ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_017

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

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Total # of Pages: 591

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.

Table of Contents

#	Description	Page No.
1	Cover Page	1
2	Table of Contents	2
3	Case Narrative	3
4	Sample Receipt Information Chain of Custody Forms Sample Receipt Confirmations WorkOrder Summary Sample Delivery Group (SDG) Sheets	11
5	Data for SW8260B Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	40
6	Data for SW8270C BNA Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	171
7	Data for SW8015B GRO Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	309
8	Data for SW8015B DRO Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	344
9	Data for SW8011 EDB Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	385
10	Data for SW6010B Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	439
11	Data for Wet Chemistry Required Data / QAQC / Calibration Forms Supporting Raw Data / Logs	497

Sample Delivery Group Case Narrative

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

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

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

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

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

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

SW8260B:
The method blanks 1F07010-BLK1, 1F21001-BLK1, 1F22004-BLK1, and 1F23023-BLK1 have a positive result for Hexachlorobutadiene while the method blank 1F22004-BLK1 has a positive result for 1,2,3-Trichlorobenzene.

The batch spikes associated to batch 1F21001 exceeded criteria with a negative bias for 1,2,3-Trichloropropane. The batch spike duplicate associated to batch 1F32023 exceeded criteria with a positive bias for Bromodichloromethane.

The matrix spikes associated to sample 1106155-01 exceeded criteria with a negative

bias for 1,2,3-Trichloropropane.

The continuing calibration verifications exceeded criteria in 1F17105-CCV1 with a negative bias for Acetone, 2-Butanone, 1,2-Dibromo-3-chloropropane, Naphthalene, 1,2,3-Trichloropropane, and 4-Methyl-2-pentanone and with a positive bias for Chloroethane, in 1F17211-CCV1 with a negative bias for Acetone, 2-Butanone, 1,2-Dibromo-3-chloropropane, Naphthalene, 1,1,2,2-Tetrachloroethane, and 4-Methyl-2-pentanone and with a positive bias for Chloroethane and 2,2-Dichloropropane, in 1F17406-CCV1 with a negative bias for Acetone, 2-Butanone, 1,2-Dibromo-3-chloropropane, Naphthalene, 1,1,2,2-Tetrachloroethane, and 4-Methyl-2-pentanone and with a positive bias for Chloroethane, 2,2-Dichloropropane, and Toluene-d8, and in 1F17503-CCV1 with a negative bias for 2-Butanone, Naphthalene, 4-Methyl-2-pentanone, and 1,1,2,2-Tetrachloroethane and with a positive bias for Chloroethane.

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

SW8270C BNA:
The surrogate Terphenyl-d14 exceeded criteria with a negative bias in 1106155-01, 1F15936-MS1, and –MSD1. The surrogate Phenol-d6 exceeded criteria with a positive bias in 1106188-01. The surrogates were diluted out in samples 1106155-01RE1, 1106179-01RE1, and 1106188-01RE1.

The batch spikes associated to batch 1F22013 exceeded criteria with a negative bias for Caprolactam and N-nitrosodiphenylamine. The batch spike associated to batch 1F15936 exceeded criteria with a negative bias for Caprolactam.

The matrix spikes associated to sample 1106155-01 exceeded recovery criteria with a positive bias for Acetophenone, Benzoic Acid, Nitrobenzene, and Caprolactam, exceeded recovery criteria with a negative bias for Atrazine, 3,3'-Dichlorobenzidine, Isophorone, and 3-Methylphenol/4-Methylphenol, and exceeded relative percent difference criteria for Caprolactam, 3,3'-Dichlorobenzidine, Nitrobenzene, Benzaldehyde, Benzo(g,h,i)perylene, Bis(2-chloroethoxy)methane, Dibenz(a,h)anthracene, and Indeno(1,2,3-cd)pyrene.

The initial calibration verification 1E12203-ICV3 exceeded criteria with a positive bias for 2,4-Dinitrophenol.

The continuing calibration verifications exceeded criteria in 1F17308-CCV1 with a negative bias for Benzaldehyde and with a positive bias for Benzo(b)fluoranthene, 2-Chloronaphthalene, 3,3'-Dichlorobenzidine, 2,4-Dinitrophenol, and Hexachlorocylopentadiene, in 1F17506-CCV1 with a negative bias for Benzaldehyde and with a positive bias for Benzidine, Benzo(b)fluoranthene, 2-Chloronaphthalene, and 3,3'-Dichlorobenzidine, in 1F17603-CCV1 with a negative bias for Benzaldehyde and with a positive bias for Benzo(b)fluoranthene, 2-Chloronaphthalene, 3,3'-Dichlorobenzidine, 2,4-Dinitrophenol, Di-n-octylphthalate, 2-Nitroaniline, and

4-Nitrophenol, in 1F18005-CCV1 with a positive bias for Benzidine, 3,3'-Dichlorobenzidine, 2,4-Dinitrophenol, and 4-Nitrophenol, in 1F18113-CCV1 with a positive bias for Benzo(b)fluoranthene, 2-Chloronaphthalene, 3,3'-Dichlorobenzidine, 2,4-Dinitrophenol, Di-n-octylphthalate, and 4-Nitrophenol, in 1G18304-CCV1 with a positive bias for Benzidine, Benzo(b)fluoranthene, 2-Chloronaphthalene, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, Hexachlorocyclopentadiene, and 4-Nitrophenol, in 1G18605-CCV1 with a positive bias for Benzo(b)fluoranthene, 2-Chloronaphthalene, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and 4-Nitrophenol, in 1G18908-CCV1 with a positive bias for Benzo(b)fluoranthene, Benzo(g,h,i)perylene, 2-Chloronaphthalene, Dibenz(a,h)anthracene, 3,3'-Dichlorobenzidine, 2,4-Dinitrophenol, and Indeno(1,2,3-cd)pyrene and with a negative bias for 4-Nitroaniline, and in 1G19005-CCV1 with a positive bias for Benzidine, Benzo(b)fluoranthene, 2-Chloronaphthalene, 3,3'-Dichlorobenzidine, 2,4-Dinitrophenol, 2-Nitroaniline, 4-Nitrophenol, and Phenol.

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

SW8015B GRO:
The continuing calibration verifications 1G17909-CCV2 and –CCV3 exceeded criteria with a positive bias for Gasoline Range Organics and with a negative bias for Bromofluorobenzene. Due to a negative instrument bias evident in the calibration verification standards, recovery of the surrogate Bromofluorobenzene exceeded recovery limits with a negative bias in sample 1106203-01. Recoveries of GRO in the BS/BSD confirm the surrogate bias was not an indication of instrument sensitivity for GRO. Correcting the surrogate recovery for the CCV bias, recovery is within limits. The continuing calibration verifications 1F18004-CCV1 and –CCV2 exceeded criteria with a positive bias for Bromofluorobenzene. Due to a positive instrument bias evident in the calibration verification standards, recovery of the surrogate Bromofluorobenzene exceeded recovery limits with a positive bias in the method blank 1F24019-BLK1 and sample 1106188-01. Correcting the surrogate recoveries for the CCV bias, recoveries are within limits.

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

SW8015B DRO:
The continuing calibration verifications 1F17813-CCV1, -CCV2, 1F17906-CCV1, and -CCV2 exceeded criteria with a positive bias for o-Terphenyl.

The surrogate o-Terphenyl was diluted out in sample 1106155-01 and 1106188-01 and exceeded criteria with a positive bias in 1F15933-MS1 and –MSD1.

The batch spike duplicate 1F21030-BSD1 exceeded recovery criteria with a negative bias for Diesel Range Organics.

The matrix spikes associated to sample 1106155-01 exceeded recovery criteria;

however, the parent sample concentration is greater than 4 times the amount spiked therefore, the spikes should be considered duplicates.

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

SW8011 EDB:
The matrix spikes associated to sample 1106155-01 exceeded recovery criteria; however, the parent sample concentration is greater than 4 times the amount spiked therefore, the spikes should be considered duplicates.

No additional anomalies or deviations are noted.

SW6010B:
The post spike associated to sample 1106155-01 exceeded criteria with a negative bias for Calcium. The serial dilution for sample 1106155-02 exceeded criteria for Manganese (dissolved).

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

Wet Chemistry:
Samples 1106179-01, 1106188-01, 1106195-01, and 116203-01 are qualified with an M for Chloride to indicate that the LOQ was raised to 1.0mg/L which is the level of the RL standard within criteria. Sample 1106155-01 is qualified with an M for Chloride to indicate that the LOQ was raised to 2.0mg/L which is the level of the RL standard within criteria. Samples 1106155-01, 1106179-01, 1106195-01, and 1106203-01 are qualified with an M for Sulfate to indicate that the LOQ was raised to 2.5mg/L which is the level of the RL standard within criteria.

Sample 1106195-01 was analyzed after the method recommended holding time for Nitrate as N.

The matrix spikes associated to sample 1106155-01 exceeded recovery criteria with a negative bias for Sulfide and with a positive bias for Ammonia.

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.

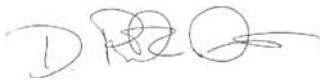
BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible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

ORGANIC CALCULATIONS

GC/MS Volatiles

$$\text{Final Concentration} = \frac{\text{On-column(ug/L or ug/Kg) * Expected Vol/Weight (mL or g) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

Note - Expected Vol/Weight value is found in "Final Vol" column of Preparation Batch Summary.

GC/MS Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/uL) * Final Vol (ml) * Dilution *(1000uL/mL)}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

GC or LC Extractables

$$\text{Final Concentration} = \frac{\text{On-column(ng/mL) * Final Vol (mL) * Dilution}}{\text{Initial Vol/Weight (mL or g) * (Percent Solids/100) (if applicable)}}$$

= ng/mL or ng/g

= ug/L or ug/kg

Sample Receipt Information

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW061

12

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

Samples Shipment Date: 13 JUN 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/875889884700

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) [signature] Shaw Date: 6-13-11 Time: 14:45
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) [signature] 3.5°C Date: 6-14-11 Time: 09:00

Comments:
155
110 ~~6045~~ 6-14-11

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0046	KAFB1066-GW-GW0046-REG	13 JUN 2011	12:38	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0046	KAFB1066-GW-GW0046-REG	13 JUN 2011	12:38	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0046	KAFB1066-GW-GW0046-REG	13 JUN 2011	12:38	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0046	KAFB1066-GW-GW0046-REG	13 JUN 2011	12:38	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0046	KAFB1066-GW-GW0046-REG	13 JUN 2011	12:38	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02 GW0046	KAFB1066-GW-GW0046-REG	13 JUN 2011	12:38	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		

Kirtland_017 Summ Package

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW061

1106845155 CP 6-14-11

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0046	KAFB1066-GW-GW0046-REG	13 JUN 2011	12:38	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0046	KAFB1066-GW-GW0046-REG	13 JUN 2011	12:38	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0046	KAFB1066-GW-GW0046-REG	13 JUN 2011	12:38	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0046	KAFB1066-GW-GW0046-REG	13 JUN 2011	12:38	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-02	GW0046	KAFB1066-GW-GW0046-REG	13 JUN 2011	12:38	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01	GW0046-MS	KAFB1066-GW-GW0046-MS-MS	13 JUN 2011	12:38	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0046-MS	KAFB1066-GW-GW0046-MS-MS	13 JUN 2011	12:38	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0046-MS	KAFB1066-GW-GW0046-MS-MS	13 JUN 2011	12:38	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0046-MS	KAFB1066-GW-GW0046-MS-MS	13 JUN 2011	12:38	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02	GW0046-MS	KAFB1066-GW-GW0046-MS-MS	13 JUN 2011	12:38	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01	GW0046-MS	KAFB1066-GW-GW0046-MS-MS	13 JUN 2011	12:38	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-02	GW0046-MS	KAFB1066-GW-GW0046-MS-MS	13 JUN 2011	12:38	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0046-MS	KAFB1066-GW-GW0046-MS-MS	13 JUN 2011	12:38	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0046-MS	KAFB1066-GW-GW0046-MS-MS	13 JUN 2011	12:38	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0046-MS	KAFB1066-GW-GW0046-MS-MS	13 JUN 2011	12:38	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0046-MS	KAFB1066-GW-GW0046-MS-MS	13 JUN 2011	12:38	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0046-MSD	KAFB1066-GW-GW0046-MSD-MSD	13 JUN 2011	12:38	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0046-MSD	KAFB1066-GW-GW0046-MSD-MSD	13 JUN 2011	12:38	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0046-MSD	KAFB1066-GW-GW0046-MSD-MSD	13 JUN 2011	12:38	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0046-MSD	KAFB1066-GW-GW0046-MSD-MSD	13 JUN 2011	12:38	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0046-MSD	KAFB1066-GW-GW0046-MSD-MSD	13 JUN 2011	12:38	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-02	GW0046-MSD	KAFB1066-GW-GW0046-MSD-MSD	13 JUN 2011	12:38	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01	GW0046-MSD	KAFB1066-GW-GW0046-MSD-MSD	13 JUN 2011	12:38	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0046-MSD	KAFB1066-GW-GW0046-MSD-MSD	13 JUN 2011	12:38	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0046-MSD	KAFB1066-GW-GW0046-MSD-MSD	13 JUN 2011	12:38	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0046-MSD	KAFB1066-GW-GW0046-MSD-MSD	13 JUN 2011	12:38	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0046-MSD	KAFB1066-GW-GW0046-MSD-MSD	13 JUN 2011	12:38	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
-03	GW8061-TB	FIELDQC-BW-GW8061-TB-TB	13 JUN 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1106155 Number of Coolers: 1 of 2

Client: Shaw E&I Project: Kirtland AFB

Date/Time Received: 6-14-11/09:00 Date cooler(s) opened: 6-14-11

Opened By (print): Chris Donald (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: 4700

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

How many: 1 Seal date: 6-13-11 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: 2.1 °C Correction Factor: +1.4 °C Final Value: 3.5 °C

Dates samples were logged-in: 6-14-11

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

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

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1106155 Number of Coolers: 2 of 2

Client: Shaw E&I Project: Kirtland AFB

Date/Time Received: 6-14-11/09:00 Date cooler(s) opened: 6-14-11

Opened By (print): Chris Ponch (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: 0926

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

How many: 1 Seal date: 6-13-11 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: 2.6 °C Correction Factor: +1.4 °C Final Value: 4.0 °C

Dates samples were logged-in: 6-14-11

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: _____

See 1 of 2

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW062

16

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

Samples Shipment Date: 15 JUN 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/875889884711

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 ✓ Archive (mos.)

1. Relinquished By (Signature/Affiliation) [signature] Date: 6/15/11 Time: 1358
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) [signature] Date: 6.16.11 Time: 0900

Comments:

1106179

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0082	KAFB10659-GW-GW0082-REG	15 JUN 2011	12:06	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0082	KAFB10659-GW-GW0082-REG	15 JUN 2011	12:06	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0082	KAFB10659-GW-GW0082-REG	15 JUN 2011	12:06	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0082	KAFB10659-GW-GW0082-REG	15 JUN 2011	12:06	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02	GW0082	KAFB10659-GW-GW0082-REG	15 JUN 2011	12:06	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0082	KAFB10659-GW-GW0082-REG	15 JUN 2011	12:06	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		

Kirtland_017 Summ Package

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW062

1106179

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0082	KAFB10659-GW-GW0082-REG	15 JUN 2011	12:06	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0082	KAFB10659-GW-GW0082-REG	15 JUN 2011	12:06	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0082	KAFB10659-GW-GW0082-REG	15 JUN 2011	12:06	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-02	GW0082	KAFB10659-GW-GW0082-REG	15 JUN 2011	12:06	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01	GW0082	KAFB10659-GW-GW0082-REG	15 JUN 2011	12:06	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
-03	GW8062-TB	FIELDQC-BW-GW8062-TB-TB	15 JUN 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1106179 Number of Coolers: 1 of 1

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

Date/Time Received: 6.16.11 9:00 Date cooler(s) opened: 6.16.11

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: 4711

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

How many: 1 Seal date: 6.15.11 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: 1.3 °C Correction Factor: +1.4 °C Final Value: 2.7 °C

Dates samples were logged-in: 6.16.11

9. Initial this form to acknowledge login of sample(s): (Name): Reginald Talley (Initial): RT
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 For metal and Ammonia was <2

Ph For sulfide was >9

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW063

19

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

Samples Shipment Date: 16 JUN 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/875889884722

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) [signature] Shaw Date: 6-16-11 Time: 12:10
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) Reginald Talley 2.7°C Date: 6.17.11 Time: 0900

Comments:

1106188

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0094	KAFB10676-GW-GW0094-REG	16 JUN 2011	10:31	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
↓	GW0094	KAFB10676-GW-GW0094-REG	16 JUN 2011	10:31	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0094	KAFB10676-GW-GW0094-REG	16 JUN 2011	10:31	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
-02	GW0094	KAFB10676-GW-GW0094-REG	16 JUN 2011	10:31	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
↓	GW0094	KAFB10676-GW-GW0094-REG	16 JUN 2011	10:31	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0094	KAFB10676-GW-GW0094-REG	16 JUN 2011	10:31	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
↓	GW0094	KAFB10676-GW-GW0094-REG	16 JUN 2011	10:31	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		

Kirtland_017 Summ Package

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1106188

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW063

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0094	KAFB10676-GW-GW0094-REG	16 JUN 2011	10:31	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0094	KAFB10676-GW-GW0094-REG	16 JUN 2011	10:31	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0094	KAFB10676-GW-GW0094-REG	16 JUN 2011	10:31	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0094	KAFB10676-GW-GW0094-REG	16 JUN 2011	10:31	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-03	GW8063-TB	FIELDQC-BW-GW8063-TB-TB	16 JUN 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1106188 Number of Coolers: 1 of 1

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

Date/Time Received: 6.17.11 9:00 Date cooler(s) opened: 6.17.11

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: 4722

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

How many: 1 Seal date: 6.16.11 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: 1.3 °C Correction Factor: +1.4 °C Final Value: 2.7 °C

Dates samples were logged-in: 6.17.11

9. Initial this form to acknowledge login of sample(s): (Name): Reginald Talley (Initial): RT
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 for metals and Ammonia was <2

Ph for sulfide was >9

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW064

22

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

Samples Shipment Date: 17 JUN 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/873979801596

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 Y Flammable Skin Irritant Poison B Radiological Unknown

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

1. Relinquished By (Signature/Affiliation) Shaw Env Date: 6/17/11 Time: 1519
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) 2.2°C Date: 6-18-11 Time: 11:00

Comments:

1106195

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0096	KAFB10678-GW-GW0096-REG	17 JUN 2011	13:56	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0096	KAFB10678-GW-GW0096-REG	17 JUN 2011	13:56	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0096	KAFB10678-GW-GW0096-REG	17 JUN 2011	13:56	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0096	KAFB10678-GW-GW0096-REG	17 JUN 2011	13:56	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02	GW0096	KAFB10678-GW-GW0096-REG	17 JUN 2011	13:56	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0096	KAFB10678-GW-GW0096-REG	17 JUN 2011	13:56	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		

Kirtland_017 Summ Package

Shaw™
Shaw E & I, Inc.

1106195

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW064

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0096	KAFB10678-GW-GW0096-REG	17 JUN 2011	13:56	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0096	KAFB10678-GW-GW0096-REG	17 JUN 2011	13:56	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0096	KAFB10678-GW-GW0096-REG	17 JUN 2011	13:56	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-02	GW0096	KAFB10678-GW-GW0096-REG	17 JUN 2011	13:56	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01	GW0096	KAFB10678-GW-GW0096-REG	17 JUN 2011	13:56	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
-03	GW8064-TB	FIELDQC-BW-GW8064-TB-TB	17 JUN 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1106155 Number of Coolers: 1 of 1

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

Date/Time Received: 6·18·11 11:00 Date cooler(s) opened: 6·18·11

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: 1596

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

How many: 2 Seal date: 6·17·11 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: 0.8 °C Correction Factor: +1.4 °C Final Value: 2.2 °C

Dates samples were logged-in: 6-20-11

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

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

· ph<2 for all metals · ph>9 for all sulfides
· ph<2 for all ammonias

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW065

25

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

Samples Shipment Date: 20 JUN 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/875889884733

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) [signature] / Shaw Date: 6-20-11 Time: 14:20
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) Reginald Fulley 3.0 ∝ Date: 6.21.11 Time: 0900

Comments:

1106203

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0095	KAFB10677-GW-GW0095-REG	20 JUN 2011	11:22	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0095	KAFB10677-GW-GW0095-REG	20 JUN 2011	11:22	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0095	KAFB10677-GW-GW0095-REG	20 JUN 2011	11:22	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0095	KAFB10677-GW-GW0095-REG	20 JUN 2011	11:22	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0095	KAFB10677-GW-GW0095-REG	20 JUN 2011	11:22	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-02	GW0095	KAFB10677-GW-GW0095-REG	20 JUN 2011	11:22	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			~~N~~ Y		

Kirtland_017 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW065

1106203

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
RT -04	GW0095	KAFB10677-GW-GW0095-REG	20 JUN 2011	11:22	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0095	KAFB10677-GW-GW0095-REG	20 JUN 2011	11:22	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0095	KAFB10677-GW-GW0095-REG	20 JUN 2011	11:22	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0095	KAFB10677-GW-GW0095-REG	20 JUN 2011	11:22	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
-03	GW8065-TB	FIELDQC-BW-GW8065-TB-TB	20 JUN 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1106203 Number of Coolers: 1 of 1

Client: Shaw Project: Kirtland AFB

Date/Time Received: 6.21.11 0900 Date cooler(s) opened: 6.21.11

Opened By (print): Reginald Talley (signature): Reginald Talley

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: 4733

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

How many: 2 Seal date: 6.20.11 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: 1.6 °C Correction Factor: +1.4 °C Final Value: 3.0 °C

Dates samples were logged-in: 6.21.11

9. Initial this form to acknowledge login of sample(s): (Name): Reginald Talley (Initial): RT

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

Received an amber L with a loose top and sample was spilled in cooler. GW0095

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

Ph for metals and ammonia was <2

Ph for sulfide was >9

WORK ORDER

1106155

Printed: 7/21/2011 2:59:30PM

Empirical Laboratories, LLC

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

Project Manager: **Sonya Gordon**
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: 07/06/2011 16:00 (15 day TAT)

Received By: Chris Donald

Logged In By: Chris Donald

Date Received: 06/14/2011 09:00

Date Logged In 06/14/2011 10:11

Samples Received at: **4°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

1106155

Printed: 7/21/2011 2:59:30PM

Empirical Laboratories, LLC

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

Project Manager: Sonya Gordon
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1106155-01 GW0046 [Water] Sampled 06/13/2011 12:38 Mountain					**MS/MSD**
SM4500S2CF	06/30/2011 14:00	15	06/20/2011 13:38		MS/MSD
E300.0	06/30/2011 14:00	15	06/15/2011 13:38		NO3, MS/MSD
E300.0	06/30/2011 14:00	15	07/11/2011 13:38		Cl, SO4, MS/MSD
SM4500NH3BG	06/30/2011 14:00	15	07/11/2011 13:38		MS/MSD
SM2320B	06/30/2011 14:00	15	06/27/2011 13:38		carb/bicarb, MS/MSD
SW8260B	06/30/2011 14:00	15	06/27/2011 13:38		MS/MSD
SW8015B GRO	06/30/2011 14:00	15	06/27/2011 13:38		MS/MSD
SW8270C	06/30/2011 14:00	15	06/20/2011 13:38		MS/MSD
SW8011	06/30/2011 14:00	15	06/27/2011 13:38		OLR; MS/MSD
SW8015B DRO	06/30/2011 14:00	15	06/20/2011 13:38		MS/MSD
SW6010B	06/30/2011 14:00	15	12/10/2011 13:38		Ca, Pb, K, Na, Mg, MS/MSD
1106155-02 GW0046 [Water] Sampled 06/13/2011 12:38 Mountain					**MS/MSD**
SW6010B	06/30/2011 14:00	15	12/10/2011 13:38		Fe & Mn. Field Filtered and Preserved!, MS/MSD
1106155-03 GW8061-TB [Water] Sampled 06/13/2011 08:00 Mountain					
SW8260B	06/30/2011 14:00	15	06/27/2011 09:00		

WORK ORDER

1106179

Printed: 7/21/2011 3:00:38PM

Empirical Laboratories, LLC

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

Project Manager: **Sonya Gordon**
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: 07/08/2011 16:00 (15 day TAT)
Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 06/16/2011 09:00
Date Logged In 06/16/2011 10:54

Samples Received at: **2.7°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

1106179

Printed: 7/21/2011 3:00:38PM

Empirical Laboratories, LLC

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

Project Manager: Sonya Gordon
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1106179-01 GW0082 [Water] Sampled 06/15/2011 12:06 Mountain					
SM4500S2CF	07/05/2011 14:00	15	06/22/2011 13:06		
E300.0	07/05/2011 14:00	15	06/17/2011 13:06		NO3
E300.0	07/05/2011 14:00	15	07/13/2011 13:06		Cl, SO4
SM4500NH3BG	07/05/2011 14:00	15	07/13/2011 13:06		
SM2320B	07/05/2011 14:00	15	06/29/2011 13:06		carb/bicarb
SW8260B	07/05/2011 14:00	15	06/29/2011 13:06		
SW8015B GRO	07/05/2011 14:00	15	06/29/2011 13:06		
SW8270C	07/05/2011 14:00	15	06/22/2011 13:06		
SW8011	07/05/2011 14:00	15	06/29/2011 13:06		OLR
SW8015B DRO	07/05/2011 14:00	15	06/22/2011 13:06		
SW6010B	07/05/2011 14:00	15	12/12/2011 13:06		Ca, Pb, K, Na, Mg
1106179-02 GW0082 [Water] Sampled 06/15/2011 12:06 Mountain					
SW6010B	07/05/2011 14:00	15	12/12/2011 13:06		Fe & Mn
1106179-03 GW8062-TB [Water] Sampled 06/15/2011 08:00 Mountain					
SW8260B	07/05/2011 14:00	15	06/29/2011 09:00		

WORK ORDER

1106188

Printed: 7/21/2011 3:01:30PM

Empirical Laboratories, LLC

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

Project Manager: **Sonya Gordon**
Project Number: **SHW_Kirtland**

Report To:
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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: 07/11/2011 16:00 (15 day TAT)

Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 06/17/2011 09:00
Date Logged In 06/17/2011 12:03

Samples Received at: **2.7°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

1106188

Printed: 7/21/2011 3:01:30PM

Empirical Laboratories, LLC

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

Project Manager: Sonya Gordon
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1106188-01 GW0094 [Water] Sampled 06/16/2011 10:31 Mountain					
SM4500S2CF	07/06/2011 14:00	15	06/23/2011 11:31		
E300.0	07/06/2011 14:00	15	06/18/2011 11:31		NO3
E300.0	07/06/2011 14:00	15	07/14/2011 11:31		Cl, SO4
SM4500NH3BG	07/06/2011 14:00	15	07/14/2011 11:31		
SM2320B	07/06/2011 14:00	15	06/30/2011 11:31		carb/bicarb
SW8260B	07/06/2011 14:00	15	06/30/2011 11:31		
SW8015B GRO	07/06/2011 14:00	15	06/30/2011 11:31		
SW8270C	07/06/2011 14:00	15	06/23/2011 11:31		
SW8011	07/06/2011 14:00	15	06/30/2011 11:31		OLR
SW8015B DRO	07/06/2011 14:00	15	06/23/2011 11:31		
SW6010B	07/06/2011 14:00	15	12/13/2011 11:31		Ca, Pb, K, Na, Mg
1106188-02 GW0094 [Water] Sampled 06/16/2011 10:31 Mountain					
SW6010B	07/06/2011 14:00	15	12/13/2011 11:31		Fe & Mn
1106188-03 GW8063-TB [Water] Sampled 06/16/2011 08:00 Mountain					
SW8260B	07/06/2011 14:00	15	06/30/2011 09:00		

WORK ORDER

1106195

Printed: 7/21/2011 3:02:26PM

Empirical Laboratories, LLC

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

Project Manager: **Sonya Gordon**
Project Number: **SHW_Kirtland**

Report To:
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Pamela Moss
7604 Technology Way, Suite 300
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Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 07/12/2011 16:00 (15 day TAT)

Received By: Chris Donald

Logged In By: Chris Donald

Date Received: 06/18/2011 11:00

Date Logged In 06/20/2011 08:47

Samples Received at: **2.2°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

1106195

Printed: 7/21/2011 3:02:26PM

Empirical Laboratories, LLC

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

Project Manager: Sonya Gordon
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1106195-01 GW0096 [Water] Sampled 06/17/2011 13:56 Mountain					
SM4500S2CF	07/07/2011 14:00	15	06/24/2011 14:56		
E300.0	07/07/2011 14:00	15	06/19/2011 14:56		NO3
E300.0	07/07/2011 14:00	15	07/15/2011 14:56		Cl, SO4
SM4500NH3BG	07/07/2011 14:00	15	07/15/2011 14:56		
SM2320B	07/07/2011 14:00	15	07/01/2011 14:56		carb/bicarb
SW8260B	07/07/2011 14:00	15	07/01/2011 14:56		
SW8015B GRO	07/07/2011 14:00	15	07/01/2011 14:56		
SW8270C	07/07/2011 14:00	15	06/24/2011 14:56		
SW8011	07/07/2011 14:00	15	07/01/2011 14:56		
SW8015B DRO	07/07/2011 14:00	15	06/24/2011 14:56		
SW6010B	07/07/2011 14:00	15	12/14/2011 14:56		Ca, Pb, K, Na, Mg
1106195-02 GW0096 [Water] Sampled 06/17/2011 13:56 Mountain					**Field Filtered and Preserved!!!**
SW6010B	07/07/2011 14:00	15	12/14/2011 14:56		Fe & Mn, Field Filtered and Preserved!!!
1106195-03 GW8064-TB [Water] Sampled 06/17/2011 08:00 Mountain					
SW8260B	07/07/2011 14:00	15	07/01/2011 09:00		

WORK ORDER

1106203

Printed: 7/21/2011 3:03:12PM

Empirical Laboratories, LLC

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

Project Manager: **Sonya Gordon**
Project Number: **SHW_Kirtland**

Report To:
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Invoice To:
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Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 07/13/2011 16:00 (15 day TAT)

Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 06/21/2011 09:00
Date Logged In 06/21/2011 09:41

Samples Received at: **3°C**

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

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1106203

Printed: 7/21/2011 3:03:12PM

Empirical Laboratories, LLC

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

Project Manager: Sonya Gordon
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1106203-01 GW0095 [Water] Sampled 06/20/2011 11:22 Mountain					
SM4500S2CF	07/08/2011 14:00	15	06/27/2011 12:22		
E300.0	07/08/2011 14:00	15	06/22/2011 12:22		NO3
E300.0	07/08/2011 14:00	15	07/18/2011 12:22		Cl, SO4
SM4500NH3BG	07/08/2011 14:00	15	07/18/2011 12:22		
SM2320B	07/08/2011 14:00	15	07/04/2011 12:22		carb/bicarb
SW8260B	07/08/2011 14:00	15	07/04/2011 12:22		1x per screen
SW8015B GRO	07/08/2011 14:00	15	07/04/2011 12:22		
SW8270C	07/08/2011 14:00	15	06/27/2011 12:22		Low Sample Volume
SW8011	07/08/2011 14:00	15	07/04/2011 12:22		
SW8015B DRO	07/08/2011 14:00	15	06/27/2011 12:22		Low Sample Volume
SW6010B	07/08/2011 14:00	15	12/17/2011 12:22		Ca, Pb, K, Na, Mg
1106203-02 GW0095 [Water] Sampled 06/20/2011 11:22 Mountain					
SW6010B	07/08/2011 14:00	15	12/17/2011 12:22		Fe & Mn
1106203-03 GW8065-TB [Water] Sampled 06/20/2011 08:00 Mountain					
SW8260B	07/08/2011 14:00	15	07/04/2011 09:00		

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: Kirtland_017
MATRIX: Water

QC LEVEL: Level IV
Report Due: 7/6/2011 - 7/13/2011
Client Sample Count: 10

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	SM2320B	SM4500NH3BG
Client Sample	6/13/2011	6/14/2011	1106155-01	GW0046	MS/MSD	MS/MSD	MS/MSD
Client Sample	6/13/2011	6/14/2011	1106155-02	GW0046			
Trip Blank	6/13/2011	6/14/2011	1106155-03	GW8061-TB			
Client Sample	6/15/2011	6/16/2011	1106179-01	GW0082	X	X	X
Client Sample	6/15/2011	6/16/2011	1106179-02	GW0082			
Trip Blank	6/15/2011	6/16/2011	1106179-03	GW8062-TB			
Client Sample	6/16/2011	6/17/2011	1106188-01	GW0094	X	X	X
Client Sample	6/16/2011	6/17/2011	1106188-02	GW0094			
Trip Blank	6/16/2011	6/17/2011	1106188-03	GW8063-TB			
Client Sample	6/17/2011	6/18/2011	1106195-01	GW0096	X	X	X
Client Sample	6/17/2011	6/18/2011	1106195-02	GW0096			
Trip Blank	6/17/2011	6/18/2011	1106195-03	GW8064-TB			
Client Sample	6/20/2011	6/21/2011	1106203-01	GW0095	X	X	X
Client Sample	6/20/2011	6/21/2011	1106203-02	GW0095			
Trip Blank	6/20/2011	6/21/2011	1106203-03	GW8065-TB			

Sample Type	Sampled	Received	Lab ID	Client ID	SM4500S2CF	SW6010B	SW8011
Client Sample	6/13/2011	6/14/2011	1106155-01	GW0046	MS/MSD	MS/MSD	MS/MSD
Client Sample	6/13/2011	6/14/2011	1106155-02	GW0046		MS/MSD	
Trip Blank	6/13/2011	6/14/2011	1106155-03	GW8061-TB			
Client Sample	6/15/2011	6/16/2011	1106179-01	GW0082	X	X	X
Client Sample	6/15/2011	6/16/2011	1106179-02	GW0082		X	
Trip Blank	6/15/2011	6/16/2011	1106179-03	GW8062-TB			
Client Sample	6/16/2011	6/17/2011	1106188-01	GW0094	X	X	X
Client Sample	6/16/2011	6/17/2011	1106188-02	GW0094		X	
Trip Blank	6/16/2011	6/17/2011	1106188-03	GW8063-TB			
Client Sample	6/17/2011	6/18/2011	1106195-01	GW0096	X	X	X
Client Sample	6/17/2011	6/18/2011	1106195-02	GW0096		Field Filtered and Preserved!!!	
Trip Blank	6/17/2011	6/18/2011	1106195-03	GW8064-TB			
Client Sample	6/20/2011	6/21/2011	1106203-01	GW0095	X	X	X
Client Sample	6/20/2011	6/21/2011	1106203-02	GW0095		X	
Trip Blank	6/20/2011	6/21/2011	1106203-03	GW8065-TB			

Sample Type	Sampled	Received	Lab ID	Client ID	SW8015B DRO	SW8015B GRO	SW8260B
Client Sample	6/13/2011	6/14/2011	1106155-01	GW0046	MS/MSD	MS/MSD	MS/MSD
Client Sample	6/13/2011	6/14/2011	1106155-02	GW0046			
Trip Blank	6/13/2011	6/14/2011	1106155-03	GW8061-TB			X
Client Sample	6/15/2011	6/16/2011	1106179-01	GW0082	X	X	X
Client Sample	6/15/2011	6/16/2011	1106179-02	GW0082			
Trip Blank	6/15/2011	6/16/2011	1106179-03	GW8062-TB			X
Client Sample	6/16/2011	6/17/2011	1106188-01	GW0094	X	X	X
Client Sample	6/16/2011	6/17/2011	1106188-02	GW0094			
Trip Blank	6/16/2011	6/17/2011	1106188-03	GW8063-TB			X
Client Sample	6/17/2011	6/18/2011	1106195-01	GW0096	X	X	X
Client Sample	6/17/2011	6/18/2011	1106195-02	GW0096			
Trip Blank	6/17/2011	6/18/2011	1106195-03	GW8064-TB			X
Client Sample	6/20/2011	6/21/2011	1106203-01	GW0095	X	X	X
Client Sample	6/20/2011	6/21/2011	1106203-02	GW0095			
Trip Blank	6/20/2011	6/21/2011	1106203-03	GW8065-TB			X

Sample Type	Sampled	Received	Lab ID	Client ID	SW8270C
Client Sample	6/13/2011	6/14/2011	1106155-01	GW0046	MS/MSD
Client Sample	6/13/2011	6/14/2011	1106155-02	GW0046	
Trip Blank	6/13/2011	6/14/2011	1106155-03	GW8061-TB	
Client Sample	6/15/2011	6/16/2011	1106179-01	GW0082	X
Client Sample	6/15/2011	6/16/2011	1106179-02	GW0082	
Trip Blank	6/15/2011	6/16/2011	1106179-03	GW8062-TB	
Client Sample	6/16/2011	6/17/2011	1106188-01	GW0094	X
Client Sample	6/16/2011	6/17/2011	1106188-02	GW0094	
Trip Blank	6/16/2011	6/17/2011	1106188-03	GW8063-TB	
Client Sample	6/17/2011	6/18/2011	1106195-01	GW0096	X
Client Sample	6/17/2011	6/18/2011	1106195-02	GW0096	
Trip Blank	6/17/2011	6/18/2011	1106195-03	GW8064-TB	
Client Sample	6/20/2011	6/21/2011	1106203-01	GW0095	X
Client Sample	6/20/2011	6/21/2011	1106203-02	GW0095	
Trip Blank	6/20/2011	6/21/2011	1106203-03	GW8065-TB	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0046

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-01	File ID:	0615501D.D
Sampled:	06/13/11 12:38	Prepared:	06/22/11 00:00	Analyzed:	06/22/11 17:20
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	670	125	250	500	Y, D
71-43-2	Benzene	602	12.5	25.0	50.0	D
108-86-1	Bromobenzene		12.5	25.0	50.0	U
74-97-5	Bromochloromethane		12.5	25.0	50.0	U
75-27-4	Bromodichloromethane		12.5	25.0	50.0	U
75-25-2	Bromoform		12.5	25.0	50.0	U
74-83-9	Bromomethane		25.0	50.0	100	U
104-51-8	n-Butylbenzene		12.5	25.0	50.0	U
78-93-3	2-Butanone		125	250	500	Y, U
135-98-8	sec-Butylbenzene		12.5	25.0	50.0	U
98-06-6	tert-Butylbenzene		12.5	25.0	50.0	U
75-15-0	Carbon disulfide		12.5	25.0	50.0	U
56-23-5	Carbon tetrachloride		12.5	25.0	50.0	U
108-90-7	Chlorobenzene		12.5	25.0	50.0	U
75-00-3	Chloroethane		25.0	50.0	100	X, U
67-66-3	Chloroform		12.5	25.0	50.0	U
74-87-3	Chloromethane		12.5	25.0	50.0	U
95-49-8	2-Chlorotoluene		12.5	25.0	50.0	U
106-43-4	4-Chlorotoluene		12.5	25.0	50.0	U
124-48-1	Dibromochloromethane		12.5	25.0	50.0	U
96-12-8	1,2-Dibromo-3-chloropropane		25.0	50.0	100	Y, U
106-93-4	1,2-Dibromoethane (EDB)	38.4	12.5	25.0	50.0	J, D
74-95-3	Dibromomethane		12.5	25.0	50.0	U
95-50-1	1,2-Dichlorobenzene		12.5	25.0	50.0	U
541-73-1	1,3-Dichlorobenzene		12.5	25.0	50.0	U
106-46-7	1,4-Dichlorobenzene		12.5	25.0	50.0	U
75-71-8	Dichlorodifluoromethane		25.0	50.0	100	U
75-34-3	1,1-Dichloroethane		12.5	25.0	50.0	U
107-06-2	1,2-Dichloroethane		12.5	25.0	50.0	U
75-35-4	1,1-Dichloroethene		12.5	25.0	50.0	U
156-59-2	cis-1,2-Dichloroethene		12.5	25.0	50.0	U
156-60-5	trans-1,2-Dichloroethene		12.5	25.0	50.0	U
78-87-5	1,2-Dichloropropane		12.5	25.0	50.0	U
142-28-9	1,3-Dichloropropane		12.5	25.0	50.0	U
594-20-7	2,2-Dichloropropane		12.5	25.0	50.0	X, U
563-58-6	1,1-Dichloropropene		12.5	25.0	50.0	U
10061-01-5	cis-1,3-Dichloropropene		12.5	25.0	50.0	U
10061-02-6	trans-1,3-Dichloropropene		12.5	25.0	50.0	U
100-41-4	Ethylbenzene	276	12.5	25.0	50.0	D
87-68-3	Hexachlorobutadiene		12.5	25.0	50.0	U

ANALYSIS DATA SHEET

GW0046

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-01	File ID:	0615501D.D
Sampled:	06/13/11 12:38	Prepared:	06/22/11 00:00	Analyzed:	06/22/11 17:20
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	65.7	62.5	125	250	J, D
98-82-8	Isopropylbenzene	28.7	12.5	25.0	50.0	J, D
99-87-6	p-Isopropyltoluene		12.5	25.0	50.0	U
75-09-2	Methylene chloride	30.8	25.0	50.0	100	J, D
91-20-3	Naphthalene	77.8	12.5	25.0	50.0	Y, D
108-10-1	4-Methyl-2-pentanone		62.5	125	250	Y, U
1634-04-4	Methyl t-Butyl Ether		12.5	25.0	50.0	U
103-65-1	n-Propylbenzene	52.1	12.5	25.0	50.0	D
100-42-5	Styrene		12.5	25.0	50.0	U
79-34-5	1,1,2,2-Tetrachloroethane		12.5	25.0	50.0	Y, U
630-20-6	1,1,1,2-Tetrachloroethane		12.5	25.0	50.0	U
127-18-4	Tetrachloroethene		12.5	25.0	50.0	U
108-88-3	Toluene	2360	12.5	25.0	50.0	D
87-61-6	1,2,3-Trichlorobenzene		12.5	25.0	50.0	U
120-82-1	1,2,4-Trichlorobenzene		12.5	25.0	50.0	U
79-00-5	1,1,2-Trichloroethane		12.5	25.0	50.0	U
71-55-6	1,1,1-Trichloroethane		12.5	25.0	50.0	U
79-01-6	Trichloroethene		12.5	25.0	50.0	U
75-69-4	Trichlorofluoromethane		25.0	50.0	100	U
96-18-4	1,2,3-Trichloropropane		25.0	50.0	100	N, U
108-67-8	1,3,5-Trimethylbenzene	40.1	12.5	25.0	50.0	J, D
95-63-6	1,2,4-Trimethylbenzene	97.6	12.5	25.0	50.0	D
75-01-4	Vinyl chloride		12.5	25.0	50.0	U
108-38-3/106-42-	m,p-Xylene	869	25.0	50.0	100	D
95-47-6	o-Xylene	354	12.5	25.0	50.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.62	98.7	75 - 120	
Dibromofluoromethane	30.00	31.05	104	85 - 115	
1,2-Dichloroethane-d4	30.00	28.69	95.6	70 - 120	
Toluene-d8	30.00	31.74	106	85 - 120	X

ANALYSIS DATA SHEET

GW8061-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-03	File ID:	0615503.D
Sampled:	06/13/11 08:00	Prepared:	06/17/11 00:00	Analyzed:	06/18/11 00:42
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F17010 Sequence: 1F17105 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	Y, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	Y, 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	1.12	0.250	0.500	1.00	
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	X, 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	Y, U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	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

GW8061-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-03	File ID:	0615503.D
Sampled:	06/13/11 08:00	Prepared:	06/17/11 00:00	Analyzed:	06/18/11 00:42
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F17010 Sequence: 1F17105 Calibration: 1154004 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	Y, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Y, 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	Y, 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	30.27	101	75 - 120	
Dibromofluoromethane	30.00	30.54	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.86	103	70 - 120	
Toluene-d8	30.00	31.03	103	85 - 120	

ANALYSIS DATA SHEET

GW0082

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-01	File ID:	0617901D.D
Sampled:	06/15/11 12:06	Prepared:	06/22/11 00:00	Analyzed:	06/22/11 16:54
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	860	125	250	500	Y, D
71-43-2	Benzene	1800	12.5	25.0	50.0	D
108-86-1	Bromobenzene		12.5	25.0	50.0	U
74-97-5	Bromochloromethane		12.5	25.0	50.0	U
75-27-4	Bromodichloromethane		12.5	25.0	50.0	U
75-25-2	Bromoform		12.5	25.0	50.0	U
74-83-9	Bromomethane		25.0	50.0	100	U
104-51-8	n-Butylbenzene	15.3	12.5	25.0	50.0	J, D
78-93-3	2-Butanone	195	125	250	500	Y, J, D
135-98-8	sec-Butylbenzene	15.3	12.5	25.0	50.0	J, D
98-06-6	tert-Butylbenzene		12.5	25.0	50.0	U
75-15-0	Carbon disulfide		12.5	25.0	50.0	U
56-23-5	Carbon tetrachloride		12.5	25.0	50.0	U
108-90-7	Chlorobenzene		12.5	25.0	50.0	U
75-00-3	Chloroethane		25.0	50.0	100	X, U
67-66-3	Chloroform		12.5	25.0	50.0	U
74-87-3	Chloromethane		12.5	25.0	50.0	U
95-49-8	2-Chlorotoluene		12.5	25.0	50.0	U
106-43-4	4-Chlorotoluene		12.5	25.0	50.0	U
124-48-1	Dibromochloromethane		12.5	25.0	50.0	U
96-12-8	1,2-Dibromo-3-chloropropane		25.0	50.0	100	Y, U
106-93-4	1,2-Dibromoethane (EDB)	106	12.5	25.0	50.0	D
74-95-3	Dibromomethane		12.5	25.0	50.0	U
95-50-1	1,2-Dichlorobenzene		12.5	25.0	50.0	U
541-73-1	1,3-Dichlorobenzene		12.5	25.0	50.0	U
106-46-7	1,4-Dichlorobenzene		12.5	25.0	50.0	U
75-71-8	Dichlorodifluoromethane		25.0	50.0	100	U
75-34-3	1,1-Dichloroethane		12.5	25.0	50.0	U
107-06-2	1,2-Dichloroethane		12.5	25.0	50.0	U
75-35-4	1,1-Dichloroethene		12.5	25.0	50.0	U
156-59-2	cis-1,2-Dichloroethene		12.5	25.0	50.0	U
156-60-5	trans-1,2-Dichloroethene		12.5	25.0	50.0	U
78-87-5	1,2-Dichloropropane		12.5	25.0	50.0	U
142-28-9	1,3-Dichloropropane		12.5	25.0	50.0	U
594-20-7	2,2-Dichloropropane		12.5	25.0	50.0	X, U
563-58-6	1,1-Dichloropropene		12.5	25.0	50.0	U
10061-01-5	cis-1,3-Dichloropropene		12.5	25.0	50.0	U
10061-02-6	trans-1,3-Dichloropropene		12.5	25.0	50.0	U
100-41-4	Ethylbenzene	552	12.5	25.0	50.0	D
87-68-3	Hexachlorobutadiene		12.5	25.0	50.0	U

ANALYSIS DATA SHEET

GW0082

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-01	File ID:	0617901D.D
Sampled:	06/15/11 12:06	Prepared:	06/22/11 00:00	Analyzed:	06/22/11 16:54
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	221	62.5	125	250	J, D
98-82-8	Isopropylbenzene	66.1	12.5	25.0	50.0	D
99-87-6	p-Isopropyltoluene		12.5	25.0	50.0	U
75-09-2	Methylene chloride		25.0	50.0	100	U
91-20-3	Naphthalene	87.4	12.5	25.0	50.0	Y, D
108-10-1	4-Methyl-2-pentanone	105	62.5	125	250	Y, J, D
1634-04-4	Methyl t-Butyl Ether		12.5	25.0	50.0	U
103-65-1	n-Propylbenzene	88.5	12.5	25.0	50.0	D
100-42-5	Styrene		12.5	25.0	50.0	U
79-34-5	1,1,2,2-Tetrachloroethane		12.5	25.0	50.0	Y, U
630-20-6	1,1,1,2-Tetrachloroethane		12.5	25.0	50.0	U
127-18-4	Tetrachloroethene		12.5	25.0	50.0	U
108-88-3	Toluene	4050	12.5	25.0	50.0	D
87-61-6	1,2,3-Trichlorobenzene		12.5	25.0	50.0	U
120-82-1	1,2,4-Trichlorobenzene		12.5	25.0	50.0	U
79-00-5	1,1,2-Trichloroethane		12.5	25.0	50.0	U
71-55-6	1,1,1-Trichloroethane		12.5	25.0	50.0	U
79-01-6	Trichloroethene		12.5	25.0	50.0	U
75-69-4	Trichlorofluoromethane		25.0	50.0	100	U
96-18-4	1,2,3-Trichloropropane		25.0	50.0	100	U
108-67-8	1,3,5-Trimethylbenzene	107	12.5	25.0	50.0	D
95-63-6	1,2,4-Trimethylbenzene	333	12.5	25.0	50.0	D
75-01-4	Vinyl chloride		12.5	25.0	50.0	U
108-38-3/106-42-	m,p-Xylene	1450	25.0	50.0	100	D
95-47-6	o-Xylene	604	12.5	25.0	50.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.26	101	75 - 120	
Dibromofluoromethane	30.00	30.20	101	85 - 115	
1,2-Dichloroethane-d4	30.00	28.24	94.1	70 - 120	
Toluene-d8	30.00	30.75	103	85 - 120	X

ANALYSIS DATA SHEET

GW8062-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-03	File ID:	0617903.D
Sampled:	06/15/11 08:00	Prepared:	06/22/11 00:00	Analyzed:	06/22/11 09:50
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	Y, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	Y, 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	X, 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	Y, U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8062-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-03	File ID:	0617903.D
Sampled:	06/15/11 08:00	Prepared:	06/22/11 00:00	Analyzed:	06/22/11 09:50
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 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	Y, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Y, 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	Y, 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	29.62	98.7	75 - 120	
Dibromofluoromethane	30.00	29.58	98.6	85 - 115	
1,2-Dichloroethane-d4	30.00	28.89	96.3	70 - 120	
Toluene-d8	30.00	31.93	106	85 - 120	X

ANALYSIS DATA SHEET

GW0094

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-01	File ID:	0618801D.D
Sampled:	06/16/11 10:31	Prepared:	06/21/11 00:00	Analyzed:	06/21/11 16:39
Solids:		Preparation:	5030B	Dilution:	100

Batch: 1F21001 Sequence: 1F17211 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	25000	250	500	1000	Y, D
71-43-2	Benzene	6120	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	U
75-25-2	Bromoform		25.0	50.0	100	U
74-83-9	Bromomethane		50.0	100	200	U
104-51-8	n-Butylbenzene	45.6	25.0	50.0	100	J, D
78-93-3	2-Butanone	1470	250	500	1000	Y, D
135-98-8	sec-Butylbenzene	31.7	25.0	50.0	100	J, D
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide		25.0	50.0	100	U
56-23-5	Carbon tetrachloride		25.0	50.0	100	U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	X, U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	U
95-49-8	2-Chlorotoluene		25.0	50.0	100	U
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	U
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	Y, U
106-93-4	1,2-Dibromoethane (EDB)	299	25.0	50.0	100	D
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene		25.0	50.0	100	U
75-71-8	Dichlorodifluoromethane		50.0	100	200	U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	U
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	X, U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	994	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	100	U

ANALYSIS DATA SHEET

GW0094

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-01	File ID:	0618801D.D
Sampled:	06/16/11 10:31	Prepared:	06/21/11 00:00	Analyzed:	06/21/11 16:39
Solids:		Preparation:	5030B	Dilution:	100

