	119	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	103	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.5	0.250	0.500	1.00	
100-42-5	Styrene	53.9	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	62.5	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	52.5	0.250	0.500	1.00	
108-88-3	Toluene	61.4	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	47.3	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	47.0	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	58.7	0.250	0.500	1.00	
79-01-6	Trichloroethene	56.0	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	63.0	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	55.1	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.3	0.250	0.500	1.00	
75-01-4	Vinyl chloride	57.7	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	99.2	0.500	1.00	2.00	
95-47-6	o-Xylene	51.2	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.56	102	75 - 120	
Dibromofluoromethane	30.00	31.13	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.46	102	70 - 120	
Toluene-d8	30.00	29.52	98.4	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15004-MSD1 File ID: 0208803S.D

Sampled: Prepared: Analyzed: 02/16/11 02:21

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	129	2.50	5.00	10.0	
71-43-2	Benzene	53.0	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.7	0.250	0.500	1.00	
74-97-5	Bromochloromethane	56.9	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	65.9	0.250	0.500	1.00	Q, X
75-25-2	Bromoform	54.2	0.250	0.500	1.00	X
74-83-9	Bromomethane	40.5	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	52.3	0.250	0.500	1.00	
78-93-3	2-Butanone	107	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	51.5	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.5	0.250	0.500	1.00	
75-15-0	Carbon disulfide	60.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	57.7	0.250	0.500	1.00	
108-90-7	Chlorobenzene	53.4	0.250	0.500	1.00	
75-00-3	Chloroethane	58.2	0.500	1.00	2.00	
67-66-3	Chloroform	57.2	0.250	0.500	1.00	
74-87-3	Chloromethane	62.0	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.4	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	55.9	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	49.8	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.1	0.250	0.500	1.00	
74-95-3	Dibromomethane	58.0	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.7	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.5	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	84.4	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	55.8	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	60.0	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	59.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	54.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.9	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	53.7	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	53.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	38.5	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	51.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	57.8	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	52.2	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15004-MSD1 File ID: 0208803S.D

Sampled: Prepared: Analyzed: 02/16/11 02:21

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	111	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	56.9	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.0	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.2	0.500	1.00	2.00	
91-20-3	Naphthalene	52.9	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	127	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	107	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.1	0.250	0.500	1.00	
100-42-5	Styrene	54.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	52.2	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	64.0	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	52.5	0.250	0.500	1.00	
108-88-3	Toluene	59.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	48.9	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	52.3	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	59.8	0.250	0.500	1.00	
79-01-6	Trichloroethene	57.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	61.1	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	57.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.3	0.250	0.500	1.00	
75-01-4	Vinyl chloride	61.7	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	98.7	0.500	1.00	2.00	
95-47-6	o-Xylene	51.8	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.39	101	75 - 120	
Dibromofluoromethane	30.00	31.94	106	85 - 115	
1,2-Dichloroethane-d4	30.00	30.74	102	70 - 120	
Toluene-d8	30.00	28.91	96.4	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15006-BLK1 File ID: 0215BL1.D

Sampled: Prepared: Analyzed: 02/15/11 11:33

Solids: Preparation: 5030B Dilution:

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 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	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Q, 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	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	X, 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	X, 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	0.448	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15006-BLK1 File ID: 0215BL1.D

Sampled: Prepared: Analyzed: 02/15/11 11:33

Solids: Preparation: 5030B Dilution:

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 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	X, 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	32.50	108	75 - 120	
Dibromofluoromethane	30.00	30.35	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.41	101	70 - 120	
Toluene-d8	30.00	28.90	96.3	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15006-BS1 File ID: 0215LS1.D

Sampled: Prepared: Analyzed: 02/15/11 10:05

Solids: Preparation: 5030B Dilution:

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	105	2.50	5.00	10.0	X
71-43-2	Benzene	51.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	54.3	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.4	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	58.0	0.250	0.500	1.00	
75-25-2	Bromoform	56.2	0.250	0.500	1.00	
74-83-9	Bromomethane	45.1	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	49.5	0.250	0.500	1.00	
78-93-3	2-Butanone	97.8	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	50.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	54.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.1	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.7	0.250	0.500	1.00	
75-00-3	Chloroethane	55.8	0.500	1.00	2.00	
67-66-3	Chloroform	51.4	0.250	0.500	1.00	
74-87-3	Chloromethane	56.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	50.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	52.6	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	53.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	45.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	52.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.0	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	51.4	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	57.3	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	46.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	63.0	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	53.1	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	55.1	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	56.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	51.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.5	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	50.6	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	48.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	51.5	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	50.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.4	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	55.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	50.3	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15006-BS1 File ID: 0215LS1.D

Sampled: Prepared: Analyzed: 02/15/11 10:05

Solids: Preparation: 5030B Dilution:

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	109	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	54.9	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	54.4	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.4	0.500	1.00	2.00	
91-20-3	Naphthalene	52.1	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	109	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	107	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.0	0.250	0.500	1.00	
100-42-5	Styrene	57.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	51.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.0	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.2	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	53.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.7	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	48.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	51.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	51.5	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.3	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	53.0	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	51.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	52.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	55.2	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	104	0.500	1.00	2.00	
95-47-6	o-Xylene	52.5	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.33	101	75 - 120	
Dibromofluoromethane	30.00	28.95	96.5	85 - 115	
1,2-Dichloroethane-d4	30.00	30.47	102	70 - 120	
Toluene-d8	30.00	28.32	94.4	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15006-BSD1 File ID: 0215LD1.D

Sampled: Prepared: Analyzed: 02/15/11 19:30

Solids: Preparation: 5030B Dilution:

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	108	2.50	5.00	10.0	X
71-43-2	Benzene	52.8	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.5	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	61.6	0.250	0.500	1.00	
75-25-2	Bromoform	55.2	0.250	0.500	1.00	
74-83-9	Bromomethane	28.5	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.3	0.250	0.500	1.00	
78-93-3	2-Butanone	112	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	52.6	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	54.4	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	57.0	0.250	0.500	1.00	
108-90-7	Chlorobenzene	51.7	0.250	0.500	1.00	
75-00-3	Chloroethane	43.2	0.500	1.00	2.00	
67-66-3	Chloroform	54.1	0.250	0.500	1.00	
74-87-3	Chloromethane	51.9	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	52.3	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	55.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	55.1	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	44.0	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.4	0.250	0.500	1.00	
74-95-3	Dibromomethane	55.9	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.2	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	56.7	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	46.4	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	66.3	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.7	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	61.2	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	57.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	51.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	52.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	44.9	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	53.5	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	55.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	54.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	46.0	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B15006-BSD1 File ID: 0215LD1.D

Sampled: Prepared: Analyzed: 02/15/11 19:30

Solids: Preparation: 5030B Dilution:

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	108	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	57.1	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.6	0.500	1.00	2.00	
91-20-3	Naphthalene	52.6	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	108	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	105	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.6	0.250	0.500	1.00	
100-42-5	Styrene	55.9	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.4	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.8	0.250	0.500	1.00	
108-88-3	Toluene	49.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	49.8	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	48.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	56.4	0.250	0.500	1.00	
79-01-6	Trichloroethene	55.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.0	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	49.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	56.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	58.7	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	104	0.500	1.00	2.00	
95-47-6	o-Xylene	53.0	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.49	102	75 - 120	
Dibromofluoromethane	30.00	30.92	103	85 - 115	
1,2-Dichloroethane-d4	30.00	28.82	96.1	70 - 120	
Toluene-d8	30.00	28.28	94.3	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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
GW0014	02/07/11 11:15	02/08/11 08:45	02/12/11 00:00	N/A	14.00	02/13/11 04:33	5.72	14.00	
GW0028	02/07/11 15:16	02/08/11 08:45	02/12/11 00:00	N/A	14.00	02/13/11 05:03	5.57	14.00	
GW8009-TB	02/07/11 08:00	02/08/11 08:45	02/12/11 00:00	N/A	14.00	02/13/11 02:35	5.77	14.00	
GW0029	02/07/11 15:16	02/08/11 08:45	02/12/11 00:00	N/A	14.00	02/13/11 05:32	5.59	14.00	
GW0033	02/04/11 12:55	02/08/11 08:45	02/12/11 00:00	N/A	14.00	02/13/11 06:02	8.71	14.00	
GW8008-TB	02/04/11 08:00	02/08/11 08:45	02/12/11 00:00	N/A	14.00	02/13/11 03:04	8.79	14.00	
GW0025	02/08/11 12:04	02/09/11 08:45	02/14/11 00:00	N/A	14.00	02/15/11 04:37	6.69	14.00	
GW0027	02/08/11 16:08	02/09/11 08:45	02/14/11 00:00	N/A	14.00	02/15/11 05:07	6.54	14.00	
GW8001-AB	02/08/11 10:55	02/09/11 08:45	02/14/11 00:00	N/A	14.00	02/15/11 02:39	6.66	14.00	
GW8001-RB	02/08/11 08:45	02/09/11 08:45	02/14/11 00:00	N/A	14.00	02/15/11 01:10	6.68	14.00	
GW8010-TB	02/08/11 08:00	02/09/11 08:45	02/14/11 00:00	N/A	14.00	02/14/11 23:41	6.65	14.00	
GW0023	02/10/11 14:48	02/11/11 08:45	02/15/11 00:00	N/A	14.00	02/15/11 12:31	4.90	14.00	
GW0026	02/10/11 10:35	02/11/11 08:45	02/15/11 00:00	N/A	14.00	02/15/11 20:54	5.43	14.00	
GW8012-TB	02/10/11 08:00	02/11/11 08:45	02/15/11 00:00	N/A	14.00	02/15/11 10:02	5.08	14.00	
GW0024	02/09/11 11:48	02/10/11 11:45	02/15/11 00:00	N/A	14.00	02/15/11 13:32	6.03	14.00	
GW0030	02/09/11 14:52	02/10/11 11:45	02/15/11 00:00	N/A	14.00	02/15/11 14:01	5.92	14.00	
GW8011-TB	02/09/11 08:00	02/10/11 11:45	02/15/11 00:00	N/A	14.00	02/15/11 12:03	6.13	14.00	

Data for SW8270C Forms

ANALYSIS DATA SHEET

GW0033

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-01	File ID:	0206301.D
Sampled:	02/04/11 12:55	Prepared:	02/11/11 13:15	Analyzed:	02/15/11 20:31
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	U
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	U
100-52-7	Benzaldehyde		1.20	2.40	4.81	Y, U
92-87-5	Benzidine		12.0	24.0	48.1	Y, U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	Q, U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	X, U
51-28-5	2,4-Dinitrophenol		12.0	24.0	48.1	X, U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	U

ANALYSIS DATA SHEET

GW0033

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-01	File ID:	0206301.D
Sampled:	02/04/11 12:55	Prepared:	02/11/11 13:15	Analyzed:	02/15/11 20:31
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.20	2.40	4.81	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.20	2.40	4.81	U
206-44-0	Fluoranthene		1.20	2.40	4.81	U
86-73-7	Fluorene		1.20	2.40	4.81	U
118-74-1	Hexachlorobenzene		1.20	2.40	4.81	U
87-68-3	Hexachlorobutadiene		1.20	2.40	4.81	Q, U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	Q, U
67-72-1	Hexachloroethane		1.20	2.40	4.81	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	U
65794-96-9	3+4-Methylphenol		1.20	2.40	4.81	U
100-01-6	4-Nitroaniline		4.81	9.62	19.2	Q, X, U
99-09-2	3-Nitroaniline		4.81	9.62	19.2	U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	U
98-95-3	Nitrobenzene		1.20	2.40	4.81	U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	U
85-01-8	Phenanthrene		1.20	2.40	4.81	U
108-95-2	Phenol		1.20	2.40	4.81	U
129-00-0	Pyrene		1.20	2.40	4.81	X, U
88-06-2	2,4,6-Trichlorophenol		1.20	2.40	4.81	U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	38.49	80.1	50 - 110	
2-Fluorophenol	96.15	23.27	24.2	20 - 110	
Nitrobenzene-d5	48.08	36.29	75.5	40 - 110	
Phenol-d6	96.15	14.78	15.4	10 - 110	
Terphenyl-d14	48.08	52.44	109	50 - 135	
2,4,6-Tribromophenol	96.15	67.11	69.8	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04714	Instrument:	MS-BNA1
		Calibration:	1032006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04714-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 02/15/11 11:00		
2-Fluorobiphenyl	50.00	102	80 - 120	8.955	8.955	0.0000	+/-0.500	
2-Fluorophenol	100.0	99.8	80 - 120	4.696	4.696	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	96.4	80 - 120	6.797	6.797	0.0000	+/-0.500	
Phenol-d6	100.0	98.2	80 - 120	5.75	5.75	0.0000	+/-0.500	
Terphenyl-d14	50.00	109	80 - 120	13.534	13.534	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	102	80 - 120	10.738	10.738	0.0000	+/-0.500	
Blank (1B11003-BLK1) ug/L				Lab File ID: B11003B1.D		Analyzed: 02/15/11 18:37		
2-Fluorobiphenyl	50.00	56.7	50 - 110	8.952	8.955	-0.0030	+/-0.500	
2-Fluorophenol	100.0	21.0	20 - 110	4.7	4.696	0.0040	+/-0.500	
Nitrobenzene-d5	50.00	57.5	40 - 110	6.791	6.797	-0.0060	+/-0.500	
Phenol-d6	100.0	13.0	10 - 110	5.738	5.75	-0.0120	+/-0.500	
Terphenyl-d14	50.00	109	50 - 135	13.539	13.534	0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	77.3	40 - 125	10.727	10.738	-0.0110	+/-0.500	
LCS (1B11003-BS1) ug/L				Lab File ID: B11003L1.D		Analyzed: 02/15/11 19:06		
2-Fluorobiphenyl	50.00	81.2	50 - 110	8.958	8.955	0.0030	+/-0.500	
2-Fluorophenol	100.0	37.7	20 - 110	4.705	4.696	0.0090	+/-0.500	
Nitrobenzene-d5	50.00	81.8	40 - 110	6.8	6.797	0.0030	+/-0.500	
Phenol-d6	100.0	23.0	10 - 110	5.75	5.75	0.0000	+/-0.500	
Terphenyl-d14	50.00	105	50 - 135	13.541	13.534	0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	98.0	40 - 125	10.737	10.738	-0.0010	+/-0.500	
LCS Dup (1B11003-BSD1) ug/L				Lab File ID: B11003L2.D		Analyzed: 02/15/11 19:34		
2-Fluorobiphenyl	50.00	76.8	50 - 110	8.96	8.955	0.0050	+/-0.500	
2-Fluorophenol	100.0	28.5	20 - 110	4.706	4.696	0.0100	+/-0.500	
Nitrobenzene-d5	50.00	80.4	40 - 110	6.801	6.797	0.0040	+/-0.500	
Phenol-d6	100.0	19.9	10 - 110	5.746	5.75	-0.0040	+/-0.500	
Terphenyl-d14	50.00	110	50 - 135	13.536	13.534	0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	90.5	40 - 125	10.739	10.738	0.0010	+/-0.500	
GW0033 (1102063-01) ug/L				Lab File ID: 0206301.D		Analyzed: 02/15/11 20:31		
2-Fluorobiphenyl	48.08	80.1	50 - 110	8.955	8.955	0.0000	+/-0.500	
2-Fluorophenol	96.15	24.2	20 - 110	4.697	4.696	0.0010	+/-0.500	
Nitrobenzene-d5	48.08	75.5	40 - 110	6.796	6.797	-0.0010	+/-0.500	
Phenol-d6	96.15	15.4	10 - 110	5.736	5.75	-0.0140	+/-0.500	
Terphenyl-d14	48.08	109	50 - 135	13.54	13.534	0.0060	+/-0.500	
2,4,6-Tribromophenol	96.15	69.8	40 - 125	10.726	10.738	-0.0120	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11003	Laboratory ID:	1B11003-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	49.89	99.8	20 - 110
Acenaphthene	50.00	41.86	83.7	45 - 110
Acenaphthylene	50.00	39.65	79.3	50 - 105
Acetophenone	50.00	41.94	83.9	50 - 110
Anthracene	50.00	46.11	92.2	55 - 110
Atrazine	50.00	53.65	107	70 - 115
Benzaldehyde	50.00	41.41	82.8	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	50.29	101	55 - 110
Benzo(a)pyrene	50.00	47.31	94.6	55 - 110
Benzo(b)fluoranthene	50.00	51.28	103	45 - 120
Benzo(g,h,i)perylene	50.00	56.86	114	40 - 125
Benzoic acid	50.00	12.78	25.6	0 - 125
Benzo(k)fluoranthene	50.00	52.28	105	45 - 125
1,1-Biphenyl	50.00	42.77	85.5	50 - 110
4-Bromophenyl-phenylether	50.00	49.48	99.0	50 - 115
Butylbenzylphthalate	**50.00**	**65.03**	**130**	**45 - 115**
Caprolactam	**50.00**	**9.009**	**18.0**	**20 - 110**
Carbazole	50.00	53.00	106	50 - 115
4-Chloro-3-methylphenol	50.00	46.61	93.2	45 - 110
4-Chloroaniline	50.00	36.01	72.0	15 - 110
Bis(2-chloroethoxy)methane	50.00	47.41	94.8	45 - 105
Bis(2-chloroethyl)ether	50.00	41.57	83.1	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	37.33	74.7	25 - 130
2-Chloronaphthalene	50.00	32.91	65.8	50 - 105
2-Chlorophenol	50.00	34.33	68.7	35 - 105
4-Chlorophenyl phenyl ether	50.00	44.64	89.3	50 - 110
Chrysene	50.00	51.71	103	55 - 110
Dibenz(a,h)anthracene	50.00	52.01	104	40 - 125
Dibenzofuran	50.00	41.56	83.1	55 - 105

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11003	Laboratory ID:	1B11003-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Di-n-butylphthalate	50.00	49.46	98.9	55 - 115
2,4-Dichlorophenol	50.00	44.09	88.2	40 - 110
Diethylphthalate	50.00	56.75	114	40 - 120
2,4-Dimethylphenol	50.00	38.59	77.2	30 - 110
Dimethyl phthalate	50.00	45.56	91.1	25 - 125
4,6-Dinitro-2-methylphenol	50.00	60.11	120	40 - 130
2,4-Dinitrophenol	50.00	58.51	117	15 - 140
2,4-Dinitrotoluene	50.00	53.64	107	50 - 120
2,6-Dinitrotoluene	50.00	50.43	101	50 - 115
Di-n-octylphthalate	50.00	60.91	122	35 - 135
1,2-Diphenylhydrazine	50.00	40.54	81.1	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	55.73	111	40 - 125
Fluoranthene	50.00	41.49	83.0	55 - 115
Fluorene	50.00	42.20	84.4	50 - 110
Hexachlorobenzene	50.00	50.62	101	50 - 110
Hexachlorobutadiene	**50.00**	**9.705**	**19.4**	**25 - 105**
Hexachlorocyclopentadiene	50.00	8.290	16.6	10 - 110
Hexachloroethane	**50.00**	**8.705**	**17.4**	**30 - 95**
Indeno(1,2,3-cd)pyrene	50.00	52.08	104	45 - 125
Isophorone	50.00	39.09	78.2	50 - 110
1-Methylnaphthalene	50.00	35.55	71.1	30 - 115
2-Methylnaphthalene	50.00	32.59	65.2	45 - 105
2-Methylphenol	50.00	30.21	60.4	40 - 110
3+4-Methylphenol	50.00	25.97	51.9	30 - 110
4-Nitroaniline	**50.00**	**67.28**	**135**	**35 - 120**
3-Nitroaniline	50.00	46.20	92.4	20 - 125
2-Nitroaniline	50.00	47.85	95.7	50 - 115
Nitrobenzene	50.00	38.57	77.1	30 - 110
4-Nitrophenol	50.00	14.74	29.5	0 - 125
2-Nitrophenol	50.00	45.96	91.9	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11003	Laboratory ID:	1B11003-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
N-Nitrosodiphenylamine	50.00	36.70	73.4	50 - 110
N-Nitroso-di-n-propylamine	50.00	41.98	84.0	35 - 130
Pentachlorophenol	50.00	51.80	104	40 - 115
Phenanthrene	50.00	48.00	96.0	50 - 115
Phenol	50.00	14.13	28.3	0 - 115
Pyrene	50.00	61.96	124	50 - 130
2,4,6-Trichlorophenol	50.00	47.36	94.7	50 - 115
2,4,5-Trichlorophenol	50.00	48.18	96.4	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	46.37	92.7	7.32	30	20 - 110
Acenaphthene	50.00	38.67	77.3	7.91	30	45 - 110
Acenaphthylene	50.00	39.83	79.7	0.463	30	50 - 105
Acetophenone	50.00	37.69	75.4	10.7	30	50 - 110
Anthracene	50.00	46.27	92.5	0.350	30	55 - 110
Atrazine	50.00	54.38	109	1.35	30	70 - 115
Benzaldehyde	50.00	37.64	75.3	9.55	30	10 - 180
Benzidine	50.00	50.0 U	0		30	0 - 200
Benzo(a)anthracene	50.00	47.25	94.5	6.24	30	55 - 110
Benzo(a)pyrene	50.00	43.11	86.2	9.28	30	55 - 110
Benzo(b)fluoranthene	50.00	50.87	102	0.808	30	45 - 120
Benzo(g,h,i)perylene	50.00	45.08	90.2	23.1	30	40 - 125
Benzoic acid	50.00	50.0 U	0		30	0 - 125
Benzo(k)fluoranthene	50.00	48.11	96.2	8.31	30	45 - 125
1,1-Biphenyl	50.00	40.48	81.0	5.50	30	50 - 110
4-Bromophenyl-phenylether	50.00	49.93	99.9	0.904	30	50 - 115
Butylbenzylphthalate	**50.00**	**59.44**	**119 ***	**8.98**	**30**	**45 - 115**
Caprolactam	**50.00**	**8.537**	**17.1 ***	**5.38**	**30**	**20 - 110**
Carbazole	50.00	54.15	108	2.14	30	50 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11003	Laboratory ID:	1B11003-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Chloro-3-methylphenol	50.00	37.80	75.6	20.9	30	45 - 110
4-Chloroaniline	50.00	34.64	69.3	3.89	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	44.25	88.5	6.90	30	45 - 105
Bis(2-chloroethyl)ether	50.00	35.97	71.9	14.4	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	37.72	75.4	1.05	30	25 - 130
2-Chloronaphthalene	50.00	34.55	69.1	4.85	30	50 - 105
2-Chlorophenol	50.00	29.04	58.1	16.7	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	46.51	93.0	4.11	30	50 - 110
Chrysene	50.00	49.14	98.3	5.09	30	55 - 110
Dibenz(a,h)anthracene	50.00	49.60	99.2	4.76	30	40 - 125
Dibenzofuran	50.00	41.59	83.2	0.0876	30	55 - 105
Di-n-butylphthalate	50.00	48.65	97.3	1.65	30	55 - 115
2,4-Dichlorophenol	50.00	39.04	78.1	12.2	30	40 - 110
Diethylphthalate	50.00	52.06	104	8.63	30	40 - 120
2,4-Dimethylphenol	50.00	34.24	68.5	11.9	30	30 - 110
Dimethyl phthalate	50.00	46.39	92.8	1.82	30	25 - 125
4,6-Dinitro-2-methylphenol	50.00	58.52	117	2.69	30	40 - 130
2,4-Dinitrophenol	50.00	52.03	104	11.7	30	15 - 140
2,4-Dinitrotoluene	50.00	51.51	103	4.05	30	50 - 120
2,6-Dinitrotoluene	50.00	46.86	93.7	7.35	30	50 - 115
Di-n-octylphthalate	50.00	55.85	112	8.67	30	35 - 135
1,2-Diphenylhydrazine	50.00	44.48	89.0	9.28	30	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	56.51	113	1.40	30	40 - 125
Fluoranthene	50.00	44.27	88.5	6.50	30	55 - 115
Fluorene	50.00	44.76	89.5	5.90	30	50 - 110
Hexachlorobenzene	50.00	50.56	101	0.116	30	50 - 110
Hexachlorobutadiene	50.00	14.03	28.1	36.4 *	30	25 - 105
Hexachlorocyclopentadiene	50.00	13.73	27.5	49.4 *	30	10 - 110
Hexachloroethane	**50.00**	**10.35**	**20.7 ***	**17.3**	**30**	**30 - 95**
Indeno(1,2,3-cd)pyrene	50.00	49.99	100	4.10	30	45 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11003	Laboratory ID:	1B11003-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Isophorone	50.00	38.12	76.2	2.51	30	50 - 110
1-Methylnaphthalene	50.00	37.20	74.4	4.54	30	30 - 115
2-Methylnaphthalene	50.00	38.15	76.3	15.7	30	45 - 105
2-Methylphenol	50.00	25.61	51.2	16.5	30	40 - 110
3+4-Methylphenol	50.00	20.42	40.8	23.9	30	30 - 110
4-Nitroaniline	**50.00**	**64.27**	**129 ***	**4.58**	**30**	**35 - 120**
3-Nitroaniline	50.00	41.21	82.4	11.4	30	20 - 125
2-Nitroaniline	50.00	40.18	80.4	17.4	30	50 - 115
Nitrobenzene	50.00	38.91	77.8	0.891	30	30 - 110
4-Nitrophenol	50.00	13.69	27.4	7.37	30	0 - 125
2-Nitrophenol	50.00	41.25	82.5	10.8	30	40 - 115
N-Nitrosodiphenylamine	50.00	37.19	74.4	1.31	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	37.13	74.3	12.3	30	35 - 130
Pentachlorophenol	50.00	52.02	104	0.426	30	40 - 115
Phenanthrene	50.00	46.04	92.1	4.17	30	50 - 115
Phenol	50.00	12.49	25.0	12.3	30	0 - 115
Pyrene	50.00	60.93	122	1.68	30	50 - 130
2,4,6-Trichlorophenol	50.00	40.90	81.8	14.6	30	50 - 115
2,4,5-Trichlorophenol	50.00	41.12	82.2	15.8	30	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B11003 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0033	1102063-01	02/11/11 13:15	1,040.00	1.00
Blank	1B11003-BLK1	02/11/11 13:15	1,000.00	1.00
LCS	1B11003-BS1	02/11/11 13:15	1,000.00	1.00
LCS Dup	1B11003-BSD1	02/11/11 13:15	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/26/11
Instrument ID:	MS-BNA1	Injection Time:	15:13
Sequence:	1B03208	Lab Sample ID:	1B03208-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	41.9	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	62.8	PASS
70	Less than 2% of 69	0.345	PASS
127	40 - 60% of 198	44.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.89	PASS
275	10 - 30% of 198	16.8	PASS
365	1 - 200% of 198	1.47	PASS
441	0.001 - 100% of 443	70.3	PASS
442	40 - 200% of 198	40.3	PASS
443	17 - 23% of 442	21.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/28/11
Instrument ID:	MS-BNA1	Injection Time:	09:18
Sequence:	1B03208	Lab Sample ID:	1B03208-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	48.5	PASS
70	Less than 2% of 69	0.314	PASS
127	40 - 60% of 198	40.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.62	PASS
275	10 - 30% of 198	20	PASS
365	1 - 200% of 198	2.17	PASS
441	0.001 - 100% of 443	75.3	PASS
442	40 - 200% of 198	77.2	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/15/11
Instrument ID:	MS-BNA1	Injection Time:	10:34
Sequence:	1B04714	Lab Sample ID:	1B04714-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	30.8	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	47.4	PASS
70	Less than 2% of 69	0.242	PASS
127	40 - 60% of 198	40.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.71	PASS
275	10 - 30% of 198	19.7	PASS
365	1 - 200% of 198	2.14	PASS
441	0.001 - 100% of 443	72.4	PASS
442	40 - 200% of 198	70.3	PASS
443	17 - 23% of 442	20	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03208	Instrument:	MS-BNA1
Calibration:	1032006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03208-TUN1	SEQ-TUN1.D	01/26/11 15:13
Cal Standard	1B03208-CAL1	SEQ-CAL1.D	01/26/11 15:40
Cal Standard	1B03208-CAL2	SEQ-CAL2.D	01/26/11 16:08
Cal Standard	1B03208-CAL3	SEQ-CAL3.D	01/26/11 16:37
Cal Standard	1B03208-CAL4	SEQ-CAL4.D	01/26/11 17:05
Cal Standard	1B03208-CAL5	SEQ-CAL5.D	01/26/11 17:34
Cal Standard	1B03208-CAL6	SEQ-CAL6.D	01/26/11 18:03
Cal Standard	1B03208-CAL7	SEQ-CAL7.D	01/26/11 18:31
Cal Standard	1B03208-CAL8	SEQ-CAL8.D	01/26/11 19:00
Cal Standard	1B03208-CAL9	SEQ-CAL9.D	01/26/11 19:29
Cal Standard	1B03208-CALA	SEQ-CALA.D	01/26/11 19:57
Cal Standard	1B03208-CALB	SEQ-CALB.D	01/26/11 20:26
Cal Standard	1B03208-CALC	SEQ-CALC.D	01/26/11 20:54
Cal Standard	1B03208-CALD	SEQ-CALD.D	01/26/11 21:23
Cal Standard	1B03208-CALE	SEQ-CALE.D	01/26/11 21:52
Cal Standard	1B03208-CALF	SEQ-CALF.D	01/26/11 22:20
Cal Standard	1B03208-CALG	SEQ-CALG.D	01/26/11 22:49
Initial Cal Check	1B03208-ICV1	SEQ-ICV1.D	01/26/11 23:17
Initial Cal Check	1B03208-ICV2	SEQ-ICV2.D	01/26/11 23:45
Initial Cal Check	1B03208-ICV3	SEQ-ICV3.D	01/27/11 00:13
MS Tune	1B03208-TUN2	SEQ-TUN1.D	01/28/11 09:18
Initial Cal Check	1B03208-ICV4	SEQ-ICV4.D	01/28/11 10:25