Batch: 1F21001 Sequence: 1F17211 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	867	125	250	500	D
98-82-8	Isopropylbenzene	92.8	25.0	50.0	100	J, D
99-87-6	p-Isopropyltoluene	43.4	25.0	50.0	100	J, D
75-09-2	Methylene chloride		50.0	100	200	U
91-20-3	Naphthalene	234	25.0	50.0	100	Y, D
108-10-1	4-Methyl-2-pentanone	448	125	250	500	Y, J, D
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	137	25.0	50.0	100	D
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	Y, U
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	U
127-18-4	Tetrachloroethene		25.0	50.0	100	U
108-88-3	Toluene	12300	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	100	U
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	100	U
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	Q, U
108-67-8	1,3,5-Trimethylbenzene	185	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	628	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	U
108-38-3/106-42-	m,p-Xylene	3010	50.0	100	200	D
95-47-6	o-Xylene	1250	25.0	50.0	100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.15	104	75 - 120	
Dibromofluoromethane	30.00	31.15	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.81	103	70 - 120	
Toluene-d8	30.00	30.16	101	85 - 120	

ANALYSIS DATA SHEET

GW8063-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-03	File ID:	0618803.D
Sampled:	06/16/11 08:00	Prepared:	06/21/11 00:00	Analyzed:	06/21/11 10:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F21001 Sequence: 1F17211 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	Y, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	Y, 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	X, 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	Y, U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8063-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-03	File ID:	0618803.D
Sampled:	06/16/11 08:00	Prepared:	06/21/11 00:00	Analyzed:	06/21/11 10:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F21001 Sequence: 1F17211 Calibration: 1154004 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	Y, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Y, 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	Y, 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	Q, 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	30.23	101	75 - 120	
Dibromofluoromethane	30.00	30.89	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.45	101	70 - 120	
Toluene-d8	30.00	30.24	101	85 - 120	

ANALYSIS DATA SHEET

GW0096

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106195-01	File ID:	0619501.D
Sampled:	06/17/11 13:56	Prepared:	06/22/11 00:00	Analyzed:	06/22/11 13:21
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	Y, U
71-43-2	Benzene	0.270	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	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	Y, 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	X, 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	Y, U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene	0.275	0.250	0.500	1.00	J
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0096

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106195-01	File ID:	0619501.D
Sampled:	06/17/11 13:56	Prepared:	06/22/11 00:00	Analyzed:	06/22/11 13:21
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 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	Y, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Y, 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	Y, 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	3.53	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	0.776	0.500	1.00	2.00	J
95-47-6	o-Xylene	0.376	0.250	0.500	1.00	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.12	104	75 - 120	
Dibromofluoromethane	30.00	31.17	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.45	102	70 - 120	
Toluene-d8	30.00	32.97	110	85 - 120	X

ANALYSIS DATA SHEET

GW8064-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106195-03	File ID:	0619503.D
Sampled:	06/17/11 08:00	Prepared:	06/22/11 00:00	Analyzed:	06/22/11 10:17
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	Y, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	Y, 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	X, 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	Y, U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8064-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106195-03	File ID:	0619503.D
Sampled:	06/17/11 08:00	Prepared:	06/22/11 00:00	Analyzed:	06/22/11 10:17
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 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	Y, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Y, 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	Y, 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	0.263	0.250	0.500	1.00	J
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.92	96.4	75 - 120	
Dibromofluoromethane	30.00	30.00	100	85 - 115	
1,2-Dichloroethane-d4	30.00	29.22	97.4	70 - 120	
Toluene-d8	30.00	31.94	106	85 - 120	X

ANALYSIS DATA SHEET

GW0095

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106203-01	File ID:	0620301.D
Sampled:	06/20/11 11:22	Prepared:	06/23/11 00:00	Analyzed:	06/23/11 20:29
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F23023 Sequence: 1F17503 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	2.50	2.50	5.00	10.0	J
71-43-2	Benzene	0.687	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	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	Y, 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	X, 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	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

GW0095

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106203-01	File ID:	0620301.D
Sampled:	06/20/11 11:22	Prepared:	06/23/11 00:00	Analyzed:	06/23/11 20:29
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F23023 Sequence: 1F17503 Calibration: 1154004 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	Y, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Y, 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	Y, 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	3.18	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	0.863	0.500	1.00	2.00	J
95-47-6	o-Xylene	0.322	0.250	0.500	1.00	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.83	109	75 - 120	
Dibromofluoromethane	30.00	31.62	105	85 - 115	
1,2-Dichloroethane-d4	30.00	29.90	99.7	70 - 120	
Toluene-d8	30.00	33.11	110	85 - 120	

ANALYSIS DATA SHEET

GW8065-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106203-03	File ID:	0620303.D
Sampled:	06/20/11 08:00	Prepared:	06/23/11 00:00	Analyzed:	06/23/11 18:44
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F23023 Sequence: 1F17503 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, 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	Y, 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	X, 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	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	0.503	0.250	0.500	1.00	J, B

ANALYSIS DATA SHEET

GW8065-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106203-03	File ID:	0620303.D
Sampled:	06/20/11 08:00	Prepared:	06/23/11 00:00	Analyzed:	06/23/11 18:44
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1F23023 Sequence: 1F17503 Calibration: 1154004 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	Y, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Y, 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	Y, 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	31.44	105	75 - 120	
Dibromofluoromethane	30.00	30.62	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.14	100	70 - 120	
Toluene-d8	30.00	32.95	110	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17105	Instrument:	MS-VOA4
		Calibration:	1154004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F17105-CCV1) ug/L				Lab File ID: 0617CCVE.D		Analyzed: 06/17/11 19:28		
Bromofluorobenzene	30.00	106	80 - 120	12.32	12.32	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	80 - 120	6.983	6.983	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.2	80 - 120	7.486	7.486	0.0000	+/-1.000	
Toluene-d8	30.00	113	80 - 120	9.696	9.696	0.0000	+/-1.000	
LCS (1F17010-BS1) ug/L				Lab File ID: 0617LCSE.D		Analyzed: 06/17/11 19:55		
Bromofluorobenzene	30.00	109	75 - 120	12.314	12.32	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	98.4	85 - 115	6.987	6.983	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.7	70 - 120	7.48	7.486	-0.0060	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.7	9.696	0.0040	+/-1.000	
Blank (1F17010-BLK1) ug/L				Lab File ID: 0617BLKE.D		Analyzed: 06/17/11 21:12		
Bromofluorobenzene	30.00	102	75 - 120	12.318	12.32	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	96.0	85 - 115	6.991	6.983	0.0080	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.5	70 - 120	7.484	7.486	-0.0020	+/-1.000	
Toluene-d8	30.00	107	85 - 120	9.704	9.696	0.0080	+/-1.000	
GW8061-TB (1106155-03) ug/L				Lab File ID: 0615503.D		Analyzed: 06/18/11 00:42		
Bromofluorobenzene	30.00	101	75 - 120	12.323	12.32	0.0030	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.996	6.983	0.0130	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.489	7.486	0.0030	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.699	9.696	0.0030	+/-1.000	
LCS Dup (1F17010-BSD1) ug/L				Lab File ID: 0617LCDE.D		Analyzed: 06/18/11 06:22		
Bromofluorobenzene	30.00	107	75 - 120	12.319	12.32	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.992	6.983	0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.2	70 - 120	7.485	7.486	-0.0010	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.705	9.696	0.0090	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17211	Instrument:	MS-VOA4
		Calibration:	1154004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F17211-CCV1) ug/L				Lab File ID: 0621CCV1.D		Analyzed: 06/21/11 07:26		
Bromofluorobenzene	30.00	112	80 - 120	12.32	12.32	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	80 - 120	6.993	6.993	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.9	80 - 120	7.487	7.487	0.0000	+/-1.000	
Toluene-d8	30.00	112	80 - 120	9.696	9.696	0.0000	+/-1.000	
LCS (1F21001-BS1) ug/L				Lab File ID: 0621LCS1.D		Analyzed: 06/21/11 07:52		
Bromofluorobenzene	30.00	109	75 - 120	12.32	12.32	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.983	6.993	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.486	7.487	-0.0010	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.696	9.696	0.0000	+/-1.000	
Blank (1F21001-BLK1) ug/L				Lab File ID: 0621BLK1.D		Analyzed: 06/21/11 09:09		
Bromofluorobenzene	30.00	105	75 - 120	12.319	12.32	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.992	6.993	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.486	7.487	-0.0010	+/-1.000	
Toluene-d8	30.00	105	85 - 120	9.695	9.696	-0.0010	+/-1.000	
GW8063-TB (1106188-03) ug/L				Lab File ID: 0618803.D		Analyzed: 06/21/11 10:55		
Bromofluorobenzene	30.00	101	75 - 120	12.319	12.32	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.992	6.993	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.485	7.487	-0.0020	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.694	9.696	-0.0020	+/-1.000	
GW0094 (1106188-01) ug/L				Lab File ID: 0618801D.D		Analyzed: 06/21/11 16:39		
Bromofluorobenzene	30.00	104	75 - 120	12.32	12.32	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.983	6.993	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.486	7.487	-0.0010	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.696	9.696	0.0000	+/-1.000	
LCS Dup (1F21001-BSD1) ug/L				Lab File ID: 0621LCD1.D		Analyzed: 06/21/11 18:51		
Bromofluorobenzene	30.00	103	75 - 120	12.315	12.32	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.988	6.993	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.5	70 - 120	7.481	7.487	-0.0060	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.7	9.696	0.0040	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17406	Instrument:	MS-VOA4
		Calibration:	1154004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F17406-CCV1) ug/L				Lab File ID: 0622CCV1.D		Analyzed: 06/22/11 07:41		
Bromofluorobenzene	30.00	115	80 - 120	12.32	12.32	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	6.993	6.993	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.0	80 - 120	7.486	7.486	0.0000	+/-1.000	
Toluene-d8	30.00	122	80 - 120	9.706	9.706	0.0000	+/-1.000	*
LCS (1F22004-BS1) ug/L				Lab File ID: 0622LCS1.D		Analyzed: 06/22/11 08:07		
Bromofluorobenzene	30.00	109	75 - 120	12.325	12.32	0.0050	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.988	6.993	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	86.7	70 - 120	7.491	7.486	0.0050	+/-1.000	
Toluene-d8	30.00	115	85 - 120	9.701	9.706	-0.0050	+/-1.000	
Blank (1F22004-BLK1) ug/L				Lab File ID: 0622BLK1.D		Analyzed: 06/22/11 09:24		
Bromofluorobenzene	30.00	100	75 - 120	12.32	12.32	0.0000	+/-1.000	
Dibromofluoromethane	30.00	99.7	85 - 115	6.993	6.993	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.1	70 - 120	7.486	7.486	0.0000	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.696	9.706	-0.0100	+/-1.000	
GW8062-TB (1106179-03) ug/L				Lab File ID: 0617903.D		Analyzed: 06/22/11 09:50		
Bromofluorobenzene	30.00	98.7	75 - 120	12.315	12.32	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	98.6	85 - 115	6.988	6.993	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.3	70 - 120	7.481	7.486	-0.0050	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.7	9.706	-0.0060	+/-1.000	
GW8064-TB (1106195-03) ug/L				Lab File ID: 0619503.D		Analyzed: 06/22/11 10:17		
Bromofluorobenzene	30.00	96.4	75 - 120	12.315	12.32	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.988	6.993	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.4	70 - 120	7.481	7.486	-0.0050	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.701	9.706	-0.0050	+/-1.000	
GW0096 (1106195-01) ug/L				Lab File ID: 0619501.D		Analyzed: 06/22/11 13:21		
Bromofluorobenzene	30.00	104	75 - 120	12.315	12.32	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.988	6.993	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.481	7.486	-0.0050	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.701	9.706	-0.0050	+/-1.000	
GW0082 (1106179-01) ug/L				Lab File ID: 0617901D.D		Analyzed: 06/22/11 16:54		
Bromofluorobenzene	30.00	101	75 - 120	12.316	12.32	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.989	6.993	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.1	70 - 120	7.482	7.486	-0.0040	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.702	9.706	-0.0040	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17406	Instrument:	MS-VOA4
		Calibration:	1154004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0046 (1106155-01) ug/L				Lab File ID: 0615501D.D		Analyzed: 06/22/11 17:20		
Bromofluorobenzene	30.00	98.7	75 - 120	12.316	12.32	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.989	6.993	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.6	70 - 120	7.482	7.486	-0.0040	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.702	9.706	-0.0040	+/-1.000	
Matrix Spike (1F22004-MS2) ug/L				Lab File ID: 0615501M.D		Analyzed: 06/22/11 18:40		
Bromofluorobenzene	30.00	109	75 - 120	12.325	12.32	0.0050	+/-1.000	
Dibromofluoromethane	30.00	99.8	85 - 115	6.998	6.993	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.1	70 - 120	7.491	7.486	0.0050	+/-1.000	
Toluene-d8	30.00	113	85 - 120	9.701	9.706	-0.0050	+/-1.000	
Matrix Spike Dup (1F22004-MSD2) ug/L				Lab File ID: 0615501S.D		Analyzed: 06/22/11 19:06		
Bromofluorobenzene	30.00	109	75 - 120	12.321	12.32	0.0010	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.994	6.993	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.5	70 - 120	7.487	7.486	0.0010	+/-1.000	
Toluene-d8	30.00	112	85 - 120	9.707	9.706	0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17503	Instrument:	MS-VOA4
		Calibration:	1154004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F17503-CCV1) ug/L				Lab File ID: 0623CCVE.D		Analyzed: 06/23/11 16:33		
Bromofluorobenzene	30.00	113	80 - 120	12.324	12.324	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	80 - 120	6.997	6.997	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	80 - 120	7.491	7.491	0.0000	+/-1.000	
Toluene-d8	30.00	114	80 - 120	9.71	9.71	0.0000	+/-1.000	
LCS (1F23023-BS1) ug/L				Lab File ID: 0623LCSE.D		Analyzed: 06/23/11 16:59		
Bromofluorobenzene	30.00	118	75 - 120	12.326	12.324	0.0020	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	6.999	6.997	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.492	7.491	0.0010	+/-1.000	
Toluene-d8	30.00	113	85 - 120	9.702	9.71	-0.0080	+/-1.000	
Blank (1F23023-BLK1) ug/L				Lab File ID: 0623BLKE.D		Analyzed: 06/23/11 18:17		
Bromofluorobenzene	30.00	107	75 - 120	12.331	12.324	0.0070	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	7.004	6.997	0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.497	7.491	0.0060	+/-1.000	
Toluene-d8	30.00	111	85 - 120	9.707	9.71	-0.0030	+/-1.000	
GW8065-TB (1106203-03) ug/L				Lab File ID: 0620303.D		Analyzed: 06/23/11 18:44		
Bromofluorobenzene	30.00	105	75 - 120	12.33	12.324	0.0060	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	7.003	6.997	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	7.496	7.491	0.0050	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.706	9.71	-0.0040	+/-1.000	
GW0095 (1106203-01) ug/L				Lab File ID: 0620301.D		Analyzed: 06/23/11 20:29		
Bromofluorobenzene	30.00	109	75 - 120	12.326	12.324	0.0020	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	7.009	6.997	0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.7	70 - 120	7.502	7.491	0.0110	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.711	9.71	0.0010	+/-1.000	
LCS Dup (1F23023-BSD1) ug/L				Lab File ID: 0623LCDE.D		Analyzed: 06/23/11 23:59		
Bromofluorobenzene	30.00	110	75 - 120	12.325	12.324	0.0010	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	7.008	6.997	0.0110	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.501	7.491	0.0100	+/-1.000	
Toluene-d8	30.00	110	85 - 120	9.711	9.71	0.0010	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F17010	Laboratory ID:	1F17010-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	73.0	73.0	40 - 140
Benzene	50.00	51.3	103	80 - 120
Bromobenzene	50.00	52.0	104	75 - 125
Bromochloromethane	50.00	50.0	100	65 - 130
Bromodichloromethane	50.00	53.8	108	75 - 120
Bromoform	50.00	41.3	82.6	70 - 130
Bromomethane	50.00	44.1	88.2	30 - 145
n-Butylbenzene	50.00	52.7	105	70 - 135
2-Butanone	100.0	72.8	72.8	30 - 150
sec-Butylbenzene	50.00	51.9	104	70 - 125
tert-Butylbenzene	50.00	52.3	105	70 - 130
Carbon disulfide	50.00	51.5	103	35 - 160
Carbon tetrachloride	50.00	46.5	93.0	65 - 140
Chlorobenzene	50.00	50.3	101	80 - 120
Chloroethane	50.00	61.4	123	60 - 135
Chloroform	50.00	49.4	98.9	65 - 135
Chloromethane	50.00	47.6	95.2	40 - 125
2-Chlorotoluene	50.00	52.7	105	75 - 125
4-Chlorotoluene	50.00	53.6	107	75 - 130
Dibromochloromethane	50.00	49.1	98.1	60 - 135
1,2-Dibromo-3-chloropropane	50.00	36.9	73.8	50 - 130
1,2-Dibromoethane (EDB)	50.00	47.4	94.8	80 - 120
Dibromomethane	50.00	49.3	98.5	75 - 125
1,2-Dichlorobenzene	50.00	51.3	103	70 - 120
1,3-Dichlorobenzene	50.00	51.2	102	75 - 125
1,4-Dichlorobenzene	50.00	51.1	102	75 - 125
Dichlorodifluoromethane	50.00	62.7	125	30 - 155
1,1-Dichloroethane	50.00	51.2	102	70 - 135
1,2-Dichloroethane	50.00	49.5	99.0	70 - 130
1,1-Dichloroethene	50.00	53.0	106	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F17010	Laboratory ID:	1F17010-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	47.6	95.1	70 - 125
trans-1,2-Dichloroethene	50.00	55.4	111	60 - 140
1,2-Dichloropropane	50.00	50.8	102	75 - 125
1,3-Dichloropropane	50.00	50.7	101	75 - 125
2,2-Dichloropropane	50.00	53.3	107	70 - 135
1,1-Dichloropropene	50.00	48.8	97.7	75 - 130
cis-1,3-Dichloropropene	50.00	48.3	96.6	70 - 130
trans-1,3-Dichloropropene	50.00	53.6	107	55 - 140
Ethylbenzene	50.00	52.3	105	75 - 125
Hexachlorobutadiene	50.00	54.9	110	50 - 140
2-Hexanone	100.0	78.3	78.3	55 - 130
Isopropylbenzene	50.00	52.4	105	75 - 125
p-Isopropyltoluene	50.00	54.5	109	75 - 130
Methylene chloride	50.00	52.0	104	55 - 140
Naphthalene	50.00	40.3	80.6	55 - 140
4-Methyl-2-pentanone	100.0	74.6	74.6	60 - 135
Methyl t-Butyl Ether	50.00	44.3	88.6	65 - 125
n-Propylbenzene	50.00	53.1	106	70 - 130
Styrene	50.00	50.8	102	65 - 135
1,1,2,2-Tetrachloroethane	50.00	43.9	87.8	65 - 130
1,1,1,2-Tetrachloroethane	50.00	48.4	96.8	80 - 130
Tetrachloroethene	50.00	48.5	96.9	45 - 150
Toluene	50.00	50.7	101	75 - 120
1,2,3-Trichlorobenzene	50.00	49.0	98.0	55 - 140
1,2,4-Trichlorobenzene	50.00	50.0	99.9	65 - 135
1,1,2-Trichloroethane	50.00	47.9	95.8	75 - 125
1,1,1-Trichloroethane	50.00	48.2	96.5	65 - 130
Trichloroethene	50.00	50.2	100	70 - 125
Trichlorofluoromethane	50.00	52.6	105	60 - 145
1,2,3-Trichloropropane	50.00	40.1	80.2	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F17010	Laboratory ID:	1F17010-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	51.8	104	75 - 130
1,2,4-Trimethylbenzene	50.00	52.5	105	75 - 130
Vinyl chloride	50.00	48.3	96.6	50 - 145
m,p-Xylene	100.0	100	100	75 - 130
o-Xylene	50.00	50.6	101	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	74.3	74.3	1.77	30	40 - 140
Benzene	50.00	52.5	105	2.30	30	80 - 120
Bromobenzene	50.00	48.7	97.4	6.50	30	75 - 125
Bromochloromethane	50.00	47.9	95.8	4.32	30	65 - 130
Bromodichloromethane	50.00	53.8	108	0.0820	30	75 - 120
Bromoform	50.00	36.1	72.2	13.4	30	70 - 130
Bromomethane	50.00	40.8	81.6	7.81	30	30 - 145
n-Butylbenzene	50.00	47.8	95.5	9.90	30	70 - 135
2-Butanone	100.0	73.8	73.8	1.38	30	30 - 150
sec-Butylbenzene	50.00	48.6	97.3	6.44	30	70 - 125
tert-Butylbenzene	50.00	48.3	96.5	7.96	30	70 - 130
Carbon disulfide	50.00	50.7	101	1.52	30	35 - 160
Carbon tetrachloride	50.00	43.6	87.2	6.49	30	65 - 140
Chlorobenzene	50.00	45.7	91.3	9.63	30	80 - 120
Chloroethane	50.00	61.1	122	0.585	30	60 - 135
Chloroform	50.00	50.7	101	2.52	30	65 - 135
Chloromethane	50.00	52.4	105	9.58	30	40 - 125
2-Chlorotoluene	50.00	50.5	101	4.34	30	75 - 125
4-Chlorotoluene	50.00	52.5	105	2.10	30	75 - 130
Dibromochloromethane	50.00	45.9	91.7	6.76	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	33.4	66.8	9.99	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	44.2	88.3	7.09	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F17010	Laboratory ID:	1F17010-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	48.5	97.0	1.55	30	75 - 125
1,2-Dichlorobenzene	50.00	48.0	95.9	6.65	30	70 - 120
1,3-Dichlorobenzene	50.00	48.5	97.0	5.46	30	75 - 125
1,4-Dichlorobenzene	50.00	47.1	94.3	7.99	30	75 - 125
Dichlorodifluoromethane	50.00	57.6	115	8.46	30	30 - 155
1,1-Dichloroethane	50.00	52.4	105	2.22	30	70 - 135
1,2-Dichloroethane	50.00	50.0	100	1.14	30	70 - 130
1,1-Dichloroethene	50.00	50.4	101	5.09	30	70 - 130
cis-1,2-Dichloroethene	50.00	47.9	95.9	0.763	30	70 - 125
trans-1,2-Dichloroethene	50.00	53.2	106	3.94	30	60 - 140
1,2-Dichloropropane	50.00	51.6	103	1.57	30	75 - 125
1,3-Dichloropropane	50.00	48.6	97.2	4.35	30	75 - 125
2,2-Dichloropropane	50.00	42.8	85.7	21.7	30	70 - 135
1,1-Dichloropropene	50.00	49.0	98.0	0.292	30	75 - 130
cis-1,3-Dichloropropene	50.00	46.4	92.8	4.02	30	70 - 130
trans-1,3-Dichloropropene	50.00	49.8	99.7	7.27	30	55 - 140
Ethylbenzene	50.00	48.4	96.8	7.74	30	75 - 125
Hexachlorobutadiene	50.00	42.4	84.9	25.6	30	50 - 140
2-Hexanone	100.0	70.9	70.9	9.83	30	55 - 130
Isopropylbenzene	50.00	48.8	97.5	7.16	30	75 - 125
p-Isopropyltoluene	50.00	50.6	101	7.44	30	75 - 130
Methylene chloride	50.00	52.5	105	0.844	30	55 - 140
Naphthalene	50.00	32.4	64.8	21.7	30	55 - 140
4-Methyl-2-pentanone	100.0	74.3	74.3	0.408	30	60 - 135
Methyl t-Butyl Ether	50.00	42.5	85.0	4.21	30	65 - 125
n-Propylbenzene	50.00	51.7	103	2.73	30	70 - 130
Styrene	50.00	48.0	95.9	5.67	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	42.1	84.2	4.11	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	45.0	90.0	7.28	30	80 - 130
Tetrachloroethene	50.00	41.7	83.4	15.0	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F17010	Laboratory ID:	1F17010-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	47.3	94.5	7.12	30	75 - 120
1,2,3-Trichlorobenzene	50.00	40.0	80.0	20.3	30	55 - 140
1,2,4-Trichlorobenzene	50.00	43.8	87.6	13.2	30	65 - 135
1,1,2-Trichloroethane	50.00	46.5	93.0	2.93	30	75 - 125
1,1,1-Trichloroethane	50.00	46.7	93.4	3.28	30	65 - 130
Trichloroethene	50.00	47.7	95.3	5.19	30	70 - 125
Trichlorofluoromethane	50.00	49.5	99.0	6.10	30	60 - 145
1,2,3-Trichloropropane	50.00	37.6	75.2	6.45	30	75 - 125
1,3,5-Trimethylbenzene	50.00	49.0	98.1	5.56	30	75 - 130
1,2,4-Trimethylbenzene	50.00	48.8	97.5	7.48	30	75 - 130
Vinyl chloride	50.00	44.1	88.2	9.01	30	50 - 145
m,p-Xylene	100.0	91.7	91.7	8.70	30	75 - 130
o-Xylene	50.00	48.8	97.5	3.76	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F21001	Laboratory ID:	1F21001-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	83.3	83.3	40 - 140
Benzene	50.00	50.2	100	80 - 120
Bromobenzene	50.00	50.9	102	75 - 125
Bromochloromethane	50.00	50.0	99.9	65 - 130
Bromodichloromethane	50.00	53.5	107	75 - 120
Bromoform	50.00	41.0	82.1	70 - 130
Bromomethane	50.00	52.6	105	30 - 145
n-Butylbenzene	50.00	53.2	106	70 - 135
2-Butanone	100.0	81.7	81.7	30 - 150
sec-Butylbenzene	50.00	51.2	102	70 - 125
tert-Butylbenzene	50.00	50.3	101	70 - 130
Carbon disulfide	50.00	52.1	104	35 - 160
Carbon tetrachloride	50.00	49.0	98.0	65 - 140
Chlorobenzene	50.00	49.3	98.5	80 - 120
Chloroethane	50.00	60.7	121	60 - 135
Chloroform	50.00	50.6	101	65 - 135
Chloromethane	50.00	52.9	106	40 - 125
2-Chlorotoluene	50.00	49.9	99.7	75 - 125
4-Chlorotoluene	50.00	52.1	104	75 - 130
Dibromochloromethane	50.00	47.9	95.9	60 - 135
1,2-Dibromo-3-chloropropane	50.00	35.2	70.4	50 - 130
1,2-Dibromoethane (EDB)	50.00	45.7	91.4	80 - 120
Dibromomethane	50.00	47.8	95.5	75 - 125
1,2-Dichlorobenzene	50.00	49.4	98.7	70 - 120
1,3-Dichlorobenzene	50.00	50.2	100	75 - 125
1,4-Dichlorobenzene	50.00	49.7	99.3	75 - 125
Dichlorodifluoromethane	50.00	66.0	132	30 - 155
1,1-Dichloroethane	50.00	51.6	103	70 - 135
1,2-Dichloroethane	50.00	52.5	105	70 - 130
1,1-Dichloroethene	50.00	54.4	109	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F21001	Laboratory ID:	1F21001-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	48.6	97.1	70 - 125
trans-1,2-Dichloroethene	50.00	55.7	111	60 - 140
1,2-Dichloropropane	50.00	49.5	99.0	75 - 125
1,3-Dichloropropane	50.00	46.9	93.8	75 - 125
2,2-Dichloropropane	50.00	61.9	124	70 - 135
1,1-Dichloropropene	50.00	52.1	104	75 - 130
cis-1,3-Dichloropropene	50.00	47.8	95.7	70 - 130
trans-1,3-Dichloropropene	50.00	54.9	110	55 - 140
Ethylbenzene	50.00	50.9	102	75 - 125
Hexachlorobutadiene	50.00	57.6	115	50 - 140
2-Hexanone	100.0	86.6	86.6	55 - 130
Isopropylbenzene	50.00	50.9	102	75 - 125
p-Isopropyltoluene	50.00	53.2	106	75 - 130
Methylene chloride	50.00	52.4	105	55 - 140
Naphthalene	50.00	39.4	78.8	55 - 140
4-Methyl-2-pentanone	100.0	82.1	82.1	60 - 135
Methyl t-Butyl Ether	50.00	43.3	86.6	65 - 125
n-Propylbenzene	50.00	51.0	102	70 - 130
Styrene	50.00	49.6	99.1	65 - 135
1,1,2,2-Tetrachloroethane	50.00	40.2	80.4	65 - 130
1,1,1,2-Tetrachloroethane	50.00	48.4	96.8	80 - 130
Tetrachloroethene	50.00	49.3	98.6	45 - 150
Toluene	50.00	50.9	102	75 - 120
1,2,3-Trichlorobenzene	50.00	47.7	95.4	55 - 140
1,2,4-Trichlorobenzene	50.00	51.1	102	65 - 135
1,1,2-Trichloroethane	50.00	44.8	89.6	75 - 125
1,1,1-Trichloroethane	50.00	49.8	99.7	65 - 130
Trichloroethene	50.00	49.5	99.0	70 - 125
Trichlorofluoromethane	50.00	55.8	112	60 - 145
1,2,3-Trichloropropane	**50.00**	**36.4**	**72.8**	**75 - 125**

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F21001	Laboratory ID:	1F21001-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	50.3	101	75 - 130
1,2,4-Trimethylbenzene	50.00	50.1	100	75 - 130
Vinyl chloride	50.00	49.9	99.9	50 - 145
m,p-Xylene	100.0	99.9	99.9	75 - 130
o-Xylene	50.00	50.4	101	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	79.7	79.7	4.46	30	40 - 140
Benzene	50.00	52.8	106	4.93	30	80 - 120
Bromobenzene	50.00	51.3	103	0.785	30	75 - 125
Bromochloromethane	50.00	49.7	99.4	0.481	30	65 - 130
Bromodichloromethane	50.00	52.3	105	2.29	30	75 - 120
Bromoform	50.00	40.6	81.1	1.19	30	70 - 130
Bromomethane	50.00	52.7	105	0.233	30	30 - 145
n-Butylbenzene	50.00	51.0	102	4.34	30	70 - 135
2-Butanone	100.0	80.7	80.7	1.23	30	30 - 150
sec-Butylbenzene	50.00	50.0	99.9	2.48	30	70 - 125
tert-Butylbenzene	50.00	49.2	98.3	2.22	30	70 - 130
Carbon disulfide	50.00	52.9	106	1.47	30	35 - 160
Carbon tetrachloride	50.00	49.5	99.1	1.12	30	65 - 140
Chlorobenzene	50.00	48.3	96.7	1.92	30	80 - 120
Chloroethane	50.00	61.0	122	0.413	30	60 - 135
Chloroform	50.00	50.4	101	0.407	30	65 - 135
Chloromethane	50.00	58.6	117	10.4	30	40 - 125
2-Chlorotoluene	50.00	49.8	99.7	0.0766	30	75 - 125
4-Chlorotoluene	50.00	52.2	104	0.184	30	75 - 130
Dibromochloromethane	50.00	45.9	91.8	4.36	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	35.1	70.1	0.383	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	43.7	87.4	4.56	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F21001	Laboratory ID:	1F21001-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	46.8	93.6	2.03	30	75 - 125
1,2-Dichlorobenzene	50.00	48.1	96.3	2.49	30	70 - 120
1,3-Dichlorobenzene	50.00	48.6	97.3	3.25	30	75 - 125
1,4-Dichlorobenzene	50.00	48.9	97.8	1.60	30	75 - 125
Dichlorodifluoromethane	50.00	68.2	136	3.32	30	30 - 155
1,1-Dichloroethane	50.00	50.9	102	1.22	30	70 - 135
1,2-Dichloroethane	50.00	50.5	101	3.95	30	70 - 130
1,1-Dichloroethene	50.00	50.1	100	8.08	30	70 - 130
cis-1,2-Dichloroethene	50.00	48.8	97.6	0.526	30	70 - 125
trans-1,2-Dichloroethene	50.00	55.6	111	0.149	30	60 - 140
1,2-Dichloropropane	50.00	47.6	95.2	3.89	30	75 - 125
1,3-Dichloropropane	50.00	45.5	91.0	2.99	30	75 - 125
2,2-Dichloropropane	50.00	52.6	105	16.3	30	70 - 135
1,1-Dichloropropene	50.00	50.3	101	3.49	30	75 - 130
cis-1,3-Dichloropropene	50.00	44.7	89.4	6.80	30	70 - 130
trans-1,3-Dichloropropene	50.00	49.2	98.4	10.9	30	55 - 140
Ethylbenzene	50.00	49.6	99.2	2.53	30	75 - 125
Hexachlorobutadiene	50.00	45.0	89.9	24.6	30	50 - 140
2-Hexanone	100.0	81.7	81.7	5.80	30	55 - 130
Isopropylbenzene	50.00	48.8	97.6	4.14	30	75 - 125
p-Isopropyltoluene	50.00	51.7	103	2.95	30	75 - 130
Methylene chloride	50.00	50.7	101	3.29	30	55 - 140
Naphthalene	50.00	34.2	68.4	14.1	30	55 - 140
4-Methyl-2-pentanone	100.0	79.2	79.2	3.64	30	60 - 135
Methyl t-Butyl Ether	50.00	42.3	84.6	2.32	30	65 - 125
n-Propylbenzene	50.00	52.4	105	2.75	30	70 - 130
Styrene	50.00	47.5	95.0	4.23	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	40.7	81.4	1.29	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	44.1	88.3	9.21	30	80 - 130
Tetrachloroethene	50.00	48.9	97.7	0.875	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F21001	Laboratory ID:	1F21001-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	47.8	95.7	6.15	30	75 - 120
1,2,3-Trichlorobenzene	50.00	38.5	76.9	21.5	30	55 - 140
1,2,4-Trichlorobenzene	50.00	44.5	89.0	13.8	30	65 - 135
1,1,2-Trichloroethane	50.00	44.1	88.2	1.56	30	75 - 125
1,1,1-Trichloroethane	50.00	49.6	99.3	0.414	30	65 - 130
Trichloroethene	50.00	48.2	96.3	2.72	30	70 - 125
Trichlorofluoromethane	50.00	56.5	113	1.20	30	60 - 145
1,2,3-Trichloropropane	**50.00**	**37.3**	**74.6 ***	**2.51**	**30**	**75 - 125**
1,3,5-Trimethylbenzene	50.00	51.1	102	1.47	30	75 - 130
1,2,4-Trimethylbenzene	50.00	48.1	96.2	4.15	30	75 - 130
Vinyl chloride	50.00	52.8	106	5.52	30	50 - 145
m,p-Xylene	100.0	94.9	94.9	5.14	30	75 - 130
o-Xylene	50.00	48.7	97.4	3.41	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F22004	Laboratory ID:	1F22004-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	84.3	84.3	40 - 140
Benzene	50.00	52.4	105	80 - 120
Bromobenzene	50.00	53.1	106	75 - 125
Bromochloromethane	50.00	51.9	104	65 - 130
Bromodichloromethane	50.00	54.6	109	75 - 120
Bromoform	50.00	45.5	90.9	70 - 130
Bromomethane	50.00	57.5	115	30 - 145
n-Butylbenzene	50.00	55.5	111	70 - 135
2-Butanone	100.0	80.8	80.8	30 - 150
sec-Butylbenzene	50.00	53.3	107	70 - 125
tert-Butylbenzene	50.00	54.2	108	70 - 130
Carbon disulfide	50.00	53.9	108	35 - 160
Carbon tetrachloride	50.00	51.9	104	65 - 140
Chlorobenzene	50.00	52.8	106	80 - 120
Chloroethane	50.00	63.5	127	60 - 135
Chloroform	50.00	52.8	106	65 - 135
Chloromethane	50.00	59.3	119	40 - 125
2-Chlorotoluene	50.00	53.2	106	75 - 125
4-Chlorotoluene	50.00	54.9	110	75 - 130
Dibromochloromethane	50.00	52.9	106	60 - 135
1,2-Dibromo-3-chloropropane	50.00	36.5	72.9	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.3	98.6	80 - 120
Dibromomethane	50.00	48.6	97.3	75 - 125
1,2-Dichlorobenzene	50.00	53.3	107	70 - 120
1,3-Dichlorobenzene	50.00	54.0	108	75 - 125
1,4-Dichlorobenzene	50.00	53.6	107	75 - 125
Dichlorodifluoromethane	50.00	69.6	139	30 - 155
1,1-Dichloroethane	50.00	52.9	106	70 - 135
1,2-Dichloroethane	50.00	55.9	112	70 - 130
1,1-Dichloroethene	50.00	56.4	113	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F22004	Laboratory ID:	1F22004-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	51.6	103	70 - 125
trans-1,2-Dichloroethene	50.00	57.5	115	60 - 140
1,2-Dichloropropane	50.00	51.9	104	75 - 125
1,3-Dichloropropane	50.00	51.3	103	75 - 125
2,2-Dichloropropane	50.00	65.4	131	70 - 135
1,1-Dichloropropene	50.00	54.0	108	75 - 130
cis-1,3-Dichloropropene	50.00	50.0	99.9	70 - 130
trans-1,3-Dichloropropene	50.00	59.0	118	55 - 140
Ethylbenzene	50.00	55.2	110	75 - 125
Hexachlorobutadiene	50.00	60.2	120	50 - 140
2-Hexanone	100.0	87.8	87.8	55 - 130
Isopropylbenzene	50.00	55.0	110	75 - 125
p-Isopropyltoluene	50.00	57.6	115	75 - 130
Methylene chloride	50.00	53.2	106	55 - 140
Naphthalene	50.00	37.8	75.6	55 - 140
4-Methyl-2-pentanone	100.0	80.4	80.4	60 - 135
Methyl t-Butyl Ether	50.00	43.9	87.8	65 - 125
n-Propylbenzene	50.00	55.0	110	70 - 130
Styrene	50.00	54.4	109	65 - 135
1,1,2,2-Tetrachloroethane	50.00	40.8	81.5	65 - 130
1,1,1,2-Tetrachloroethane	50.00	52.8	106	80 - 130
Tetrachloroethene	50.00	55.1	110	45 - 150
Toluene	50.00	54.9	110	75 - 120
1,2,3-Trichlorobenzene	50.00	49.0	98.1	55 - 140
1,2,4-Trichlorobenzene	50.00	50.7	101	65 - 135
1,1,2-Trichloroethane	50.00	49.8	99.7	75 - 125
1,1,1-Trichloroethane	50.00	53.1	106	65 - 130
Trichloroethene	50.00	52.9	106	70 - 125
Trichlorofluoromethane	50.00	58.7	117	60 - 145
1,2,3-Trichloropropane	50.00	40.5	81.1	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F22004	Laboratory ID:	1F22004-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	53.6	107	75 - 130
1,2,4-Trimethylbenzene	50.00	52.7	105	75 - 130
Vinyl chloride	50.00	53.4	107	50 - 145
m,p-Xylene	100.0	110	110	75 - 130
o-Xylene	50.00	54.6	109	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F23023	Laboratory ID:	1F23023-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	83.8	83.8	40 - 140
Benzene	50.00	47.1	94.2	80 - 120
Bromobenzene	50.00	52.3	105	75 - 125
Bromochloromethane	50.00	52.8	106	65 - 130
Bromodichloromethane	50.00	53.8	108	75 - 120
Bromoform	50.00	51.1	102	70 - 130
Bromomethane	50.00	51.3	103	30 - 145
n-Butylbenzene	50.00	42.7	85.3	70 - 135
2-Butanone	100.0	78.3	78.3	30 - 150
sec-Butylbenzene	50.00	46.1	92.2	70 - 125
tert-Butylbenzene	50.00	45.8	91.7	70 - 130
Carbon disulfide	50.00	46.8	93.6	35 - 160
Carbon tetrachloride	50.00	53.3	107	65 - 140
Chlorobenzene	50.00	51.0	102	80 - 120
Chloroethane	50.00	63.2	126	60 - 135
Chloroform	50.00	49.6	99.1	65 - 135
Chloromethane	50.00	43.2	86.3	40 - 125
2-Chlorotoluene	50.00	46.1	92.2	75 - 125
4-Chlorotoluene	50.00	47.7	95.5	75 - 130
Dibromochloromethane	50.00	52.7	105	60 - 135
1,2-Dibromo-3-chloropropane	50.00	42.5	85.0	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.4	98.8	80 - 120
Dibromomethane	50.00	51.2	102	75 - 125
1,2-Dichlorobenzene	50.00	51.0	102	70 - 120
1,3-Dichlorobenzene	50.00	51.1	102	75 - 125
1,4-Dichlorobenzene	50.00	49.8	99.5	75 - 125
Dichlorodifluoromethane	50.00	57.6	115	30 - 155
1,1-Dichloroethane	50.00	50.1	100	70 - 135
1,2-Dichloroethane	50.00	55.9	112	70 - 130
1,1-Dichloroethene	50.00	51.7	103	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F23023	Laboratory ID:	1F23023-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	48.4	96.8	70 - 125
trans-1,2-Dichloroethene	50.00	52.6	105	60 - 140
1,2-Dichloropropane	50.00	47.2	94.4	75 - 125
1,3-Dichloropropane	50.00	48.7	97.5	75 - 125
2,2-Dichloropropane	50.00	53.1	106	70 - 135
1,1-Dichloropropene	50.00	48.2	96.4	75 - 130
cis-1,3-Dichloropropene	50.00	46.2	92.5	70 - 130
trans-1,3-Dichloropropene	50.00	54.1	108	55 - 140
Ethylbenzene	50.00	49.1	98.1	75 - 125
Hexachlorobutadiene	50.00	56.4	113	50 - 140
2-Hexanone	100.0	85.3	85.3	55 - 130
Isopropylbenzene	50.00	53.7	107	75 - 125
p-Isopropyltoluene	50.00	49.6	99.1	75 - 130
Methylene chloride	50.00	49.1	98.2	55 - 140
Naphthalene	50.00	41.3	82.6	55 - 140
4-Methyl-2-pentanone	100.0	82.0	82.0	60 - 135
Methyl t-Butyl Ether	50.00	46.8	93.6	65 - 125
n-Propylbenzene	50.00	44.6	89.2	70 - 130
Styrene	50.00	51.1	102	65 - 135
1,1,2,2-Tetrachloroethane	50.00	38.6	77.2	65 - 130
1,1,1,2-Tetrachloroethane	50.00	52.7	105	80 - 130
Tetrachloroethene	50.00	54.9	110	45 - 150
Toluene	50.00	47.6	95.3	75 - 120
1,2,3-Trichlorobenzene	50.00	52.0	104	55 - 140
1,2,4-Trichlorobenzene	50.00	53.1	106	65 - 135
1,1,2-Trichloroethane	50.00	45.7	91.5	75 - 125
1,1,1-Trichloroethane	50.00	52.1	104	65 - 130
Trichloroethene	50.00	49.4	98.7	70 - 125
Trichlorofluoromethane	50.00	56.2	112	60 - 145
1,2,3-Trichloropropane	50.00	44.7	89.4	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F23023	Laboratory ID:	1F23023-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	47.3	94.5	75 - 130
1,2,4-Trimethylbenzene	50.00	46.7	93.4	75 - 130
Vinyl chloride	50.00	48.9	97.7	50 - 145
m,p-Xylene	100.0	98.5	98.5	75 - 130
o-Xylene	50.00	50.8	102	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	77.1	77.1	8.36	20	40 - 140
Benzene	50.00	47.9	95.8	1.72	20	80 - 120
Bromobenzene	50.00	53.0	106	1.44	20	75 - 125
Bromochloromethane	50.00	52.6	105	0.244	20	65 - 130
Bromodichloromethane	**50.00**	**61.9**	**124 ***	**14.0**	**20**	**75 - 120**
Bromoform	50.00	51.1	102	0.125	20	70 - 130
Bromomethane	50.00	45.0	89.9	13.2	20	30 - 145
n-Butylbenzene	50.00	45.3	90.7	6.05	20	70 - 135
2-Butanone	100.0	73.5	73.5	6.37	20	30 - 150
sec-Butylbenzene	50.00	46.6	93.2	1.10	20	70 - 125
tert-Butylbenzene	50.00	48.4	96.9	5.54	20	70 - 130
Carbon disulfide	50.00	47.7	95.4	1.97	20	35 - 160
Carbon tetrachloride	50.00	53.4	107	0.209	20	65 - 140
Chlorobenzene	50.00	50.9	102	0.289	20	80 - 120
Chloroethane	50.00	66.0	132	4.36	20	60 - 135
Chloroform	50.00	50.9	102	2.65	20	65 - 135
Chloromethane	50.00	51.5	103	17.6	20	40 - 125
2-Chlorotoluene	50.00	45.4	90.8	1.52	20	75 - 125
4-Chlorotoluene	50.00	48.4	96.7	1.30	20	75 - 130
Dibromochloromethane	50.00	54.0	108	2.35	20	60 - 135
1,2-Dibromo-3-chloropropane	50.00	41.4	82.9	2.51	20	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.0	97.9	0.924	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F23023	Laboratory ID:	1F23023-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	50.4	101	1.61	20	75 - 125
1,2-Dichlorobenzene	50.00	51.6	103	1.15	20	70 - 120
1,3-Dichlorobenzene	50.00	51.3	103	0.287	20	75 - 125
1,4-Dichlorobenzene	50.00	51.1	102	2.59	20	75 - 125
Dichlorodifluoromethane	50.00	63.9	128	10.5	20	30 - 155
1,1-Dichloroethane	50.00	49.7	99.3	0.876	20	70 - 135
1,2-Dichloroethane	50.00	56.3	113	0.606	20	70 - 130
1,1-Dichloroethene	50.00	50.0	100	3.33	20	70 - 130
cis-1,2-Dichloroethene	50.00	48.5	97.1	0.264	20	70 - 125
trans-1,2-Dichloroethene	50.00	52.2	104	0.886	20	60 - 140
1,2-Dichloropropane	50.00	45.8	91.6	2.94	20	75 - 125
1,3-Dichloropropane	50.00	48.6	97.2	0.305	20	75 - 125
2,2-Dichloropropane	50.00	47.8	95.6	10.4	20	70 - 135
1,1-Dichloropropene	50.00	49.4	98.8	2.38	20	75 - 130
cis-1,3-Dichloropropene	50.00	45.6	91.2	1.36	20	70 - 130
trans-1,3-Dichloropropene	50.00	54.8	110	1.36	20	55 - 140
Ethylbenzene	50.00	50.4	101	2.62	20	75 - 125
Hexachlorobutadiene	50.00	48.3	96.6	15.6	20	50 - 140
2-Hexanone	100.0	79.0	79.0	7.65	20	55 - 130
Isopropylbenzene	50.00	52.4	105	2.38	20	75 - 125
p-Isopropyltoluene	50.00	49.9	99.9	0.755	20	75 - 130
Methylene chloride	50.00	51.0	102	3.88	20	55 - 140
Naphthalene	50.00	36.2	72.4	13.1	20	55 - 140
4-Methyl-2-pentanone	100.0	76.6	76.6	6.74	20	60 - 135
Methyl t-Butyl Ether	50.00	45.9	91.8	1.96	20	65 - 125
n-Propylbenzene	50.00	45.0	90.1	0.994	20	70 - 130
Styrene	50.00	49.7	99.4	2.75	20	65 - 135
1,1,2,2-Tetrachloroethane	50.00	37.9	75.8	1.89	20	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.6	107	1.61	20	80 - 130
Tetrachloroethene	50.00	56.8	114	3.51	20	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F23023	Laboratory ID:	1F23023-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	99.3	4.11	20	75 - 120
1,2,3-Trichlorobenzene	50.00	44.9	89.8	14.6	20	55 - 140
1,2,4-Trichlorobenzene	50.00	50.7	101	4.66	20	65 - 135
1,1,2-Trichloroethane	50.00	45.8	91.6	0.156	20	75 - 125
1,1,1-Trichloroethane	50.00	52.0	104	0.311	20	65 - 130
Trichloroethene	50.00	48.8	97.6	1.12	20	70 - 125
Trichlorofluoromethane	50.00	56.1	112	0.202	20	60 - 145
1,2,3-Trichloropropane	50.00	43.6	87.1	2.60	20	75 - 125
1,3,5-Trimethylbenzene	50.00	46.8	93.6	0.998	20	75 - 130
1,2,4-Trimethylbenzene	50.00	48.9	97.9	4.68	20	75 - 130
Vinyl chloride	50.00	48.9	97.7	0.0348	20	50 - 145
m,p-Xylene	100.0	99.2	99.2	0.654	20	75 - 130
o-Xylene	50.00	49.9	99.9	1.67	20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F22004

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acetone	5000	670	3760	61.9		40 - 140
Benzene	2500	602	2790	87.5		80 - 120
Bromobenzene	2500	ND	2410	96.4		75 - 125
Bromochloromethane	2500	ND	2290	91.4		65 - 130
Bromodichloromethane	2500	ND	2330	93.4		75 - 120
Bromoform	2500	ND	2070	82.7		70 - 130
Bromomethane	2500	ND	2300	91.9		30 - 145
n-Butylbenzene	2500	ND	2300	92.1		70 - 135
2-Butanone	5000	ND	3320	66.4		30 - 150
sec-Butylbenzene	2500	ND	2300	92.2		70 - 125
tert-Butylbenzene	2500	ND	2240	89.6		70 - 130
Carbon disulfide	2500	ND	2150	86.1		35 - 160
Carbon tetrachloride	2500	ND	2130	85.2		65 - 140
Chlorobenzene	2500	ND	2310	92.3		80 - 120
Chloroethane	2500	ND	2510	101		60 - 135
Chloroform	2500	ND	2240	89.7		65 - 135
Chloromethane	2500	ND	2310	92.2		40 - 125
2-Chlorotoluene	2500	ND	2270	91.0		75 - 125
4-Chlorotoluene	2500	ND	2350	94.1		75 - 130
Dibromochloromethane	2500	ND	2370	94.9		60 - 135
1,2-Dibromo-3-chloropropane	2500	ND	1740	69.5		50 - 130
1,2-Dibromoethane (EDB)	2500	38.4	2290	89.9		80 - 120
Dibromomethane	2500	ND	2120	84.7		75 - 125
1,2-Dichlorobenzene	2500	ND	2350	93.9		70 - 120
1,3-Dichlorobenzene	2500	ND	2390	95.7		75 - 125
1,4-Dichlorobenzene	2500	ND	2270	90.7		75 - 125
Dichlorodifluoromethane	2500	ND	2880	115		30 - 155
1,1-Dichloroethane	2500	ND	2280	91.0		70 - 135
1,2-Dichloroethane	2500	ND	2360	94.2		70 - 130
1,1-Dichloroethene	2500	ND	2310	92.4		70 - 130
cis-1,2-Dichloroethene	2500	ND	2160	86.4		70 - 125
trans-1,2-Dichloroethene	2500	ND	2410	96.5		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F22004

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dichloropropane	2500	ND	2100	83.9		75 - 125
1,3-Dichloropropane	2500	ND	2330	93.0		75 - 125
2,2-Dichloropropane	2500	ND	2340	93.8		70 - 135
1,1-Dichloropropene	2500	ND	2200	88.1		75 - 130
cis-1,3-Dichloropropene	2500	ND	2040	81.8		70 - 130
trans-1,3-Dichloropropene	2500	ND	2420	96.9		55 - 140
Ethylbenzene	2500	276	2660	95.2		75 - 125
Hexachlorobutadiene	2500	ND	2460	98.3		50 - 140
2-Hexanone	5000	65.7	3710	72.9		55 - 130
Isopropylbenzene	2500	28.7	2400	94.7		75 - 125
p-Isopropyltoluene	2500	ND	2490	99.8		75 - 130
Methylene chloride	2500	30.8	2270	89.6		55 - 140
Naphthalene	2500	77.8	1820	69.7		55 - 140
4-Methyl-2-pentanone	5000	ND	3400	68.0		60 - 135
Methyl t-Butyl Ether	2500	ND	2010	80.5		65 - 125
n-Propylbenzene	2500	52.1	2430	95.1		70 - 130
Styrene	2500	ND	2320	92.9		65 - 135
1,1,2,2-Tetrachloroethane	2500	ND	1950	78.1		65 - 130
1,1,1,2-Tetrachloroethane	2500	ND	2350	94.1		80 - 130
Tetrachloroethene	2500	ND	2300	92.2		45 - 150
Toluene	2500	2360	4240	75.0		75 - 120
1,2,3-Trichlorobenzene	2500	ND	2140	85.6		55 - 140
1,2,4-Trichlorobenzene	2500	ND	2350	94.0		65 - 135
1,1,2-Trichloroethane	2500	ND	2200	88.0		75 - 125
1,1,1-Trichloroethane	2500	ND	2170	86.7		65 - 130
Trichloroethene	2500	ND	2180	87.2		70 - 125
Trichlorofluoromethane	2500	ND	2420	96.8		60 - 145
1,2,3-Trichloropropane	2500	ND	1870	74.9	*	75 - 125
1,3,5-Trimethylbenzene	2500	40.1	2290	90.1		75 - 130
1,2,4-Trimethylbenzene	2500	97.6	2370	90.8		75 - 130
Vinyl chloride	2500	ND	2170	86.9		50 - 145
m,p-Xylene	5000	869	5490	92.5		75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F22004