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04714	Instrument:	MS-BNA1
Calibration:	1032006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04714-TUN1	SEQ-TUN1.D	02/15/11 10:34
Calibration Check	1B04714-CCV1	SEQ-CCV1.D	02/15/11 11:00
Blank	1B11003-BLK1	B11003B1.D	02/15/11 18:37
LCS	1B11003-BS1	B11003L1.D	02/15/11 19:06
LCS Dup	1B11003-BSD1	B11003L2.D	02/15/11 19:34
GW0033	1102063-01	0206301.D	02/15/11 20:31

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04714	Instrument:	MS-BNA1
		Calibration:	1032006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04714-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 02/15/11 11:00			
1,4-Dichlorobenzene-d4	642207	6.149	488941	6.173	131	50 - 200	-0.0240	+/-0.50	
Naphthalene-d8	2001562	7.64	1584368	7.661	126	50 - 200	-0.0210	+/-0.50	
Acenaphthene-d10	1071764	9.771	740127	9.783	145	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10	1596702	11.58	1111588	11.597	144	50 - 200	-0.0170	+/-0.50	
Chrysene-d12	1043998	14.819	979203	14.854	107	50 - 200	-0.0350	+/-0.50	
Perylene-d12	771827	16.557	820355	16.6	94	50 - 200	-0.0430	+/-0.50	
Blank (1B11003-BLK1)			Lab File ID: B11003B1.D			Analyzed: 02/15/11 18:37			
1,4-Dichlorobenzene-d4	612716	6.153	642207	6.149	95	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2020511	7.64	2001562	7.64	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1042777	9.768	1071764	9.771	97	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1572146	11.578	1596702	11.58	98	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	922261	14.818	1043998	14.819	88	50 - 200	-0.0010	+/-0.50	
Perylene-d12	672287	16.565	771827	16.557	87	50 - 200	0.0080	+/-0.50	
LCS (1B11003-BS1)			Lab File ID: B11003L1.D			Analyzed: 02/15/11 19:06			
1,4-Dichlorobenzene-d4	623148	6.152	642207	6.149	97	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	1961600	7.646	2001562	7.64	98	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10	1072449	9.767	1071764	9.771	100	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1644338	11.582	1596702	11.58	103	50 - 200	0.0020	+/-0.50	
Chrysene-d12	971225	14.823	1043998	14.819	93	50 - 200	0.0040	+/-0.50	
Perylene-d12	754666	16.567	771827	16.557	98	50 - 200	0.0100	+/-0.50	
LCS Dup (1B11003-BSD1)			Lab File ID: B11003L2.D			Analyzed: 02/15/11 19:34			
1,4-Dichlorobenzene-d4	618016	6.155	642207	6.149	96	50 - 200	0.0060	+/-0.50	
Naphthalene-d8	1898451	7.641	2001562	7.64	95	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1067609	9.766	1071764	9.771	100	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1542593	11.581	1596702	11.58	97	50 - 200	0.0010	+/-0.50	
Chrysene-d12	928874	14.822	1043998	14.819	89	50 - 200	0.0030	+/-0.50	
Perylene-d12	732966	16.562	771827	16.557	95	50 - 200	0.0050	+/-0.50	
GW0033 (1102063-01)			Lab File ID: 0206301.D			Analyzed: 02/15/11 20:31			
1,4-Dichlorobenzene-d4	640278	6.151	642207	6.149	100	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2091255	7.638	2001562	7.64	104	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1077592	9.766	1071764	9.771	101	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1558771	11.576	1596702	11.58	98	50 - 200	-0.0040	+/-0.50	
Chrysene-d12	851634	14.819	1043998	14.819	82	50 - 200	0.0000	+/-0.50	
Perylene-d12	563650	16.561	771827	16.557	73	50 - 200	0.0040	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

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
3,3'-Dichlorobenzidine												
Acenaphthene	5	1.220878	10	1.118627	20	1.212567	40	1.085046	50	1.043914	60	1.052242
Acenaphthylene	5	1.94982	10	2.146404	20	1.823227	40	1.68579	50	1.661411	60	1.69419
Acetophenone												
Aniline	5	2.02499	10	2.162058	20	1.966631	40	2.001997	50	1.898633	60	1.897488
Anthracene	5	1.184955	10	1.081563	20	1.164455	40	1.091871	50	1.040675	60	0.9601388
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.162396	10	1.11186	20	1.213411	40	1.172758	50	1.123439	60	1.17446
Benzo(a)pyrene	5	1.028759	10	0.9828043	20	1.100819	40	1.122026	50	1.01213	60	1.049306
Benzo(b)fluoranthene	5	1.077629	10	1.039558	20	1.096949	40	1.152977	50	1.139324	60	1.106174
Benzo(g,h,i)perylene	5	0.8224602	10	0.7987842	20	0.8059861	40	0.7816645	50	0.7444304	60	0.6702291
Benzoic acid	5	0.1331081	10	0.1669506	20	0.2293678	40	0.2308795	50	0.2778284	60	0.2809271
Benzo(k)fluoranthene	5	1.29056	10	1.251448	20	1.316401	40	1.277549	50	1.091518	60	1.245353
Benzyl alcohol	5	0.8918595	10	0.9057471	20	0.8810121	40	0.8683949	50	0.8673854	60	0.8174535
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.231972	10	0.2409782	20	0.260483	40	0.2108992	50	0.239031	60	0.2319426
Butylbenzylphthalate	5	0.7540163	10	0.7862457	20	0.8246928	40	0.8176434	50	0.7199546	60	0.8287041
Caprolactam												
Carbazole	5	1.128219	10	1.02969	20	1.000536	40	0.8835432	50	0.8901069	60	0.8548234
4-Chloro-3-methylphenol	5	0.310694	10	0.2887984	20	0.2948105	40	0.2876101	50	0.2892545	60	0.2792311
4-Chloroaniline	5	0.4857113	10	0.4592316	20	0.4857785	40	0.4309516	50	0.4412442	60	0.4082374
Bis(2-chloroethoxy)methane	5	0.5100818	10	0.4912081	20	0.5153237	40	0.445233	50	0.4453259	60	0.4436365
Bis(2-chloroethyl)ether	5	1.442472	10	1.590034	20	1.374359	40	1.269574	50	1.300273	60	1.297892
2,2'-Oxybis-1-chloropropane	5	2.184818	10	2.306427	20	2.189966	40	2.011674	50	1.717134	60	1.712654
2-Chloronaphthalene	5	1.247416	10	1.208501	20	1.26931	40	1.16149	50	1.088393	60	1.064578
2-Chlorophenol	5	1.438581	10	1.288788	20	1.365938	40	1.295661	50	1.283665	60	1.204709
4-Chlorophenyl phenyl ether	5	0.5713084	10	0.574376	20	0.5688825	40	0.5386735	50	0.5253523	60	0.5281174
Chrysene	5	1.181379	10	1.170608	20	1.189425	40	1.176048	50	1.091368	60	1.142452
Dibenz(a,h)anthracene	5	0.7898291	10	0.7836814	20	0.7617359	40	0.8067768	50	0.7553903	60	0.6819198

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

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
Dibenzofuran	5	1.576125	10	1.695587	20	1.726036	40	1.527336	50	1.475582	60	1.426709
Di-n-butylphthalate	5	1.469552	10	1.493537	20	1.485016	40	1.459402	50	1.385354	60	1.243875
1,4-Dichlorobenzene	5	1.565822	10	1.580467	20	1.482342	40	1.374248	50	1.327094	60	1.312307
1,3-Dichlorobenzene	5	1.564366	10	1.550635	20	1.466796	40	1.395741	50	1.410471	60	1.324776
1,2-Dichlorobenzene	5	1.485698	10	1.514043	20	1.430022	40	1.33701	50	1.283084	60	1.19311
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.318596	10	0.3480627	20	0.326904	40	0.2954511	50	0.3200354	60	0.319605
Diethylphthalate	5	1.660709	10	1.577697	20	1.524236	40	1.261	50	1.233003	60	1.223311
2,4-Dimethylphenol	5	0.3868736	10	0.3553646	20	0.3612512	40	0.3462765	50	0.3329041	60	0.3471536
Dimethyl phthalate	5	1.371102	10	1.473182	20	1.50951	40	1.243328	50	1.313868	60	1.251818
4,6-Dinitro-2-methylphenol	5	5.478294E-02	10	6.840982E-02	20	0.1071133	40	0.1333907	50	0.1503998	60	0.1421705
2,4-Dinitrophenol	5	~~5.062163E-02~~	10	6.237037E-02	20	0.1011521	40	0.1317647	50	0.1515695	60	0.1605612
2,4-Dinitrotoluene	5	0.3090174	10	0.3793169	20	0.4185296	40	0.3974313	50	0.3875191	60	0.3787391
2,6-Dinitrotoluene	5	0.3183163	10	0.3493131	20	0.3754144	40	0.3444299	50	0.3554451	60	0.3624102
Di-n-octylphthalate	5	1.6316	10	1.635798	20	1.910787	40	1.92312	50	1.690144	60	1.92358
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.9580609	10	1.008812	20	0.8802152	40	0.8420501	50	0.8308116	60	0.7998217
Bis(2-ethylhexyl)phthalate	5	0.9781605	10	1.042781	20	1.141739	40	1.073501	50	1.024078	60	1.086512
Fluoranthene	5	1.174554	10	1.119604	20	1.158582	40	1.010021	50	1.108267	60	1.002067
Fluorene	5	1.293421	10	1.21811	20	1.266726	40	1.122978	50	1.117687	60	1.11628
2-Fluorobiphenyl	5	1.345385	10	1.322831	20	1.520308	40	1.324401	50	1.225178	60	1.232052
2-Fluorophenol	10	1.351626	20	1.413124	40	1.336365	80	1.187975	100	1.20463	120	1.147633
Hexachlorobenzene	5	0.2665323	10	0.2655703	20	0.2697611	40	0.2648784	50	0.2590678	60	0.2544472
Hexachlorobutadiene	5	0.2026878	10	0.1856802	20	0.1853857	40	0.1781549	50	0.170282	60	0.1647461
Hexachlorocyclopentadiene	5	0.2904279	10	0.3291612	20	0.3651913	40	0.3514916	50	0.367711	60	0.3489062
Hexachloroethane	5	0.6518942	10	0.6308284	20	0.5940863	40	0.5416978	50	0.5772956	60	0.5438372
Indeno(1,2,3-cd)pyrene	5	0.9892853	10	0.9494004	20	0.9327697	40	0.9464554	50	0.9040208	60	0.8189074
Isophorone	5	0.8217078	10	0.8399116	20	0.7783914	40	0.749957	50	0.7902478	60	0.746112
1-Methylnaphthalene	5	0.5974456	10	0.5823433	20	0.5405367	40	0.4803757	50	0.4934924	60	0.4820733
2-Methylnaphthalene	5	0.5430144	10	0.5513543	20	0.5312456	40	0.4988653	50	0.4906804	60	0.4548918
2-Methylphenol	5	1.286482	10	1.250346	20	1.247537	40	1.126521	50	1.096435	60	1.008644

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

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
3+4-Methylphenol	5	1.253529	10	1.307357	20	1.301847	40	1.200152	50	1.183712	60	1.087107
Naphthalene	5	1.116486	10	1.119735	20	1.067584	40	0.9710557	50	0.9156539	60	0.8994825
4-Nitroaniline	5	0.2224683	10	0.2128799	20	0.1693595	40	0.2175572	50	0.2554806	60	0.2397759
3-Nitroaniline	5	0.3255846	10	0.3423936	20	0.370489	40	0.3366752	50	0.3401997	60	0.3519287
2-Nitroaniline	5	0.2654652	10	0.3352421	20	0.3339656	40	0.3505404	50	0.3128571	60	0.3442502
Nitrobenzene	5	0.3891568	10	0.4016634	20	0.3673868	40	0.3628202	50	0.3639734	60	0.3552985
Nitrobenzene-d5	5	0.3956987	10	0.3972185	20	0.3663041	40	0.3665365	50	0.3848744	60	0.3536817
4-Nitrophenol	5	0.1497267	10	0.1860405	20	0.2060501	40	0.1954678	50	0.2163265	60	0.210757
2-Nitrophenol	5	0.2103668	10	0.2175712	20	0.2231657	40	0.2457888	50	0.2287002	60	0.2342643
N-Nitrosodimethylamine	5	0.4875362	10	0.5489131	20	0.5766275	40	0.6186587	50	0.5975275	60	0.5849924
N-Nitrosodiphenylamine	5	0.692447	10	0.7515103	20	0.7118897	40	0.6351698	50	0.6608435	60	0.6252076
N-Nitroso-di-n-propylamine	5	0.9311666	10	0.9269374	20	0.9262252	40	0.819147	50	0.8173453	60	0.7504894
Pentachlorophenol	5	0.1241727	10	0.1201355	20	0.1663006	40	0.1612227	50	0.1801354	60	0.1769821
Phenanthrene	5	1.200445	10	1.166657	20	1.130055	40	1.056359	50	1.059757	60	0.986977
Phenol	5	1.751446	10	1.879768	20	1.637272	40	1.637659	50	1.575537	60	1.559301
Phenol-d6	10	1.647681	20	1.763422	40	1.626008	80	1.603414	100	1.524433	120	1.494738
Pyrene	5	1.419325	10	1.399579	20	1.383023	40	1.359213	50	1.24653	60	1.29918
Pyridine	5	1.537536	10	1.635782	20	1.541409	40	1.602552	50	1.575985	60	1.509723
Terphenyl-d14	5	0.7926602	10	0.8057548	20	0.8474803	40	0.8784666	50	0.8111087	60	0.848248
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.2994616	10	0.3272414	20	0.3682806	40	0.3554998	50	0.3512989	60	0.3437278
2,4,6-Tribromophenol	10	0.1431756	20	0.1442165	40	0.1561332	80	0.1413181	100	0.1487108	120	0.1437723
1,2,4-Trichlorobenzene	5	0.3682245	10	0.3577617	20	0.3747519	40	0.3449513	50	0.3420562	60	0.3493295
2,4,6-Trichlorophenol	5	0.3758167	10	0.3963889	20	0.4193174	40	0.4066011	50	0.3828678	60	0.38452
2,4,5-Trichlorophenol	5	0.4069373	10	0.4358068	20	0.4686353	40	0.4421245	50	0.4433099	60	0.420189

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine					5	0.345776	10	0.3735446	20	0.3383405	40	0.4092793
Acenaphthene	80	1.018418	100	0.9095531								
Acenaphthylene	80	1.475834	100	1.517921								
Acetophenone					5	1.718495	10	1.63753	20	1.524418	40	1.571136
Aniline	80	1.838443	100	1.811652								
Anthracene	80	0.986327	100	0.9420685								
Atrazine					5	0.1907566	10	0.1974337	20	0.2066576	40	0.208239
Benzaldehyde					5	1.141413	10	1.160982	20	1.025443	40	1.064124
Benzidine					5	0.4873597	10	0.5759976	20	0.629192	40	0.6726627
Benzo(a)anthracene	80	1.085961	100	1.065421								
Benzo(a)pyrene	80	1.049837	100	1.00649								
Benzo(b)fluoranthene	80	1.072877	100	1.114459								
Benzo(g,h,i)perylene	80	0.781589	100	0.6663042								
Benzoic acid	80	0.2779468	100	0.2820542								
Benzo(k)fluoranthene	80	1.178262	100	1.066763								
Benzyl alcohol	80	0.7987832	100	0.7636324								
1,1-Biphenyl					5	1.660318	10	1.616332	20	1.415179	40	1.433678
4-Bromophenyl-phenylether	80	0.2214796	100	0.2055715								
Butylbenzylphthalate	80	0.732991	100	0.6918112								
Caprolactam					5	0.119707	10	0.1253949	20	0.1145069	40	0.1360062
Carbazole	80	0.7878224	100	0.7760328								
4-Chloro-3-methylphenol	80	0.2602546	100	0.2512146								
4-Chloroaniline	80	0.4006734	100	0.4141308								
Bis(2-chloroethoxy)methane	80	0.4141729	100	0.4082329								
Bis(2-chloroethyl)ether	80	1.290856	100	1.209098								
2,2'-Oxybis-1-chloropropane	80	1.555193	100	1.808949								
2-Chloronaphthalene	80	1.019875	100	1.06234								
2-Chlorophenol	80	1.275381	100	1.260114								
4-Chlorophenyl phenyl ether	80	0.5055696	100	0.4550214								
Chrysene	80	1.03431	100	0.996392								
Dibenz(a,h)anthracene	80	0.8216482	100	0.7302443								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran	80	1.272312	100	1.282609								
Di-n-butylphthalate	80	1.25377	100	1.212919								
1,4-Dichlorobenzene	80	1.202188	100	1.192058								
1,3-Dichlorobenzene	80	1.268259	100	1.304134								
1,2-Dichlorobenzene	80	1.152838	100	1.120647								
2,6-Dichlorophenol					5	0.3378312	10	0.327105	20	0.2967903	40	0.2951475
2,4-Dichlorophenol	80	0.3094633	100	0.3044136								
Diethylphthalate	80	1.164583	100	1.135723								
2,4-Dimethylphenol	80	0.310377	100	0.2939744								
Dimethyl phthalate	80	1.246383	100	1.163514								
4,6-Dinitro-2-methylphenol	80	0.141276	100	0.1458094								
2,4-Dinitrophenol	80	0.1730286	100	0.1784883								
2,4-Dinitrotoluene	80	0.3429866	100	0.3779481								
2,6-Dinitrotoluene	80	0.3355308	100	0.3457358								
Di-n-octylphthalate	80	1.727296	100	1.901108								
1,4-Dioxane					5	0.7076939	10	0.7115041	20	0.6327187	40	0.6201284
1,2-Diphenylhydrazine	80	0.7293861	100	0.6287272								
Bis(2-ethylhexyl)phthalate	80	0.9241547	100	0.9297745								
Fluoranthene	80	1.007233	100	1.002433								
Fluorene	80	1.079617	100	0.961522								
2-Fluorobiphenyl	80	1.237633	100	1.19141								
2-Fluorophenol	160	1.052205	200	1.104915								
Hexachlorobenzene	80	0.2593156	100	0.2389274								
Hexachlorobutadiene	80	0.1585373	100	0.1651874								
Hexachlorocyclopentadiene	80	0.3745824	100	0.3733203								
Hexachloroethane	80	0.5195182	100	0.5209373								
Indeno(1,2,3-cd)pyrene	80	0.9751703	100	0.8667418								
Isophorone	80	0.7366049	100	0.7091168								
1-Methylnaphthalene	80	0.4428706	100	0.4445212								
2-Methylnaphthalene	80	0.4483581	100	0.4288413								
2-Methylphenol	80	1.011912	100	1.054777								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3+4-Methylphenol	80	1.08938	100	1.065014								
Naphthalene	80	0.803674	100	0.8087121								
4-Nitroaniline	80	0.265351	100	0.2644746								
3-Nitroaniline	80	0.3683457	100	0.3506128								
2-Nitroaniline	80	0.3309131	100	0.3278767								
Nitrobenzene	80	0.316403	100	0.3115827								
Nitrobenzene-d5	80	0.3468868	100	0.3422753								
4-Nitrophenol	80	0.2207467	100	0.1969781								
2-Nitrophenol	80	0.2149201	100	0.2181142								
N-Nitrosodimethylamine	80	0.5484751	100	0.6183085								
N-Nitrosodiphenylamine	80	0.6238943	100	0.5782682								
N-Nitroso-di-n-propylamine	80	0.7585171	100	0.743702								
Pentachlorophenol	80	0.1807552	100	0.1820394								
Phenanthrene	80	0.9344506	100	0.9248322								
Phenol	80	1.423146	100	1.454171								
Phenol-d6	160	1.34971	200	1.445646								
Pyrene	80	1.21817	100	1.066224								
Pyridine	80	1.577055	100	1.61602								
Terphenyl-d14	80	0.7819749	100	0.7308348								
1,2,4,5-Tetrachlorobenzene					5	0.3041409	10	0.2738675	20	0.2545837	40	0.3138555
2,3,4,6-Tetrachlorophenol	80	0.317592	100	0.3289565								
2,4,6-Tribromophenol	160	0.1452231	200	0.1366756								
1,2,4-Trichlorobenzene	80	0.3106524	100	0.3076826								
2,4,6-Trichlorophenol	80	0.4245115	100	0.4173965								
2,4,5-Trichlorophenol	80	0.429527	100	0.4083834								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine	50	0.4022903	60	0.4065189	80	0.4043308	100	0.3922965				
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.546064	60	1.573002	80	1.455533	100	1.415772				
Aniline												
Anthracene												
Atrazine	50	0.2045953	60	0.2127531	80	0.205928	100	0.2134976				
Benzaldehyde	50	0.9565525	60	0.9552402	80	0.9441259	100	0.8525288				
Benzidine	50	0.6711953	60	0.6374861	80	0.6973172	100	0.6804112				
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	50	1.271071	60	1.516557	80	1.359401	100	1.268587				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1337222	60	0.1317621	80	0.1321053	100	0.1188764				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran												
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
2,6-Dichlorophenol	50	0.3247614	60	0.3152692	80	0.3067876	100	0.3061151				
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	50	0.572512	60	0.6466837	80	0.6451679	100	0.6224177				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3+4-Methylphenol												
Naphthalene												
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	50	0.3096277	60	0.285836	80	0.2829317	100	0.2756055				
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3,3'-Dichlorobenzidine	0.3840471	7.376638	14.80975	2.744989E-02			15	
Acenaphthene	1.082656	9.483861	9.821625	5.657461E-02			CCC (30)	
Acenaphthylene	1.744325	12.75083	9.605125	6.858755E-02			15	
Acetophenone	1.555244	6.168212	6.634375	7.218448E-02			15	
Aniline	1.950237	5.831973	5.807375	0.1033171			15	
Anthracene	1.056507	8.585155	11.68625	5.730172E-02			15	
Atrazine	0.2049826	3.718523	11.27987	9.895935E-02			15	
Benzaldehyde	1.012551	10.43666	5.684375	9.183361E-02			15	
Benzidine	0.6314527	11.01948	13.25575	3.711405E-02			15	
Benzo(a)anthracene	1.138713	4.414255	14.83125	3.720446E-02			15	
Benzo(a)pyrene	1.044021	4.547513	16.52988	3.873379E-02			CCC (30)	
Benzo(b)fluoranthene	1.099993	3.348838	16.14687	3.650013E-02			15	
Benzo(g,h,i)perylene	0.758931	7.956935	18.3315	6.411751E-02			15	
Benzoic acid	0.2348828	24.43774	7.4215	0.7447993	0.9967614		0.995	
Benzo(k)fluoranthene	1.214732	7.667493	16.18175	5.256876E-02			15	
Benzyl alcohol	0.8492835	5.904117	6.339625	0.134646			15	
1,1-Biphenyl	1.44264	10.16426	9.0865	7.580724E-02			15	
4-Bromophenyl-phenylether	0.2302946	7.64967	11.058	3.698206E-02			15	
Butylbenzylphthalate	0.7695074	6.808174	14.17538	0.0181131			15	
Caprolactam	0.1265101	6.344437	8.16975	0.2428858			15	
Carbazole	0.9188467	13.42596	11.88687	4.735667E-02			15	
4-Chloro-3-methylphenol	0.2827335	6.739682	8.335875	5.589678E-02			CCC (30)	
4-Chloroaniline	0.4407449	7.602189	7.752375	5.839612E-02			15	
Bis(2-chloroethoxy)methane	0.4591519	9.024322	7.3845	9.015245E-02			15	
Bis(2-chloroethyl)ether	1.34682	8.949026	5.887375	0.1010167			15	
2,2'-Oxybis-1-chloropropane	1.935852	14.19111	6.495	7.787477E-02			15	
2-Chloronaphthalene	1.140238	8.268771	9.102	5.514584E-02			15	
2-Chlorophenol	1.301605	5.44966	5.93325	0.0640218			15	
4-Chlorophenyl phenyl ether	0.5334126	7.569953	10.46213	3.392237E-02			15	
Chrysene	1.122748	6.577449	14.87787	4.224206E-02			15	
Dibenz(a,h)anthracene	0.7664032	5.859635	17.97362	4.666747E-02			15	
Dibenzofuran	1.497787	11.31125	10.03125	6.286963E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Di-n-butylphthalate	1.375428	8.7109	12.34463	0.0340847			15	
1,4-Dichlorobenzene	1.379566	10.94327	6.191375	6.203767E-02			CCC (30)	
1,3-Dichlorobenzene	1.410647	7.838891	6.106	5.463781E-02			15	
1,2-Dichlorobenzene	1.314556	11.58735	6.360125	4.155267E-02			15	
2,6-Dichlorophenol	0.3137259	4.852462	7.75425	4.420223E-02			15	
2,4-Dichlorophenol	0.3178164	4.983195	7.490125	8.883757E-02			CCC (30)	
Diethylphthalate	1.347533	15.27682	10.34412	9.254366E-02	0.9972915		0.995	
2,4-Dimethylphenol	0.3417719	8.563737	7.26575	0.1065429			15	
Dimethyl phthalate	1.321588	9.153659	9.484625	0.1434108			15	
4,6-Dinitro-2-methylphenol	0.1179191	31.66593	10.527	0.1204279	0.9973104		0.995	
2,4-Dinitrophenol	0.1369907	30.78159	9.873571	9.653076E-02	0.9960785		SPCC (0.05)	
2,4-Dinitrotoluene	0.373936	9.021128	10.03375	9.903814E-02			15	
2,6-Dinitrotoluene	0.3483244	4.936864	9.545375	0.1119241			15	
Di-n-octylphthalate	1.792929	7.459237	15.71263	0.024866			CCC (30)	
1,4-Dioxane	0.6448533	7.152144	3.019375	0.1113753			15	
1,2-Diphenylhydrazine	0.8347356	14.48987	10.65375	4.850528E-02			15	
Bis(2-ethylhexyl)phthalate	1.025088	7.512426	14.90587	0.0193314			15	
Fluoranthene	1.072845	6.98906	13.07425	4.253064E-02			CCC (30)	
Fluorene	1.147043	9.444569	10.45175	5.284617E-02			15	
2-Fluorobiphenyl	1.2999	8.100212	8.967125	3.987571E-02			15	
2-Fluorophenol	1.224809	10.50463	4.742625	0.1316694			15	
Hexachlorobenzene	0.2598125	3.761925	11.1185	4.707497E-02			15	
Hexachlorobutadiene	0.1763327	8.243307	7.8355	4.165048E-02			CCC (30)	
Hexachlorocyclopentadiene	0.350099	8.135736	8.706625	3.605388E-02			SPCC (0.05)	
Hexachloroethane	0.5725119	8.716146	6.7485	3.321397E-02			15	
Indeno(1,2,3-cd)pyrene	0.9228439	6.186788	17.94762	5.505283E-02			15	
Isophorone	0.7715062	5.758819	7.1245	0.1880514			15	
1-Methylnaphthalene	0.5079573	11.64757	8.633	4.208229E-02			15	
2-Methylnaphthalene	0.4934064	9.372333	8.513125	5.344917E-02			15	
2-Methylphenol	1.135332	9.877222	6.461875	0.1007337			15	
3+4-Methylphenol	1.186012	8.228414	6.647625	0.1700502			15	
Naphthalene	0.9627979	13.28902	7.679625	6.733623E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4-Nitroaniline	0.2309184	14.04035	10.48912	0.1289535			15	
3-Nitroaniline	0.3482787	4.427347	9.746125	0.1226337			15	
2-Nitroaniline	0.3251388	8.173008	9.237625	6.849578E-02			15	
Nitrobenzene	0.3585356	8.765722	6.833875	0.1095103			15	
Nitrobenzene-d5	0.3691845	5.802246	6.809875	9.945623E-02			15	
4-Nitrophenol	0.1977617	11.40524	9.955125	0.1174457			SPCC (0.05)	
2-Nitrophenol	0.2241114	5.190145	7.205375	6.189121E-02			CCC (30)	
N-Nitrosodimethylamine	0.5726299	7.635147	3.346125	0.1829083			15	
N-Nitrosodiphenylamine	0.6599038	8.482011	10.61075	6.517892E-02			CCC (30)	
N-Nitroso-di-n-propylamine	0.8341912	9.917143	6.653625	0.1894353			SPCC (0.05)	
Pentachlorophenol	0.1614679	15.71491	11.36463	3.521819E-02	0.9986717		CCC (30)	
Phenanthrene	1.057442	9.810503	11.62413	4.673016E-02			15	
Phenol	1.614787	9.276235	5.7815	0.2208323			CCC (30)	
Phenol-d6	1.556882	8.341379	5.768125	0.2252886			15	
Pyrene	1.298906	9.144153	13.35137	4.721813E-02			15	
Pyridine	1.574508	2.729928	3.381875	0.3664935			15	
Terphenyl-d14	0.812066	5.680172	13.56038	3.188842E-02			15	
1,2,4,5-Tetrachlorobenzene	0.2875561	7.072892	8.715	4.094783E-02			15	
2,3,4,6-Tetrachlorophenol	0.3365073	6.658431	10.18512	5.841319E-02			15	
2,4,6-Tribromophenol	0.1449031	3.921225	10.74725	8.448053E-02			15	
1,2,4-Trichlorobenzene	0.3444263	7.098695	7.588375	0.0361532			15	
2,4,6-Trichlorophenol	0.4009275	4.66083	8.857625	4.361742E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4318641	4.727981	8.89625	5.449523E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	48.86	1.082656	1.057895		-2.3	20
Acenaphthylene	A	50.00	53.91	1.744325	1.88061		7.8	20
Anthracene	A	50.00	54.49	1.056507	1.151439		9.0	20
Benzo(a)anthracene	A	50.00	48.79	1.138713	1.111173		-2.4	20
Benzo(a)pyrene	A	50.00	51.01	1.044021	1.065141		2.0	20
Benzo(b)fluoranthene	A	50.00	53.46	1.099993	1.176117		6.9	20
Benzo(g,h,i)perylene	A	50.00	48.22	0.758931	0.7319486		-3.6	20
Benzoic acid	L	50.00	49.49	0.2348828	0.2661538		-1.0	20
Benzo(k)fluoranthene	A	50.00	51.57	1.214732	1.252919		3.1	20
4-Bromophenyl-phenylether	A	50.00	50.34	0.2302946	0.2318677		0.7	20
Butylbenzylphthalate	A	50.00	48.50	0.7695074	0.7463976		-3.0	20
Carbazole	A	50.00	49.83	0.9188467	0.9156435		-0.3	20
4-Chloro-3-methylphenol	A	50.00	48.88	0.2827335	0.2763814		-2.2	20
4-Chloroaniline	A	50.00	48.88	0.4407449	0.4308957		-2.2	20
Bis(2-chloroethoxy)methane	A	50.00	48.87	0.4591519	0.4488008		-2.3	20
Bis(2-chloroethyl)ether	A	50.00	51.95	1.34682	1.39927		3.9	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.78	1.935852	2.04349		5.6	20
2-Chloronaphthalene	A	50.00	54.43	1.140238	1.241253		8.9	20
2-Chlorophenol	A	50.00	55.87	1.301605	1.45441		11.7	20
4-Chlorophenyl phenyl ether	A	50.00	53.91	0.5334126	0.5751643		7.8	20
Chrysene	A	50.00	49.81	1.122748	1.118473		-0.4	20
Dibenz(a,h)anthracene	A	50.00	51.54	0.7664032	0.7899782		3.1	20
Dibenzofuran	A	50.00	53.13	1.497787	1.591559		6.3	20
Di-n-butylphthalate	A	50.00	53.06	1.375428	1.459543		6.1	20
2,4-Dichlorophenol	A	50.00	50.78	0.3178164	0.3228019		1.6	20
2,4-Dimethylphenol	A	50.00	53.12	0.3417719	0.363117		6.2	20
Dimethyl phthalate	A	50.00	46.62	1.321588	1.232204		-6.8	20
4,6-Dinitro-2-methylphenol	L	50.00	57.23	0.1179191	0.1614366		14.5	20
2,4-Dinitrotoluene	A	50.00	56.52	0.373936	0.4227034		13.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,6-Dinitrotoluene	A	50.00	56.02	0.3483244	0.3902734		12.0	20
Di-n-octylphthalate	A	50.00	54.25	1.792929	1.945241		8.5	20
1,2-Diphenylhydrazine	A	50.00	55.94	0.8347356	0.9339785		11.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	48.68	1.025088	0.9980238		-2.6	20
Fluoranthene	A	50.00	53.77	1.072845	1.153832		7.5	20
Fluorene	A	50.00	54.89	1.147043	1.25925		9.8	20
Hexachlorobenzene	A	50.00	52.99	0.2598125	0.2753324		6.0	20
Hexachlorobutadiene	A	50.00	50.82	0.1763327	0.1792089		1.6	20
Hexachlorocyclopentadiene	A	50.00	53.52	0.350099	0.3747613	0.05	7.0	20
Hexachloroethane	A	50.00	51.75	0.5725119	0.5925988		3.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	50.45	0.9228439	0.9311681		0.9	20
Isophorone	A	50.00	44.69	0.7715062	0.6895249		-10.6	20
1-Methylnaphthalene	A	50.00	47.14	0.5079573	0.4789479		-5.7	20
2-Methylnaphthalene	A	50.00	47.28	0.4934064	0.4665976		-5.4	20
2-Methylphenol	A	50.00	55.42	1.135332	1.258309		10.8	20
3+4-Methylphenol	A	50.00	48.86	1.186012	1.158893		-2.3	20
3-Nitroaniline	A	50.00	56.90	0.3482787	0.3963161		13.8	20
2-Nitroaniline	A	50.00	53.24	0.3251388	0.3462363		6.5	20
Nitrobenzene	A	50.00	45.58	0.3585356	0.3268608		-8.8	20
4-Nitrophenol	A	50.00	55.39	0.1977617	0.2190963	0.05	10.8	20
2-Nitrophenol	A	50.00	54.79	0.2241114	0.2455745		9.6	20
N-Nitrosodiphenylamine	A	50.00	56.39	0.6599038	0.7442938		12.8	20
N-Nitroso-di-n-propylamine	A	50.00	49.68	0.8341912	0.8288013	0.05	-0.6	20
Phenanthrene	A	50.00	56.16	1.057442	1.187789		12.3	20
Phenol	A	50.00	56.47	1.614787	1.823722		12.9	20
Pyrene	A	50.00	48.44	1.298906	1.258473		-3.1	20
2,4,6-Trichlorophenol	A	50.00	54.97	0.4009275	0.440817		9.9	20
2,4,5-Trichlorophenol	A	50.00	53.87	0.4318641	0.4652694		7.7	20
2-Fluorobiphenyl	A	50.00	56.18	1.2999	1.460568		12.4	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2-Fluorophenol	A	100.0	113.8	1.224809	1.394017		13.8	20
Nitrobenzene-d5	A	50.00	51.69	0.3691845	0.3816462		3.4	20
Terphenyl-d14	A	50.00	45.39	0.812066	0.7371136		-9.2	20
2,4,6-Tribromophenol	A	100.0	118.8	0.1449031	0.1721949		18.8	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV2.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV2	Injection Time:	23:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	51.60	0.3840471	0.3963298		3.2	20
Acetophenone	A	50.00	51.76	1.555244	1.609954		3.5	20
Atrazine	A	50.00	52.28	0.2049826	0.214327		4.6	20
Benzaldehyde	A	50.00	43.46	1.012551	0.8801513		-13.1	20
Benzidine	A	50.00	50.30	0.6314527	0.6352446		0.6	20
1,1-Biphenyl	A	50.00	55.15	1.44264	1.591358		10.3	20
Caprolactam	A	50.00	55.66	0.1265101	0.1408405		11.3	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV3.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/27/11
Lab Sample ID:	1B03208-ICV3	Injection Time:	00:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diethylphthalate	L	50.00	48.25	1.347533	1.174754		-3.5	20
2,4-Dinitrophenol	L	50.00	57.52	0.1369907	0.1861539	0.05	15.0	20
Pentachlorophenol	L	50.00	58.37	0.1614679	0.2074009		16.7	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV4.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/28/11
Lab Sample ID:	1B03208-ICV4	Injection Time:	10:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
4-Nitroaniline	A	50.00	42.68	0.2309184	0.1971107		-14.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B04714	Injection Date:	02/15/11
Lab Sample ID:	1B04714-CCV1	Injection Time:	11:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	49.24	0.3840471	0.3782314		-1.5	20
Acenaphthene	A	50.00	49.72	1.082656	1.076589		-0.6	20
Acenaphthylene	A	50.00	53.02	1.744325	1.849695		6.0	20
Acetophenone	A	50.00	47.68	1.555244	1.48298		-4.6	20
Anthracene	A	50.00	50.01	1.056507	1.056783		0.03	20
Atrazine	A	50.00	40.89	0.2049826	0.16762		-18.2	20
Benzaldehyde	A	50.00	29.60	1.012551	0.5995251		-40.8	20 *
Benzidine	A	50.00	22.77	0.6314527	0.2875714		-54.5	20 *
Benzo(a)anthracene	A	50.00	49.46	1.138713	1.126403		-1.1	20
Benzo(a)pyrene	A	50.00	50.08	1.044021	1.045722		0.2	20
Benzo(b)fluoranthene	A	50.00	54.13	1.099993	1.190954		8.3	20
Benzo(g,h,i)perylene	A	50.00	52.04	0.758931	0.7898879		4.1	20
Benzoic acid	L	50.00	56.40	0.2348828	0.3069759		12.8	20
Benzo(k)fluoranthene	A	50.00	51.61	1.214732	1.253844		3.2	20
1,1-Biphenyl	A	50.00	47.70	1.44264	1.37617		-4.6	20
4-Bromophenyl-phenylether	A	50.00	48.50	0.2302946	0.2233699		-3.0	20
Butylbenzylphthalate	A	50.00	50.06	0.7695074	0.7704444		0.1	20
Caprolactam	A	50.00	50.88	0.1265101	0.1287439		1.8	20
Carbazole	A	50.00	52.81	0.9188467	0.9704088		5.6	20
4-Chloro-3-methylphenol	A	50.00	55.13	0.2827335	0.3117197		10.3	20
4-Chloroaniline	A	50.00	46.95	0.4407449	0.4138776		-6.1	20
Bis(2-chloroethoxy)methane	A	50.00	51.48	0.4591519	0.472702		3.0	20
Bis(2-chloroethyl)ether	A	50.00	51.74	1.34682	1.393695		3.5	20
2,2'-Oxybis-1-chloropropane	A	50.00	42.46	1.935852	1.644027		-15.1	20
2-Chloronaphthalene	A	50.00	58.84	1.140238	1.341774		17.7	20
2-Chlorophenol	A	50.00	54.96	1.301605	1.430684		9.9	20
4-Chlorophenyl phenyl ether	A	50.00	45.13	0.5334126	0.4814075		-9.7	20
Chrysene	A	50.00	42.69	1.122748	0.9585834		-14.6	20
Dibenz(a,h)anthracene	A	50.00	55.13	0.7664032	0.8449842		10.3	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B04714	Injection Date:	02/15/11
Lab Sample ID:	1B04714-CCV1	Injection Time:	11:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dibenzofuran	A	50.00	44.65	1.497787	1.337464		-10.7	20
Di-n-butylphthalate	A	50.00	53.32	1.375428	1.466819		6.6	20
2,4-Dichlorophenol	A	50.00	56.36	0.3178164	0.3582686		12.7	20
Diethylphthalate	L	50.00	57.74	1.347533	1.383416		15.5	20
2,4-Dimethylphenol	A	50.00	52.96	0.3417719	0.3620293		5.9	20
Dimethyl phthalate	A	50.00	52.08	1.321588	1.376648		4.2	20
4,6-Dinitro-2-methylphenol	L	50.00	60.18	0.1179191	0.1704704		20.4	20 *
2,4-Dinitrophenol	L	50.00	62.72	0.1369907	0.2064835	0.05	25.4	20 *
2,4-Dinitrotoluene	A	50.00	51.25	0.373936	0.3832829		2.5	20
2,6-Dinitrotoluene	A	50.00	52.83	0.3483244	0.3680139		5.7	20
Di-n-octylphthalate	A	50.00	59.45	1.792929	2.131891		18.9	20
1,2-Diphenylhydrazine	A	50.00	47.21	0.8347356	0.7882167		-5.6	20
Bis(2-ethylhexyl)phthalate	A	50.00	40.95	1.025088	0.8396445		-18.1	20
Fluoranthene	A	50.00	46.63	1.072845	1.000497		-6.7	20
Fluorene	A	50.00	46.22	1.147043	1.06031		-7.6	20
Hexachlorobenzene	A	50.00	46.74	0.2598125	0.2428556		-6.5	20
Hexachlorobutadiene	A	50.00	48.97	0.1763327	0.1727059		-2.1	20
Hexachlorocyclopentadiene	A	50.00	42.46	0.350099	0.2972804	0.05	-15.1	20
Hexachloroethane	A	50.00	48.71	0.5725119	0.5577143		-2.6	20
Indeno(1,2,3-cd)pyrene	A	50.00	55.01	0.9228439	1.015268		10.0	20
Isophorone	A	50.00	49.27	0.7715062	0.7602834		-1.5	20
1-Methylnaphthalene	A	50.00	53.46	0.5079573	0.543117		6.9	20
2-Methylnaphthalene	A	50.00	51.77	0.4934064	0.5108882		3.5	20
2-Methylphenol	A	50.00	50.54	1.135332	1.14749		1.1	20
3+4-Methylphenol	A	50.00	44.36	1.186012	1.052297		-11.3	20
4-Nitroaniline	A	50.00	68.02	0.2309184	0.3141572		36.0	20 *
3-Nitroaniline	A	50.00	53.15	0.3482787	0.3702158		6.3	20
2-Nitroaniline	A	50.00	59.45	0.3251388	0.3865918		18.9	20
Nitrobenzene	A	50.00	49.08	0.3585356	0.3519036		-1.8	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B04714	Injection Date:	02/15/11
Lab Sample ID:	1B04714-CCV1	Injection Time:	11:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	46.80	0.1977617	0.1851206	0.05	-6.4	20
2-Nitrophenol	A	50.00	55.22	0.2241114	0.2475087		10.4	20
N-Nitrosodiphenylamine	A	50.00	45.60	0.6599038	0.6017739		-8.8	20
N-Nitroso-di-n-propylamine	A	50.00	41.59	0.8341912	0.6938074	0.05	-16.8	20
Pentachlorophenol	L	50.00	52.96	0.1614679	0.1871803		5.9	20
Phenanthrene	A	50.00	51.00	1.057442	1.078628		2.0	20
Phenol	A	50.00	50.46	1.614787	1.629765		0.9	20
Pyrene	A	50.00	60.18	1.298906	1.563362		20.4	20 *
2,4,6-Trichlorophenol	A	50.00	53.81	0.4009275	0.4315002		7.6	20
2,4,5-Trichlorophenol	A	50.00	53.46	0.4318641	0.4617106		6.9	20
2-Fluorobiphenyl	A	50.00	51.24	1.2999	1.332196		2.5	20
2-Fluorophenol	A	100.0	99.79	1.224809	1.222194		-0.2	20
Nitrobenzene-d5	A	50.00	48.22	0.3691845	0.3560615		-3.6	20
Phenol-d6	A	100.0	98.21	1.556882	1.529062		-1.8	20
Terphenyl-d14	A	50.00	54.66	0.812066	0.8877527		9.3	20
2,4,6-Tribromophenol	A	100.0	101.5	0.1449031	0.147113		1.5	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_003

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

Matrix: Laboratory ID: 1B11003-BLK1 File ID: B11003B1.D

Sampled: Prepared: Analyzed: 02/15/11 18:37

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	Y, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	Q, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	X, U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B11003-BLK1 File ID: B11003B1.D

Sampled: Prepared: Analyzed: 02/15/11 18:37

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	Q, U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	Q, U
67-72-1	Hexachloroethane		1.25	2.50	5.00	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
65794-96-9	3+4-Methylphenol		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	Q, X, U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	X, U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	28.37	56.7	50 - 110	
2-Fluorophenol	100.0	21.03	21.0	20 - 110	
Nitrobenzene-d5	50.00	28.73	57.5	40 - 110	
Phenol-d6	100.0	13.02	13.0	10 - 110	
Terphenyl-d14	50.00	54.42	109	50 - 135	
2,4,6-Tribromophenol	100.0	77.27	77.3	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: kirtland_003