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
o-Xylene	2500	354	2680	93.0		80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F22004

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	5000	4010	66.8	6.26		30	40 - 140
Benzene	2500	2810	88.5	0.860		30	80 - 120
Bromobenzene	2500	2350	94.0	2.48		30	75 - 125
Bromochloromethane	2500	2390	95.5	4.35		30	65 - 130
Bromodichloromethane	2500	2430	97.3	4.18		30	75 - 120
Bromoform	2500	2040	81.6	1.31		30	70 - 130
Bromomethane	2500	2360	94.5	2.78		30	30 - 145
n-Butylbenzene	2500	2240	89.6	2.74		30	70 - 135
2-Butanone	5000	3510	70.2	5.57		30	30 - 150
sec-Butylbenzene	2500	2150	86.1	6.83		30	70 - 125
tert-Butylbenzene	2500	2220	89.0	0.726		30	70 - 130
Carbon disulfide	2500	2190	87.7	1.85		30	35 - 160
Carbon tetrachloride	2500	2130	85.1	0.0737		30	65 - 140
Chlorobenzene	2500	2280	91.2	1.12		30	80 - 120
Chloroethane	2500	2550	102	1.48		30	60 - 135
Chloroform	2500	2270	90.7	1.09		30	65 - 135
Chloromethane	2500	2340	93.6	1.47		30	40 - 125
2-Chlorotoluene	2500	2230	89.2	1.92		30	75 - 125
4-Chlorotoluene	2500	2330	93.3	0.894		30	75 - 130
Dibromochloromethane	2500	2320	92.9	2.11		30	60 - 135
1,2-Dibromo-3-chloropropane	2500	1780	71.1	2.20		30	50 - 130
1,2-Dibromoethane (EDB)	2500	2230	87.5	2.64		30	80 - 120
Dibromomethane	2500	2250	89.9	5.98		30	75 - 125
1,2-Dichlorobenzene	2500	2320	92.8	1.24		30	70 - 120
1,3-Dichlorobenzene	2500	2260	90.4	5.67		30	75 - 125
1,4-Dichlorobenzene	2500	2250	89.9	0.864		30	75 - 125
Dichlorodifluoromethane	2500	2770	111	4.00		30	30 - 155
1,1-Dichloroethane	2500	2280	91.0	0.00110		30	70 - 135
1,2-Dichloroethane	2500	2430	97.3	3.24		30	70 - 130
1,1-Dichloroethene	2500	2310	92.4	0.0634		30	70 - 130
cis-1,2-Dichloroethene	2500	2140	85.5	1.08		30	70 - 125
trans-1,2-Dichloroethene	2500	2370	94.9	1.74		30	60 - 140
1,2-Dichloropropane	2500	2150	85.9	2.38		30	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F22004

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichloropropane	2500	2210	88.4	5.12		30	75 - 125
2,2-Dichloropropane	2500	2340	93.7	0.0491		30	70 - 135
1,1-Dichloropropene	2500	2190	87.4	0.739		30	75 - 130
cis-1,3-Dichloropropene	2500	2140	85.6	4.54		30	70 - 130
trans-1,3-Dichloropropene	2500	2500	100	3.32		30	55 - 140
Ethylbenzene	2500	2570	91.6	3.41		30	75 - 125
Hexachlorobutadiene	2500	2380	95.3	3.13		30	50 - 140
2-Hexanone	5000	3660	71.8	1.40		30	55 - 130
Isopropylbenzene	2500	2310	91.4	3.55		30	75 - 125
p-Isopropyltoluene	2500	2390	95.5	4.37		30	75 - 130
Methylene chloride	2500	2380	94.1	4.75		30	55 - 140
Naphthalene	2500	1790	68.7	1.38		30	55 - 140
4-Methyl-2-pentanone	5000	3610	72.2	6.05		30	60 - 135
Methyl t-Butyl Ether	2500	2040	81.6	1.34		30	65 - 125
n-Propylbenzene	2500	2340	91.4	3.87		30	70 - 130
Styrene	2500	2320	92.8	0.0739		30	65 - 135
1,1,2,2-Tetrachloroethane	2500	1920	76.6	1.85		30	65 - 130
1,1,1,2-Tetrachloroethane	2500	2290	91.4	2.84		30	80 - 130
Tetrachloroethene	2500	2270	91.0	1.32		30	45 - 150
Toluene	2500	4530	86.8	6.77		30	75 - 120
1,2,3-Trichlorobenzene	2500	2070	82.9	3.16		30	55 - 140
1,2,4-Trichlorobenzene	2500	2210	88.6	5.91		30	65 - 135
1,1,2-Trichloroethane	2500	2210	88.2	0.280		30	75 - 125
1,1,1-Trichloroethane	2500	2190	87.6	1.02		30	65 - 130
Trichloroethene	2500	2130	85.2	2.31		30	70 - 125
Trichlorofluoromethane	2500	2400	96.1	0.722		30	60 - 145
1,2,3-Trichloropropane	2500	1870	74.7	0.292	*	30	75 - 125
1,3,5-Trimethylbenzene	2500	2250	88.5	1.76		30	75 - 130
1,2,4-Trimethylbenzene	2500	2340	89.8	1.11		30	75 - 130
Vinyl chloride	2500	2170	86.8	0.0942		30	50 - 145
m,p-Xylene	5000	5310	88.7	3.48		30	75 - 130
o-Xylene	2500	2600	90.0	2.87		30	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F17010 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8061-TB	1106155-03	06/17/11 00:00	5.00	5.00
Blank	1F17010-BLK1	06/17/11 00:00	5.00	5.00
LCS	1F17010-BS1	06/17/11 00:00	5.00	5.00
LCS Dup	1F17010-BSD1	06/17/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F21001 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0094	1106188-01	06/21/11 00:00	5.00	5.00
GW8063-TB	1106188-03	06/21/11 00:00	5.00	5.00
Blank	1F21001-BLK1	06/21/11 00:00	5.00	5.00
LCS	1F21001-BS1	06/21/11 00:00	5.00	5.00
LCS Dup	1F21001-BSD1	06/21/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F22004 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0046	1106155-01	06/22/11 00:00	5.00	5.00
GW0082	1106179-01	06/22/11 00:00	5.00	5.00
GW8062-TB	1106179-03	06/22/11 00:00	5.00	5.00
GW0096	1106195-01	06/22/11 00:00	5.00	5.00
GW8064-TB	1106195-03	06/22/11 00:00	5.00	5.00
Blank	1F22004-BLK1	06/22/11 00:00	5.00	5.00
LCS	1F22004-BS1	06/22/11 00:00	5.00	5.00
GW0046	1F22004-MS2	06/22/11 00:00	5.00	5.00
GW0046	1F22004-MSD2	06/22/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F23023 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0095	1106203-01	06/23/11 00:00	5.00	5.00
GW8065-TB	1106203-03	06/23/11 00:00	5.00	5.00
Blank	1F23023-BLK1	06/23/11 00:00	5.00	5.00
LCS	1F23023-BS1	06/23/11 00:00	5.00	5.00
LCS Dup	1F23023-BSD1	06/23/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0601TU1.D	Injection Date:	06/01/11
Instrument ID:	MS-VOA4	Injection Time:	09:04
Sequence:	1F15404	Lab Sample ID:	1F15404-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.7	PASS
75	30 - 60% of 95	41.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.12	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	106	PASS
175	5 - 9% of 174	7.41	PASS
176	95 - 101% of 174	97.5	PASS
177	5 - 9% of 176	6.85	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0601TU2.D	Injection Date:	06/01/11
Instrument ID:	MS-VOA4	Injection Time:	23:49
Sequence:	1F15404	Lab Sample ID:	1F15404-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.9	PASS
75	30 - 60% of 95	41.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.77	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	116	PASS
175	5 - 9% of 174	7.33	PASS
176	95 - 101% of 174	97	PASS
177	5 - 9% of 176	6.74	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0601TU3.D	Injection Date:	06/02/11
Instrument ID:	MS-VOA4	Injection Time:	06:07
Sequence:	1F15404	Lab Sample ID:	1F15404-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.3	PASS
75	30 - 60% of 95	41.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.72	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	122	PASS
175	5 - 9% of 174	6.95	PASS
176	95 - 101% of 174	96.7	PASS
177	5 - 9% of 176	6.61	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0617TU1E.D	Injection Date:	06/17/11
Instrument ID:	MS-VOA4	Injection Time:	19:02
Sequence:	1F17105	Lab Sample ID:	1F17105-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	24.3	PASS
75	30 - 60% of 95	45.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.03	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	86.2	PASS
175	5 - 9% of 174	7.8	PASS
176	95 - 101% of 174	95.4	PASS
177	5 - 9% of 176	7.51	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0621TU1.D	Injection Date:	06/21/11
Instrument ID:	MS-VOA4	Injection Time:	06:59
Sequence:	1F17211	Lab Sample ID:	1F17211-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.1	PASS
75	30 - 60% of 95	42.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.98	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	124	PASS
175	5 - 9% of 174	7.29	PASS
176	95 - 101% of 174	95	PASS
177	5 - 9% of 176	6.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0622TU1.D	Injection Date:	06/22/11
Instrument ID:	MS-VOA4	Injection Time:	07:14
Sequence:	1F17406	Lab Sample ID:	1F17406-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.7	PASS
75	30 - 60% of 95	43.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.79	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	112	PASS
175	5 - 9% of 174	7.74	PASS
176	95 - 101% of 174	98.3	PASS
177	5 - 9% of 176	6.62	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0623TU1E.D	Injection Date:	06/23/11
Instrument ID:	MS-VOA4	Injection Time:	16:07
Sequence:	1F17503	Lab Sample ID:	1F17503-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	24.7	PASS
75	30 - 60% of 95	45	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	103	PASS
175	5 - 9% of 174	8.28	PASS
176	95 - 101% of 174	95.4	PASS
177	5 - 9% of 176	6.98	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F15404	Instrument:	MS-VOA4
Calibration:	1154004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1F15404-TUN1	0601TU1.D	06/01/11 09:04
Cal Standard	1F15404-CAL1	0601CAL1.D	06/01/11 09:44
Cal Standard	1F15404-CAL2	0601CAL2.D	06/01/11 10:15
Cal Standard	1F15404-CAL3	0601CAL3.D	06/01/11 10:47
Cal Standard	1F15404-CAL4	0601CAL4.D	06/01/11 11:22
Cal Standard	1F15404-CAL5	0601CAL5.D	06/01/11 11:57
Cal Standard	1F15404-CAL6	0601CAL6.D	06/01/11 12:33
Cal Standard	1F15404-CAL7	0601CAL7.D	06/01/11 13:16
Cal Standard	1F15404-CAL8	0601CAL8.D	06/01/11 14:07
Cal Standard	1F15404-CAL9	0601CAL9.D	06/01/11 14:49
Initial Cal Check	1F15404-ICV2	0601ICV2.D	06/01/11 16:25
MS Tune	1F15404-TUN2	0601TU2.D	06/01/11 23:49
Cal Standard	1F15404-CALJ	0601CALJ.D	06/02/11 00:18
Cal Standard	1F15404-CALK	0601CALK.D	06/02/11 00:47
Cal Standard	1F15404-CALL	0601CALL.D	06/02/11 01:15
Cal Standard	1F15404-CALM	0601CALM.D	06/02/11 01:44
Cal Standard	1F15404-CALN	0601CALN.D	06/02/11 02:13
Cal Standard	1F15404-CALO	0601CALO.D	06/02/11 02:40
Cal Standard	1F15404-CALP	0601CALP.D	06/02/11 03:08
Cal Standard	1F15404-CALQ	0601CALQ.D	06/02/11 03:36
Cal Standard	1F15404-CALR	0601CALR.D	06/02/11 04:04
MS Tune	1F15404-TUN3	0601TU3.D	06/02/11 06:07
Cal Standard	1F15404-CALA	601CALA.D	06/02/11 06:47
Cal Standard	1F15404-CALB	601CALB.D	06/02/11 07:14
Cal Standard	1F15404-CALC	601CALC.D	06/02/11 07:43
Cal Standard	1F15404-CALD	601CALD.D	06/02/11 08:13
Cal Standard	1F15404-CALE	601CALE.D	06/02/11 08:44
Cal Standard	1F15404-CALF	601CALF.D	06/02/11 09:17
Cal Standard	1F15404-CALG	601CALG.D	06/02/11 09:50
Cal Standard	1F15404-CALH	601CALH.D	06/02/11 10:26
Cal Standard	1F15404-CALI	601CALI.D	06/02/11 11:07
Initial Cal Check	1F15404-ICV4	601ICV4.D	06/02/11 13:27

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17105	Instrument:	MS-VOA4
Calibration:	1154004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1F17105-TUN1	0617TU1E.D	06/17/11 19:02
Calibration Check	1F17105-CCV1	0617CCVE.D	06/17/11 19:28
LCS	1F17010-BS1	0617LCSE.D	06/17/11 19:55
Blank	1F17010-BLK1	0617BLKE.D	06/17/11 21:12
GW8061-TB	1106155-03	0615503.D	06/18/11 00:42
LCS Dup	1F17010-BSD1	0617LCDE.D	06/18/11 06:22

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17211	Instrument:	MS-VOA4
Calibration:	1154004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1F17211-TUN1	0621TU1.D	06/21/11 06:59
Calibration Check	1F17211-CCV1	0621CCV1.D	06/21/11 07:26
LCS	1F21001-BS1	0621LCS1.D	06/21/11 07:52
Blank	1F21001-BLK1	0621BLK1.D	06/21/11 09:09
GW8063-TB	1106188-03	0618803.D	06/21/11 10:55
GW0094	1106188-01	0618801D.D	06/21/11 16:39
LCS Dup	1F21001-BSD1	0621LCD1.D	06/21/11 18:51

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17406	Instrument:	MS-VOA4
Calibration:	1154004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1F17406-TUN1	0622TU1.D	06/22/11 07:14
Calibration Check	1F17406-CCV1	0622CCV1.D	06/22/11 07:41
LCS	1F22004-BS1	0622LCS1.D	06/22/11 08:07
Blank	1F22004-BLK1	0622BLK1.D	06/22/11 09:24
GW8062-TB	1106179-03	0617903.D	06/22/11 09:50
GW8064-TB	1106195-03	0619503.D	06/22/11 10:17
GW0096	1106195-01	0619501.D	06/22/11 13:21
GW0082	1106179-01	0617901D.D	06/22/11 16:54
GW0046	1106155-01	0615501D.D	06/22/11 17:20
GW0046	1F22004-MS2	0615501M.D	06/22/11 18:40
GW0046	1F22004-MSD2	0615501S.D	06/22/11 19:06

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17503	Instrument:	MS-VOA4
Calibration:	1154004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1F17503-TUN1	0623TU1E.D	06/23/11 16:07
Calibration Check	1F17503-CCV1	0623CCVE.D	06/23/11 16:33
LCS	1F23023-BS1	0623LCSE.D	06/23/11 16:59
Blank	1F23023-BLK1	0623BLKE.D	06/23/11 18:17
GW8065-TB	1106203-03	0620303.D	06/23/11 18:44
GW0095	1106203-01	0620301.D	06/23/11 20:29
LCS Dup	1F23023-BSD1	0623LCDE.D	06/23/11 23:59

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17105	Instrument:	MS-VOA4
		Calibration:	1154004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1F17105-CCV1)			Lab File ID: 0617CCVE.D			Analyzed: 06/17/11 19:28			
Fluorobenzene	943973	8.009	915142	7.963	103	50 - 200	0.0460	+/-0.50	
Chlorobenzene-d5	360217	11.127	341298	11.1	106	50 - 200	0.0270	+/-0.50	
1,4-Dichlorobenzene-d4	475978	13.524	488604	13.507	97	50 - 200	0.0170	+/-0.50	
LCS (1F17010-BS1)			Lab File ID: 0617LCSE.D			Analyzed: 06/17/11 19:55			
Fluorobenzene	983268	8.013	943973	8.009	104	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	372790	11.12	360217	11.127	103	50 - 200	-0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	476715	13.518	475978	13.524	100	50 - 200	-0.0060	+/-0.50	
Blank (1F17010-BLK1)			Lab File ID: 0617BLKE.D			Analyzed: 06/17/11 21:12			
Fluorobenzene	1025772	8.017	943973	8.009	109	50 - 200	0.0080	+/-0.50	
Chlorobenzene-d5	403503	11.124	360217	11.127	112	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	478475	13.521	475978	13.524	101	50 - 200	-0.0030	+/-0.50	
GW8061-TB (1106155-03)			Lab File ID: 0615503.D			Analyzed: 06/18/11 00:42			
Fluorobenzene	918078	8.012	943973	8.009	97	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	377987	11.129	360217	11.127	105	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	418779	13.526	475978	13.524	88	50 - 200	0.0020	+/-0.50	
LCS Dup (1F17010-BSD1)			Lab File ID: 0617LCDE.D			Analyzed: 06/18/11 06:22			
Fluorobenzene	917295	8.018	943973	8.009	97	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	364628	11.125	360217	11.127	101	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	462041	13.522	475978	13.524	97	50 - 200	-0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17211	Instrument:	MS-VOA4
		Calibration:	1154004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1F17211-CCV1)			Lab File ID: 0621CCV1.D			Analyzed: 06/21/11 07:26			
Fluorobenzene	1056739	8.01	915142	7.963	115	50 - 200	0.0470	+/-0.50	
Chlorobenzene-d5	394548	11.127	341298	11.1	116	50 - 200	0.0270	+/-0.50	
1,4-Dichlorobenzene-d4	552137	13.524	488604	13.507	113	50 - 200	0.0170	+/-0.50	
LCS (1F21001-BS1)			Lab File ID: 0621LCS1.D			Analyzed: 06/21/11 07:52			
Fluorobenzene	1035552	8.009	1056739	8.01	98	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	405046	11.127	394548	11.127	103	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	535468	13.524	552137	13.524	97	50 - 200	0.0000	+/-0.50	
Blank (1F21001-BLK1)			Lab File ID: 0621BLK1.D			Analyzed: 06/21/11 09:09			
Fluorobenzene	954243	8.008	1056739	8.01	90	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	392800	11.126	394548	11.127	100	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	475414	13.523	552137	13.524	86	50 - 200	-0.0010	+/-0.50	
GW8063-TB (1106188-03)			Lab File ID: 0618803.D			Analyzed: 06/21/11 10:55			
Fluorobenzene	976833	8.008	1056739	8.01	92	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	407931	11.125	394548	11.127	103	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	467016	13.522	552137	13.524	85	50 - 200	-0.0020	+/-0.50	
GW0094 (1106188-01)			Lab File ID: 0618801D.D			Analyzed: 06/21/11 16:39			
Fluorobenzene	907109	8.009	1056739	8.01	86	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	375211	11.126	394548	11.127	95	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	449869	13.523	552137	13.524	81	50 - 200	-0.0010	+/-0.50	
LCS Dup (1F21001-BSD1)			Lab File ID: 0621LCD1.D			Analyzed: 06/21/11 18:51			
Fluorobenzene	954457	8.004	1056739	8.01	90	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	381869	11.121	394548	11.127	97	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	479882	13.518	552137	13.524	87	50 - 200	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17406	Instrument:	MS-VOA4
		Calibration:	1154004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1F17406-CCV1)			Lab File ID: 0622CCV1.D			Analyzed: 06/22/11 07:41			
Fluorobenzene	1397860	8.019	915142	7.963	153	50 - 200	0.0560	+/-0.50	
Chlorobenzene-d5	492712	11.126	341298	11.1	144	50 - 200	0.0260	+/-0.50	
1,4-Dichlorobenzene-d4	707128	13.524	488604	13.507	145	50 - 200	0.0170	+/-0.50	
LCS (1F22004-BS1)			Lab File ID: 0622LCS1.D			Analyzed: 06/22/11 08:07			
Fluorobenzene	1352004	8.014	1397860	8.019	97	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	501480	11.131	492712	11.126	102	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	686938	13.528	707128	13.524	97	50 - 200	0.0040	+/-0.50	
Blank (1F22004-BLK1)			Lab File ID: 0622BLK1.D			Analyzed: 06/22/11 09:24			
Fluorobenzene	1335106	8.009	1397860	8.019	96	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	516584	11.126	492712	11.126	105	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	615435	13.524	707128	13.524	87	50 - 200	0.0000	+/-0.50	
GW8062-TB (1106179-03)			Lab File ID: 0617903.D			Analyzed: 06/22/11 09:50			
Fluorobenzene	1351552	8.014	1397860	8.019	97	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	517726	11.131	492712	11.126	105	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	586950	13.528	707128	13.524	83	50 - 200	0.0040	+/-0.50	
GW8064-TB (1106195-03)			Lab File ID: 0619503.D			Analyzed: 06/22/11 10:17			
Fluorobenzene	1345964	8.014	1397860	8.019	96	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	532564	11.131	492712	11.126	108	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	610695	13.528	707128	13.524	86	50 - 200	0.0040	+/-0.50	
GW0096 (1106195-01)			Lab File ID: 0619501.D			Analyzed: 06/22/11 13:21			
Fluorobenzene	1216999	8.014	1397860	8.019	87	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	471250	11.131	492712	11.126	96	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	559436	13.528	707128	13.524	79	50 - 200	0.0040	+/-0.50	
GW0082 (1106179-01)			Lab File ID: 0617901D.D			Analyzed: 06/22/11 16:54			
Fluorobenzene	1273580	8.005	1397860	8.019	91	50 - 200	-0.0140	+/-0.50	
Chlorobenzene-d5	501039	11.123	492712	11.126	102	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	599721	13.52	707128	13.524	85	50 - 200	-0.0040	+/-0.50	
GW0046 (1106155-01)			Lab File ID: 0615501D.D			Analyzed: 06/22/11 17:20			
Fluorobenzene	1260793	8.015	1397860	8.019	90	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	496872	11.132	492712	11.126	101	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	611166	13.519	707128	13.524	86	50 - 200	-0.0050	+/-0.50	
Matrix Spike (1F22004-MS2)			Lab File ID: 0615501M.D			Analyzed: 06/22/11 18:40			
Fluorobenzene	1376854	8.014	1397860	8.019	98	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	501427	11.131	492712	11.126	102	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	666605	13.528	707128	13.524	94	50 - 200	0.0040	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17406	Instrument:	MS-VOA4
		Calibration:	1154004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (1F22004-MSD2)			Lab File ID: 0615501S.D			Analyzed: 06/22/11 19:06			
Fluorobenzene	1333238	8.01	1397860	8.019	95	50 - 200	-0.0090	+/-0.50	
Chlorobenzene-d5	506878	11.127	492712	11.126	103	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	675322	13.524	707128	13.524	96	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17503	Instrument:	MS-VOA4
		Calibration:	1154004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1F17503-CCV1)			Lab File ID: 0623CCVE.D			Analyzed: 06/23/11 16:33			
Fluorobenzene	1239691	8.023	915142	7.963	135	50 - 200	0.0600	+/-0.50	
Chlorobenzene-d5	450116	11.131	341298	11.1	132	50 - 200	0.0310	+/-0.50	
1,4-Dichlorobenzene-d4	691281	13.528	488604	13.507	141	50 - 200	0.0210	+/-0.50	
LCS (1F23023-BS1)			Lab File ID: 0623LCSE.D			Analyzed: 06/23/11 16:59			
Fluorobenzene	1189650	8.015	1239691	8.023	96	50 - 200	-0.0080	+/-0.50	
Chlorobenzene-d5	471635	11.132	450116	11.131	105	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	680214	13.529	691281	13.528	98	50 - 200	0.0010	+/-0.50	
Blank (1F23023-BLK1)			Lab File ID: 0623BLKE.D			Analyzed: 06/23/11 18:17			
Fluorobenzene	1273133	8.02	1239691	8.023	103	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	495722	11.137	450116	11.131	110	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	666848	13.534	691281	13.528	96	50 - 200	0.0060	+/-0.50	
GW8065-TB (1106203-03)			Lab File ID: 0620303.D			Analyzed: 06/23/11 18:44			
Fluorobenzene	1323972	8.019	1239691	8.023	107	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	517085	11.136	450116	11.131	115	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	722439	13.533	691281	13.528	105	50 - 200	0.0050	+/-0.50	
GW0095 (1106203-01)			Lab File ID: 0620301.D			Analyzed: 06/23/11 20:29			
Fluorobenzene	1313740	8.025	1239691	8.023	106	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	504584	11.132	450116	11.131	112	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	699405	13.529	691281	13.528	101	50 - 200	0.0010	+/-0.50	
LCS Dup (1F23023-BSD1)			Lab File ID: 0623LCDE.D			Analyzed: 06/23/11 23:59			
Fluorobenzene	1187169	8.024	1239691	8.023	96	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	477600	11.142	450116	11.131	106	50 - 200	0.0110	+/-0.50	
1,4-Dichlorobenzene-d4	679227	13.529	691281	13.528	98	50 - 200	0.0010	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Calibration: 1154004