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

Matrix: | Laboratory ID: 1B11003-BS1 | File ID: B11003L1.D

Sampled: | Prepared: | Analyzed: 02/15/11 19:06

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1B11003 | Sequence: 1B04714 | Calibration: 1032006 | Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	49.89	1.25	2.50	5.00	
83-32-9	Acenaphthene	41.86	1.25	2.50	5.00	
208-96-8	Acenaphthylene	39.65	1.25	2.50	5.00	
98-86-2	Acetophenone	41.94	1.25	2.50	5.00	
120-12-7	Anthracene	46.11	1.25	2.50	5.00	
1912-24-9	Atrazine	53.65	1.25	2.50	5.00	
100-52-7	Benzaldehyde	41.41	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	Y, U
56-55-3	Benzo(a)anthracene	50.29	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	47.31	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	51.28	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	56.86	1.25	2.50	5.00	
65-85-0	Benzoic acid	12.78	12.5	25.0	50.0	J
207-08-9	Benzo(k)fluoranthene	52.28	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	42.77	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	49.48	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	65.03	1.25	2.50	5.00	
105-60-2	Caprolactam	9.009	1.25	2.50	5.00	
86-74-8	Carbazole	53.00	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	46.61	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	36.01	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	47.41	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	41.57	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	37.33	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	32.91	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	34.33	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	44.64	1.25	2.50	5.00	
218-01-9	Chrysene	51.71	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	52.01	1.25	2.50	5.00	
132-64-9	Dibenzofuran	41.56	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	49.46	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	44.09	1.25	2.50	5.00	
84-66-2	Diethylphthalate	56.75	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	38.59	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	45.56	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	60.11	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	58.51	12.5	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	53.64	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	50.43	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	60.91	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B11003-BS1	File ID:	B11003L1.D
Sampled:		Prepared:		Analyzed:	02/15/11 19:06
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1B11003	Sequence:	1B04714	Calibration:	1032006	Instrument:	MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	40.54	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	55.73	1.25	2.50	5.00	
206-44-0	Fluoranthene	41.49	1.25	2.50	5.00	
86-73-7	Fluorene	42.20	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	50.62	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	9.705	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	8.290	1.25	2.50	5.00	
67-72-1	Hexachloroethane	8.705	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	52.08	1.25	2.50	5.00	
78-59-1	Isophorone	39.09	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	35.55	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	32.59	1.25	2.50	5.00	
95-48-7	2-Methylphenol	30.21	1.25	2.50	5.00	
65794-96-9	3+4-Methylphenol	25.97	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	67.28	5.00	10.0	20.0	X
99-09-2	3-Nitroaniline	46.20	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	47.85	5.00	10.0	20.0	
98-95-3	Nitrobenzene	38.57	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	14.74	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	45.96	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	36.70	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	41.98	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	51.80	5.00	10.0	20.0	
85-01-8	Phenanthrene	48.00	1.25	2.50	5.00	
108-95-2	Phenol	14.13	1.25	2.50	5.00	
129-00-0	Pyrene	61.96	1.25	2.50	5.00	X
88-06-2	2,4,6-Trichlorophenol	47.36	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	48.18	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	40.62	81.2	50 - 110	
2-Fluorophenol	100.0	37.69	37.7	20 - 110	
Nitrobenzene-d5	50.00	40.90	81.8	40 - 110	
Phenol-d6	100.0	23.04	23.0	10 - 110	
Terphenyl-d14	50.00	52.43	105	50 - 135	
2,4,6-Tribromophenol	100.0	98.01	98.0	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B11003-BSD1 File ID: B11003L2.D

Sampled: Prepared: Analyzed: 02/15/11 19:34

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	46.37	1.25	2.50	5.00	
83-32-9	Acenaphthene	38.67	1.25	2.50	5.00	
208-96-8	Acenaphthylene	39.83	1.25	2.50	5.00	
98-86-2	Acetophenone	37.69	1.25	2.50	5.00	
120-12-7	Anthracene	46.27	1.25	2.50	5.00	
1912-24-9	Atrazine	54.38	1.25	2.50	5.00	
100-52-7	Benzaldehyde	37.64	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	Y, U
56-55-3	Benzo(a)anthracene	47.25	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	43.11	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	50.87	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	45.08	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	48.11	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	40.48	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	49.93	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	59.44	1.25	2.50	5.00	
105-60-2	Caprolactam	8.537	1.25	2.50	5.00	
86-74-8	Carbazole	54.15	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	37.80	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	34.64	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	44.25	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	35.97	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	37.72	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	34.55	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	29.04	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	46.51	1.25	2.50	5.00	
218-01-9	Chrysene	49.14	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	49.60	1.25	2.50	5.00	
132-64-9	Dibenzofuran	41.59	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	48.65	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	39.04	1.25	2.50	5.00	
84-66-2	Diethylphthalate	52.06	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	34.24	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	46.39	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	58.52	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	52.03	12.5	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	51.51	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	46.86	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	55.85	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Matrix: Laboratory ID: 1B11003-BSD1 File ID: B11003L2.D

Sampled: Prepared: Analyzed: 02/15/11 19:34

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	44.48	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	56.51	1.25	2.50	5.00	
206-44-0	Fluoranthene	44.27	1.25	2.50	5.00	
86-73-7	Fluorene	44.76	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	50.56	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	14.03	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	13.73	1.25	2.50	5.00	
67-72-1	Hexachloroethane	10.35	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	49.99	1.25	2.50	5.00	
78-59-1	Isophorone	38.12	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	37.20	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	38.15	1.25	2.50	5.00	
95-48-7	2-Methylphenol	25.61	1.25	2.50	5.00	
65794-96-9	3+4-Methylphenol	20.42	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	64.27	5.00	10.0	20.0	X
99-09-2	3-Nitroaniline	41.21	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	40.18	5.00	10.0	20.0	
98-95-3	Nitrobenzene	38.91	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	13.69	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	41.25	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	37.19	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	37.13	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	52.02	5.00	10.0	20.0	
85-01-8	Phenanthrene	46.04	1.25	2.50	5.00	
108-95-2	Phenol	12.49	1.25	2.50	5.00	
129-00-0	Pyrene	60.93	1.25	2.50	5.00	X
88-06-2	2,4,6-Trichlorophenol	40.90	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	41.12	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	38.39	76.8	50 - 110	
2-Fluorophenol	100.0	28.45	28.5	20 - 110	
Nitrobenzene-d5	50.00	40.22	80.4	40 - 110	
Phenol-d6	100.0	19.87	19.9	10 - 110	
Terphenyl-d14	50.00	54.96	110	50 - 135	
2,4,6-Tribromophenol	100.0	90.45	90.5	40 - 125	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

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
GW0033	02/04/11 12:55	02/08/11 08:45	02/11/11 13:15	7.01	7.00	02/15/11 20:31	4.30	40.00	

Data for MODSW8015B (GRO) Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04207	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04207-CCV1	003F0301.D	02/10/11 16:17
Calibration Check	1B04207-CCV2	014F1401.D	02/10/11 22:36
Blank	1B10008-BLK1	015F1501.D	02/10/11 23:10
LCS	1B10008-BS1	016F1601.D	02/10/11 23:44
LCS Dup	1B10008-BSD1	017F1701.D	02/11/11 00:18
GW0014	1102062-01	018F1801.D	02/11/11 00:53
GW0028	1102062-03	019F1901.D	02/11/11 01:27
GW0029	1102062-06	020F2001.D	02/11/11 02:01
GW0033	1102063-01	021F2101.D	02/11/11 02:35
GW0025	1102076-01	022F2201.D	02/11/11 03:08
GW0027	1102076-03	023F2301.D	02/11/11 03:42
GW8001-RB	1102076-06	024F2401.D	02/11/11 04:16
Calibration Check	1B04207-CCV3	025F2501.D	02/11/11 04:50

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04616	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04616-CCV1	003F0301.D	02/14/11 17:05
Blank	1B14007-BLK1	004F0401.D	02/14/11 17:41
LCS	1B14007-BS1	005F0501.D	02/14/11 18:16
LCS Dup	1B14007-BSD1	006F0601.D	02/14/11 18:50
GW0023	1102088-01	007F0701.D	02/14/11 19:25
GW0026	1102088-03	008F0801.D	02/14/11 20:00
GW0026	1B14007-MS1	009F0901.D	02/14/11 20:34
GW0026	1B14007-MSD1	010F1001.D	02/14/11 21:08
GW0024	1102097-01	011F1101.D	02/14/11 21:42
GW0030	1102097-02	012F1201.D	02/14/11 22:17
Calibration Check	1B04616-CCV2	016F1601.D	02/15/11 00:38

ANALYSIS DATA SHEET

GW0014

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-01	File ID:	018F1801.D
Sampled:	02/07/11 11:15	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 00:53
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B10008 Sequence: 1B04207 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

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

ANALYSIS DATA SHEET

GW0028

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-03	File ID:	019F1901.D
Sampled:	02/07/11 15:16	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 01:27
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B10008 Sequence: 1B04207 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05491	110	50 - 150	

ANALYSIS DATA SHEET

GW0029

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-06	File ID:	020F2001.D
Sampled:	02/07/11 15:16	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 02:01
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B10008 Sequence: 1B04207 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05473	109	50 - 150	

ANALYSIS DATA SHEET

GW0033

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-01	File ID:	021F2101.D
Sampled:	02/04/11 12:55	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 02:35
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B10008 Sequence: 1B04207 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05616	112	50 - 150	

ANALYSIS DATA SHEET

GW0025

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-01	File ID:	022F2201.D
Sampled:	02/08/11 12:04	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 03:08
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B10008 Sequence: 1B04207 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05366	107	50 - 150	

ANALYSIS DATA SHEET

GW0027

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-03	File ID:	023F2301.D
Sampled:	02/08/11 16:08	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 03:42
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B10008 Sequence: 1B04207 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05517	110	50 - 150	

ANALYSIS DATA SHEET

GW8001-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-06	File ID:	024F2401.D
Sampled:	02/08/11 08:45	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 04:16
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B10008 Sequence: 1B04207 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05433	109	50 - 150	

ANALYSIS DATA SHEET

GW0023

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-01	File ID:	007F0701.D
Sampled:	02/10/11 14:48	Prepared:	02/14/11 09:56	Analyzed:	02/14/11 19:25
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B14007 Sequence: 1B04616 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.333	0.0500		0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05530	111	50 - 150	

ANALYSIS DATA SHEET

GW0026

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-03	File ID:	008F0801.D
Sampled:	02/10/11 10:35	Prepared:	02/14/11 09:56	Analyzed:	02/14/11 20:00
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B14007 Sequence: 1B04616 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.0976	0.0500		0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05225	104	50 - 150	

ANALYSIS DATA SHEET

GW0024

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-01	File ID:	011F1101.D
Sampled:	02/09/11 11:48	Prepared:	02/14/11 09:56	Analyzed:	02/14/11 21:42
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B14007 Sequence: 1B04616 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.149	0.0500		0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05357	107	50 - 150	

ANALYSIS DATA SHEET

GW0030

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-02	File ID:	012F1201.D
Sampled:	02/09/11 14:52	Prepared:	02/14/11 09:56	Analyzed:	02/14/11 22:17
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1B14007 Sequence: 1B04616 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.0768	0.0500		0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05363	107	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B10008	Laboratory ID:	1B10008-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	0.5940	119	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5912	118	0.483	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B14007	Laboratory ID:	1B14007-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	0.5769	115	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	0.6044	121	4.65	50	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B14007

% Solids:

Source Sample Name: **1102088-03**

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	0.09756	0.6390	108		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	0.6672	114	4.32		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B10008 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/10/11 14:47	5.00	5.00
GW0028	1102062-03	02/10/11 14:47	5.00	5.00
GW0029	1102062-06	02/10/11 14:47	5.00	5.00
GW0033	1102063-01	02/10/11 14:47	5.00	5.00
GW0025	1102076-01	02/10/11 14:47	5.00	5.00
GW0027	1102076-03	02/10/11 14:47	5.00	5.00
GW8001-RB	1102076-06	02/10/11 14:47	5.00	5.00
Blank	1B10008-BLK1	02/10/11 14:47	5.00	5.00
LCS	1B10008-BS1	02/10/11 14:47	5.00	5.00
LCS Dup	1B10008-BSD1	02/10/11 14:47	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B14007 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0023	1102088-01	02/14/11 09:56	5.00	5.00
GW0026	1102088-03	02/14/11 09:56	5.00	5.00
GW0024	1102097-01	02/14/11 09:56	5.00	5.00
GW0030	1102097-02	02/14/11 09:56	5.00	5.00
Blank	1B14007-BLK1	02/14/11 09:56	5.00	5.00
LCS	1B14007-BS1	02/14/11 09:56	5.00	5.00
LCS Dup	1B14007-BSD1	02/14/11 09:56	5.00	5.00
GW0026	1B14007-MS1	02/14/11 09:56	5.00	5.00
GW0026	1B14007-MSD1	02/14/11 09:56	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
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_003
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_003
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_003
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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	003F0301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04207	Injection Date:	02/10/11
Lab Sample ID:	1B04207-CCV1	Injection Time:	16:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5583	2904701	3243456		11.7	20
Bromofluorobenzene	A	0.05000	0.05544	1657682	1837920		10.9	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	014F1401.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04207	Injection Date:	02/10/11
Lab Sample ID:	1B04207-CCV2	Injection Time:	22:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5546	2904701	3221890		10.9	20
Bromofluorobenzene	A	0.05000	0.05689	1657682	1886120		13.8	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	025F2501.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04207	Injection Date:	02/11/11
Lab Sample ID:	1B04207-CCV3	Injection Time:	04:50

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5524	2904701	3208958		10.5	20
Bromofluorobenzene	A	0.05000	0.05620	1657682	1863160		12.4	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	003F0301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04616	Injection Date:	02/14/11
Lab Sample ID:	1B04616-CCV1	Injection Time:	17:05

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5372	2904701	3121004		7.4	20
Bromofluorobenzene	A	0.05000	0.05703	1657682	1890700		14.1	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	016F1601.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04616	Injection Date:	02/15/11
Lab Sample ID:	1B04616-CCV2	Injection Time:	00:38

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5882	2904701	3417174		17.6	20
Bromofluorobenzene	A	0.05000	0.05643	1657682	1871000		12.9	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04207	Instrument:	GL-GCVOA2
		Calibration:	1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04207-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 02/10/11 16:17		
Bromofluorobenzene	0.05000	111	80 - 120	19.556	19.556	0.0000	+/-0.210	
Calibration Check (1B04207-CCV2) ug/mL				Lab File ID: 014F1401.D		Analyzed: 02/10/11 22:36		
Bromofluorobenzene	0.05000	114	80 - 120	19.57	19.556	0.0140	+/-0.210	
Blank (1B10008-BLK1) mg/L				Lab File ID: 015F1501.D		Analyzed: 02/10/11 23:10		
Bromofluorobenzene	0.05000	112	50 - 150	19.57	19.556	0.0140	+/-0.210	
LCS (1B10008-BS1) mg/L				Lab File ID: 016F1601.D		Analyzed: 02/10/11 23:44		
Bromofluorobenzene	0.05000	113	50 - 150	19.573	19.556	0.0170	+/-0.210	
LCS Dup (1B10008-BSD1) mg/L				Lab File ID: 017F1701.D		Analyzed: 02/11/11 00:18		
Bromofluorobenzene	0.05000	114	50 - 150	19.573	19.556	0.0170	+/-0.210	
GW0014 (1102062-01) mg/L				Lab File ID: 018F1801.D		Analyzed: 02/11/11 00:53		
Bromofluorobenzene	0.05000	109	50 - 150	19.576	19.556	0.0200	+/-0.210	
GW0028 (1102062-03) mg/L				Lab File ID: 019F1901.D		Analyzed: 02/11/11 01:27		
Bromofluorobenzene	0.05000	110	50 - 150	19.576	19.556	0.0200	+/-0.210	
GW0029 (1102062-06) mg/L				Lab File ID: 020F2001.D		Analyzed: 02/11/11 02:01		
Bromofluorobenzene	0.05000	109	50 - 150	19.58	19.556	0.0240	+/-0.210	
GW0033 (1102063-01) mg/L				Lab File ID: 021F2101.D		Analyzed: 02/11/11 02:35		
Bromofluorobenzene	0.05000	112	50 - 150	19.58	19.556	0.0240	+/-0.210	
GW0025 (1102076-01) mg/L				Lab File ID: 022F2201.D		Analyzed: 02/11/11 03:08		
Bromofluorobenzene	0.05000	107	50 - 150	19.583	19.556	0.0270	+/-0.210	
GW0027 (1102076-03) mg/L				Lab File ID: 023F2301.D		Analyzed: 02/11/11 03:42		
Bromofluorobenzene	0.05000	110	50 - 150	19.583	19.556	0.0270	+/-0.210	
GW8001-RB (1102076-06) mg/L				Lab File ID: 024F2401.D		Analyzed: 02/11/11 04:16		
Bromofluorobenzene	0.05000	109	50 - 150	19.583	19.556	0.0270	+/-0.210	
Calibration Check (1B04207-CCV3) ug/mL				Lab File ID: 025F2501.D		Analyzed: 02/11/11 04:50		
Bromofluorobenzene	0.05000	112	80 - 120	19.58	19.556	0.0240	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04616	Instrument:	GL-GCVOA2
		Calibration:	1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04616-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 02/14/11 17:05		
Bromofluorobenzene	0.05000	114	80 - 120	19.55	19.55	0.0000	+/-0.210	
Blank (1B14007-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 02/14/11 17:41		
Bromofluorobenzene	0.05000	109	50 - 150	19.553	19.55	0.0030	+/-0.210	
LCS (1B14007-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 02/14/11 18:16		
Bromofluorobenzene	0.05000	112	50 - 150	19.556	19.55	0.0060	+/-0.210	
LCS Dup (1B14007-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 02/14/11 18:50		
Bromofluorobenzene	0.05000	113	50 - 150	19.56	19.55	0.0100	+/-0.210	
GW0023 (1102088-01) mg/L				Lab File ID: 007F0701.D		Analyzed: 02/14/11 19:25		
Bromofluorobenzene	0.05000	111	50 - 150	19.563	19.55	0.0130	+/-0.210	
GW0026 (1102088-03) mg/L				Lab File ID: 008F0801.D		Analyzed: 02/14/11 20:00		
Bromofluorobenzene	0.05000	104	50 - 150	19.57	19.55	0.0200	+/-0.210	
Matrix Spike (1B14007-MS1) mg/L				Lab File ID: 009F0901.D		Analyzed: 02/14/11 20:34		
Bromofluorobenzene	0.05000	108	50 - 150	19.573	19.55	0.0230	+/-0.210	
Matrix Spike Dup (1B14007-MSD1) mg/L				Lab File ID: 010F1001.D		Analyzed: 02/14/11 21:08		
Bromofluorobenzene	0.05000	109	50 - 150	19.576	19.55	0.0260	+/-0.210	
GW0024 (1102097-01) mg/L				Lab File ID: 011F1101.D		Analyzed: 02/14/11 21:42		
Bromofluorobenzene	0.05000	107	50 - 150	19.58	19.55	0.0300	+/-0.210	
GW0030 (1102097-02) mg/L				Lab File ID: 012F1201.D		Analyzed: 02/14/11 22:17		
Bromofluorobenzene	0.05000	107	50 - 150	19.573	19.55	0.0230	+/-0.210	
Calibration Check (1B04616-CCV2) ug/mL				Lab File ID: 016F1601.D		Analyzed: 02/15/11 00:38		
Bromofluorobenzene	0.05000	113	80 - 120	19.553	19.55	0.0030	+/-0.210	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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
GW0014	02/07/11 11:15	02/08/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 00:53	3.57	14.00	
GW0028	02/07/11 15:16	02/08/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 01:27	3.42	14.00	
GW0029	02/07/11 15:16	02/08/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 02:01	3.45	14.00	
GW0033	02/04/11 12:55	02/08/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 02:35	6.57	14.00	
GW0025	02/08/11 12:04	02/09/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 03:08	2.63	14.00	
GW0027	02/08/11 16:08	02/09/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 03:42	2.48	14.00	
GW8001-RB	02/08/11 08:45	02/09/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 04:16	2.81	14.00	
GW0023	02/10/11 14:48	02/11/11 08:45	02/14/11 09:56	N/A	14.00	02/14/11 19:25	4.19	14.00	
GW0026	02/10/11 10:35	02/11/11 08:45	02/14/11 09:56	N/A	14.00	02/14/11 20:00	4.39	14.00	
GW0024	02/09/11 11:48	02/10/11 11:45	02/14/11 09:56	N/A	14.00	02/14/11 21:42	5.37	14.00	
GW0030	02/09/11 14:52	02/10/11 11:45	02/14/11 09:56	N/A	14.00	02/14/11 22:17	5.27	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B10008-BLK1
File ID: 015F1501.D
Sampled:
Prepared:
Analyzed: 02/10/11 23:10
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B10008
Sequence: 1B04207
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	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	0.05603	112	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B10008-BS1	File ID:	016F1601.D
Sampled:		Prepared:		Analyzed:	02/10/11 23:44
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B10008	Sequence:	1B04207	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5940	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05657	113	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B10008-BSD1	File ID:	017F1701.D
Sampled:		Prepared:		Analyzed:	02/11/11 00:18
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B10008	Sequence:	1B04207	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5912	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05703	114	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B14007-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	02/14/11 17:41
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B14007	Sequence:	1B04616	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	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	0.05451	109	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B14007-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	02/14/11 18:16
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B14007	Sequence:	1B04616	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5769	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05600	112	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B14007-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	02/14/11 18:50
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B14007	Sequence:	1B04616	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.6044	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05635	113	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B14007-MS1	File ID:	009F0901.D
Sampled:		Prepared:		Analyzed:	02/14/11 20:34
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1B14007 Sequence: 1B04616 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.6390	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05421	108	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B14007-MSD1	File ID:	010F1001.D
Sampled:		Prepared:		Analyzed:	02/14/11 21:08
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1B14007	Sequence:	1B04616	Calibration:	1028002	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.6672	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05450	109	50 - 150	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03804	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B03804-CAL6	003B0301.D	02/04/11 11:28
Cal Standard	1B03804-CAL5	004B0401.D	02/04/11 12:02
Cal Standard	1B03804-CAL4	005B0501.D	02/04/11 12:35
Cal Standard	1B03804-CAL3	006B0601.D	02/04/11 13:09
Cal Standard	1B03804-CAL2	007B0701.D	02/04/11 13:42
Cal Standard	1B03804-CAL1	008B0801.D	02/04/11 14:16
Initial Cal Check	1B03804-ICV1	009B0901.D	02/04/11 14:50

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04611	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04611-CCV1	015B1601.D	02/14/11 23:03
Blank	1B11010-BLK1	016B1701.D	02/14/11 23:37
LCS	1B11010-BS1	017B1801.D	02/15/11 00:11
LCS Dup	1B11010-BSD1	018B1901.D	02/15/11 00:45
GW0014	1102062-01	019B2001.D	02/15/11 01:18
GW0028	1102062-03	020B2101.D	02/15/11 01:52
GW0029	1102062-06	021B2201.D	02/15/11 02:26
GW0033	1102063-01	022B2301.D	02/15/11 03:00
GW0025	1102076-01	023B2401.D	02/15/11 03:33
GW0027	1102076-03	024B2501.D	02/15/11 04:07
GW8001-RB	1102076-06	025B2601.D	02/15/11 04:41
Calibration Check	1B04611-CCV2	026B2701.D	02/15/11 05:14

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04715	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04715-CCV1	003B0301.D	02/15/11 17:09
Blank	1B12006-BLK1	004B0401.D	02/15/11 17:42
LCS	1B12006-BS1	005B0501.D	02/15/11 18:16
GW0023	1102088-01	006B0601.D	02/15/11 18:49
GW0026	1102088-03	007B0701.D	02/15/11 19:23
GW0026	1B12006-MS1	008B0801.D	02/15/11 19:56
GW0026	1B12006-MSD1	009B0901.D	02/15/11 20:30
GW0024	1102097-01	010B1001.D	02/15/11 21:03
GW0030	1102097-02	011B1101.D	02/15/11 21:37
Calibration Check	1B04715-CCV2	013B1301.D	02/15/11 22:44

ANALYSIS DATA SHEET

GW0014

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-01	File ID:	019B2001.D
Sampled:	02/07/11 11:15	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 01:18
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B11010 Sequence: 1B04611 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0935	0.0935	0.0935	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01869	0.01066	57.0	30 - 140	

ANALYSIS DATA SHEET

GW0028

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-03	File ID:	020B2101.D
Sampled:	02/07/11 15:16	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 01:52
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B11010 Sequence: 1B04611 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	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	0.01152	61.0	30 - 140	

ANALYSIS DATA SHEET

GW0029

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-06	File ID:	021B2201.D
Sampled:	02/07/11 15:16	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 02:26
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B11010 Sequence: 1B04611 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	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	0.01047	55.5	30 - 140	

ANALYSIS DATA SHEET

GW0033

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-01	File ID:	022B2301.D
Sampled:	02/04/11 12:55	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 03:00
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B11010 Sequence: 1B04611 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	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	0.01289	67.0	30 - 140	

ANALYSIS DATA SHEET

GW0025

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-01	File ID:	023B2401.D
Sampled:	02/08/11 12:04	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 03:33
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B11010 Sequence: 1B04611 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	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	0.01190	61.9	30 - 140	

ANALYSIS DATA SHEET

GW0027

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-03	File ID:	024B2501.D
Sampled:	02/08/11 16:08	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 04:07
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B11010 Sequence: 1B04611 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	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	0.01175	62.3	30 - 140	

ANALYSIS DATA SHEET

GW8001-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-06	File ID:	025B2601.D
Sampled:	02/08/11 08:45	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 04:41
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B11010 Sequence: 1B04611 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0935	0.0935	0.0935	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01869	0.01351	72.3	30 - 140	

ANALYSIS DATA SHEET

GW0023

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-01	File ID:	006B0601.D
Sampled:	02/10/11 14:48	Prepared:	02/14/11 16:33	Analyzed:	02/15/11 18:49
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B12006 Sequence: 1B04715 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.260	0.0943	0.0943	0.0943	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01629	86.4	30 - 140	

ANALYSIS DATA SHEET

GW0026

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-03	File ID:	007B0701.D
Sampled:	02/10/11 10:35	Prepared:	02/14/11 16:33	Analyzed:	02/15/11 19:23
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B12006 Sequence: 1B04715 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	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	0.01458	75.8	30 - 140	

ANALYSIS DATA SHEET

GW0024

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-01	File ID:	010B1001.D
Sampled:	02/09/11 11:48	Prepared:	02/14/11 16:33	Analyzed:	02/15/11 21:03
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B12006 Sequence: 1B04715 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0926	0.0926	0.0926	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01852	0.01394	75.3	30 - 140	

ANALYSIS DATA SHEET

GW0030

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-02	File ID:	011B1101.D
Sampled:	02/09/11 14:52	Prepared:	02/14/11 16:33	Analyzed:	02/15/11 21:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1B12006 Sequence: 1B04715 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0926	0.0926	0.0926	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01852	0.01516	81.8	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11010	Laboratory ID:	1B11010-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	0.6791	67.9	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	0.6886	68.9	1.38	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B12006	Laboratory ID:	1B12006-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	0.8348	83.5	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B12006

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Diesel Range Organics (C10-C28)	0.9615	ND	0.7890	82.1		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	0.9434	0.7828	83.0	0.792		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B11010 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/11/11 13:02	1,070.00	1.00
GW0028	1102062-03	02/11/11 13:02	1,060.00	1.00
GW0029	1102062-06	02/11/11 13:02	1,060.00	1.00
GW0033	1102063-01	02/11/11 13:02	1,040.00	1.00
GW0025	1102076-01	02/11/11 13:02	1,040.00	1.00
GW0027	1102076-03	02/11/11 13:02	1,060.00	1.00
GW8001-RB	1102076-06	02/11/11 13:02	1,070.00	1.00
Blank	1B11010-BLK1	02/11/11 13:02	1,000.00	1.00
LCS	1B11010-BS1	02/11/11 13:02	1,000.00	1.00
LCS Dup	1B11010-BSD1	02/11/11 13:02	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B12006 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0023	1102088-01	02/14/11 16:33	1,060.00	1.00
GW0026	1102088-03	02/14/11 16:33	1,040.00	1.00
GW0024	1102097-01	02/14/11 16:33	1,080.00	1.00
GW0030	1102097-02	02/14/11 16:33	1,080.00	1.00
Blank	1B12006-BLK1	02/12/11 12:24	1,000.00	1.00
LCS	1B12006-BS1	02/12/11 12:24	1,000.00	1.00
GW0026	1B12006-MS1	02/12/11 12:24	1,040.00	1.00
GW0026	1B12006-MSD1	02/12/11 12:24	1,060.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03804	Instrument:	GL-GCFID
Calibration:	1038002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10K0188	DRO ICAL6@100ppm	1B03804-CAL6	003B0301.D	02/04/11 11:28
10K0189	DRO ICAL5@250ppm	1B03804-CAL5	004B0401.D	02/04/11 12:02
10K0190	DRO ICAL4@500ppm	1B03804-CAL4	005B0501.D	02/04/11 12:35
10K0192	DRO ICAL3@1000ppm	1B03804-CAL3	006B0601.D	02/04/11 13:09
10K0193	DRO ICAL2@2500ppm	1B03804-CAL2	007B0701.D	02/04/11 13:42
10K0194	DRO ICAL1@5000ppm	1B03804-CAL1	008B0801.D	02/04/11 14:16

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038002	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	2/4/2011 11:28:54AM

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	1351.87	250	1499.38	500	1574.304	1000	1676.537	2500	1883.202	5000	1703.416
o-Terphenyl	5	1984.4	12.5	1928.48	25	1883.4	50	1943.72	125	1932.104	250	1921.648

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038002	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	2/4/2011 11:28:54AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	1614.785	11.34472	6.25	0			20	
o-Terphenyl	1932.292	1.695087	11.31367	0.0744468			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	009B0901.D	Calibration Date:	02/04/11 11:28
Sequence:	1B03804	Injection Date:	02/04/11
Lab Sample ID:	1B03804-ICV1	Injection Time:	14:50

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1178	1614.785	1901.657		17.8	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	015B1601.D	Calibration Date:	02/04/11 11:28
Sequence:	1B04611	Injection Date:	02/14/11
Lab Sample ID:	1B04611-CCV1	Injection Time:	23:03

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1069	1614.785	1726.428		6.9	20
o-Terphenyl	A	50.00	52.96	1932.292	2046.66		5.9	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	026B2701.D	Calibration Date:	02/04/11 11:28
Sequence:	1B04611	Injection Date:	02/15/11
Lab Sample ID:	1B04611-CCV2	Injection Time:	05:14

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1106	1614.785	1785.871		10.6	20
o-Terphenyl	A	50.00	50.64	1932.292	1957.02		1.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	003B0301.D	Calibration Date:	02/04/11 11:28
Sequence:	1B04715	Injection Date:	02/15/11
Lab Sample ID:	1B04715-CCV1	Injection Time:	17:09

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1051	1614.785	1697.221		5.1	20
o-Terphenyl	A	50.00	47.96	1932.292	1853.68		-4.1	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	013B1301.D	Calibration Date:	02/04/11 11:28
Sequence:	1B04715	Injection Date:	02/15/11
Lab Sample ID:	1B04715-CCV2	Injection Time:	22:44

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1129	1614.785	1822.53		12.9	20
o-Terphenyl	A	50.00	50.02	1932.292	1933.28		0.05	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04611	Instrument:	GL-GCFID
		Calibration:	1038002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04611-CCV1) mg/L				Lab File ID: 015B1601.D		Analyzed: 02/14/11 23:03		
o-Terphenyl	50.00	106	80 - 120	11.28	11.28	0.0000	+/-0.050	
Blank (1B11010-BLK1) mg/L				Lab File ID: 016B1701.D		Analyzed: 02/14/11 23:37		
o-Terphenyl	0.02000	67.8	30 - 140	11.273	11.28	-0.0070	+/-0.050	
LCS (1B11010-BS1) mg/L				Lab File ID: 017B1801.D		Analyzed: 02/15/11 00:11		
o-Terphenyl	0.02000	80.2	30 - 140	11.27	11.28	-0.0100	+/-0.050	
LCS Dup (1B11010-BSD1) mg/L				Lab File ID: 018B1901.D		Analyzed: 02/15/11 00:45		
o-Terphenyl	0.02000	79.3	30 - 140	11.29	11.28	0.0100	+/-0.050	
GW0014 (1102062-01) mg/L				Lab File ID: 019B2001.D		Analyzed: 02/15/11 01:18		
o-Terphenyl	0.01869	57.0	30 - 140	11.29	11.28	0.0100	+/-0.050	
GW0028 (1102062-03) mg/L				Lab File ID: 020B2101.D		Analyzed: 02/15/11 01:52		
o-Terphenyl	0.01887	61.0	30 - 140	11.303	11.28	0.0230	+/-0.050	
GW0029 (1102062-06) mg/L				Lab File ID: 021B2201.D		Analyzed: 02/15/11 02:26		
o-Terphenyl	0.01887	55.5	30 - 140	11.293	11.28	0.0130	+/-0.050	
GW0033 (1102063-01) mg/L				Lab File ID: 022B2301.D		Analyzed: 02/15/11 03:00		
o-Terphenyl	0.01923	67.0	30 - 140	11.286	11.28	0.0060	+/-0.050	
GW0025 (1102076-01) mg/L				Lab File ID: 023B2401.D		Analyzed: 02/15/11 03:33		
o-Terphenyl	0.01923	61.9	30 - 140	11.293	11.28	0.0130	+/-0.050	
GW0027 (1102076-03) mg/L				Lab File ID: 024B2501.D		Analyzed: 02/15/11 04:07		
o-Terphenyl	0.01887	62.3	30 - 140	11.276	11.28	-0.0040	+/-0.050	
GW8001-RB (1102076-06) mg/L				Lab File ID: 025B2601.D		Analyzed: 02/15/11 04:41		
o-Terphenyl	0.01869	72.3	30 - 140	11.286	11.28	0.0060	+/-0.050	
Calibration Check (1B04611-CCV2) mg/L				Lab File ID: 026B2701.D		Analyzed: 02/15/11 05:14		
o-Terphenyl	50.00	101	80 - 120	11.29	11.28	0.0100	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04715	Instrument:	GL-GCFID
		Calibration:	1038002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04715-CCV1) mg/L				Lab File ID: 003B0301.D		Analyzed: 02/15/11 17:09		
o-Terphenyl	50.00	95.9	80 - 120	11.286	11.286	0.0000	+/-0.050	
Blank (1B12006-BLK1) mg/L				Lab File ID: 004B0401.D		Analyzed: 02/15/11 17:42		
o-Terphenyl	0.02000	57.9	30 - 140	11.303	11.286	0.0170	+/-0.050	
LCS (1B12006-BS1) mg/L				Lab File ID: 005B0501.D		Analyzed: 02/15/11 18:16		
o-Terphenyl	0.02000	81.5	30 - 140	11.286	11.286	0.0000	+/-0.050	
GW0023 (1102088-01) mg/L				Lab File ID: 006B0601.D		Analyzed: 02/15/11 18:49		
o-Terphenyl	0.01887	86.4	30 - 140	11.29	11.286	0.0040	+/-0.050	
GW0026 (1102088-03) mg/L				Lab File ID: 007B0701.D		Analyzed: 02/15/11 19:23		
o-Terphenyl	0.01923	75.8	30 - 140	11.283	11.286	-0.0030	+/-0.050	
Matrix Spike (1B12006-MS1) mg/L				Lab File ID: 008B0801.D		Analyzed: 02/15/11 19:56		
o-Terphenyl	0.01923	79.2	30 - 140	11.276	11.286	-0.0100	+/-0.050	
Matrix Spike Dup (1B12006-MSD1) mg/L				Lab File ID: 009B0901.D		Analyzed: 02/15/11 20:30		
o-Terphenyl	0.01887	84.9	30 - 140	11.276	11.286	-0.0100	+/-0.050	
GW0024 (1102097-01) mg/L				Lab File ID: 010B1001.D		Analyzed: 02/15/11 21:03		
o-Terphenyl	0.01852	75.3	30 - 140	11.27	11.286	-0.0160	+/-0.050	
GW0030 (1102097-02) mg/L				Lab File ID: 011B1101.D		Analyzed: 02/15/11 21:37		
o-Terphenyl	0.01852	81.8	30 - 140	11.29	11.286	0.0040	+/-0.050	
Calibration Check (1B04715-CCV2) mg/L				Lab File ID: 013B1301.D		Analyzed: 02/15/11 22:44		
o-Terphenyl	50.00	100	80 - 120	11.28	11.286	-0.0060	+/-0.050	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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
GW0014	02/07/11 11:15	02/08/11 08:45	02/11/11 13:02	4.07	7.00	02/15/11 01:18	3.51	40.00	
GW0028	02/07/11 15:16	02/08/11 08:45	02/11/11 13:02	3.91	7.00	02/15/11 01:52	3.53	40.00	
GW0029	02/07/11 15:16	02/08/11 08:45	02/11/11 13:02	3.91	7.00	02/15/11 02:26	3.56	40.00	
GW0033	02/04/11 12:55	02/08/11 08:45	02/11/11 13:02	7.00	7.00	02/15/11 03:00	3.58	40.00	
GW0025	02/08/11 12:04	02/09/11 08:45	02/11/11 13:02	3.04	7.00	02/15/11 03:33	3.60	40.00	
GW0027	02/08/11 16:08	02/09/11 08:45	02/11/11 13:02	2.87	7.00	02/15/11 04:07	3.63	40.00	
GW8001-RB	02/08/11 08:45	02/09/11 08:45	02/11/11 13:02	3.18	7.00	02/15/11 04:41	3.65	40.00	
GW0023	02/10/11 14:48	02/11/11 08:45	02/14/11 16:33	4.07	7.00	02/15/11 18:49	1.09	40.00	
GW0026	02/10/11 10:35	02/11/11 08:45	02/14/11 16:33	4.25	7.00	02/15/11 19:23	1.12	40.00	
GW0024	02/09/11 11:48	02/10/11 11:45	02/14/11 16:33	5.16	7.00	02/15/11 21:03	1.19	40.00	
GW0030	02/09/11 14:52	02/10/11 11:45	02/14/11 16:33	5.03	7.00	02/15/11 21:37	1.21	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B11010-BLK1	File ID:	016B1701.D
Sampled:		Prepared:		Analyzed:	02/14/11 23:37
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1B11010	Sequence:	1B04611	Calibration:	1038002	Instrument:	GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	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	0.01355	67.8	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B11010-BS1	File ID:	017B1801.D
Sampled:		Prepared:		Analyzed:	02/15/11 00:11
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1B11010	Sequence:	1B04611	Calibration:	1038002	Instrument:	GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6791	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01604	80.2	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B11010-BSD1	File ID:	018B1901.D
Sampled:		Prepared:		Analyzed:	02/15/11 00:45
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1B11010	Sequence:	1B04611	Calibration:	1038002	Instrument:	GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6886	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01586	79.3	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B12006-BLK1	File ID:	004B0401.D
Sampled:		Prepared:		Analyzed:	02/15/11 17:42
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1B12006 Sequence: 1B04715 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	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	0.01157	57.9	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B12006-BS1	File ID:	005B0501.D
Sampled:		Prepared:		Analyzed:	02/15/11 18:16
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1B12006	Sequence:	1B04715	Calibration:	1038002	Instrument:	GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.8348	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01631	81.5	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B12006-MS1	File ID:	008B0801.D
Sampled:		Prepared:		Analyzed:	02/15/11 19:56
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1B12006 Sequence: 1B04715 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.7890	0.0962	0.0962	0.0962	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01522	79.2	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	kirtland_003	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1B12006-MSD1	File ID:	009B0901.D
Sampled:		Prepared:		Analyzed:	02/15/11 20:30
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1B12006 Sequence: 1B04715 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.7828	0.0943	0.0943	0.0943	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01601	84.9	30 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCFID

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_003
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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04508	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04508-CCV2	017R0101.D	02/14/11 15:40
Calibration Check	1B04508-CCV2	017F0101.D	02/14/11 15:40
LCS	1B14006-BS1	021R0101.D	02/14/11 17:05
LCS	1B14006-BS1	021F0101.D	02/14/11 17:05
Blank	1B14006-BLK1	022R0101.D	02/14/11 17:26
GW0014	1102062-01	023F0101.D	02/14/11 17:47
GW0028	1102062-03	024R0101.D	02/14/11 18:08
GW0029	1102062-06	025R0101.D	02/14/11 18:29
GW0033	1102063-01	026R0101.D	02/14/11 18:50
GW0025	1102076-01	027R0101.D	02/14/11 19:11
GW0027	1102076-03	028R0101.D	02/14/11 19:33
GW0027	1102076-03	028F0101.D	02/14/11 19:33
GW0023	1102088-01	029R0101.D	02/14/11 19:54
GW0023	1102088-01	029F0101.D	02/14/11 19:54
Calibration Check	1B04508-CCV3	030R0101.D	02/14/11 20:15
Calibration Check	1B04508-CCV3	030F0101.D	02/14/11 20:15
GW0026	1102088-03	031R0101.D	02/14/11 20:37
GW0026	1102088-03	031F0101.D	02/14/11 20:37
GW0026	1B14006-MS1	032F0101.D	02/14/11 20:58
GW0026	1B14006-MS1	032R0101.D	02/14/11 20:58
GW0026	1B14006-MSD1	033R0101.D	02/14/11 21:19
GW0026	1B14006-MSD1	033F0101.D	02/14/11 21:19
GW0024	1102097-01	034F0101.D	02/14/11 21:40
GW0024	1102097-01	034R0101.D	02/14/11 21:40
GW0030	1102097-02	035R0101.D	02/14/11 22:01
Calibration Check	1B04508-CCV4	036R0101.D	02/14/11 22:22
Calibration Check	1B04508-CCV4	036F0101.D	02/14/11 22:22

ANALYSIS DATA SHEET

GW0014

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-01	File ID:	023F0101.D
Sampled:	02/07/11 11:15	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 17:47
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00979	0.0196	0.0294	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0028

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-03	File ID:	024R0101.D
Sampled:	02/07/11 15:16	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 18:08
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00997	0.0199	0.0299	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0029

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-06	File ID:	025R0101.D
Sampled:	02/07/11 15:16	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 18:29
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00986	0.0197	0.0296	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0033

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-01	File ID:	026R0101.D
Sampled:	02/04/11 12:55	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 18:50
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0101	0.0202	0.0303	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0025

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-01	File ID:	027R0101.D
Sampled:	02/08/11 12:04	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 19:11
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00980	0.0196	0.0294	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0027

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-03	File ID:	028R0101.D
Sampled:	02/08/11 16:08	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 19:33
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.0656	0.00996	0.0199	0.0299	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0023

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-01	File ID:	029R0101.D
Sampled:	02/10/11 14:48	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 19:54
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.160	0.00994	0.0199	0.0298	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0026

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-03	File ID:	031F0101.D
Sampled:	02/10/11 10:35	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 20:37
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00992	0.0198	0.0297	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0024

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-01	File ID:	034R0101.D
Sampled:	02/09/11 11:48	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 21:40
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.923	0.00999	0.0200	0.0300	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0030

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-02	File ID:	035R0101.D
Sampled:	02/09/11 14:52	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 22:01
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00990	0.0198	0.0297	U

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B14006	Laboratory ID:	1B14006-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	0.4885	97.7	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5406	108	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B14006

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.4948	ND	0.5198	105		70 - 130
1,2-Dibromoethane [2C]	0.4948	0.02884	0.5608	108		70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.4928	0.5352	109	2.92		20	70 - 130
1,2-Dibromoethane [2C]	0.4928	0.5937	115	5.70		20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B14006 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/14/11 09:29	35.74	35.00
GW0028	1102062-03	02/14/11 09:29	35.11	35.00
GW0029	1102062-06	02/14/11 09:29	35.50	35.00
GW0033	1102063-01	02/14/11 09:29	34.71	35.00
GW0025	1102076-01	02/14/11 09:29	35.71	35.00
GW0027	1102076-03	02/14/11 09:29	35.15	35.00
GW0023	1102088-01	02/14/11 09:29	35.20	35.00
GW0026	1102088-03	02/14/11 09:29	35.30	35.00
GW0024	1102097-01	02/14/11 09:29	35.05	35.00
GW0030	1102097-02	02/14/11 09:29	35.35	35.00
Blank	1B14006-BLK1	02/14/11 09:29	35.00	35.00
LCS	1B14006-BS1	02/14/11 09:29	35.00	35.00
GW0026	1B14006-MS1	02/14/11 09:29	35.37	35.00
GW0026	1B14006-MSD1	02/14/11 09:29	35.51	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B14006-BLK1	File ID:	022R0101.D
Sampled:		Prepared:	02/14/11 09:29	Analyzed:	02/14/11 17:26
Solids:		Preparation:	EDB	Dilution:	

Batch: 1B14006 Sequence: 1B04508 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_003
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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

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_003
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 14:14
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_003
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 14:14
Sequence:	1B04508	Injection Date:	02/14/11
Lab Sample ID:	1B04508-CCV2	Injection Time:	15:40

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5196	17489.79	15906		3.9	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5423	37183.36	35494		8.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	030F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B04508	Injection Date:	02/14/11
Lab Sample ID:	1B04508-CCV3	Injection Time:	20:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4915	17489.79	15104		-1.7	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5296	37183.36	34802		5.9	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_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	036F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B04508	Injection Date:	02/14/11
Lab Sample ID:	1B04508-CCV4	Injection Time:	22:22

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4962	17489.79	15238		-0.8	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5430	37183.36	35534		8.6	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_003

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
GW0014	02/07/11 11:15	02/08/11 08:45	02/14/11 09:29	6.93	14.00	02/14/11 17:47	0.35	14.00	
GW0028	02/07/11 15:16	02/08/11 08:45	02/14/11 09:29	6.76	14.00	02/14/11 18:08	0.36	14.00	
GW0029	02/07/11 15:16	02/08/11 08:45	02/14/11 09:29	6.76	14.00	02/14/11 18:29	0.38	14.00	
GW0033	02/04/11 12:55	02/08/11 08:45	02/14/11 09:29	9.86	14.00	02/14/11 18:50	0.39	14.00	
GW0025	02/08/11 12:04	02/09/11 08:45	02/14/11 09:29	5.89	14.00	02/14/11 19:11	0.40	14.00	
GW0027	02/08/11 16:08	02/09/11 08:45	02/14/11 09:29	5.72	14.00	02/14/11 19:33	0.42	14.00	
GW0023	02/10/11 14:48	02/11/11 08:45	02/14/11 09:29	3.78	14.00	02/14/11 19:54	0.43	14.00	
GW0026	02/10/11 10:35	02/11/11 08:45	02/14/11 09:29	3.95	14.00	02/14/11 20:37	0.46	14.00	
GW0024	02/09/11 11:48	02/10/11 11:45	02/14/11 09:29	4.86	14.00	02/14/11 21:40	0.51	14.00	
GW0030	02/09/11 14:52	02/10/11 11:45	02/14/11 09:29	4.73	14.00	02/14/11 22:01	0.52	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B14006-BS1
File ID: 021F0101.D
Sampled:
Prepared:
Analyzed: 02/14/11 17:05
Solids:
Preparation: EDB
Dilution:
Batch: 1B14006
Sequence: 1B04508
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4885	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B14006-BS1	File ID:	021R0101.D
Sampled:		Prepared:		Analyzed:	02/14/11 17:05
Solids:		Preparation:	EDB	Dilution:	

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5406	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B14006-MS1	File ID:	032F0101.D
Sampled:		Prepared:		Analyzed:	02/14/11 20:58
Solids:		Preparation:	EDB	Dilution:	

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5198	0.00990	0.0198	0.0297	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B14006-MS1	File ID:	032R0101.D
Sampled:		Prepared:		Analyzed:	02/14/11 20:58
Solids:		Preparation:	EDB	Dilution:	

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5608	0.00990	0.0198	0.0297	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1B14006-MSD1	File ID:	033F0101.D
Sampled:		Prepared:		Analyzed:	02/14/11 21:19
Solids:		Preparation:	EDB	Dilution:	

Batch:	1B14006	Sequence:	1B04508	Calibration:	0344003	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5352	0.00986	0.0197	0.0296	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1B14006-MSD1	File ID:	033R0101.D
Sampled:		Prepared:		Analyzed:	02/14/11 21:19
Solids:		Preparation:	EDB	Dilution:	

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5937	0.00986	0.0197	0.0296	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0027

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102076-03 Date(s) Analyzed: 02/14/2011 02/14/2011

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	0.0638	
	2	0.58	0.55	0.61	0.0656	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0023

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102088-01 Date(s) Analyzed: 02/14/2011 02/14/2011

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	0.138	
	2	0.58	0.55	0.61	0.160	15

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0024

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102097-01 Date(s) Analyzed: 02/14/2011 02/14/2011

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	0.840	
	2	0.58	0.55	0.61	0.923	9

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B14006-BS1 Date(s) Analyzed: 02/14/2011 02/14/2011

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	0.4885	
	2	0.58	0.55	0.61	0.5406	10

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B14006-MS1 Date(s) Analyzed: 02/14/2011 02/14/2011

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	0.5198	
	2	0.58	0.55	0.61	0.5608	8