Instrument: MS-VOA4

Matrix: Water

Calibration Dates: 6/1/11 9:44 6/2/11 11:07

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	~~5.568948E-02~~	5.002	3.585282E-02	10	2.987789E-02	25.01	1.777999E-02	50.02	1.273603E-02	250.1	1.211425E-02
Acrylonitrile	2.499	0.124854	4.998	0.134431	9.996	0.1302964	24.99	0.1242613	49.98	0.1252671	249.9	0.1304118
Benzene	0.5	1.08056	1	0.9719515	2	0.9334702	5	0.9247691	10	0.9081825	50	0.8875279
Bromobenzene	0.5	0.705512	1	0.7342649	2	0.7065945	5	0.7045195	10	0.6736183	50	0.6824926
Bromochloromethane	0.5	0.1621672	1	0.1624302	2	0.1520382	5	0.1451715	10	0.1435562	50	0.1385933
Tert-Amyl Methyl Ether	0.5	0.8006564	1	0.8201087	2	0.7770061	5	0.772233	10	0.7589769	50	0.7360608
Bromodichloromethane	0.5	0.3485986	1	0.3709666	2	0.3427021	5	0.331761	10	0.3143367	50	0.3167253
Bromoform	0.5	0.6739485	1	0.7085094	2	0.6980391	5	0.6988144	10	0.7139334	50	0.7781807
Bromomethane	0.5	0.2278535	1	0.1640012	2	0.1444606	5	0.1366239	10	0.1470018	50	0.1617592
Bromofluorobenzene												
n-Butylbenzene	0.5	1.391575	1	1.09733	2	1.069643	5	0.9938672	10	0.9714506	50	0.9633661
2-Butanone												
sec-Butylbenzene	0.5	1.672491	1	1.520738	2	1.452101	5	1.346056	10	1.33476	50	1.333908
tert-Butylbenzene	0.5	1.363982	1	1.125831	2	1.086495	5	1.038697	10	1.022863	50	1.041584
Carbon disulfide	0.5	1.004502	1	0.8525537	2	0.7881881	5	0.7818405	10	0.7843687	50	0.7681532
Carbon tetrachloride	0.5	0.3327212	1	0.3062814	2	0.2799354	5	0.2805783	10	0.2876827	50	0.293355
Chlorobenzene	0.5	1.63174	1	1.53322	2	1.459515	5	1.435774	10	1.44176	50	1.550469
Chloroethane	0.5	0.2454595	1	0.171549	2	0.1635555	5	0.1334101	10	0.155297	50	0.1437858
Chloroform	0.5	0.5807416	1	0.5374268	2	0.4775231	5	0.4450467	10	0.4256098	50	0.4235655
2-Chloroethyl vinyl ether	0.9975	0.2008904	1.995	0.2146398	3.99	0.2169399	9.975	0.2018437	19.95	0.1928054	99.75	0.1969345
Chloromethane	0.5	0.3917493	1	0.2785494	2	0.2946045	5	0.2796278	10	0.280346	50	0.2796243
1-Chlorohexane	0.4992	1.760833	0.9984	1.454763	1.997	1.361809	4.992	1.266139	9.984	1.296945	49.92	1.324646
2-Chlorotoluene	0.5	1.56224	1	1.266946	2	1.258994	5	1.236761	10	1.187206	50	1.161849
4-Chlorotoluene	0.5	1.639671	1	1.511217	2	1.448345	5	1.386386	10	1.332319	50	1.319355
Cyclohexane	0.5	0.3926456	1	0.4150918	2	0.3994001	5	0.371572	10	0.3799964	50	0.3644676
Dibromochloromethane	0.5	0.650917	1	0.6933306	2	0.6566589	5	0.6566225	10	0.6402316	50	0.7020267
1,2-Dibromo-3-chloropropane	0.5		1	0.1742184	2	0.1640094	5	0.172407	10	0.1685599	50	0.1767754
1,2-Dibromoethane (EDB)	0.5	0.6324918	1	0.7347348	2	0.6809326	5	0.6604094	10	0.6808511	50	0.6956214
Dibromomethane	0.5	0.1994919	1	0.2255785	2	0.2041259	5	0.19632	10	0.1930743	50	0.1926447
1,2-Dichlorobenzene	0.5	0.9651559	1	1.040392	2	0.9990785	5	0.9581145	10	0.9449221	50	0.9693253

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1154004	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	6/1/11 9:44 6/2/11 11:07

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	1.077231	1	1.062398	2	1.050645	5	1.009996	10	0.9490391	50	0.9795653
1,4-Dichlorobenzene	0.5	1.213374	1	1.079234	2	1.089525	5	0.9704661	10	0.9644655	50	1.023404
Dichlorodifluoromethane	0.5	0.2489807	1	0.2558378	2	0.239298	5	0.2577666	10	0.2533815	50	0.2521754
1,1-Dichloroethane	0.5	0.5123663	1	0.5136565	2	0.4759808	5	0.4668122	10	0.4620641	50	0.4654421
1,2-Dichloroethane	0.5	0.3503272	1	0.3964103	2	0.3514533	5	0.3384486	10	0.3453712	50	0.3511849
1,1-Dichloroethene	0.5	0.2933478	1	0.2516712	2	0.2260372	5	0.2278092	10	0.2196439	50	0.2183092
cis-1,2-Dichloroethene	0.5	0.3713904	1	0.284731	2	0.3085694	5	0.2802774	10	0.2801232	50	0.2842319
trans-1,2-Dichloroethene	0.5	0.3634517	1	0.308433	2	0.2587785	5	0.2535065	10	0.2525243	50	0.2537653
1,2-Dichloroethene (total)	1	0.367421	2	0.296582	4	0.283674	10	0.2668919	20	0.2663238	100	0.2689986
1,2-Dichloropropane	0.5	0.2770863	1	0.2797789	2	0.284311	5	0.2794295	10	0.2674982	50	0.2606778
1,3-Dichloropropane	0.5	0.8138845	1	0.9923516	2	0.9146815	5	0.9336486	10	0.9422092	50	0.9579963
2,2-Dichloropropane	0.5	0.4452075	1	0.3900238	2	0.3358119	5	0.3117187	10	0.3166248	50	0.3031632
1,1-Dichloropropene	0.5	0.3891244	1	0.347811	2	0.3116373	5	0.310946	10	0.3130476	50	0.3182402
cis-1,3-Dichloropropene	0.5	0.4094193	1	0.4500301	2	0.4109844	5	0.396777	10	0.4076324	50	0.4011491
trans-1,3-Dichloropropene	0.5	0.8248443	1	0.884161	2	0.8648668	5	0.8333862	10	0.8513797	50	0.8719308
1,3-Dichloropropene (total)	1	0.3709422	2	0.4040605	4	0.3885701	10	0.3737055	20	0.3801229	100	0.3731731
Diisopropyl Ether	0.5	1.172431	1	1.23964	2	1.209416	5	1.203392	10	1.204272	50	1.202896
Ethylbenzene	0.5	2.922614	1	2.65476	2	2.393679	5	2.262886	10	2.324657	50	2.378517
Ethyl tert-Butyl Ether	0.5	0.8716566	1	0.9477373	2	0.9144927	5	0.8689707	10	0.8915415	50	0.8734095
Ethyl Methacrylate	0.5	1.087244	1	1.004832	2	0.8978918	5	0.8817377	10	0.8571731	50	0.9000604
Hexachlorobutadiene	0.5	~~0.1948545~~	1	0.1572569	2	0.1309677	5	0.1288282	10	0.1275904	50	0.1254285
2-Hexanone												
Iodomethane	0.5	0.3686374	1	0.3765335	2	0.3606403	5	0.3864789	10	0.4018885	50	0.4287394
Isopropylbenzene	0.5	2.272809	1	1.976439	2	1.869912	5	1.764564	10	1.759089	50	1.801335
p-Isopropyltoluene	0.5	1.252028	1	1.084404	2	1.058535	5	1.034042	10	0.9754861	50	1.017222
Methylene chloride	0.5	0.3338096	1	0.2958306	2	0.294001	5	0.2727624	10	0.2633675	50	0.2653206
Methyl Acetate	0.5	0.5081409	1	0.4734588	2	0.4085535	5	0.3141462	10	0.3462958	50	0.3247245
Methylcyclohexane	0.5	0.3065363	1	0.321855	2	0.259667	5	0.2458205	10	0.2474959	50	0.2441423
Naphthalene	0.5	1.155756	1	1.219655	2	1.199254	5	1.27896	10	1.203561	50	1.252348
Methyl Methacrylate	0.5	0.4048097	1	0.3682344	2	0.3482848	5	0.3460046	10	0.3364179	50	0.3257833
4-Methyl-2-pentanone												

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1154004	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	6/1/11 9:44 6/2/11 11:07

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
Methyl t-Butyl Ether	0.5	0.7393876	1	0.7793986	2	0.7247341	5	0.7121814	10	0.7286984	50	0.7215806
n-Propylbenzene	0.5	2.308716	1	1.974728	2	1.781887	5	1.857191	10	1.756166	50	1.741161
Styrene	0.5	1.689875	1	1.631292	2	1.573677	5	1.521929	10	1.552219	50	1.609894
1,1,2,2-Tetrachloroethane	0.5	0.6329429	1	0.6090394	2	0.6521561	5	0.6453142	10	0.6179003	50	0.6069466
1,1,1,2-Tetrachloroethane	0.5	0.5938943	1	0.5781409	2	0.5265784	5	0.5402212	10	0.5299112	50	0.5747226
tert-Butyl alcohol	2.5	3.541685E-02	5	3.834665E-02	10	3.544374E-02	25	3.912314E-02	50	3.697134E-02	250	3.576739E-02
Tetrachloroethene	0.5	1.016085	1	0.8774992	2	0.8226946	5	0.7708135	10	0.7923856	50	0.8307157
Toluene	0.5	1.575511	1	1.442317	2	1.361707	5	1.320705	10	1.341731	50	1.341295
1,2,3-Trichlorobenzene	0.5	0.5754469	1	0.5614967	2	0.5343798	5	0.5356452	10	0.5188969	50	0.5209851
1,2,4-Trichlorobenzene	0.5	0.6777972	1	0.6056345	2	0.5973705	5	0.5811193	10	0.5543059	50	0.5754435
1,1,2-Trichloroethane	0.5	0.504151	1	0.5423023	2	0.5233313	5	0.5023363	10	0.4953052	50	0.5035184
1,1,1-Trichloroethane	0.5	0.4332354	1	0.3887601	2	0.3569353	5	0.3563574	10	0.34066	50	0.342344
Tetrahydrofuran	0.5	~~0.1943701~~	1	0.136884	2	0.1230355	5	0.1151867	10	0.1100987	50	0.1126348
Trichloroethene	0.5	0.3304164	1	0.292996	2	0.2656185	5	0.2553733	10	0.2511171	50	0.2435681
Trichlorofluoromethane	0.5	0.3886763	1	0.4202831	2	0.375259	5	0.3817675	10	0.3781875	50	0.3853459
1,2,3-Trichloropropane	0.5	0.2514401	1	0.227428	2	0.2239285	5	0.2083587	10	0.2077013	50	0.2068384
1,3,5-Trimethylbenzene	0.5	1.481162	1	1.285231	2	1.291184	5	1.248661	10	1.231514	50	1.229488
1,2,4-Trimethylbenzene	0.5	1.581689	1	1.445074	2	1.373078	5	1.258666	10	1.260697	50	1.27432
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2703	1	0.2629074	2	0.236951	5	0.2321581	10	0.2312126	50	0.2387872
Vinyl chloride	0.5	0.3096734	1	0.2409131	2	0.2087362	5	0.2281921	10	0.2278378	50	0.2013283
m,p-Xylene	1	2.298938	2	2.094665	4	1.896383	10	1.76315	20	1.767213	100	1.774028
o-Xylene	0.5	2.266614	1	2.152934	2	1.940119	5	1.849322	10	1.799195	50	1.845254
Vinyl acetate	1.001	0.4756544	2.002	0.4748453	4.004	0.4065627	10.01	0.3915407	20.02	0.3978746	100.1	0.4077153
Xylenes (total)	1.5	2.288163	3	2.114088	6	1.910962	15	1.791874	30	1.777873	150	1.79777
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol	2.5	2.977013E-02	5	2.902296E-02	10	2.755431E-02	25	3.010924E-02	50	3.044453E-02	250	2.943999E-02
tert-Amyl ethyl ether	0.5	0.7011026	1	0.7621857	2	0.7088412	5	0.7054528	10	0.7085848	50	0.6993899

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1154004	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	6/1/11 9:44 6/2/11 11:07

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	~~0.2500121~~	2	0.1535402	4	0.146459
Acrolein	500.2	1.182615E-02	750.3	1.193273E-02	1000	1.131899E-02						
Acrylonitrile	499.8	0.1274407	749.7	0.1285044	999.6	0.1289924						
Benzene	100	0.8663655	150	0.8541987	200	0.8320284						
Bromobenzene	100	0.6734834	150	0.694701	200	0.6814758						
Bromochloromethane	100	0.137736	150	0.1381979	200	0.1384461						
Tert-Amyl Methyl Ether	100	0.7050594	150	0.7150821	200	0.6908219						
Bromodichloromethane	100	0.3145718	150	0.3205611	200	0.3109374						
Bromoform	100	0.8355836	150	0.8634516	200	0.9170762						
Bromomethane	100	0.1654497	150	0.1688087	200	0.1694875						
Bromofluorobenzene							30	0.9013374	35	0.8645549	40	0.8770451
n-Butylbenzene	100	0.9409694	150	0.915554	200	0.8868169						
2-Butanone							1	0.2119675	2	0.218398	4	0.1873632
sec-Butylbenzene	100	1.278015	150	1.293468	200	1.225762						
tert-Butylbenzene	100	1.002928	150	1.001931	200	0.9661548						
Carbon disulfide	100	0.7742379	150	0.7750027	200	0.7734551						
Carbon tetrachloride	100	0.2915436	150	0.2936441	200	0.2911891						
Chlorobenzene	100	1.538669	150	1.554042	200	1.57159						
Chloroethane	100	0.1445435	150	0.1416332	200	0.1390003						
Chloroform	100	0.4103734	150	0.4156437	200	0.4103148						
2-Chloroethyl vinyl ether	199.5	0.1770332	299.2	0.1765873	399	0.1764969						
Chloromethane	100	0.2783358	150	0.2920192	200	0.2842337						
1-Chlorohexane	99.84	1.281823	149.8	1.274569	199.7	1.245502						
2-Chlorotoluene	100	1.085399	150	1.095589	200	1.037859						
4-Chlorotoluene	100	1.25964	150	1.226645	200	1.162101						
Cyclohexane	100	0.360921	150	0.3644257	200	0.3538782						
Dibromochloromethane	100	0.7175703	150	0.7405133	200	0.7852495						
1,2-Dibromo-3-chloropropane	100	0.1854054	150	0.1909515	200	0.1904689						
1,2-Dibromoethane (EDB)	100	0.7266723	150	0.7329176	200	0.771876						
Dibromomethane	100	0.1887107	150	0.1906417	200	0.1872932						
1,2-Dichlorobenzene	100	0.9517585	150	0.9520534	200	0.9281757						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1154004	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	6/1/11 9:44 6/2/11 11:07

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	0.9586107	150	0.9347412	200	0.9542279						
1,4-Dichlorobenzene	100	0.9755907	150	1.000959	200	0.9572245						
Dichlorodifluoromethane	100	0.2498779	150	0.2494813	200	0.2430046						
1,1-Dichloroethane	100	0.4491172	150	0.463654	200	0.4572872						
1,2-Dichloroethane	100	0.3362652	150	0.3342031	200	0.3275413						
1,1-Dichloroethene	100	0.2206959	150	0.2232522	200	0.2202121						
cis-1,2-Dichloroethene	100	0.2730589	150	0.2751732	200	0.2702823						
trans-1,2-Dichloroethene	100	0.2474318	150	0.2483054	200	0.2346298						
1,2-Dichloroethene (total)	200	0.2602453	300	0.2617393	400	0.252456						
1,2-Dichloropropane	100	0.2598495	150	0.2581914	200	0.2471885						
1,3-Dichloropropane	100	0.969425	150	0.9667796	200	1.013905						
2,2-Dichloropropane	100	0.2878806	150	0.2808302	200	0.2590654						
1,1-Dichloropropene	100	0.2997784	150	0.3030345	200	0.287569						
cis-1,3-Dichloropropene	100	0.3831297	150	0.3884408	200	0.3717913						
trans-1,3-Dichloropropene	100	0.8507647	150	0.8699281	200	0.8473118						
1,3-Dichloropropene (total)	200	0.3502093	300	0.3568494	400	0.3360862						
Diisopropyl Ether	100	1.122709	150	1.099738	200	1.07913						
Ethylbenzene	100	2.403512	150	2.368522	200	2.411038						
Ethyl tert-Butyl Ether	100	0.8397192	150	0.8518846	200	0.8103197						
Ethyl Methacrylate	100	0.9400471	150	0.9860916	200	0.9839426						
Hexachlorobutadiene	100	0.1266756	150	0.1329273	200	0.1319729						
2-Hexanone							1	0.6929512	2	0.6237533	4	0.5694412
Iodomethane	100	0.4291777	150	0.4412324	200	0.4380503						
Isopropylbenzene	100	1.88096	150	1.866754	200	1.901504						
p-Isopropyltoluene	100	0.9441253	150	0.925419	200	0.9205864						
Methylene chloride	100	0.2540317	150	0.2600047	200	0.2593153						
Methyl Acetate	100	0.3229863	150	0.3260598	200	0.3270577						
Methylcyclohexane	100	0.2368718	150	0.2400342	200	0.23364						
Naphthalene	100	1.230488	150	1.274143	200	1.24185						
Methyl Methacrylate	100	0.3190475	150	0.3193761	200	0.3228442						
4-Methyl-2-pentanone							1	0.4120025	2	0.3609113	4	0.3731231

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1154004	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	6/1/11 9:44 6/2/11 11:07

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
Methyl t-Butyl Ether	100	0.701956	150	0.6980854	200	0.6663964						
n-Propylbenzene	100	1.673974	150	1.638983	200	1.554685						
Styrene	100	1.615324	150	1.636518	200	1.640504						
1,1,2,2-Tetrachloroethane	100	0.6082103	150	0.6031619	200	0.5906547						
1,1,1,2-Tetrachloroethane	100	0.5827804	150	0.598032	200	0.6234202						
tert-Butyl alcohol	500	3.623077E-02	750	3.518849E-02	1000	3.880913E-02						
Tetrachloroethene	100	0.8913067	150	0.8966587	200	0.933639						
Toluene	100	1.325724	150	1.354814	200	1.316697						
1,2,3-Trichlorobenzene	100	0.5336542	150	0.5647198	200	0.5510497						
1,2,4-Trichlorobenzene	100	0.5856847	150	0.5962185	200	0.5916147						
1,1,2-Trichloroethane	100	0.5098079	150	0.5321256	200	0.5412997						
1,1,1-Trichloroethane	100	0.3396696	150	0.3462364	200	0.3388549						
Tetrahydrofuran	100	0.1095702	150	0.1145656	200	0.1194973						
Trichloroethene	100	0.2415281	150	0.2471	200	0.2328769						
Trichlorofluoromethane	100	0.3707795	150	0.3806026	200	0.3846733						
1,2,3-Trichloropropane	100	0.2253608	150	0.2252519	200	0.240882						
1,3,5-Trimethylbenzene	100	1.196748	150	1.166915	200	1.107202						
1,2,4-Trimethylbenzene	100	1.206052	150	1.179058	200	1.126665						
1,1,2-Trichloro-1,2,2-trifluoroethar	100	0.2361683	150	0.2417745	200	0.2431232						
Vinyl chloride	100	0.1752253	150	0.162141	200	0.1517728						
m,p-Xylene	200	1.644332	300	1.648055	400	1.628426						
o-Xylene	100	1.894396	150	1.896493	200	1.869895						
Vinyl acetate	200.2	0.3975312	300.3	0.3971849	400.4	0.403404						
Xylenes (total)	300	1.727687	450	1.730868	600	1.708915						
Dibromofluoromethane							30	0.3023525	35	0.3024719	40	0.2881281
1,2-Dichloroethane-d4							30	6.269874E-02	35	6.236723E-02	40	6.131002E-02
Toluene-d8							30	2.222372	35	2.113746	40	2.082663
tert-Amyl alcohol	500	2.928503E-02	750	3.037335E-02	1000	3.276653E-02						
tert-Amyl ethyl ether	100	0.6641228	150	0.6715771	200	0.6458142						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1154004	Instrument:	MS-VOA4	
Matrix:	Water	Calibration Dates:	6/1/11 9:44	6/2/11 11:07

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	0.122563	20	9.826041E-02	100	0.1142677	200	0.1165648	300	0.11942	400	0.1245592
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene	50	0.8131432	60	0.7848842	70	0.7942891	30	0.9340145	30	0.9359507	30	0.9566691
n-Butylbenzene												
2-Butanone	10	0.1688955	20	0.1733884	100	0.197541	200	0.1967783	300	0.2061603	400	0.2054493
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_017	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1154004		Instrument:	MS-VOA4	
Matrix:	Water		Calibration Dates:	6/1/11 9:44	6/2/11 11:07

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												
1,3-Dichloropropene (total)												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	10	0.5404148	20	0.5833559	100	0.660758	200	0.6314121	300	0.6384493	400	0.6324422
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.322393	20	0.3290897	100	0.3757151	200	0.3739015	300	0.3754728	400	0.3608556

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1154004	Instrument:	MS-VOA4	
Matrix:	Water	Calibration Dates:	6/1/11 9:44	6/2/11 11:07

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
Methyl t-Butyl Ether												
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-trifluoroethar												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane	50	0.2882012	60	0.2846933	70	0.2805484	30	0.3038395	30	0.2995113	30	0.3103738
1,2-Dichloroethane-d4	50	6.131786E-02	60	6.119294E-02	70	0.0597071	30	6.339035E-02	30	6.405888E-02	30	6.592331E-02
Toluene-d8	50	2.080724	60	1.984905	70	2.019518	30	2.171069	30	2.226519	30	2.274844
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1154004	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	6/1/11 9:44 6/2/11 11:07

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_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1154004	Instrument:	MS-VOA4	
Matrix:	Water	Calibration Dates:	6/1/11 9:44	6/2/11 11:07

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												
1,3-Dichloropropene (total)												
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												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1154004	Instrument:	MS-VOA4	
Matrix:	Water	Calibration Dates:	6/1/11 9:44	6/2/11 11:07

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
Methyl t-Butyl Ether												
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-trifluoroethar												
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_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1154004	Instrument:	MS-VOA4	
Matrix:	Water	Calibration Dates:	6/1/11 9:44	6/2/11 11:07

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	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_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1154004	Instrument:	MS-VOA4	
Matrix:	Water	Calibration Dates:	6/1/11 9:44	6/2/11 11:07

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	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												
1,3-Dichloropropene (total)												
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												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1154004	Instrument:	MS-VOA4	
Matrix:	Water	Calibration Dates:	6/1/11 9:44	6/2/11 11:07