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B14006-MSD1

Date(s) Analyzed: 02/14/2011 02/14/2011

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	0.5352	
	2	0.58	0.55	0.61	0.5937	10

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_003

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

GW0014

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-01
Sampled:	02/07/11 11:15	Received:	02/08/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	46400	1000	2000	5000	1		SW6010B	1B15002	02/17/11 15:35
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 15:35
7439-95-4	Magnesium	7000	1000	3000	5000	1		SW6010B	1B15002	02/17/11 15:35
7440-09-7	Potassium	2840	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 15:35
7440-23-5	Sodium	29000	1000	3000	5000	1	X	SW6010B	1B15002	02/17/11 15:35

ANALYSIS DATA SHEET

GW0014

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-02
Sampled:	02/07/11 11:15	Received:	02/08/11 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)	89.2	30.0	60.0	100	1	J	SW6010B	1B15002	02/17/11 15:39
7439-96-5	Manganese (dissolved)	32.0	3.00	6.00	15.0	1		SW6010B	1B15002	02/17/11 15:39

ANALYSIS DATA SHEET

GW0028

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-03
Sampled:	02/07/11 15:16	Received:	02/08/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	77100	1000	2000	5000	1		SW6010B	1B15002	02/17/11 15:44
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 15:44
7439-95-4	Magnesium	10600	1000	3000	5000	1		SW6010B	1B15002	02/17/11 15:44
7440-09-7	Potassium	4050	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 15:44
7440-23-5	Sodium	38800	1000	3000	5000	1	X	SW6010B	1B15002	02/17/11 15:44

ANALYSIS DATA SHEET

GW0028

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-04
Sampled:	02/07/11 15:16	Received:	02/08/11 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	1B15002	02/17/11 15:48
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B15002	02/17/11 15:48

ANALYSIS DATA SHEET

GW0029

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-06
Sampled:	02/07/11 15:16	Received:	02/08/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	76500	1000	2000	5000	1		SW6010B	1B15002	02/17/11 15:53
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 15:53
7439-95-4	Magnesium	10400	1000	3000	5000	1		SW6010B	1B15002	02/17/11 15:53
7440-09-7	Potassium	3920	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 15:53
7440-23-5	Sodium	36700	1000	3000	5000	1	X	SW6010B	1B15002	02/17/11 15:53

ANALYSIS DATA SHEET

GW0028

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-07
Sampled:	02/07/11 15:16	Received:	02/08/11 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	1B15002	02/17/11 15:58
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B15002	02/17/11 15:58

ANALYSIS DATA SHEET

GW0033

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-01
Sampled:	02/04/11 12:55	Received:	02/08/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	30800	1000	2000	5000	1		SW6010B	1B15002	02/17/11 16:02
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 16:02
7439-95-4	Magnesium	4510	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 16:02
7440-09-7	Potassium	2630	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 16:02
7440-23-5	Sodium	24200	1000	3000	5000	1	X	SW6010B	1B15002	02/17/11 16:02

ANALYSIS DATA SHEET

GW0033

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-02
Sampled:	02/04/11 12:55	Received:	02/08/11 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	1B15002	02/17/11 16:07
7439-96-5	Manganese (dissolved)	44.7	3.00	6.00	15.0	1		SW6010B	1B15002	02/17/11 16:07

ANALYSIS DATA SHEET

GW0025

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-01
Sampled:	02/08/11 12:04	Received:	02/09/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	33500	1000	2000	5000	1		SW6010B	1B15002	02/17/11 16:12
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 16:12
7439-95-4	Magnesium	4400	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 16:12
7440-09-7	Potassium	2350	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 16:12
7440-23-5	Sodium	29500	1000	3000	5000	1	X	SW6010B	1B15002	02/17/11 16:12

ANALYSIS DATA SHEET

GW0025

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-02
Sampled:	02/08/11 12:04	Received:	02/09/11 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	1B15002	02/17/11 16:16
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B15002	02/17/11 16:16

ANALYSIS DATA SHEET

GW0027

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-03
Sampled:	02/08/11 16:08	Received:	02/09/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	37500	1000	2000	5000	1		SW6010B	1B15002	02/17/11 16:34
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 16:34
7439-95-4	Magnesium	5150	1000	3000	5000	1		SW6010B	1B15002	02/17/11 16:34
7440-09-7	Potassium	2620	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 16:34
7440-23-5	Sodium	25200	1000	3000	5000	1		SW6010B	1B15002	02/17/11 16:34

ANALYSIS DATA SHEET

GW0027

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-04
Sampled:	02/08/11 16:08	Received:	02/09/11 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	1B15002	02/17/11 16:38
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B15002	02/17/11 16:38

ANALYSIS DATA SHEET

GW8001-RB

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-06
Sampled:	02/08/11 08:45	Received:	02/09/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium		1000	2000	5000	1	U	SW6010B	1B15002	02/17/11 16:43
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 16:43
7439-95-4	Magnesium		1000	3000	5000	1	U	SW6010B	1B15002	02/17/11 16:43
7440-09-7	Potassium		1000	3000	5000	1	U	SW6010B	1B15002	02/17/11 16:43
7440-23-5	Sodium		1000	3000	5000	1	U	SW6010B	1B15002	02/17/11 16:43

ANALYSIS DATA SHEET

GW8001-RB

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-07
Sampled:	02/08/11 08:45	Received:	02/09/11 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	1B15002	02/17/11 16:48
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B15002	02/17/11 16:48

ANALYSIS DATA SHEET

GW0023

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-01
Sampled:	02/10/11 14:48	Received:	02/11/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	66300	1000	2000	5000	1		SW6010B	1B15002	02/17/11 16:52
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 16:52
7439-95-4	Magnesium	9130	1000	3000	5000	1		SW6010B	1B15002	02/17/11 16:52
7440-09-7	Potassium	3310	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 16:52
7440-23-5	Sodium	33000	1000	3000	5000	1		SW6010B	1B15002	02/17/11 16:52

ANALYSIS DATA SHEET

GW0023

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-02
Sampled:	02/10/11 14:48	Received:	02/11/11 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)	88.4	30.0	60.0	100	1	J	SW6010B	1B15002	02/17/11 16:57
7439-96-5	Manganese (dissolved)	220	3.00	6.00	15.0	1		SW6010B	1B15002	02/17/11 16:57

ANALYSIS DATA SHEET

GW0026

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-03
Sampled:	02/10/11 10:35	Received:	02/11/11 08:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	64400	1000	2000	5000	1		SW6010B	1B15002	02/17/11 17:02
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 17:02
7439-95-4	Magnesium	19000	1000	3000	5000	1		SW6010B	1B15002	02/17/11 17:02
7440-09-7	Potassium	3960	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 17:02
7440-23-5	Sodium	41200	1000	3000	5000	1		SW6010B	1B15002	02/17/11 17:02

ANALYSIS DATA SHEET

GW0026

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-04
Sampled:	02/10/11 10:35	Received:	02/11/11 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)	34.3	30.0	60.0	100	1	J	SW6010B	1B15002	02/17/11 17:25
7439-96-5	Manganese (dissolved)	295	3.00	6.00	15.0	1		SW6010B	1B15002	02/17/11 17:25

ANALYSIS DATA SHEET

GW0024

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-01
Sampled:	02/09/11 11:48	Received:	02/10/11 11:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	44700	1000	2000	5000	1		SW6010B	1B15002	02/17/11 17:49
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 17:49
7439-95-4	Magnesium	5830	1000	3000	5000	1		SW6010B	1B15002	02/17/11 17:49
7440-09-7	Potassium	2560	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 17:49
7440-23-5	Sodium	26600	1000	3000	5000	1		SW6010B	1B15002	02/17/11 17:49

ANALYSIS DATA SHEET

GW0030

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-02
Sampled:	02/09/11 14:52	Received:	02/10/11 11:45
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	37400	1000	2000	5000	1		SW6010B	1B15002	02/17/11 17:53
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 17:53
7439-95-4	Magnesium	5380	1000	3000	5000	1		SW6010B	1B15002	02/17/11 17:53
7440-09-7	Potassium	2390	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 17:53
7440-23-5	Sodium	24000	1000	3000	5000	1		SW6010B	1B15002	02/17/11 17:53

ANALYSIS DATA SHEET

GW0024

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-04
Sampled:	02/09/11 11:48	Received:	02/10/11 11:45
% 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	1B17003	02/22/11 11:54
7439-96-5	Manganese (dissolved)	146	3.00	6.00	15.0	1		SW6010B	1B17003	02/22/11 11:54

ANALYSIS DATA SHEET

GW0030

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-05
Sampled:	02/09/11 14:52	Received:	02/10/11 11:45
% 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	1B17003	02/22/11 11:59
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B17003	02/22/11 11:59

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

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

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 1049001
Sequence: 1B04817

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04817-ICV1	Calcium	50000	48650	97.3	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10280	103	ug/L	+/- 10.00%
	Lead	1000	991.1	99.1	ug/L	+/- 10.00%
	Magnesium	50000	48900	97.8	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1018	102	ug/L	+/- 10.00%
	Potassium	10000	10070	101	ug/L	+/- 10.00%
	Sodium	50000	54300	109	ug/L	+/- 10.00%
1B04817-CCV1	Calcium	50000	48370	96.7	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10340	103	ug/L	+/- 10.00%
	Lead	1000	987.4	98.7	ug/L	+/- 10.00%
	Magnesium	50000	48320	96.6	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1008	101	ug/L	+/- 10.00%
	Potassium	10000	10400	104	ug/L	+/- 10.00%
	Sodium	50000	53220	106	ug/L	+/- 10.00%
1B04817-CCV4	Calcium	50000	46620	93.2	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10150	102	ug/L	+/- 10.00%
	Lead	1000	1012	101	ug/L	+/- 10.00%
	Magnesium	50000	47060	94.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	995.3	99.5	ug/L	+/- 10.00%
	Potassium	10000	10720	107	ug/L	+/- 10.00%
	Sodium	**50000**	**55390**	**111**	**ug/L**	+/- 10.00%
1B04817-CCV5	Calcium	50000	47980	96.0	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10290	103	ug/L	+/- 10.00%
	Lead	1000	1002	100	ug/L	+/- 10.00%
	Magnesium	50000	46750	93.5	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1002	100	ug/L	+/- 10.00%
	Potassium	10000	10200	102	ug/L	+/- 10.00%
	Sodium	50000	52470	105	ug/L	+/- 10.00%
1B04817-CCV6	Calcium	50000	48950	97.9	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10310	103	ug/L	+/- 10.00%
	Lead	1000	989.8	99.0	ug/L	+/- 10.00%
	Magnesium	50000	47040	94.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1008	101	ug/L	+/- 10.00%
	Potassium	10000	10010	100	ug/L	+/- 10.00%
	Sodium	50000	50260	101	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

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

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 1054001
Sequence: 1B05405

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B05405-ICV1	Iron (dissolved)	10000	10020	100	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1034	103	ug/L	+/- 10.00%
1B05405-CCV1	Iron (dissolved)	10000	9872	98.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1024	102	ug/L	+/- 10.00%
1B05405-CCV2	Iron (dissolved)	10000	9739	97.4	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	970.5	97.1	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1049001

Sequence: 1B04817

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04817-CRL1	Calcium	2000	1923	96.2	ug/L	80 - 120
	Iron (dissolved)	60.00	65.30	109	ug/L	80 - 120
	Lead	3.000	3.312	110	ug/L	80 - 120
	Magnesium	3000	2886	96.2	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.588	110	ug/L	80 - 120
	Potassium	3000	3226	108	ug/L	80 - 120
	Sodium	3000	3350	112	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1054001

Sequence: 1B05405

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B05405-CRL1	Iron (dissolved)	60.00	61.86	103	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.635	111	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1B04817
Calibration: 1049001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04817-ICB1	Calcium	10.50	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.163	30.0	100	ug/L	U	SW6010B
	Lead	0.4660	1.50	3.00	ug/L	U	SW6010B
	Magnesium	11.39	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.2487	3.00	15.0	ug/L	U	SW6010B
	Potassium	4.850	1000	5000	ug/L	U	SW6010B
	Sodium	14.21	1000	5000	ug/L	U	SW6010B
1B04817-CCB1	Calcium	44.6	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	17.6	30.0	100	ug/L	U	SW6010B
	Lead	0.282	1.50	3.00	ug/L	U	SW6010B
	Magnesium	41.5	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0202	3.00	15.0	ug/L	U	SW6010B
	Potassium	10.4	1000	5000	ug/L	U	SW6010B
	Sodium	9.19	1000	5000	ug/L	U	SW6010B
1B04817-CCB4	Calcium	20.5	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.31	30.0	100	ug/L	U	SW6010B
	Lead	-0.0185	1.50	3.00	ug/L	U	SW6010B
	Magnesium	11.7	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.165	3.00	15.0	ug/L	U	SW6010B
	Potassium	6.62	1000	5000	ug/L	U	SW6010B
	Sodium	32.5	1000	5000	ug/L	U	SW6010B
1B15002-BLK1	Calcium	9.36	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.272	30.0	100	ug/L	U	SW6010B
	Lead	-0.222	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.39	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0410	3.00	15.0	ug/L	U	SW6010B
	Potassium	3.36	1000	5000	ug/L	U	SW6010B
	Sodium	11.6	1000	5000	ug/L	U	SW6010B
1B04817-CCB5	Calcium	19.4	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.59	30.0	100	ug/L	U	SW6010B
	Lead	0.221	1.50	3.00	ug/L	U	SW6010B
	Magnesium	12.0	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0992	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1B04817
Calibration: 1049001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04817-CCB5	Potassium	8.38	1000	5000	ug/L	U	SW6010B
	Sodium	20.1	1000	5000	ug/L	U	SW6010B
1B04817-CCB6	Calcium	16.9	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.23	30.0	100	ug/L	U	SW6010B
	Lead	0.945	1.50	3.00	ug/L	U	SW6010B
	Magnesium	2.72	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0996	3.00	15.0	ug/L	U	SW6010B
	Potassium	7.97	1000	5000	ug/L	U	SW6010B
	Sodium	17.5	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1B05405
Calibration: 1054001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B05405-ICB1	Iron (dissolved)	3.448	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.1088	3.00	15.0	ug/L	U	SW6010B
1B05405-CCB1	Iron (dissolved)	1.86	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0456	3.00	15.0	ug/L	U	SW6010B
1B17003-BLK1	Iron (dissolved)	-0.190	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0296	3.00	15.0	ug/L	U	SW6010B
1B05405-CCB2	Iron (dissolved)	2.45	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.165	3.00	15.0	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1049001
Sequence: 1B04817

Lab Sample ID	Analyte	True	Found	%R	Units
1B04817-IFA1	Calcium	500000	477,700.00	95.5	ug/L
	Iron (dissolved)	200000	202,710.00	101	ug/L
	Lead		11.70		ug/L
	Magnesium	500000	497,390.00	99.5	ug/L
	Manganese (dissolved)		3.56		ug/L
	Potassium		-52.11		ug/L
	Sodium		22.94		ug/L
1B04817-IFB1	Calcium	500000	439,470.00	87.9	ug/L
	Iron (dissolved)	200000	188,740.00	94.4	ug/L
	Lead	50.00	59.50	119	ug/L
	Magnesium	500000	453,980.00	90.8	ug/L
	Manganese (dissolved)	500.0	437.33	87.5	ug/L
	Potassium		-26.46		ug/L
	Sodium		77.53		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1054001
Sequence: 1B05405

Lab Sample ID	Analyte	True	Found	%R	Units
1B05405-IFA1	Iron (dissolved)	200000	193,420.00	96.7	ug/L
	Manganese (dissolved)		3.85		ug/L
1B05405-IFB1	Iron (dissolved)	200000	180,570.00	90.3	ug/L
	Manganese (dissolved)	500.0	446.45	89.3	ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B15002

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	64440	66890	49.0		80 - 120
Lead	250.0	ND	252.4	101		80 - 120
Magnesium	5000	18960	22660	74.0		80 - 120
Potassium	5000	3962	8871	98.2		80 - 120
Sodium	5000	41240	44110	57.3		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	66630	43.7	0.395		20	80 - 120
Lead	250.0	246.0	98.4	2.53		20	80 - 120
Magnesium	5000	22540	71.7	0.522		20	80 - 120
Potassium	5000	8813	97.0	0.651		20	80 - 120
Sodium	5000	44470	64.5	0.815		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B15002

% Solids:

Source Sample Name: **1102088-04**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	34.28	1064	103		80 - 120
Manganese (dissolved)	500.0	294.6	792.2	99.5		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	1087	105	2.14		20	80 - 120
Manganese (dissolved)	500.0	811.4	103	2.39		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0026

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1B15002-PS1
Batch: 1B15002
Lab Source ID: 1102088-03
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	68540	64440	5000	81.9	80 - 120
Lead	260.6	ND	250.0	104	80 - 120
Magnesium	23210	18960	5000	85.1	80 - 120
Potassium	9096	3962	5000	103	80 - 120
Sodium	**44980**	**41240**	**5000**	**74.7**	**80 - 120**

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0026

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1B15002-PS2
Batch: 1B15002
Lab Source ID: 1102088-04
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)	1133	34.28	1000	110	80 - 120
Manganese (dissolved)	825.8	294.6	500.0	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15002	Laboratory ID:	1B15002-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	4431	88.6	80 - 120
Iron (dissolved)	1000	1002	100	80 - 120
Lead	250.0	260.0	104	80 - 120
Magnesium	5000	4518	90.4	80 - 120
Manganese (dissolved)	500.0	509.6	102	80 - 120
Potassium	5000	5440	109	80 - 120
Sodium	5000	5690	114	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B17003	Laboratory ID:	1B17003-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Iron (dissolved)	1000	1059	106	80 - 120
Manganese (dissolved)	500.0	531.6	106	80 - 120

SERIAL DILUTION

SW6010B

GW0026

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1B04817
Preparation: MET_3005A

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1B15002-DUP1
Lab Source ID: 1102088-03
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	64441	65350	1.41		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	18956	18628	-1.73		SW6010B	10.00
Potassium	3962.2	ND			SW6010B	10.00
Sodium	41243	39014	-5.41		SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0026

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1B04817
Preparation: MET_3005A

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1B15002-DUP2
Lab Source ID: 1102088-04
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)	34.285	ND			SW6010B	10.00
Manganese (dissolved)	294.65	307.67	4.42		SW6010B	10.00

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_003

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_003

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
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
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
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
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
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
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
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_003

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
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
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
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
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
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
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
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_003

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
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
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
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
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
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
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
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_003

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
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
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
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
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
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
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
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_003

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
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
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
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
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
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
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
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_003

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				
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				
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				
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				
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				
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				
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				
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_003

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
Calcium	15	500000	P
Calcium	15	500000	P
Iron	15	500000	P
Iron	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
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	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
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	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
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B15002 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/15/11 08:15	50.00	50.00
GW0014	1102062-02	02/15/11 08:15	50.00	50.00
GW0028	1102062-03	02/15/11 08:15	50.00	50.00
GW0028	1102062-04	02/15/11 08:15	50.00	50.00
GW0029	1102062-06	02/15/11 08:15	50.00	50.00
GW0028	1102062-07	02/15/11 08:15	50.00	50.00
GW0033	1102063-01	02/15/11 08:15	50.00	50.00
GW0033	1102063-02	02/15/11 08:15	50.00	50.00
GW0025	1102076-01	02/15/11 08:15	50.00	50.00
GW0025	1102076-02	02/15/11 08:15	50.00	50.00
GW0027	1102076-03	02/15/11 08:15	50.00	50.00
GW0027	1102076-04	02/15/11 08:15	50.00	50.00
GW8001-RB	1102076-06	02/15/11 08:15	50.00	50.00
GW8001-RB	1102076-07	02/15/11 08:15	50.00	50.00
GW0023	1102088-01	02/15/11 08:15	50.00	50.00
GW0023	1102088-02	02/15/11 08:15	50.00	50.00
GW0026	1102088-03	02/15/11 08:15	50.00	50.00
GW0026	1102088-04	02/15/11 08:15	50.00	50.00
GW0024	1102097-01	02/15/11 08:15	50.00	50.00
GW0030	1102097-02	02/15/11 08:15	50.00	50.00
Blank	1B15002-BLK1	02/15/11 08:15	50.00	50.00
Blank	1B15002-BLK1	02/15/11 08:15	50.00	50.00
LCS	1B15002-BS1	02/15/11 08:15	50.00	50.00
LCS	1B15002-BS1	02/15/11 08:15	50.00	50.00
GW0026	1B15002-DUP1	02/15/11 08:15	50.00	50.00
GW0026	1B15002-DUP2	02/15/11 08:15	50.00	50.00
GW0026	1B15002-MS1	02/15/11 08:15	50.00	50.00
GW0026	1B15002-MS2	02/15/11 08:15	50.00	50.00
GW0026	1B15002-MSD1	02/15/11 08:15	50.00	50.00
GW0026	1B15002-MSD2	02/15/11 08:15	50.00	50.00
GW0026	1B15002-PS1	02/15/11 08:15	20.00	20.00
GW0026	1B15002-PS2	02/15/11 08:15	20.00	20.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B17003 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0024	1102097-04	02/17/11 08:12	50.00	50.00
GW0030	1102097-05	02/17/11 08:12	50.00	50.00
Blank	1B17003-BLK1	02/17/11 08:13	50.00	50.00
LCS	1B17003-BS1	02/17/11 08:13	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04817	Instrument:	ME-ICP
Calibration:	1049001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B04817-CAL1	021711A-001	02/17/11 09:23
Cal Standard	1B04817-CAL1	021711A-001	02/17/11 09:23
Cal Standard	1B04817-CAL2	021711A-002	02/17/11 09:28
Cal Standard	1B04817-CAL2	021711A-002	02/17/11 09:28
Cal Standard	1B04817-CAL3	021711A-003	02/17/11 09:33
Cal Standard	1B04817-CAL3	021711A-003	02/17/11 09:33
Cal Standard	1B04817-CAL4	021711A-004	02/17/11 09:38
Cal Standard	1B04817-CAL5	021711A-005	02/17/11 09:43
Cal Standard	1B04817-CAL5	021711A-005	02/17/11 09:43
Cal Standard	1B04817-CAL6	021711A-006	02/17/11 09:48
Cal Standard	1B04817-CAL6	021711A-006	02/17/11 09:48
Cal Standard	1B04817-CAL7	021711A-007	02/17/11 09:53
Cal Standard	1B04817-CAL8	021711A-008	02/17/11 09:58
Initial Cal Check	1B04817-ICV1	021711B-001	02/17/11 11:01
Initial Cal Check	1B04817-ICV1	021711B-001	02/17/11 11:01
Initial Cal Blank	1B04817-ICB1	021711B-002	02/17/11 11:08
Initial Cal Blank	1B04817-ICB1	021711B-002	02/17/11 11:08
Instrument RL Check	1B04817-CRL1	021711B-003	02/17/11 11:13
Instrument RL Check	1B04817-CRL1	021711B-003	02/17/11 11:13
Interference Check A	1B04817-IFA1	021711B-006	02/17/11 11:29
Interference Check A	1B04817-IFA1	021711B-006	02/17/11 11:29
Interference Check B	1B04817-IFB1	021711B-007	02/17/11 11:34
Interference Check B	1B04817-IFB1	021711B-007	02/17/11 11:34
Calibration Check	1B04817-CCV1	021711B-009	02/17/11 11:46
Calibration Check	1B04817-CCV1	021711B-009	02/17/11 11:46
Calibration Blank	1B04817-CCB1	021711B-010	02/17/11 11:55
Calibration Blank	1B04817-CCB1	021711B-010	02/17/11 11:55
Calibration Check	1B04817-CCV4	021711C-011	02/17/11 15:12
Calibration Check	1B04817-CCV4	021711C-011	02/17/11 15:12
Calibration Blank	1B04817-CCB4	021711C-012	02/17/11 15:19
Calibration Blank	1B04817-CCB4	021711C-012	02/17/11 15:19
Blank	1B15002-BLK1	021711C-013	02/17/11 15:24

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04817	Instrument:	ME-ICP
Calibration:	1049001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1B15002-BLK1	021711C-013	02/17/11 15:24
LCS	1B15002-BS1	021711C-014	02/17/11 15:28
LCS	1B15002-BS1	021711C-014	02/17/11 15:28
GW0014	1102062-01	021711C-015	02/17/11 15:35
GW0014	1102062-02	021711C-016	02/17/11 15:39
GW0028	1102062-03	021711C-017	02/17/11 15:44
GW0028	1102062-04	021711C-018	02/17/11 15:48
GW0029	1102062-06	021711C-019	02/17/11 15:53
GW0028	1102062-07	021711C-020	02/17/11 15:58
GW0033	1102063-01	021711C-021	02/17/11 16:02
GW0033	1102063-02	021711C-022	02/17/11 16:07
GW0025	1102076-01	021711C-023	02/17/11 16:12
GW0025	1102076-02	021711C-024	02/17/11 16:16
Calibration Check	1B04817-CCV5	021711C-025	02/17/11 16:22
Calibration Check	1B04817-CCV5	021711C-025	02/17/11 16:22
Calibration Blank	1B04817-CCB5	021711C-026	02/17/11 16:29
Calibration Blank	1B04817-CCB5	021711C-026	02/17/11 16:29
GW0027	1102076-03	021711C-027	02/17/11 16:34
GW0027	1102076-04	021711C-028	02/17/11 16:38
GW8001-RB	1102076-06	021711C-029	02/17/11 16:43
GW8001-RB	1102076-07	021711C-030	02/17/11 16:48
GW0023	1102088-01	021711C-031	02/17/11 16:52
GW0023	1102088-02	021711C-032	02/17/11 16:57
GW0026	1102088-03	021711C-033	02/17/11 17:02
GW0026	1B15002-MS1	021711C-034	02/17/11 17:06
GW0026	1B15002-MSD1	021711C-035	02/17/11 17:11
GW0026	1B15002-PS1	021711C-036	02/17/11 17:15
GW0026	1B15002-DUP1	021711C-037	02/17/11 17:21
GW0026	1102088-04	021711C-038	02/17/11 17:25
GW0026	1B15002-MS2	021711C-039	02/17/11 17:30
GW0026	1B15002-MSD2	021711C-040	02/17/11 17:34
GW0026	1B15002-PS2	021711C-041	02/17/11 17:39

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04817	Instrument:	ME-ICP
Calibration:	1049001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0026	1B15002-DUP2	021711C-042	02/17/11 17:44
GW0024	1102097-01	021711C-043	02/17/11 17:49
GW0030	1102097-02	021711C-044	02/17/11 17:53
Calibration Check	1B04817-CCV6	021711C-045	02/17/11 17:59
Calibration Check	1B04817-CCV6	021711C-045	02/17/11 17:59
Calibration Blank	1B04817-CCB6	021711C-046	02/17/11 18:06
Calibration Blank	1B04817-CCB6	021711C-046	02/17/11 18:06

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05405	Instrument:	ME-ICP
Calibration:	1054001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05405-CAL1	022211A-001	02/22/11 09:31
Cal Standard	1B05405-CAL2	022211A-002	02/22/11 09:36
Cal Standard	1B05405-CAL3	022211A-003	02/22/11 09:41
Cal Standard	1B05405-CAL4	022211A-004	02/22/11 09:45
Cal Standard	1B05405-CAL5	022211A-005	02/22/11 09:50
Cal Standard	1B05405-CAL6	022211A-006	02/22/11 09:55
Initial Cal Check	1B05405-ICV1	022211B-001	02/22/11 10:52
Initial Cal Blank	1B05405-ICB1	022211B-002	02/22/11 10:59
Instrument RL Check	1B05405-CRL1	022211B-003	02/22/11 11:04
Interference Check A	1B05405-IFA1	022211B-005	02/22/11 11:14
Interference Check B	1B05405-IFB1	022211B-006	02/22/11 11:19
Calibration Check	1B05405-CCV1	022211B-008	02/22/11 11:31
Calibration Blank	1B05405-CCB1	022211B-009	02/22/11 11:38
Blank	1B17003-BLK1	022211B-010	02/22/11 11:43
LCS	1B17003-BS1	022211B-011	02/22/11 11:47
GW0024	1102097-04	022211B-012	02/22/11 11:54
GW0030	1102097-05	022211B-013	02/22/11 11:59
Calibration Check	1B05405-CCV2	022211C-001	02/22/11 13:40
Calibration Blank	1B05405-CCB2	022211C-002	02/22/11 13:47

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1049001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/17/2011 9:57:09AM

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	2.118E-05	10000	2.1295E-05			500000	0.0000217		
Antimony	0	0	100	0.0009386	1000	9.6945E-04					10000	9.6202E-04
Arsenic	0	0	100	0.0004102	1000	4.3276E-04					10000	4.2446E-04
Barium	0	0	50	0.013577	1000	0.012734	5000	0.0128624				
Beryllium	0	0	100	0.0017999	1000	0.0018329					10000	0.0017638
Boron	0	0	50	0.000011	1000	1.208E-05					5000	1.1856E-05
Cadmium	0	0	100	0.010853	1000	0.010724					10000	0.010037
Calcium	0	0	1100	2.480909E-05	50000	2.5036E-05					10000	
Chromium	0	0	100	0.0000244	1000	0.000024					10000	2.457E-05
Cobalt	0	0	100	0.0062548	1000	0.0061548					10000	0.0062211
Copper	0	0	100	0.0000928	1000	8.697E-05					10000	8.5636E-05
Iron	0	0	5100	9.915686E-06	10000	9.388E-06			500000	9.118E-06	10000	
Lead	0	0	100	0.0013903	1000	0.0013907					10000	0.0013822
Magnesium	0	0	5100		50000	8.192E-07			500000	8.2408E-07	10000	
Manganese	0	0	100	0.0001819	1000	1.7614E-04	10000	0.0001692			10000	
Molybdenum	0	0	100	0.0049424	1000	0.0049779					10000	0.0049152
Nickel	0	0	100	0.0037464	1000	0.0036204					10000	0.0036095
Potassium	0	0	1000	1.337E-05	10000	1.3953E-05						
Selenium	0	0	100	0.0005314	1000	5.3532E-04					10000	5.1736E-04
Silver	0	0	20	0.0000495	500	4.762E-05	2000	4.8155E-05				
Sodium	0	0	1000		50000	5.746E-05						
Strontium	0	0	100	0.001731	1000	0.001736					10000	0.0017
Thallium	0	0	100	0.0008812	1000	9.0502E-04					10000	8.9675E-04
Tin	0	0	50	0.0012772	1000	0.0013072					5000	1.31564E-03
Titanium	0	0	100	0.0001814	1000	1.8095E-04					10000	1.8185E-04
Vanadium	0	0	100	0.0000354	1000	3.485E-05					10000	3.5242E-05
Zinc	0	0	100	0.0042986	1000	0.0042934					10000	0.0042595
Aluminum	0	0	5000	2.118E-05	10000	2.1295E-05			500000	0.0000217		
Antimony	0	0	100	0.0009386	1000	9.6945E-04					10000	9.6202E-04
Arsenic	0	0	100	0.0004102	1000	4.3276E-04					10000	4.2446E-04
Barium	0	0	50	0.013577	1000	0.012734	5000	0.0128624				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1049001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/17/2011 9:57:09AM

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	0.0017999	1000	0.0018329					10000	0.0017638
Boron	0	0	50	0.000011	1000	1.208E-05					5000	1.1856E-05
Cadmium	0	0	100	0.010853	1000	0.010724					10000	0.010037
Calcium	0	0	1100	2.480909E-05	50000	2.5036E-05					10000	
Chromium	0	0	100	0.0000244	1000	0.000024					10000	2.457E-05
Cobalt	0	0	100	0.0062548	1000	0.0061548					10000	0.0062211
Copper	0	0	100	0.0000928	1000	8.697E-05					10000	8.5636E-05
Iron	0	0	5100	9.915686E-06	10000	9.388E-06			500000	9.118E-06	10000	
Lead	0	0	100	0.0013903	1000	0.0013907					10000	0.0013822
Magnesium	0	0	5100		50000	8.192E-07			500000	8.2408E-07	10000	
Manganese	0	0	100	0.0001819	1000	1.7614E-04	10000	0.0001692			10000	
Molybdenum	0	0	100	0.0049424	1000	0.0049779					10000	0.0049152
Nickel	0	0	100	0.0037464	1000	0.0036204					10000	0.0036095
Potassium	0	0	1000	1.337E-05	10000	1.3953E-05						
Selenium	0	0	100	0.0005314	1000	5.3532E-04					10000	5.1736E-04
Silver	0	0	20	0.0000495	500	4.762E-05	2000	4.8155E-05				
Sodium	0	0	1000		50000	5.746E-05						
Strontium	0	0	100	0.001731	1000	0.001736					10000	0.0017
Thallium	0	0	100	0.0008812	1000	9.0502E-04					10000	8.9675E-04
Tin	0	0	50	0.0012772	1000	0.0013072					5000	1.31564E-03
Titanium	0	0	100	0.0001814	1000	1.8095E-04					10000	1.8185E-04
Vanadium	0	0	100	0.0000354	1000	3.485E-05					10000	3.5242E-05
Zinc	0	0	100	0.0042986	1000	0.0042934					10000	0.0042595

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1049001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/17/2011 9:57:09AM

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	2.5168E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	8.372E-07								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3888E-05										
Selenium												
Silver												
Sodium	100000	5.6072E-05	500000	5.563E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1049001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/17/2011 9:57:09AM

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	2.5168E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	8.372E-07								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3888E-05										
Selenium												
Silver												
Sodium	100000	5.6072E-05	500000	5.563E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1049001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/17/2011 9:57:09AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.604375E-05	66.68116	5.37294	190.1334	0.9999999		0.998	
Antimony	7.175175E-04	66.69184	30.24245	197.554	0.9999991		0.998	
Arsenic	3.16855E-04	66.73147	12.91456	197.1221	0.999995		0.998	
Barium	9.79335E-03	66.77413	6.272715	189.761	0.9999943		0.998	
Beryllium	1.34915E-03	66.69947	12.86045	193.1385	0.9999852		0.998	
Boron	8.734E-06	66.87927	18.1073	193.6232	0.9999816		0.998	
Cadmium	0.0079035	66.8205	0.376785	139.4126	0.9999606		0.998	
Calcium	1.875327E-05	66.67136	1.676802	108.6065	0.9999997		0.998	
Chromium	1.82425E-05	66.67953	17.01334	191.3648	0.9999947		0.998	
Cobalt	4.657675E-03	66.67263	4.0789	187.1771	0.9999987		0.998	
Copper	6.63515E-05	66.83131	0.7440775	61.50638	0.9999992		0.998	
Iron	7.105422E-06	66.82949	28.4653	196.79	0.9999994		0.998	
Lead	0.0010408	66.66773	15.79522	192.8194	0.9999996		0.998	
Magnesium	6.2012E-07	66.67793	29.66493	198.5626	0.9999861		0.998	
Manganese	1.3181E-04	66.78294	5.101833	183.8585	0.9999854		0.998	
Molybdenum	3.708875E-03	66.67026	0.7107925	165.9436	0.9999985		0.998	
Nickel	2.744075E-03	66.7051	1.252827	159.0785	1		0.998	
Potassium	1.030275E-05	66.71473	2.24882	150.481	0.9999991		0.998	
Selenium	3.9602E-04	66.69509	9.01856	187.1008	0.9999898		0.998	
Silver	3.631875E-05	66.70222	7.329262	179.1262	0.9999902		0.998	
Sodium	4.22905E-05	66.69215	3.103465	170.6018	0.9999906		0.998	
Strontium	1.29175E-03	66.67806	8.35635	191.0248	0.9999958		0.998	
Thallium	6.707425E-04	66.68292	10.73643	193.5142	0.9999988		0.998	
Tin	9.7501E-04	66.68813	2.91099	185.0118	0.9999988		0.998	
Titanium	1.3605E-04	66.66721	37.26894	197.647	0.9999998		0.998	
Vanadium	2.6373E-05	66.67243	1.997198	147.4983	0.9999986		0.998	
Zinc	3.212875E-03	66.66885	64.13936	198.6418	0.9999994		0.998	
Aluminum	1.604375E-05	66.68116	5.37294	190.1334	0.9999999		0.998	
Antimony	7.175175E-04	66.69184	30.24245	197.554	0.9999991		0.998	
Arsenic	3.16855E-04	66.73147	12.91456	197.1221	0.999995		0.998	
Barium	9.79335E-03	66.77413	6.272715	189.761	0.9999943		0.998	
Beryllium	1.34915E-03	66.69947	12.86045	193.1385	0.9999852		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1049001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/17/2011 9:57:09AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	8.734E-06	66.87927	18.1073	193.6232	0.9999816		0.998	
Cadmium	0.0079035	66.8205	0.376785	139.4126	0.9999606		0.998	
Calcium	1.875327E-05	66.67136	1.676802	108.6065	0.9999997		0.998	
Chromium	1.82425E-05	66.67953	17.01334	191.3648	0.9999947		0.998	
Cobalt	4.657675E-03	66.67263	4.0789	187.1771	0.9999987		0.998	
Copper	6.63515E-05	66.83131	0.7440775	61.50638	0.9999992		0.998	
Iron	7.105422E-06	66.82949	28.4653	196.79	0.9999994		0.998	
Lead	0.0010408	66.66773	15.79522	192.8194	0.9999996		0.998	
Magnesium	6.2012E-07	66.67793	29.66493	198.5626	0.9999861		0.998	
Manganese	1.3181E-04	66.78294	5.101833	183.8585	0.9999854		0.998	
Molybdenum	3.708875E-03	66.67026	0.7107925	165.9436	0.9999985		0.998	
Nickel	2.744075E-03	66.7051	1.252827	159.0785	1		0.998	
Potassium	1.030275E-05	66.71473	2.24882	150.481	0.9999991		0.998	
Selenium	3.9602E-04	66.69509	9.01856	187.1008	0.9999898		0.998	
Silver	3.631875E-05	66.70222	7.329262	179.1262	0.9999902		0.998	
Sodium	4.22905E-05	66.69215	3.103465	170.6018	0.9999906		0.998	
Strontium	1.29175E-03	66.67806	8.35635	191.0248	0.9999958		0.998	
Thallium	6.707425E-04	66.68292	10.73643	193.5142	0.9999988		0.998	
Tin	9.7501E-04	66.68813	2.91099	185.0118	0.9999988		0.998	
Titanium	1.3605E-04	66.66721	37.26894	197.647	0.9999998		0.998	
Vanadium	2.6373E-05	66.67243	1.997198	147.4983	0.9999986		0.998	
Zinc	3.212875E-03	66.66885	64.13936	198.6418	0.9999994		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1054001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/22/2011 1:58:37PM

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	2.0936E-05	10000	2.0945E-05			500000	2.0886E-05		
Antimony	0	0	100	0.0009493	1000	9.7317E-04					10000	9.6889E-04
Arsenic	0	0	100	0.0004266	1000	4.4433E-04					10000	4.4336E-04
Barium	0	0	50	0.0147024	1000	0.013673	5000	0.0138972				
Beryllium	0	0	100	0.0021563	1000	0.0021555					10000	0.0020937
Boron	0	0	50	0.0000122	1000	1.296E-05					5000	1.2708E-05
Cadmium	0	0	100	0.011707	1000	0.011404					10000	0.010877
Calcium	0	0	1100	3.309091E-05	50000	3.2652E-05					10000	
Chromium	0	0	100	0.0000286	1000	0.0000277					10000	2.771E-05
Cobalt	0	0	100	0.006706	1000	0.0065126					10000	0.0066039
Copper	0	0	100	9.340001E-05	1000	8.828E-05					10000	8.5249E-05
Iron	0	0	5100	1.411177E-05	10000	1.3515E-05			500000	1.28774E-05	10000	
Lead	0	0	100	0.0014715	1000	0.0014499					10000	0.0014575
Magnesium	0	0	5100		50000	1.4228E-06			500000	1.46288E-06	10000	
Manganese	0	0	100	0.0002081	1000	2.0026E-04	10000	1.9303E-04			10000	
Molybdenum	0	0	100	0.0052133	1000	0.0052046					10000	0.0052109
Nickel	0	0	100	0.0040138	1000	0.0038366					10000	0.0038855
Potassium	0	0	1000	1.061E-05	10000	1.1344E-05						
Selenium	0	0	100	0.0005402	1000	5.3637E-04					10000	5.2668E-04
Silver	0	0	20	0.000054	500	5.246E-05	2000	5.292E-05				
Sodium	0	0	1000		50000	4.7136E-05						
Strontium	0	0	100	0.001731	1000	0.001699					10000	0.001674
Thallium	0	0	100	9.168999E-04	1000	9.2071E-04					10000	9.2835E-04
Tin	0	0	50	0.001352	1000	0.0013897					5000	1.40946E-03
Titanium	0	0	100	0.0002074	1000	2.0277E-04					10000	2.0456E-04
Vanadium	0	0	100	0.0000399	1000	3.877E-05					10000	3.8639E-05
Zinc	0	0	100	0.0050474	1000	0.0049394					10000	0.0049363

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1054001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/22/2011 1:58:37PM

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	3.2114E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.4509E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.1713E-05										
Selenium												
Silver												
Sodium	100000	4.6046E-05	500000	4.7704E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1054001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/22/2011 1:58:37PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.569175E-05	66.66687	9.706307	186.2867	1		0.998	
Antimony	7.2284E-04	66.68216	14.02068	191.5419	0.9999996		0.998	
Arsenic	3.285725E-04	66.71267	18.29161	190.2191	0.9999997		0.998	
Barium	1.056815E-02	66.79773	3.379915	169.5276	0.9999865		0.998	
Beryllium	1.601375E-03	66.69181	44.19854	197.2036	0.999992		0.998	
Boron	9.467E-06	66.75022	3.571257	173.7979	0.9999818		0.998	
Cadmium	0.008497	66.78872	0.70766	73.98514	0.9999812		0.998	
Calcium	2.446423E-05	66.68665	2.27562	166.0622	0.9999973		0.998	
Chromium	2.10025E-05	66.69693	838.527	199.8245	0.9999999		0.998	
Cobalt	4.955625E-03	66.68572	7.165852	186.3423	0.9999978		0.998	
Copper	6.673225E-05	66.85697	0.68718	97.05396	0.9999918		0.998	
Iron	1.012604E-05	66.85223	21.47803	195.2787	0.9999991		0.998	
Lead	1.094725E-03	66.67168	942.9621	199.8269	0.9999997		0.998	
Magnesium	1.084145E-06	66.68467	49.5769	198.2555	0.9999931		0.998	
Manganese	1.503475E-04	66.7922	9.793872	190.1395	0.999988		0.998	
Molybdenum	0.0039072	66.66673	2.089665	154.3182	1		0.998	
Nickel	2.933975E-03	66.71529	2.29738	162.8652	0.9999977		0.998	
Potassium	8.41675E-06	66.88881	3.650047	145.8417	0.9999943		0.998	
Selenium	4.008125E-04	66.68177	2.13417	125.9017	0.9999976		0.998	
Silver	3.9845E-05	66.68634	7.62192	181.1163	0.9999938		0.998	
Sodium	3.52215E-05	66.69528	4.787288	153.5418	0.9999504		0.998	
Strontium	0.001276	66.69173	3.143	159.4488	0.9999981		0.998	
Thallium	6.9149E-04	66.67022	8.75287	187.958	0.9999996		0.998	
Tin	1.03779E-03	66.70622	7.024355	185.6469	0.9999932		0.998	
Titanium	1.536825E-04	66.6782	1.816037	144.6927	0.9999991		0.998	
Vanadium	2.932725E-05	66.69461	2.359775	149.2912	0.9999999		0.998	
Zinc	3.730775E-03	66.68104	25.45024	196.2803	1		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0014

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-01
Sampled:	02/07/11 11:15	Received:	02/08/11 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	1B18024	02/21/11 10:33
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U N	SM4500S2CF	1B11021	02/11/11 21:02
10-09-3	Alkalinity, Bicarbonate (as CACO3)	141	1.00	1.00	1.00	1		SM2320B	1B09015	02/11/11 21:55
16887-00-6	Chloride	24.8	0.170	0.330	1.00	1	M	E300.0	1B08009	02/08/11 13:21
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B09015	02/11/11 21:55
14797-55-8	Nitrate as N	0.114	0.0330	0.100	0.200	1	J	E300.0	1B08009	02/08/11 13:21
14808-79-8	Sulfate as SO4	39.3	0.330	1.00	2.00	1		E300.0	1B08009	02/08/11 13:21

ANALYSIS DATA SHEET

GW0028

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-03
Sampled:	02/07/11 15:16	Received:	02/08/11 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	1B18024	02/21/11 10:34
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B11021	02/11/11 21:03
10-09-3	Alkalinity, Bicarbonate (as CACO3)	86.2	1.00	1.00	1.00	1		SM2320B	1B09015	02/11/11 22:02
16887-00-6	Chloride	96.8	0.170	0.330	1.00	1	M	E300.0	1B08009	02/08/11 13:39
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B09015	02/11/11 22:02
14797-55-8	Nitrate as N	4.52	0.0330	0.100	0.200	1		E300.0	1B08009	02/08/11 13:39
14808-79-8	Sulfate as SO4	83.9	0.330	1.00	2.00	1		E300.0	1B08009	02/08/11 13:39

ANALYSIS DATA SHEET

GW0029

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-06
Sampled:	02/07/11 15:16	Received:	02/08/11 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	1B18024	02/21/11 10:35
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U N	SM4500S2CF	1B11021	02/11/11 21:04
10-09-3	Alkalinity, Bicarbonate (as CACO3)	86.6	1.00	1.00	1.00	1		SM2320B	1B09015	02/11/11 22:07
16887-00-6	Chloride	96.9	0.170	0.330	1.00	1	M	E300.0	1B08009	02/08/11 13:56
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B09015	02/11/11 22:07
14797-55-8	Nitrate as N	4.52	0.0330	0.100	0.200	1		E300.0	1B08009	02/08/11 13:56
14808-79-8	Sulfate as SO4	84.1	0.330	1.00	2.00	1		E300.0	1B08009	02/08/11 13:56

ANALYSIS DATA SHEET

GW0033

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-01
Sampled:	02/04/11 12:55	Received:	02/08/11 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	1B18024	02/21/11 10:36
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B11021	02/11/11 21:04
10-09-3	Alkalinity, Bicarbonate (as CACO3)	107	1.00	1.00	1.00	1	N	SM2320B	1B09015	02/11/11 22:12
16887-00-6	Chloride	7.67	0.170	0.330	1.00	1	M	E300.0	1B08009	02/08/11 11:54
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	UN	SM2320B	1B09015	02/11/11 22:12
14797-55-8	Nitrate as N	0.115	0.0330	0.100	0.200	1	H3 J	E300.0	1B08009	02/08/11 11:54
14808-79-8	Sulfate as SO4	29.0	0.330	1.00	2.00	1		E300.0	1B08009	02/08/11 11:54

ANALYSIS DATA SHEET

GW0025

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/08/11 12:04
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102076-01
Received: 02/09/11 08:45

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	1B18024	02/21/11 10:37
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B11021	02/11/11 21:05
10-09-3	Alkalinity, Bicarbonate (as CACO3)	110	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 14:53
16887-00-6	Chloride	10.2	0.170	0.330	1.00	1	M	E300.0	1B13003	02/14/11 00:05
13-01-4	Alkalinity, Carbonate (as CACO3)	2.45	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 14:53
14797-55-8	Nitrate as N	0.150	0.0330	0.100	0.200	1	J	E300.0	1B09003	02/09/11 14:45
14808-79-8	Sulfate as SO4	30.2	0.330	1.00	2.00	1		E300.0	1B09003	02/09/11 14:45

ANALYSIS DATA SHEET

GW0027

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/08/11 16:08
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102076-03
Received: 02/09/11 08:45

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	1B18024	02/21/11 10:38
18496-25-8	Sulfide		0.769	1.92	3.85	0.77	U N	SM4500S2CF	1B11021	02/11/11 21:05
10-09-3	Alkalinity, Bicarbonate (as CACO3)	111	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 15:00
16887-00-6	Chloride	12.5	0.170	0.330	1.00	1	M	E300.0	1B13003	02/14/11 02:07
13-01-4	Alkalinity, Carbonate (as CACO3)	4.08	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 15:00
14797-55-8	Nitrate as N	0.140	0.0330	0.100	0.200	1	J	E300.0	1B09003	02/09/11 15:54
14808-79-8	Sulfate as SO4	46.5	0.330	1.00	2.00	1		E300.0	1B09003	02/09/11 15:54

ANALYSIS DATA SHEET

GW0023

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/10/11 14:48
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102088-01
Received: 02/11/11 08:45

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	1B18024	02/21/11 10:39
18496-25-8	Sulfide		0.678	1.69	3.39	0.68	U N	SM4500S2CF	1B11021	02/11/11 21:06
10-09-3	Alkalinity, Bicarbonate (as CACO3)	110	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 15:47
16887-00-6	Chloride	77.8	0.170	0.330	1.00	1	M	E300.0	1B11025	02/11/11 16:23
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B14027	02/15/11 15:47
14797-55-8	Nitrate as N	0.581	0.0330	0.100	0.200	1		E300.0	1B11025	02/11/11 16:23
14808-79-8	Sulfate as SO4	61.9	0.330	1.00	2.00	1		E300.0	1B11025	02/11/11 16:23