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl t-Butyl Ether												
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-trifluoroethar												
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_017	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1154004		Instrument:	MS-VOA4	
Matrix:	Water		Calibration Dates:	6/1/11 9:44	6/2/11 11:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.1244543	14.28107	3.82725	0.8950139			15	
Acrolein	1.792986E-02	53.40119	3.67625	0.4270338	0.9990445		0.995	
Acrylonitrile	0.1282732	2.536204	4.642111	0.4498204			15	
Benzene	0.9176726	8.152253	7.707778	0.116721			15	
Bromobenzene	0.6951847	2.848266	12.46144	2.242013E-02			15	
Bromochloromethane	0.1464818	6.883919	6.799	0.2192656			15	
Tert-Amyl Methyl Ether	0.7528895	5.873801	7.896111	0.1089927			15	
Bromodichloromethane	0.330129	6.152664	8.695222	0.1011366			15	
Bromoform	0.7652819	11.40365	11.86844	2.969539E-02			SPCC (0.1)	
Bromomethane	0.1650496	15.95529	2.843111	0.4712877	0.9998357		0.995	
Bromofluorobenzene	0.8735431	7.365354	12.305	3.107365E-02			15	
n-Butylbenzene	1.025619	14.92164	13.89178	1.912957E-02			15	
2-Butanone	0.1962157	8.589126	6.272222	0.3614664			15	
sec-Butylbenzene	1.384144	10.134	13.35056	1.598984E-02			15	
tert-Butylbenzene	1.072274	11.11774	13.11689	2.878984E-02			15	
Carbon disulfide	0.8113669	9.461018	4.814	0.3730948			15	
Carbon tetrachloride	0.2952145	5.447797	7.674778	0.1495982			15	
Chlorobenzene	1.524087	4.307618	11.13956	2.226072E-02			SPCC (0.3)	
Chloroethane	0.1598038	21.51661	2.979333	0.6053679	0.9996905		0.995	
Chloroform	0.4584717	13.46594	6.772889	0.2136271			CCC (20)	
2-Chloroethyl vinyl ether	0.1949079	8.03336	9.053778	6.618116E-02			15	
Chloromethane	0.2954544	12.38932	2.261222	0.5076517			SPCC (0.1)	
1-Chlorohexane	1.363003	11.89042	11.10344	3.719483E-02			15	
2-Chlorotoluene	1.210316	12.7838	12.67956	8.98948E-03			15	
4-Chlorotoluene	1.365075	10.9514	12.74422	0.030885			15	
Cyclohexane	0.3780443	5.400411	7.605667	0.1520593			15	
Dibromochloromethane	0.69368	6.960055	10.37122	4.033945E-02			15	
1,2-Dibromo-3-chloropropane	0.1778495	5.66198	14.4965	3.015333E-02			15	
1,2-Dibromoethane (EDB)	0.7018341	6.172114	10.585	4.948073E-02			15	
Dibromomethane	0.1975423	5.960937	8.630555	8.446097E-02			15	
1,2-Dichlorobenzene	0.967664	3.456474	13.85244	1.923404E-02			15	
1,3-Dichlorobenzene	0.9973838	5.43904	13.44122	2.985968E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1154004	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	6/1/11 9:44 6/2/11 11:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.030471	8.1607	13.53344	2.397469E-02			15	
Dichlorodifluoromethane	0.2499782	2.346923	2.038889	0.286493			15	
1,1-Dichloroethane	0.4740423	4.902873	5.809444	0.334428			SPCC (0.1)	
1,2-Dichloroethane	0.3479117	5.762695	7.535556	0.1710418			15	
1,1-Dichloroethene	0.2334421	10.56729	4.274889	0.5602396			CCC (20)	
cis-1,2-Dichloroethene	0.291982	10.88614	6.518444	0.2268032			15	
trans-1,2-Dichloroethene	0.2689807	15.21488	5.434556	0.3579971	0.9987237		0.995	
1,2-Dichloroethene (total)	0.2804813	12.5364	0	0			15	
1,2-Dichloropropane	0.2682235	4.692176	8.517778	0.1036952			CCC (20)	
1,3-Dichloropropane	0.9449868	6.087852	10.11033	5.556447E-02			15	
2,2-Dichloropropane	0.3255918	17.9059	6.626	0.2122837	0.9964458		0.995	
1,1-Dichloropropene	0.320132	9.566496	7.554222	0.1614125			15	
cis-1,3-Dichloropropene	0.4021505	5.528688	9.269667	6.175645E-02			15	
trans-1,3-Dichloropropene	0.855397	2.234392	9.743222	5.773969E-02			15	
1,3-Dichloropropene (total)	0.3704132	5.52061	9.743222	5.773969E-02			15	
Diisopropyl Ether	1.170403	4.796312	6.175444	0.2919304			15	
Ethylbenzene	2.457798	8.31427	11.28644	0.034209			CCC (20)	
Ethyl tert-Butyl Ether	0.8744146	4.633722	6.640111	0.2447499			15	
Ethyl Methacrylate	0.94878	7.71542	9.930556	5.396223E-02			15	
Hexachlorobutadiene	0.1327059	7.731467	15.85675	2.139758E-02			15	
2-Hexanone	0.6192198	7.628299	10.05267	6.176052E-02			15	
Iodomethane	0.4034865	7.830375	4.473111	0.5032445			15	
Isopropylbenzene	1.899263	8.223105	12.18644	1.720134E-02			15	
p-Isopropyltoluene	1.023539	10.13738	13.48744	2.251504E-02			15	
Methylene chloride	0.2776048	9.304155	4.762444	0.4486539			15	
Methyl Acetate	0.3723804	19.67395	4.626667	0.5107637	0.9999539		0.995	
Methylcyclohexane	0.2595626	12.35499	8.846555	6.617263E-02			15	
Naphthalene	1.228446	3.182494	15.72889	1.804321E-02			15	
Methyl Methacrylate	0.3434225	8.216907	8.650334	8.458415E-02			15	
4-Methyl-2-pentanone	0.3648294	7.327708	9.202111	0.0844747			15	
Methyl t-Butyl Ether	0.7191576	4.324744	5.425667	0.330039			15	
n-Propylbenzene	1.809721	12.34725	12.59622	2.961812E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	1154004	Instrument:	MS-VOA4		
Matrix:	Water	Calibration Dates:	6/1/11 9:44	6/2/11 11:07	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Styrene	1.607915	3.176596	11.761	1.905337E-02			15	
1,1,2,2-Tetrachloroethane	0.6184807	3.333349	12.11078	3.088946E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.5719668	5.800895	11.18111	3.153766E-02			15	
tert-Butyl alcohol	3.681083E-02	4.251475	4.421778	0.5052918			15	
Tetrachloroethene	0.8701998	8.737997	10.48189	3.819876E-02			15	
Toluene	1.375611	6.100282	9.744222	5.955191E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5440305	3.678169	16.01711	0.0263107			15	
1,2,4-Trichlorobenzene	0.5961321	5.717414	15.57878	1.910641E-02			15	
1,1,2-Trichloroethane	0.5171309	3.475128	9.898667	3.675949E-02			15	
1,1,1-Trichloroethane	0.3603392	8.747165	7.336111	0.1430505			15	
Tetrahydrofuran	0.1176841	7.636741	6.980875	0.2257993			15	
Trichloroethene	0.2622883	11.78614	8.471667	0.1076816			15	
Trichlorofluoromethane	0.3850639	3.709107	3.483333	0.5719007			15	
1,2,3-Trichloropropane	0.2241322	6.799072	12.23556	2.044686E-02			15	
1,3,5-Trimethylbenzene	1.248678	8.363577	12.775	0.0284411			15	
1,2,4-Trimethylbenzene	1.300589	10.97993	13.14878	2.745792E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2437091	5.61128	4.355889	0.5540275			15	
Vinyl chloride	0.2117578	22.6961	2.400444	0.5586778		0.9999339	CCC (20)	*
m,p-Xylene	1.835021	12.39518	11.39711	2.659833E-02			15	
o-Xylene	1.946025	8.076146	11.79067	2.659442E-02			15	
Vinyl acetate	0.4169237	8.0234	5.879444	0.3065762			15	
Xylenes (total)	1.872022	10.70777	0	0			15	
Dibromofluoromethane	0.2955689	3.488133	6.962778	0.2358843			15	
1,2-Dichloroethane-d4	6.244071E-02	2.957918	7.460444	0.1948803			15	
Toluene-d8	2.130707	4.655061	9.681111	7.584852E-02			15	
tert-Amyl alcohol	0.0298629	4.683176	7.143111	0.2273236			15	
tert-Amyl ethyl ether	0.6963412	4.806273	8.781889	8.453099E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0601ICV2.D	Calibration Date:	06/01/11 09:44
Sequence:	1F15404	Injection Date:	06/01/11
Lab Sample ID:	1F15404-ICV2	Injection Time:	16:25

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	100.0	97.70	0.9176726	0.8965907		-2.3	20
Bromobenzene	A	100.0	93.32	0.6951847	0.6487312		-6.7	20
Bromochloromethane	A	100.0	95.80	0.1464818	0.1403296		-4.2	20
Bromodichloromethane	A	100.0	101.3	0.330129	0.334571		1.3	20
Bromoform	A	100.0	107.0	0.7652819	0.8185113	0.1	7.0	20
Bromomethane	L	100.0	93.74	0.1650496	0.1574083		-6.3	20
n-Butylbenzene	A	100.0	89.17	1.025619	0.9145394		-10.8	20
sec-Butylbenzene	A	100.0	90.31	1.384144	1.250011		-9.7	20
tert-Butylbenzene	A	100.0	92.54	1.072274	0.9922483		-7.5	20
Carbon disulfide	A	100.0	99.56	0.8113669	0.8078019		-0.4	20
Carbon tetrachloride	A	100.0	102.2	0.2952145	0.3017524		2.2	20
Chlorobenzene	A	100.0	98.94	1.524087	1.507937	0.3	-1.1	20
Chloroethane	L	100.0	100.0	0.1598038	0.1410562		0.002	20
Chloroform	A	100.0	92.81	0.4584717	0.4255207		-7.2	20
Chloromethane	A	100.0	102.7	0.2954544	0.3034532	0.1	2.7	20
2-Chlorotoluene	A	100.0	88.19	1.210316	1.067388		-11.8	20
4-Chlorotoluene	A	100.0	90.17	1.365075	1.230909		-9.8	20
Dibromochloromethane	A	100.0	106.1	0.69368	0.7362012		6.1	20
1,2-Dibromo-3-chloropropane	A	100.0	104.9	0.1778495	0.1865752		4.9	20
1,2-Dibromoethane (EDB)	A	100.0	102.2	0.7018341	0.7170393		2.2	20
Dibromomethane	A	100.0	100.8	0.1975423	0.199048		0.8	20
1,2-Dichlorobenzene	A	100.0	94.91	0.967664	0.918418		-5.1	20
1,3-Dichlorobenzene	A	100.0	94.15	0.9973838	0.9390164		-5.9	20
1,4-Dichlorobenzene	A	100.0	94.63	1.030471	0.9751141		-5.4	20
Dichlorodifluoromethane	A	100.0	114.1	0.2499782	0.2852896		14.1	20
1,1-Dichloroethane	A	100.0	97.62	0.4740423	0.4627684	0.1	-2.4	20
1,2-Dichloroethane	A	100.0	97.52	0.3479117	0.3392946		-2.5	20
1,1-Dichloroethene	A	100.0	101.9	0.2334421	0.237992		1.9	20
cis-1,2-Dichloroethene	A	100.0	94.42	0.291982	0.2756958		-5.6	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0601ICV2.D	Calibration Date:	06/01/11 09:44
Sequence:	1F15404	Injection Date:	06/01/11
Lab Sample ID:	1F15404-ICV2	Injection Time:	16:25

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	L	100.0	104.5	0.2689807	0.2527301		4.5	20
1,2-Dichloropropane	A	100.0	97.10	0.2682235	0.2604352		-2.9	20
1,3-Dichloropropane	A	100.0	100.7	0.9449868	0.9519298		0.7	20
2,2-Dichloropropane	L	100.0	88.42	0.3255918	0.2423321		-11.6	20
1,1-Dichloropropene	A	100.0	96.48	0.320132	0.3088693		-3.5	20
cis-1,3-Dichloropropene	A	100.0	94.42	0.4021505	0.3797114		-5.6	20
trans-1,3-Dichloropropene	A	100.0	107.0	0.855397	0.9149766		7.0	20
Ethylbenzene	A	100.0	97.22	2.457798	2.389417		-2.8	20
Hexachlorobutadiene	A	100.0	101.6	0.1327059	0.1348139		1.6	20
Isopropylbenzene	A	100.0	102.5	1.899263	1.945949		2.5	20
p-Isopropyltoluene	A	100.0	98.86	1.023539	1.01192		-1.1	20
Methylene chloride	A	100.0	97.54	0.2776048	0.2707658		-2.5	20
Naphthalene	A	100.0	104.6	1.228446	1.285237		4.6	20
Methyl t-Butyl Ether	A	100.0	94.09	0.7191576	0.676666		-5.9	20
n-Propylbenzene	A	100.0	88.59	1.809721	1.603163		-11.4	20
Styrene	A	100.0	100.0	1.607915	1.608437		0.03	20
1,1,2,2-Tetrachloroethane	A	100.0	95.50	0.6184807	0.5906658	0.3	-4.5	20
1,1,1,2-Tetrachloroethane	A	100.0	100.0	0.5719668	0.5720161		0.009	20
Tetrachloroethene	A	100.0	100.5	0.8701998	0.8748161		0.5	20
Toluene	A	100.0	96.58	1.375611	1.328506		-3.4	20
1,2,3-Trichlorobenzene	A	100.0	104.8	0.5440305	0.5703365		4.8	20
1,2,4-Trichlorobenzene	A	100.0	97.03	0.5961321	0.5784477		-3.0	20
1,1,2-Trichloroethane	A	100.0	96.35	0.5171309	0.4982638		-3.6	20
1,1,1-Trichloroethane	A	100.0	96.26	0.3603392	0.346852		-3.7	20
Trichloroethene	A	100.0	93.51	0.2622883	0.2452597		-6.5	20
Trichlorofluoromethane	A	100.0	102.0	0.3850639	0.3926879		2.0	20
1,2,3-Trichloropropane	A	100.0	99.14	0.2241322	0.2221958		-0.9	20
1,3,5-Trimethylbenzene	A	100.0	90.18	1.248678	1.126032		-9.8	20
1,2,4-Trimethylbenzene	A	100.0	91.53	1.300589	1.190459		-8.5	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0601ICV2.D	Calibration Date:	06/01/11 09:44
Sequence:	1F15404	Injection Date:	06/01/11
Lab Sample ID:	1F15404-ICV2	Injection Time:	16:25

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	Q	100.0	98.98	0.2117578	0.1751651		-1.0	20
m,p-Xylene	A	200.0	180.9	1.835021	1.659619		-9.6	20
o-Xylene	A	100.0	96.71	1.946025	1.882044		-3.3	20
Bromofluorobenzene	A	30.00	33.84	0.8735431	0.9854771		12.8	20
Dibromofluoromethane	A	30.00	31.71	0.2955689	0.3124241		5.7	20
1,2-Dichloroethane-d4	A	30.00	31.24	6.244071E-02	0.065017		4.1	20
Toluene-d8	A	30.00	34.16	2.130707	2.425819		13.9	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	601ICV4.D	Calibration Date:	06/01/11 09:44
Sequence:	1F15404	Injection Date:	06/02/11
Lab Sample ID:	1F15404-ICV4	Injection Time:	13:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	208.0	0.1244543	0.1294575		4.0	20
2-Butanone	A	200.0	229.8	0.1962157	0.2254106		14.9	20
2-Hexanone	A	200.0	231.9	0.6192198	0.7178454		15.9	20
4-Methyl-2-pentanone	A	200.0	230.4	0.3648294	0.4201922		15.2	20
Bromofluorobenzene	A	30.00	32.76	0.8735431	0.9537777		9.2	20
Dibromofluoromethane	A	30.00	31.98	0.2955689	0.3150766		6.6	20
1,2-Dichloroethane-d4	A	30.00	30.34	6.244071E-02	6.314808E-02		1.1	20
Toluene-d8	A	30.00	31.82	2.130707	2.260165		6.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0617CCVE.D	Calibration Date:	06/01/11 09:44
Sequence:	1F17105	Injection Date:	06/17/11
Lab Sample ID:	1F17105-CCV1	Injection Time:	19:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	157.8	0.1244543	9.819259E-02		-21.1	20 *
Benzene	A	100.0	105.4	0.9176726	0.9671142		5.4	20
Bromobenzene	A	100.0	101.5	0.6951847	0.7056654		1.5	20
Bromochloromethane	A	100.0	101.8	0.1464818	0.1491376		1.8	20
Bromodichloromethane	A	100.0	103.9	0.330129	0.3429613		3.9	20
Bromoform	A	100.0	87.90	0.7652819	0.6726904	0.1	-12.1	20
Bromomethane	L	100.0	96.15	0.1650496	0.1615009		-3.8	20
n-Butylbenzene	A	100.0	101.1	1.025619	1.036571		1.1	20
2-Butanone	A	200.0	155.9	0.1962157	0.1529227		-22.1	20 *
sec-Butylbenzene	A	100.0	100.9	1.384144	1.396807		0.9	20
tert-Butylbenzene	A	100.0	97.26	1.072274	1.042952		-2.7	20
Carbon disulfide	A	100.0	108.3	0.8113669	0.8790531		8.3	20
Carbon tetrachloride	A	100.0	99.14	0.2952145	0.2926844		-0.9	20
Chlorobenzene	A	100.0	99.72	1.524087	1.51981	0.3	-0.3	20
Chloroethane	L	100.0	132.3	0.1598038	0.1862894		32.3	20 *
Chloroform	A	100.0	101.9	0.4584717	0.4673495		1.9	20
Chloromethane	A	100.0	101.6	0.2954544	0.300293	0.1	1.6	20
2-Chlorotoluene	A	100.0	99.85	1.210316	1.208526		-0.1	20
4-Chlorotoluene	A	100.0	103.9	1.365075	1.418882		3.9	20
Dibromochloromethane	A	100.0	100.0	0.69368	0.6938876		0.03	20
1,2-Dibromo-3-chloropropane	A	100.0	72.08	0.1778495	0.1282005		-27.9	20 *
1,2-Dibromoethane (EDB)	A	100.0	94.81	0.7018341	0.6654131		-5.2	20
Dibromomethane	A	100.0	96.09	0.1975423	0.1898123		-3.9	20
1,2-Dichlorobenzene	A	100.0	100.3	0.967664	0.9702764		0.3	20
1,3-Dichlorobenzene	A	100.0	100.7	0.9973838	1.004692		0.7	20
1,4-Dichlorobenzene	A	100.0	98.90	1.030471	1.019128		-1.1	20
Dichlorodifluoromethane	A	100.0	120.0	0.2499782	0.2999403		20.0	20
1,1-Dichloroethane	A	100.0	106.0	0.4740423	0.5022922	0.1	6.0	20
1,2-Dichloroethane	A	100.0	104.6	0.3479117	0.3638465		4.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0617CCVE.D	Calibration Date:	06/01/11 09:44
Sequence:	1F17105	Injection Date:	06/17/11
Lab Sample ID:	1F17105-CCV1	Injection Time:	19:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	102.0	0.2334421	0.2380721		2.0	20	
cis-1,2-Dichloroethene	A	100.0	102.9	0.291982	0.300362		2.9	20	
trans-1,2-Dichloroethene	L	100.0	109.8	0.2689807	0.2655947		9.8	20	
1,2-Dichloropropane	A	100.0	102.6	0.2682235	0.2752763		2.6	20	
1,3-Dichloropropane	A	100.0	102.4	0.9449868	0.9680856		2.4	20	
2,2-Dichloropropane	L	100.0	117.5	0.3255918	0.3202128		17.5	20	
1,1-Dichloropropene	A	100.0	105.3	0.320132	0.3370949		5.3	20	
cis-1,3-Dichloropropene	A	100.0	96.15	0.4021505	0.3866542		-3.9	20	
trans-1,3-Dichloropropene	A	100.0	99.26	0.855397	0.8490932		-0.7	20	
Ethylbenzene	A	100.0	99.79	2.457798	2.452602		-0.2	20	
Hexachlorobutadiene	A	100.0	95.74	0.1327059	0.1270571		-4.3	20	
2-Hexanone	A	200.0	161.3	0.6192198	0.4994931		-19.3	20	
Isopropylbenzene	A	100.0	97.98	1.899263	1.860917		-2.0	20	
p-Isopropyltoluene	A	100.0	99.85	1.023539	1.02201		-0.1	20	
Methylene chloride	A	100.0	106.0	0.2776048	0.2943653		6.0	20	
Naphthalene	A	100.0	69.38	1.228446	0.8522801		-30.6	20	*
4-Methyl-2-pentanone	A	200.0	152.0	0.3648294	0.2772057		-24.0	20	*
Methyl t-Butyl Ether	A	100.0	89.26	0.7191576	0.6419627		-10.7	20	
n-Propylbenzene	A	100.0	99.78	1.809721	1.805785		-0.2	20	
Styrene	A	100.0	100.3	1.607915	1.612864		0.3	20	
1,1,2,2-Tetrachloroethane	A	100.0	83.62	0.6184807	0.5171943	0.3	-16.4	20	
1,1,1,2-Tetrachloroethane	A	100.0	98.39	0.5719668	0.5627641		-1.6	20	
Tetrachloroethene	A	100.0	101.2	0.8701998	0.8805043		1.2	20	
Toluene	A	100.0	100.3	1.375611	1.379969		0.3	20	
1,2,3-Trichlorobenzene	A	100.0	85.08	0.5440305	0.4628426		-14.9	20	
1,2,4-Trichlorobenzene	A	100.0	95.37	0.5961321	0.5685118		-4.6	20	
1,1,2-Trichloroethane	A	100.0	97.90	0.5171309	0.5062582		-2.1	20	
1,1,1-Trichloroethane	A	100.0	104.0	0.3603392	0.374576		4.0	20	
Trichloroethene	A	100.0	99.06	0.2622883	0.2598236		-0.9	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0617CCVE.D	Calibration Date:	06/01/11 09:44
Sequence:	1F17105	Injection Date:	06/17/11
Lab Sample ID:	1F17105-CCV1	Injection Time:	19:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Trichlorofluoromethane	A	100.0	109.4	0.3850639	0.4214386		9.4	20	
1,2,3-Trichloropropane	A	100.0	78.18	0.2241322	0.1752319		-21.8	20	*
1,3,5-Trimethylbenzene	A	100.0	102.0	1.248678	1.274167		2.0	20	
1,2,4-Trimethylbenzene	A	100.0	97.96	1.300589	1.274029		-2.0	20	
Vinyl chloride	Q	100.0	98.17	0.2117578	0.1739977		-1.8	20	
m,p-Xylene	A	200.0	190.7	1.835021	1.749959		-4.6	20	
o-Xylene	A	100.0	99.51	1.946025	1.936425		-0.5	20	
Bromofluorobenzene	A	30.00	31.80	0.8735431	0.9258447		6.0	20	
Dibromofluoromethane	A	30.00	31.39	0.2955689	0.3092483		4.6	20	
1,2-Dichloroethane-d4	A	30.00	29.76	6.244071E-02	6.193503E-02		-0.8	20	
Toluene-d8	A	30.00	34.03	2.130707	2.417232		13.4	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_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0621CCV1.D	Calibration Date:	06/01/11 09:44
Sequence:	1F17211	Injection Date:	06/21/11
Lab Sample ID:	1F17211-CCV1	Injection Time:	07:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	156.2	0.1244543	9.719164E-02		-21.9	20 *
Benzene	A	100.0	96.12	0.9176726	0.8820518		-3.9	20
Bromobenzene	A	100.0	95.74	0.6951847	0.6655528		-4.3	20
Bromochloromethane	A	100.0	94.96	0.1464818	0.1390995		-5.0	20
Bromodichloromethane	A	100.0	99.45	0.330129	0.3283211		-0.5	20
Bromoform	A	100.0	89.71	0.7652819	0.6865188	0.1	-10.3	20
Bromomethane	L	100.0	100.3	0.1650496	0.1685		0.3	20
n-Butylbenzene	A	100.0	96.25	1.025619	0.9871501		-3.8	20
2-Butanone	A	200.0	153.4	0.1962157	0.1504829		-23.3	20 *
sec-Butylbenzene	A	100.0	96.66	1.384144	1.337845		-3.3	20
tert-Butylbenzene	A	100.0	93.58	1.072274	1.003428		-6.4	20
Carbon disulfide	A	100.0	99.28	0.8113669	0.8055684		-0.7	20
Carbon tetrachloride	A	100.0	95.92	0.2952145	0.2831853		-4.1	20
Chlorobenzene	A	100.0	93.35	1.524087	1.422761	0.3	-6.6	20
Chloroethane	L	100.0	121.2	0.1598038	0.1707075		21.2	20 *
Chloroform	A	100.0	96.71	0.4584717	0.4433869		-3.3	20
Chloromethane	A	100.0	102.4	0.2954544	0.3025161	0.1	2.4	20
2-Chlorotoluene	A	100.0	92.50	1.210316	1.119519		-7.5	20
4-Chlorotoluene	A	100.0	93.34	1.365075	1.274214		-6.7	20
Dibromochloromethane	A	100.0	96.19	0.69368	0.6672572		-3.8	20
1,2-Dibromo-3-chloropropane	A	100.0	66.75	0.1778495	0.1187173		-33.2	20 *
1,2-Dibromoethane (EDB)	A	100.0	93.01	0.7018341	0.6528065		-7.0	20
Dibromomethane	A	100.0	89.95	0.1975423	0.1776935		-10.0	20
1,2-Dichlorobenzene	A	100.0	95.25	0.967664	0.9216908		-4.8	20
1,3-Dichlorobenzene	A	100.0	95.73	0.9973838	0.9547891		-4.3	20
1,4-Dichlorobenzene	A	100.0	95.17	1.030471	0.9807365		-4.8	20
Dichlorodifluoromethane	A	100.0	115.9	0.2499782	0.2898392		15.9	20
1,1-Dichloroethane	A	100.0	98.79	0.4740423	0.4683248	0.1	-1.2	20
1,2-Dichloroethane	A	100.0	99.16	0.3479117	0.3450023		-0.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0621CCV1.D	Calibration Date:	06/01/11 09:44
Sequence:	1F17211	Injection Date:	06/21/11
Lab Sample ID:	1F17211-CCV1	Injection Time:	07:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	96.64	0.2334421	0.2255904		-3.4	20
cis-1,2-Dichloroethene	A	100.0	93.50	0.291982	0.2730129		-6.5	20
trans-1,2-Dichloroethene	L	100.0	100.4	0.2689807	0.2429081		0.4	20
1,2-Dichloropropane	A	100.0	91.95	0.2682235	0.2466356		-8.0	20
1,3-Dichloropropane	A	100.0	97.25	0.9449868	0.9190023		-2.7	20
2,2-Dichloropropane	L	100.0	122.5	0.3255918	0.3335345		22.5	20 *
1,1-Dichloropropene	A	100.0	97.38	0.320132	0.3117523		-2.6	20
cis-1,3-Dichloropropene	A	100.0	94.31	0.4021505	0.3792783		-5.7	20
trans-1,3-Dichloropropene	A	100.0	97.44	0.855397	0.8335465		-2.6	20
Ethylbenzene	A	100.0	98.09	2.457798	2.41095		-1.9	20
Hexachlorobutadiene	A	100.0	96.86	0.1327059	0.1285349		-3.1	20
2-Hexanone	A	200.0	161.3	0.6192198	0.4994906		-19.3	20
Isopropylbenzene	A	100.0	97.94	1.899263	1.860238		-2.1	20
p-Isopropyltoluene	A	100.0	97.43	1.023539	0.9972541		-2.6	20
Methylene chloride	A	100.0	97.36	0.2776048	0.2702844		-2.6	20
Naphthalene	A	100.0	66.63	1.228446	0.8184887		-33.4	20 *
4-Methyl-2-pentanone	A	200.0	154.7	0.3648294	0.2821462		-22.7	20 *
Methyl t-Butyl Ether	A	100.0	81.99	0.7191576	0.5896379		-18.0	20
n-Propylbenzene	A	100.0	93.53	1.809721	1.692597		-6.5	20
Styrene	A	100.0	95.48	1.607915	1.535157		-4.5	20
1,1,2,2-Tetrachloroethane	A	100.0	77.01	0.6184807	0.4762823	0.3	-23.0	20 *
1,1,1,2-Tetrachloroethane	A	100.0	95.60	0.5719668	0.5467768		-4.4	20
Tetrachloroethene	A	100.0	101.6	0.8701998	0.8841624		1.6	20
Toluene	A	100.0	94.36	1.375611	1.298034		-5.6	20
1,2,3-Trichlorobenzene	A	100.0	82.39	0.5440305	0.4482458		-17.6	20
1,2,4-Trichlorobenzene	A	100.0	93.69	0.5961321	0.5585157		-6.3	20
1,1,2-Trichloroethane	A	100.0	93.56	0.5171309	0.4838316		-6.4	20
1,1,1-Trichloroethane	A	100.0	97.82	0.3603392	0.3524931		-2.2	20
Trichloroethene	A	100.0	92.61	0.2622883	0.2429008		-7.4	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0621CCV1.D	Calibration Date:	06/01/11 09:44
Sequence:	1F17211	Injection Date:	06/21/11
Lab Sample ID:	1F17211-CCV1	Injection Time:	07:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	107.2	0.3850639	0.4126862		7.2	20
1,2,3-Trichloropropane	A	100.0	80.84	0.2241322	0.181181		-19.2	20
1,3,5-Trimethylbenzene	A	100.0	94.75	1.248678	1.183074		-5.3	20
1,2,4-Trimethylbenzene	A	100.0	92.52	1.300589	1.203298		-7.5	20
Vinyl chloride	Q	100.0	89.58	0.2117578	0.161435		-10.4	20
m,p-Xylene	A	200.0	184.8	1.835021	1.695949		-7.6	20
o-Xylene	A	100.0	98.48	1.946025	1.916435		-1.5	20
Bromofluorobenzene	A	30.00	33.60	0.8735431	0.9783524		12.0	20
Dibromofluoromethane	A	30.00	30.34	0.2955689	0.298878		1.1	20
1,2-Dichloroethane-d4	A	30.00	29.68	6.244071E-02	6.178536E-02		-1.0	20
Toluene-d8	A	30.00	33.65	2.130707	2.389915		12.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0622CCV1.D	Calibration Date:	06/01/11 09:44
Sequence:	1F17406	Injection Date:	06/22/11
Lab Sample ID:	1F17406-CCV1	Injection Time:	07:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	156.2	0.1244543	9.720244E-02		-21.9	20 *
Benzene	A	100.0	96.46	0.9176726	0.8851878		-3.5	20
Bromobenzene	A	100.0	99.42	0.6951847	0.6911445		-0.6	20
Bromochloromethane	A	100.0	96.24	0.1464818	0.1409781		-3.8	20
Bromodichloromethane	A	100.0	98.70	0.330129	0.3258356		-1.3	20
Bromoform	A	100.0	95.47	0.7652819	0.7306445	0.1	-4.5	20
Bromomethane	L	100.0	108.9	0.1650496	0.1831344		8.9	20
n-Butylbenzene	A	100.0	99.81	1.025619	1.023696		-0.2	20
2-Butanone	A	200.0	153.8	0.1962157	0.1508431		-23.1	20 *
sec-Butylbenzene	A	100.0	101.4	1.384144	1.404203		1.4	20
tert-Butylbenzene	A	100.0	98.60	1.072274	1.057325		-1.4	20
Carbon disulfide	A	100.0	99.60	0.8113669	0.8081567		-0.4	20
Carbon tetrachloride	A	100.0	97.56	0.2952145	0.2879973		-2.4	20
Chlorobenzene	A	100.0	99.05	1.524087	1.509662	0.3	-0.9	20
Chloroethane	L	100.0	124.0	0.1598038	0.1745922		24.0	20 *
Chloroform	A	100.0	98.96	0.4584717	0.4537006		-1.0	20
Chloromethane	A	100.0	106.9	0.2954544	0.3159417	0.1	6.9	20
2-Chlorotoluene	A	100.0	97.03	1.210316	1.174398		-3.0	20
4-Chlorotoluene	A	100.0	99.85	1.365075	1.363095		-0.1	20
Dibromochloromethane	A	100.0	102.8	0.69368	0.712942		2.8	20
1,2-Dibromo-3-chloropropane	A	100.0	69.71	0.1778495	0.1239739		-30.3	20 *
1,2-Dibromoethane (EDB)	A	100.0	96.26	0.7018341	0.6756229		-3.7	20
Dibromomethane	A	100.0	91.03	0.1975423	0.1798247		-9.0	20
1,2-Dichlorobenzene	A	100.0	97.22	0.967664	0.9407655		-2.8	20
1,3-Dichlorobenzene	A	100.0	98.80	0.9973838	0.9854523		-1.2	20
1,4-Dichlorobenzene	A	100.0	97.52	1.030471	1.004916		-2.5	20
Dichlorodifluoromethane	A	100.0	116.2	0.2499782	0.2905452		16.2	20
1,1-Dichloroethane	A	100.0	97.48	0.4740423	0.4620776	0.1	-2.5	20
1,2-Dichloroethane	A	100.0	100.5	0.3479117	0.3497191		0.5	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0622CCV1.D	Calibration Date:	06/01/11 09:44
Sequence:	1F17406	Injection Date:	06/22/11
Lab Sample ID:	1F17406-CCV1	Injection Time:	07:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	97.63	0.2334421	0.2279142		-2.4	20
cis-1,2-Dichloroethene	A	100.0	94.12	0.291982	0.2748084		-5.9	20
trans-1,2-Dichloroethene	L	100.0	104.0	0.2689807	0.2516883		4.0	20
1,2-Dichloropropane	A	100.0	116.5	0.2682235	0.3124929		16.5	20
1,3-Dichloropropane	A	100.0	103.1	0.9449868	0.974161		3.1	20
2,2-Dichloropropane	L	100.0	127.3	0.3255918	0.3465032		27.3	20 *
1,1-Dichloropropene	A	100.0	99.33	0.320132	0.3179838		-0.7	20
cis-1,3-Dichloropropene	A	100.0	96.35	0.4021505	0.387471		-3.7	20
trans-1,3-Dichloropropene	A	100.0	106.6	0.855397	0.91147		6.6	20
Ethylbenzene	A	100.0	106.0	2.457798	2.604224		6.0	20
Hexachlorobutadiene	A	100.0	96.87	0.1327059	0.1285579		-3.1	20
2-Hexanone	A	200.0	174.8	0.6192198	0.5411041		-12.6	20
Isopropylbenzene	A	100.0	102.4	1.899263	1.945902		2.5	20
p-Isopropyltoluene	A	100.0	99.57	1.023539	1.019174		-0.4	20
Methylene chloride	A	100.0	98.36	0.2776048	0.2730443		-1.6	20
Naphthalene	A	100.0	61.96	1.228446	0.7611396		-38.0	20 *
4-Methyl-2-pentanone	A	200.0	153.2	0.3648294	0.2793881		-23.4	20 *
Methyl t-Butyl Ether	A	100.0	84.40	0.7191576	0.6069818		-15.6	20
n-Propylbenzene	A	100.0	97.16	1.809721	1.758249		-2.8	20
Styrene	A	100.0	102.4	1.607915	1.645758		2.4	20
1,1,2,2-Tetrachloroethane	A	100.0	75.58	0.6184807	0.4674376	0.3	-24.4	20 *
1,1,1,2-Tetrachloroethane	A	100.0	105.1	0.5719668	0.6013127		5.1	20
Tetrachloroethene	A	100.0	109.8	0.8701998	0.955499		9.8	20
Toluene	A	100.0	103.8	1.375611	1.428418		3.8	20
1,2,3-Trichlorobenzene	A	100.0	81.60	0.5440305	0.4439162		-18.4	20
1,2,4-Trichlorobenzene	A	100.0	95.17	0.5961321	0.5673191		-4.8	20
1,1,2-Trichloroethane	A	100.0	100.5	0.5171309	0.5197765		0.5	20
1,1,1-Trichloroethane	A	100.0	101.0	0.3603392	0.3639867		1.0	20
Trichloroethene	A	100.0	94.84	0.2622883	0.248753		-5.2	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0622CCV1.D	Calibration Date:	06/01/11 09:44
Sequence:	1F17406	Injection Date:	06/22/11
Lab Sample ID:	1F17406-CCV1	Injection Time:	07:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	109.0	0.3850639	0.4197373		9.0	20
1,2,3-Trichloropropane	A	100.0	81.53	0.2241322	0.1827325		-18.5	20
1,3,5-Trimethylbenzene	A	100.0	99.31	1.248678	1.240082		-0.7	20
1,2,4-Trimethylbenzene	A	100.0	96.20	1.300589	1.251121		-3.8	20
Vinyl chloride	Q	100.0	86.25	0.2117578	0.1564858		-13.8	20
m,p-Xylene	A	200.0	199.6	1.835021	1.831609		-0.2	20
o-Xylene	A	100.0	103.8	1.946025	2.020402		3.8	20
Bromofluorobenzene	A	30.00	34.46	0.8735431	1.003272		14.9	20
Dibromofluoromethane	A	30.00	30.84	0.2955689	0.3038981		2.8	20
1,2-Dichloroethane-d4	A	30.00	29.10	6.244071E-02	6.057402E-02		-3.0	20
Toluene-d8	A	30.00	36.49	2.130707	2.591956		21.6	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_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0623CCVE.D	Calibration Date:	06/01/11 09:44
Sequence:	1F17503	Injection Date:	06/23/11
Lab Sample ID:	1F17503-CCV1	Injection Time:	16:33