ANALYSIS DATA SHEET

GW0026

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-03
Sampled:	02/10/11 10:35	Received:	02/11/11 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	1B18024	02/21/11 10:42
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U N	SM4500S2CF	1B11021	02/11/11 21:07
10-09-3	Alkalinity, Bicarbonate (as CACO3)	203	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 13:06
16887-00-6	Chloride	44.6	0.170	0.330	1.00	1	M	E300.0	1B11025	02/11/11 16:40
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B14027	02/15/11 13:06
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B11025	02/11/11 16:40
14808-79-8	Sulfate as SO4	53.8	0.330	1.00	2.00	1		E300.0	1B11025	02/11/11 16:40

ANALYSIS DATA SHEET

GW0024

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-01
Sampled:	02/09/11 11:48	Received:	02/10/11 11:45
% 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	1B18024	02/21/11 10:44
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U	SM4500S2CF	1B15011	02/15/11 14:01
10-09-3	Alkalinity, Bicarbonate (as CACO3)	132	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 16:09
16887-00-6	Chloride	13.6	0.170	0.330	1.00	1	M	E300.0	1B10003	02/10/11 16:05
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B14027	02/15/11 16:09
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B10003	02/10/11 16:05
14808-79-8	Sulfate as SO4	40.0	0.330	1.00	2.00	1		E300.0	1B10003	02/10/11 16:05

ANALYSIS DATA SHEET

GW0030

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-02
Sampled:	02/09/11 14:52	Received:	02/10/11 11:45
% 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	1B18024	02/21/11 10:45
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U	SM4500S2CF	1B15011	02/15/11 14:01
10-09-3	Alkalinity, Bicarbonate (as CACO3)	133	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 16:20
16887-00-6	Chloride	8.72	0.170	0.330	1.00	1	M	E300.0	1B10003	02/10/11 16:22
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B14027	02/15/11 16:20
14797-55-8	Nitrate as N	0.186	0.0330	0.100	0.200	1	J	E300.0	1B10003	02/10/11 16:22
14808-79-8	Sulfate as SO4	29.4	0.330	1.00	2.00	1		E300.0	1B10003	02/10/11 16:22

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

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

SDG: kirtland_003
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

E300.0

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

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04408

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04408-CCV1	Chloride	25.00	26.66	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.598	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.75	107	mg/L	+/- 10.00%
1B04408-CCV2	Chloride	25.00	26.80	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.620	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.96	108	mg/L	+/- 10.00%
1B04408-CCV3	Nitrate as N	2.500	2.626	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.98	108	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_003
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04604

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04604-CCV1	Chloride	25.00	26.58	106	mg/L	+/- 10.00%
1B04604-CCV2	Chloride	25.00	26.63	107	mg/L	+/- 10.00%
1B04604-CCV3	Chloride	25.00	26.65	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_003
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04607

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04607-CCV1	Chloride	25.00	26.68	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.618	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.72	107	mg/L	+/- 10.00%
1B04607-CCV2	Chloride	25.00	26.48	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.584	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.38	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_003
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%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

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

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04809

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04809-CCV1	Chloride	25.00	26.62	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.586	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.52	106	mg/L	+/- 10.00%
1B04809-CCV2	Chloride	25.00	26.67	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.610	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.59	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_003
Project: Kirtland AFB 2011
Calibration: 1046003
Sequence: 1B05214

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B05214-ICV1	Ammonia as N	2.000	2.190	110	mg/L	+/- 10.00%
1B05214-CCV1	Ammonia as N	2.000	2.160	108	mg/L	+/- 10.00%
1B05214-CCV2	Ammonia as N	2.000	2.156	108	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_003
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B05311

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B05311-CCV1	Chloride	25.00	26.68	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.612	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.78	107	mg/L	+/- 10.00%
1B05311-CCV2	Chloride	25.00	26.54	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.609	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.45	106	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

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_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1B04408

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04408-CRL1	Chloride	1.000	0.9230	92.3	mg/L	75 - 125
	Nitrate as N	0.1000	0.08900	89.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.094	109	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1B04604

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04604-CRL1	Chloride	1.000	0.9410	94.1	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1B04607

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04607-CRL1	Chloride	1.000	0.9330	93.3	mg/L	75 - 125
	Nitrate as N	0.1000	0.09300	93.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.076	108	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1B04809

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04809-CRL1	Chloride	1.000	0.9200	92.0	mg/L	75 - 125
	Nitrate as N	0.1000	0.1020	102	mg/L	75 - 125
	Sulfate as SO4	1.000	1.153	115	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1B05311

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B05311-CRL1	Chloride	1.000	0.9290	92.9	mg/L	75 - 125
	Nitrate as N	0.1000	0.1040	104	mg/L	75 - 125
	Sulfate as SO4	1.000	1.141	114	mg/L	75 - 125

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B08009

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B08009-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
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B09003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B09003-BLK1	Chloride	-0.0380	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
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B09015

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B09015-BLK1	Alkalinity, Total (as CACO3)	0.817	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B10003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B10003-BLK1	Chloride	0.0490	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	0.0990	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B11021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B11021-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B11025

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B11025-BLK1	Chloride	0.0260	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	0.0790	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B13003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B13003-BLK1	Chloride	0.0670	0.170	0.500	mg/L	U	E300.0

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B14027

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B14027-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B15011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B15011-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B18024

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B18024-BLK1	Ammonia as N	-0.0447	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
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
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04408
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04408-CCB1	Chloride	-0.0210	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	0.0870	0.330	2.00	mg/L	U	E300.0
1B04408-CCB2	Chloride	-0.0270	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
1B04408-CCB3	Nitrate as N	0.0180	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.139	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04604
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04604-CCB1	Chloride	0.0490	0.170	0.500	mg/L	U	E300.0
1B04604-CCB2	Chloride	0.0560	0.170	0.500	mg/L	U	E300.0
1B04604-CCB3	Chloride	-0.0200	0.170	0.500	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04607
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04607-CCB1	Chloride	-0.0950	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	0.0920	0.330	2.00	mg/L	U	E300.0
1B04607-CCB2	Chloride	-0.0910	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	0.0910	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
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

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04809
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04809-CCB1	Chloride	-0.00500	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	0.0960	0.330	2.00	mg/L	U	E300.0
1B04809-CCB2	Chloride	0.207	0.170	0.500	mg/L	J	E300.0
	Nitrate as N	0.0150	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.114	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05214
Calibration: 1046003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B05214-ICB1	Ammonia as N	-0.01063	0.110	0.300	mg/L	U	SM4500NH3BG
1B05214-CCB1	Ammonia as N	-0.0143	0.110	0.300	mg/L	U	SM4500NH3BG
1B05214-CCB2	Ammonia as N	-0.0213	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05311
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B05311-CCB1	Chloride	0.0340	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	0.0810	0.330	2.00	mg/L	U	E300.0
1B05311-CCB2	Chloride	0.0600	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	0.0830	0.330	2.00	mg/L	U	E300.0

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0025

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B09003

% Solids:

Source Sample Name: **1102076-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrate as N	2.778	0.1500	3.071	105		80 - 120
Sulfate as SO4	27.78	30.16	58.94	104		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate as N	2.778	3.072	105	0.0362		20	80 - 120
Sulfate as SO4	27.78	59.02	104	0.124		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0033

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B09015

% Solids:

Source Sample Name: **1102063-01**

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	107.4	248.1	127	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	247.6	126	0.203	N	20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500S2CF

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B11021

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfide	1307	ND	792.7	60.7	N	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1307	792.7	60.7	0.00	N	20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B11025

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	44.58	74.19	107		80 - 120
Nitrate as N	2.778	ND	2.912	105		80 - 120
Sulfate as SO4	27.78	53.84	82.77	104		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	74.22	107	0.0344		20	80 - 120
Nitrate as N	2.778	2.920	105	0.267		20	80 - 120
Sulfate as SO4	27.78	82.79	104	0.0336		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0025

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B13003

% Solids:

Source Sample Name: **1102076-01RE1**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	10.25	40.27	108		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	40.46	109	0.468		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B14027

% Solids:

Source Sample Name: **1102088-03**

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	203.4	311.8	97.5		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	310.5	96.3	0.438		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B18024

% Solids:

Source Sample Name: **1102088-03**

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	4.594	91.9		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Ammonia as N	5.000	4.216	84.3	8.58		20	75 - 125

GW0025

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1B09003
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0025

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1B09003-DUP1
Lab Source ID: 1102076-01
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Nitrate as N	20	0.150 J	0.200 J	1.34		E300.0
Sulfate as SO4	20	30.2	30.08	0.259		E300.0

GW0026

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1B11025
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0026

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1B11025-DUP1
Lab Source ID: 1102088-03
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	44.6	44.70	0.271		E300.0
Nitrate as N	20	0.200 U	0.200 U			E300.0
Sulfate as SO4	20	53.8	53.96	0.217		E300.0

GW0025

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1B13003
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0025

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1B13003-DUP1
Lab Source ID: 1102076-01RE1
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	10.2	10.26	0.0878		E300.0

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B08009	Laboratory ID:	1B08009-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	5.232	109	90 - 110
Nitrate as N	3.616	3.759	104	90 - 110
Sulfate as SO4	24.00	25.78	107	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B09003	Laboratory ID:	1B09003-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	5.211	109	90 - 110
Nitrate as N	3.616	3.745	104	90 - 110
Sulfate as SO4	24.00	25.83	108	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B09015	Laboratory ID:	1B09015-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	1060	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B10003	Laboratory ID:	1B10003-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	5.259	110	90 - 110
Nitrate as N	3.616	3.749	104	90 - 110
Sulfate as SO4	24.00	25.68	107	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11021	Laboratory ID:	1B11021-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1307	1133	86.7	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11025	Laboratory ID:	1B11025-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	5.272	110	90 - 110
Nitrate as N	3.616	3.760	104	90 - 110
Sulfate as SO4	24.00	25.74	107	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B13003	Laboratory ID:	1B13003-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	5.294	110	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B14027	Laboratory ID:	1B14027-BS1
Preparation:	pNone	Initial/Final:	25 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	200.0	208.3	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15011	Laboratory ID:	1B15011-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1307	1067	81.6	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1307	1050	80.4	1.57	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18024	Laboratory ID:	1B18024-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	4.477	89.5	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_003

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_003

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_003
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_003

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

Batch: 1B08009 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/08/11 10:44	5.00	5.00
GW0014	1102062-01	02/08/11 10:44	5.00	5.00
GW0028	1102062-03	02/08/11 10:44	5.00	5.00
GW0028	1102062-03	02/08/11 10:44	5.00	5.00
GW0029	1102062-06	02/08/11 10:44	5.00	5.00
GW0029	1102062-06	02/08/11 10:44	5.00	5.00
GW0033	1102063-01	02/08/11 10:44	5.00	5.00
GW0033	1102063-01	02/08/11 10:44	5.00	5.00
Blank	1B08009-BLK1	02/08/11 10:44	5.00	5.00
LCS	1B08009-BS1	02/08/11 10:44	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B09003 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0025	1102076-01	02/09/11 10:09	5.00	5.00
GW0025	1102076-01	02/09/11 10:09	5.00	5.00
GW0027	1102076-03	02/09/11 10:09	5.00	5.00
GW0027	1102076-03	02/09/11 10:09	5.00	5.00
Blank	1B09003-BLK1	02/09/11 10:09	5.00	5.00
LCS	1B09003-BS1	02/09/11 10:09	5.00	5.00
GW0025	1B09003-DUP1	02/09/11 10:09	5.00	5.00
GW0025	1B09003-MS1	02/09/11 10:09	22.50	25.00
GW0025	1B09003-MSD1	02/09/11 10:09	22.50	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B09015 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/09/11 16:23	25.00	25.00
GW0028	1102062-03	02/09/11 16:23	25.00	25.00
GW0029	1102062-06	02/09/11 16:23	25.00	25.00
GW0033	1102063-01	02/09/11 16:23	25.00	25.00
Blank	1B09015-BLK1	02/09/11 16:23	25.00	25.00
LCS	1B09015-BS1	02/09/11 16:23	5.00	25.00
GW0033	1B09015-MS1	02/09/11 16:23	22.50	25.00
GW0033	1B09015-MSD1	02/09/11 16:23	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B10003 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0024	1102097-01	02/10/11 14:00	5.00	5.00
GW0030	1102097-02	02/10/11 14:00	5.00	5.00
Blank	1B10003-BLK1	02/10/11 14:00	5.00	5.00
LCS	1B10003-BS1	02/10/11 14:00	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B11021 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/11/11 12:52	290.00	200.00
GW0028	1102062-03	02/11/11 12:52	270.00	200.00
GW0029	1102062-06	02/11/11 12:52	290.00	200.00
GW0033	1102063-01	02/11/11 12:52	270.00	200.00
GW0025	1102076-01	02/11/11 12:52	270.00	200.00
GW0027	1102076-03	02/11/11 12:52	260.00	200.00
GW0023	1102088-01	02/11/11 12:52	295.00	200.00
GW0026	1102088-03	02/11/11 12:52	290.00	200.00
Blank	1B11021-BLK1	02/11/11 12:52	250.00	200.00
LCS	1B11021-BS1	02/11/11 12:52	3.00	250.00
GW0026	1B11021-MS1	02/11/11 12:52	3.00	290.00
GW0026	1B11021-MSD1	02/11/11 12:52	3.00	290.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B11025 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0023	1102088-01	02/11/11 13:29	5.00	5.00
GW0023	1102088-01	02/11/11 13:29	5.00	5.00
GW0026	1102088-03	02/11/11 13:29	5.00	5.00
GW0026	1102088-03	02/11/11 13:29	5.00	5.00
Blank	1B11025-BLK1	02/11/11 13:29	5.00	5.00
LCS	1B11025-BS1	02/11/11 13:29	5.00	5.00
GW0026	1B11025-DUP1	02/11/11 13:29	5.00	5.00
GW0026	1B11025-MS1	02/11/11 13:29	22.50	25.00
GW0026	1B11025-MSD1	02/11/11 13:29	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B13003 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0025	1102076-01RE1	02/13/11 21:30	5.00	5.00
GW0027	1102076-03RE1	02/13/11 21:30	5.00	5.00
Blank	1B13003-BLK1	02/13/11 21:30	5.00	5.00
LCS	1B13003-BS1	02/13/11 21:30	5.00	5.00
GW0025	1B13003-DUP1	02/13/11 21:30	5.00	5.00
GW0025	1B13003-MS1	02/13/11 21:30	22.50	25.00
GW0025	1B13003-MSD1	02/13/11 21:30	22.50	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B14027 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0025	1102076-01	02/15/11 08:00	25.00	25.00
GW0027	1102076-03	02/15/11 08:00	25.00	25.00
GW0023	1102088-01	02/15/11 08:00	25.00	25.00
GW0026	1102088-03	02/15/11 08:00	25.00	25.00
GW0024	1102097-01	02/15/11 08:00	25.00	25.00
GW0030	1102097-02	02/15/11 08:00	25.00	25.00
Blank	1B14027-BLK1	02/15/11 08:00	25.00	25.00
LCS	1B14027-BS1	02/15/11 08:00	25.00	25.00
GW0026	1B14027-MS1	02/15/11 08:00	22.50	25.00
GW0026	1B14027-MSD1	02/15/11 08:00	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B15011 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0024	1102097-01	02/15/11 12:40	270.00	200.00
GW0030	1102097-02	02/15/11 12:40	270.00	200.00
Blank	1B15011-BLK1	02/15/11 12:40	250.00	200.00
LCS	1B15011-BS1	02/15/11 12:40	3.00	250.00
LCS Dup	1B15011-BSD1	02/15/11 12:40	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

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

Batch: 1B18024 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/18/11 16:49	100.00	100.00
GW0028	1102062-03	02/18/11 16:49	100.00	100.00
GW0029	1102062-06	02/18/11 16:49	100.00	100.00
GW0033	1102063-01	02/18/11 16:49	100.00	100.00
GW0025	1102076-01	02/18/11 16:49	100.00	100.00
GW0027	1102076-03	02/18/11 16:49	100.00	100.00
GW0023	1102088-01	02/18/11 16:49	100.00	100.00
GW0026	1102088-03	02/18/11 16:49	100.00	100.00
GW0024	1102097-01	02/18/11 16:49	100.00	100.00
GW0030	1102097-02	02/18/11 16:49	100.00	100.00
Blank	1B18024-BLK1	02/18/11 16:49	100.00	100.00
LCS	1B18024-BS1	02/18/11 16:49	100.00	100.00
GW0026	1B18024-MS1	02/18/11 16:49	100.00	100.00
GW0026	1B18024-MSD1	02/18/11 16:49	100.00	100.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1B09015-BS1	021011-003	02/11/11 20:35
Blank	1B09015-BLK1	021011-004	02/11/11 20:48
GW0033	1B09015-MS1	021011-020	02/11/11 22:19
GW0033	1B09015-MSD1	021011-021	02/11/11 22:30
Blank	1B14027-BLK1	021511-004	02/15/11 12:10
GW0026	1B14027-MS1	021511-016	02/15/11 13:17
LCS	1B14027-BS1	021511-003	02/15/11 13:35
GW0026	1B14027-MSD1	021511-017	02/15/11 13:46

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1B11021-BLK1	021111-003	02/11/11 21:02
LCS	1B11021-BS1	021111-002	02/11/11 21:08
GW0026	1B11021-MSD1	021111-013	02/11/11 21:10
GW0026	1B11021-MS1	021111-012	02/11/11 21:10
Blank	1B15011-BLK1	021511-004	02/15/11 14:00
LCS Dup	1B15011-BSD1	021511-003	02/15/11 14:09
LCS	1B15011-BS1	021511-002	02/15/11 14:09

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
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

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04408	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04408-CCV1	020911-002	02/09/11 10:41
Calibration Blank	1B04408-CCB1	020911-003	02/09/11 10:58
Instrument RL Check	1B04408-CRL1	020911-004	02/09/11 11:16
LCS	1B09003-BS1	020911-005	02/09/11 11:33
Blank	1B09003-BLK1	020911-006	02/09/11 11:50
Calibration Check	1B04408-CCV2	020911-012	02/09/11 13:35
Calibration Blank	1B04408-CCB2	020911-013	02/09/11 13:52
GW0025	1102076-01	020911-016	02/09/11 14:45
GW0025	1B09003-MS1	020911-017	02/09/11 15:02
GW0025	1B09003-MSD1	020911-018	02/09/11 15:19
GW0025	1B09003-DUP1	020911-019	02/09/11 15:37
GW0027	1102076-03	020911-020	02/09/11 15:54
Calibration Check	1B04408-CCV3	020911-024	02/09/11 17:04
Calibration Blank	1B04408-CCB3	020911-025	02/09/11 17:21

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04604	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04604-CCV1	021311-002	02/13/11 21:46
Calibration Blank	1B04604-CCB1	021311-003	02/13/11 22:03
Instrument RL Check	1B04604-CRL1	021311-004	02/13/11 22:20
LCS	1B13003-BS1	021311-005	02/13/11 22:38
Blank	1B13003-BLK1	021311-006	02/13/11 22:55
GW0025	1102076-01RE1	021311-010	02/14/11 00:05
GW0025	1B13003-MS1	021311-011	02/14/11 00:22
GW0025	1B13003-MSD1	021311-012	02/14/11 00:40
GW0025	1B13003-DUP1	021311-013	02/14/11 00:57
Calibration Check	1B04604-CCV2	021311-014	02/14/11 01:15
Calibration Blank	1B04604-CCB2	021311-015	02/14/11 01:32
GW0027	1102076-03RE1	021311-017	02/14/11 02:07
Calibration Check	1B04604-CCV3	021311-020	02/14/11 02:59
Calibration Blank	1B04604-CCB3	021311-021	02/14/11 03:16

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04607	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04607-CCV1	020811-002	02/08/11 11:20
Calibration Blank	1B04607-CCB1	020811-003	02/08/11 11:37
GW0033	1102063-01	020811-004	02/08/11 11:54
Instrument RL Check	1B04607-CRL1	020811-005	02/08/11 12:12
LCS	1B08009-BS1	020811-006	02/08/11 12:29
Blank	1B08009-BLK1	020811-007	02/08/11 12:47
GW0014	1102062-01	020811-009	02/08/11 13:21
GW0028	1102062-03	020811-010	02/08/11 13:39
GW0029	1102062-06	020811-011	02/08/11 13:56
Calibration Check	1B04607-CCV2	020811-012	02/08/11 14:14
Calibration Blank	1B04607-CCB2	020811-013	02/08/11 14:31

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
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

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04809	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04809-CCV1	021011-002	02/10/11 14:03
Calibration Blank	1B04809-CCB1	021011-003	02/10/11 14:21
Instrument RL Check	1B04809-CRL1	021011-004	02/10/11 14:38
LCS	1B10003-BS1	021011-005	02/10/11 14:55
Blank	1B10003-BLK1	021011-006	02/10/11 15:13
GW0024	1102097-01	021011-009	02/10/11 16:05
GW0030	1102097-02	021011-010	02/10/11 16:22
Calibration Check	1B04809-CCV2	021011-013	02/10/11 17:15
Calibration Blank	1B04809-CCB2	021011-014	02/10/11 17:32

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05214	Instrument:	WC-Lachat
Calibration:	1046003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05214-CAL1	M_2-21-2011_10-17-54AM-00	02/21/11 10:19
Cal Standard	1B05214-CAL2	M_2-21-2011_10-17-54AM-00	02/21/11 10:20
Cal Standard	1B05214-CAL3	M_2-21-2011_10-17-54AM-00	02/21/11 10:21
Cal Standard	1B05214-CAL4	M_2-21-2011_10-17-54AM-00	02/21/11 10:22
Cal Standard	1B05214-CAL5	M_2-21-2011_10-17-54AM-00	02/21/11 10:23
Cal Standard	1B05214-CAL6	M_2-21-2011_10-17-54AM-00	02/21/11 10:24
Cal Standard	1B05214-CAL7	M_2-21-2011_10-17-54AM-00	02/21/11 10:24
Cal Standard	1B05214-CAL8	M_2-21-2011_10-17-54AM-00	02/21/11 10:25
Initial Cal Check	1B05214-ICV1	M_2-21-2011_10-17-54AM-00	02/21/11 10:26
Initial Cal Blank	1B05214-ICB1	M_2-21-2011_10-17-54AM-01	02/21/11 10:27
Blank	1B18024-BLK1	M_2-21-2011_10-17-54AM-01	02/21/11 10:28
LCS	1B18024-BS1	M_2-21-2011_10-17-54AM-01	02/21/11 10:29
GW0014	1102062-01	M_2-21-2011_10-17-54AM-01	02/21/11 10:33
GW0028	1102062-03	M_2-21-2011_10-17-54AM-01	02/21/11 10:34
GW0029	1102062-06	M_2-21-2011_10-17-54AM-01	02/21/11 10:35
GW0033	1102063-01	M_2-21-2011_10-17-54AM-01	02/21/11 10:36
GW0025	1102076-01	M_2-21-2011_10-17-54AM-02	02/21/11 10:37
GW0027	1102076-03	M_2-21-2011_10-17-54AM-02	02/21/11 10:38
GW0023	1102088-01	M_2-21-2011_10-17-54AM-02	02/21/11 10:39
Calibration Check	1B05214-CCV1	M_2-21-2011_10-17-54AM-02	02/21/11 10:40
Calibration Blank	1B05214-CCB1	M_2-21-2011_10-17-54AM-02	02/21/11 10:41
GW0026	1102088-03	M_2-21-2011_10-17-54AM-02	02/21/11 10:42
GW0026	1B18024-MS1	M_2-21-2011_10-17-54AM-02	02/21/11 10:43
GW0024	1102097-01	M_2-21-2011_10-17-54AM-02	02/21/11 10:44
GW0026	1B18024-MSD1	M_2-21-2011_10-17-54AM-02	02/21/11 10:44
GW0030	1102097-02	M_2-21-2011_10-17-54AM-02	02/21/11 10:45
Calibration Check	1B05214-CCV2	M_2-21-2011_10-17-54AM-03	02/21/11 10:48
Calibration Blank	1B05214-CCB2	M_2-21-2011_10-17-54AM-03	02/21/11 10:49

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05311	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05311-CCV1	021111-002	02/11/11 14:55
Calibration Blank	1B05311-CCB1	021111-003	02/11/11 15:13
Instrument RL Check	1B05311-CRL1	021111-004	02/11/11 15:30
LCS	1B11025-BS1	021111-005	02/11/11 15:48
Blank	1B11025-BLK1	021111-006	02/11/11 16:05
GW0023	1102088-01	021111-007	02/11/11 16:23
GW0026	1102088-03	021111-008	02/11/11 16:40
GW0026	1B11025-MS1	021111-009	02/11/11 16:57
GW0026	1B11025-MSD1	021111-010	02/11/11 17:15
GW0026	1B11025-DUP1	021111-011	02/11/11 17:32
Calibration Check	1B05311-CCV2	021111-014	02/11/11 18:24
Calibration Blank	1B05311-CCB2	021111-015	02/11/11 18:42