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	160.2	0.1244543	9.966294E-02		-19.9	20
Benzene	A	100.0	88.32	0.9176726	0.8105165		-11.7	20
Bromobenzene	A	100.0	102.6	0.6951847	0.7134016		2.6	20
Bromochloromethane	A	100.0	92.32	0.1464818	0.135235		-7.7	20
Bromodichloromethane	A	100.0	96.98	0.330129	0.3201665		-3.0	20
Bromoform	A	100.0	111.9	0.7652819	0.8563946	0.1	11.9	20
Bromomethane	L	100.0	99.32	0.1650496	0.1668626		-0.7	20
n-Butylbenzene	A	100.0	85.11	1.025619	0.8729263		-14.9	20
2-Butanone	A	200.0	150.1	0.1962157	0.147236		-25.0	20 *
sec-Butylbenzene	A	100.0	85.98	1.384144	1.190147		-14.0	20
tert-Butylbenzene	A	100.0	92.77	1.072274	0.994725		-7.2	20
Carbon disulfide	A	100.0	88.80	0.8113669	0.7205151		-11.2	20
Carbon tetrachloride	A	100.0	105.4	0.2952145	0.3110948		5.4	20
Chlorobenzene	A	100.0	101.5	1.524087	1.546816	0.3	1.5	20
Chloroethane	L	100.0	126.7	0.1598038	0.1785004		26.7	20 *
Chloroform	A	100.0	93.94	0.4584717	0.4306852		-6.1	20
Chloromethane	A	100.0	85.59	0.2954544	0.2528885	0.1	-14.4	20
2-Chlorotoluene	A	100.0	86.77	1.210316	1.050215		-13.2	20
4-Chlorotoluene	A	100.0	87.21	1.365075	1.190465		-12.8	20
Dibromochloromethane	A	100.0	110.0	0.69368	0.7627147		10.0	20
1,2-Dibromo-3-chloropropane	A	100.0	82.60	0.1778495	0.1469073		-17.4	20
1,2-Dibromoethane (EDB)	A	100.0	100.6	0.7018341	0.7059987		0.6	20
Dibromomethane	A	100.0	90.70	0.1975423	0.1791691		-9.3	20
1,2-Dichlorobenzene	A	100.0	98.23	0.967664	0.950531		-1.8	20
1,3-Dichlorobenzene	A	100.0	95.68	0.9973838	0.9543369		-4.3	20
1,4-Dichlorobenzene	A	100.0	97.20	1.030471	1.001653		-2.8	20
Dichlorodifluoromethane	A	100.0	109.5	0.2499782	0.2737149		9.5	20
1,1-Dichloroethane	A	100.0	92.07	0.4740423	0.4364672	0.1	-7.9	20
1,2-Dichloroethane	A	100.0	104.5	0.3479117	0.3635863		4.5	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0623CCVE.D	Calibration Date:	06/01/11 09:44
Sequence:	1F17503	Injection Date:	06/23/11
Lab Sample ID:	1F17503-CCV1	Injection Time:	16:33

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	91.33	0.2334421	0.2131937		-8.7	20
cis-1,2-Dichloroethene	A	100.0	91.72	0.291982	0.2677916		-8.3	20
trans-1,2-Dichloroethene	L	100.0	97.51	0.2689807	0.2360613		-2.5	20
1,2-Dichloropropane	A	100.0	84.00	0.2682235	0.225317		-16.0	20
1,3-Dichloropropane	A	100.0	99.74	0.9449868	0.942557		-0.3	20
2,2-Dichloropropane	L	100.0	106.6	0.3255918	0.2908564		6.6	20
1,1-Dichloropropene	A	100.0	93.79	0.320132	0.3002476		-6.2	20
cis-1,3-Dichloropropene	A	100.0	89.13	0.4021505	0.3584238		-10.9	20
trans-1,3-Dichloropropene	A	100.0	102.8	0.855397	0.8796692		2.8	20
Ethylbenzene	A	100.0	102.5	2.457798	2.520466		2.5	20
Hexachlorobutadiene	A	100.0	97.37	0.1327059	0.129211		-2.6	20
2-Hexanone	A	200.0	176.9	0.6192198	0.5476385		-11.6	20
Isopropylbenzene	A	100.0	101.5	1.899263	1.927836		1.5	20
p-Isopropyltoluene	A	100.0	92.16	1.023539	0.9432497		-7.8	20
Methylene chloride	A	100.0	91.25	0.2776048	0.2533074		-8.8	20
Naphthalene	A	100.0	71.22	1.228446	0.8748714		-28.8	20 *
4-Methyl-2-pentanone	A	200.0	156.7	0.3648294	0.2859259		-21.6	20 *
Methyl t-Butyl Ether	A	100.0	89.66	0.7191576	0.6448183		-10.3	20
n-Propylbenzene	A	100.0	86.03	1.809721	1.556884		-14.0	20
Styrene	A	100.0	101.1	1.607915	1.625696		1.1	20
1,1,2,2-Tetrachloroethane	A	100.0	73.13	0.6184807	0.4523107	0.3	-26.9	20 *
1,1,1,2-Tetrachloroethane	A	100.0	107.7	0.5719668	0.6162425		7.7	20
Tetrachloroethene	A	100.0	116.8	0.8701998	1.016429		16.8	20
Toluene	A	100.0	96.96	1.375611	1.333759		-3.0	20
1,2,3-Trichlorobenzene	A	100.0	92.82	0.5440305	0.5049677		-7.2	20
1,2,4-Trichlorobenzene	A	100.0	95.68	0.5961321	0.5703615		-4.3	20
1,1,2-Trichloroethane	A	100.0	94.12	0.5171309	0.4867199		-5.9	20
1,1,1-Trichloroethane	A	100.0	101.9	0.3603392	0.3670645		1.9	20
Trichloroethene	A	100.0	92.24	0.2622883	0.2419292		-7.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1154004
Lab File ID:	0623CCVE.D	Calibration Date:	06/01/11 09:44
Sequence:	1F17503	Injection Date:	06/23/11
Lab Sample ID:	1F17503-CCV1	Injection Time:	16:33

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	108.9	0.3850639	0.419331		8.9	20
1,2,3-Trichloropropane	A	100.0	91.40	0.2241322	0.2048565		-8.6	20
1,3,5-Trimethylbenzene	A	100.0	88.32	1.248678	1.102822		-11.7	20
1,2,4-Trimethylbenzene	A	100.0	92.95	1.300589	1.208953		-7.0	20
Vinyl chloride	Q	100.0	95.43	0.2117578	0.1700352		-4.6	20
m,p-Xylene	A	200.0	193.3	1.835021	1.773818		-3.3	20
o-Xylene	A	100.0	101.2	1.946025	1.969751		1.2	20
Bromofluorobenzene	A	30.00	33.96	0.8735431	0.988934		13.2	20
Dibromofluoromethane	A	30.00	31.78	0.2955689	0.3131127		5.9	20
1,2-Dichloroethane-d4	A	30.00	30.84	6.244071E-02	6.419664E-02		2.8	20
Toluene-d8	A	30.00	34.27	2.130707	2.434253		14.2	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_017

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

Matrix: Laboratory ID: 1F17010-BLK1 File ID: 0617BLKE.D

Sampled: Prepared: Analyzed: 06/17/11 21:12

Solids: Preparation: 5030B Dilution:

Batch: 1F17010 Sequence: 1F17105 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	Y, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	Y, 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	X, 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	Y, U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	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	0.764	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F17010-BLK1 File ID: 0617BLKE.D

Sampled: Prepared: Analyzed: 06/17/11 21:12

Solids: Preparation: 5030B Dilution:

Batch: 1F17010 Sequence: 1F17105 Calibration: 1154004 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	Y, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Y, 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	Y, 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	30.53	102	75 - 120	
Dibromofluoromethane	30.00	28.79	96.0	85 - 115	
1,2-Dichloroethane-d4	30.00	29.25	97.5	70 - 120	
Toluene-d8	30.00	32.23	107	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F17010-BS1 File ID: 0617LCSE.D

Sampled: Prepared: Analyzed: 06/17/11 19:55

Solids: Preparation: 5030B Dilution:

Batch: 1F17010 Sequence: 1F17105 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	73.0	2.50	5.00	10.0	Y
71-43-2	Benzene	51.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	50.0	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	53.8	0.250	0.500	1.00	
75-25-2	Bromoform	41.3	0.250	0.500	1.00	
74-83-9	Bromomethane	44.1	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	52.7	0.250	0.500	1.00	
78-93-3	2-Butanone	72.8	2.50	5.00	10.0	Y
135-98-8	sec-Butylbenzene	51.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	51.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	46.5	0.250	0.500	1.00	
108-90-7	Chlorobenzene	50.3	0.250	0.500	1.00	
75-00-3	Chloroethane	61.4	0.500	1.00	2.00	X
67-66-3	Chloroform	49.4	0.250	0.500	1.00	
74-87-3	Chloromethane	47.6	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	52.7	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.6	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	49.1	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	36.9	0.500	1.00	2.00	Y
106-93-4	1,2-Dibromoethane (EDB)	47.4	0.250	0.500	1.00	
74-95-3	Dibromomethane	49.3	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	51.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	62.7	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	51.2	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	49.5	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	53.0	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	47.6	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.4	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	50.8	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	53.3	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	48.8	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	48.3	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	53.6	0.250	0.500	1.00	
100-41-4	Ethylbenzene	52.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	54.9	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F17010-BS1 File ID: 0617LCSE.D

Sampled: Prepared: Analyzed: 06/17/11 19:55

Solids: Preparation: 5030B Dilution:

Batch: 1F17010 Sequence: 1F17105 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	78.3	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	52.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	54.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	52.0	0.500	1.00	2.00	
91-20-3	Naphthalene	40.3	0.250	0.500	1.00	Y
108-10-1	4-Methyl-2-pentanone	74.6	1.25	2.50	5.00	Y
1634-04-4	Methyl t-Butyl Ether	44.3	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.1	0.250	0.500	1.00	
100-42-5	Styrene	50.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	43.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	48.4	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	48.5	0.250	0.500	1.00	
108-88-3	Toluene	50.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	49.0	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	47.9	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	48.2	0.250	0.500	1.00	
79-01-6	Trichloroethene	50.2	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.6	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	40.1	0.500	1.00	2.00	Y
108-67-8	1,3,5-Trimethylbenzene	51.8	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	48.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	100	0.500	1.00	2.00	
95-47-6	o-Xylene	50.6	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.76	109	75 - 120	
Dibromofluoromethane	30.00	29.52	98.4	85 - 115	
1,2-Dichloroethane-d4	30.00	28.40	94.7	70 - 120	
Toluene-d8	30.00	31.75	106	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F17010-BSD1 File ID: 0617LCDE.D

Sampled: Prepared: Analyzed: 06/18/11 06:22

Solids: Preparation: 5030B Dilution:

Batch: 1F17010 Sequence: 1F17105 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	74.3	2.50	5.00	10.0	Y
71-43-2	Benzene	52.5	0.250	0.500	1.00	
108-86-1	Bromobenzene	48.7	0.250	0.500	1.00	
74-97-5	Bromochloromethane	47.9	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	53.8	0.250	0.500	1.00	
75-25-2	Bromoform	36.1	0.250	0.500	1.00	
74-83-9	Bromomethane	40.8	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	47.8	0.250	0.500	1.00	
78-93-3	2-Butanone	73.8	2.50	5.00	10.0	Y
135-98-8	sec-Butylbenzene	48.6	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	48.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	50.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	43.6	0.250	0.500	1.00	
108-90-7	Chlorobenzene	45.7	0.250	0.500	1.00	
75-00-3	Chloroethane	61.1	0.500	1.00	2.00	X
67-66-3	Chloroform	50.7	0.250	0.500	1.00	
74-87-3	Chloromethane	52.4	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	50.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	52.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	45.9	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	33.4	0.500	1.00	2.00	Y
106-93-4	1,2-Dibromoethane (EDB)	44.2	0.250	0.500	1.00	
74-95-3	Dibromomethane	48.5	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	48.0	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	48.5	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	47.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	57.6	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	52.4	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	50.0	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	50.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	47.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	53.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.6	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	48.6	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	42.8	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	49.0	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	46.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	49.8	0.250	0.500	1.00	
100-41-4	Ethylbenzene	48.4	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	42.4	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F17010-BSD1 File ID: 0617LCDE.D

Sampled: Prepared: Analyzed: 06/18/11 06:22

Solids: Preparation: 5030B Dilution:

Batch: 1F17010 Sequence: 1F17105 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	70.9	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	48.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	50.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	52.5	0.500	1.00	2.00	
91-20-3	Naphthalene	32.4	0.250	0.500	1.00	Y
108-10-1	4-Methyl-2-pentanone	74.3	1.25	2.50	5.00	Y
1634-04-4	Methyl t-Butyl Ether	42.5	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.7	0.250	0.500	1.00	
100-42-5	Styrene	48.0	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	42.1	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	45.0	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	41.7	0.250	0.500	1.00	
108-88-3	Toluene	47.3	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	40.0	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	43.8	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	46.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	46.7	0.250	0.500	1.00	
79-01-6	Trichloroethene	47.7	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	49.5	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	37.6	0.500	1.00	2.00	Y
108-67-8	1,3,5-Trimethylbenzene	49.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	48.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride	44.1	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	91.7	0.500	1.00	2.00	
95-47-6	o-Xylene	48.8	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.20	107	75 - 120	
Dibromofluoromethane	30.00	30.85	103	85 - 115	
1,2-Dichloroethane-d4	30.00	28.85	96.2	70 - 120	
Toluene-d8	30.00	31.90	106	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F21001-BLK1 File ID: 0621BLK1.D

Sampled: Prepared: Analyzed: 06/21/11 09:09

Solids: Preparation: 5030B Dilution:

Batch: 1F21001 Sequence: 1F17211 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	Y, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	Y, 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	X, 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	Y, U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.778	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F21001-BLK1 File ID: 0621BLK1.D

Sampled: Prepared: Analyzed: 06/21/11 09:09

Solids: Preparation: 5030B Dilution:

Batch: 1F21001 Sequence: 1F17211 Calibration: 1154004 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	Y, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Y, 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	Y, 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	Q, 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	31.43	105	75 - 120	
Dibromofluoromethane	30.00	31.25	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.39	101	70 - 120	
Toluene-d8	30.00	31.64	105	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F21001-BS1 File ID: 0621LCS1.D

Sampled: Prepared: Analyzed: 06/21/11 07:52

Solids: Preparation: 5030B Dilution:

Batch: 1F21001 Sequence: 1F17211 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	83.3	2.50	5.00	10.0	Y
71-43-2	Benzene	50.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.9	0.250	0.500	1.00	
74-97-5	Bromochloromethane	50.0	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	53.5	0.250	0.500	1.00	
75-25-2	Bromoform	41.0	0.250	0.500	1.00	
74-83-9	Bromomethane	52.6	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	53.2	0.250	0.500	1.00	
78-93-3	2-Butanone	81.7	2.50	5.00	10.0	Y
135-98-8	sec-Butylbenzene	51.2	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	50.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	52.1	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	49.0	0.250	0.500	1.00	
108-90-7	Chlorobenzene	49.3	0.250	0.500	1.00	
75-00-3	Chloroethane	60.7	0.500	1.00	2.00	X
67-66-3	Chloroform	50.6	0.250	0.500	1.00	
74-87-3	Chloromethane	52.9	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.9	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	52.1	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	47.9	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	35.2	0.500	1.00	2.00	Y
106-93-4	1,2-Dibromoethane (EDB)	45.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	47.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.4	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	49.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	66.0	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	51.6	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	52.5	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	54.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	48.6	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.7	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	49.5	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	46.9	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	61.9	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	52.1	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	47.8	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	54.9	0.250	0.500	1.00	
100-41-4	Ethylbenzene	50.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	57.6	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F21001-BS1 File ID: 0621LCS1.D

Sampled: Prepared: Analyzed: 06/21/11 07:52

Solids: Preparation: 5030B Dilution:

Batch: 1F21001 Sequence: 1F17211 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	86.6	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	50.9	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.2	0.250	0.500	1.00	
75-09-2	Methylene chloride	52.4	0.500	1.00	2.00	
91-20-3	Naphthalene	39.4	0.250	0.500	1.00	Y
108-10-1	4-Methyl-2-pentanone	82.1	1.25	2.50	5.00	Y
1634-04-4	Methyl t-Butyl Ether	43.3	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.0	0.250	0.500	1.00	
100-42-5	Styrene	49.6	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	40.2	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	48.4	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	49.3	0.250	0.500	1.00	
108-88-3	Toluene	50.9	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	47.7	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	51.1	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	44.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	49.8	0.250	0.500	1.00	
79-01-6	Trichloroethene	49.5	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	55.8	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	36.4	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	50.1	0.250	0.500	1.00	
75-01-4	Vinyl chloride	49.9	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	99.9	0.500	1.00	2.00	
95-47-6	o-Xylene	50.4	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.83	109	75 - 120	
Dibromofluoromethane	30.00	30.53	102	85 - 115	
1,2-Dichloroethane-d4	30.00	31.17	104	70 - 120	
Toluene-d8	30.00	32.93	110	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F21001-BSD1 File ID: 0621LCD1.D

Sampled: Prepared: Analyzed: 06/21/11 18:51

Solids: Preparation: 5030B Dilution:

Batch: 1F21001 Sequence: 1F17211 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	79.7	2.50	5.00	10.0	Y
71-43-2	Benzene	52.8	0.250	0.500	1.00	
108-86-1	Bromobenzene	51.3	0.250	0.500	1.00	
74-97-5	Bromochloromethane	49.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	52.3	0.250	0.500	1.00	
75-25-2	Bromoform	40.6	0.250	0.500	1.00	
74-83-9	Bromomethane	52.7	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.0	0.250	0.500	1.00	
78-93-3	2-Butanone	80.7	2.50	5.00	10.0	Y
135-98-8	sec-Butylbenzene	50.0	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	49.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	52.9	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	49.5	0.250	0.500	1.00	
108-90-7	Chlorobenzene	48.3	0.250	0.500	1.00	
75-00-3	Chloroethane	61.0	0.500	1.00	2.00	X
67-66-3	Chloroform	50.4	0.250	0.500	1.00	
74-87-3	Chloromethane	58.6	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	52.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	45.9	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	35.1	0.500	1.00	2.00	Y
106-93-4	1,2-Dibromoethane (EDB)	43.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	46.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	48.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	48.6	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	48.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	68.2	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	50.9	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	50.5	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	50.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	48.8	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.6	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	47.6	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	45.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	52.6	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	50.3	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	44.7	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	49.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	49.6	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	45.0	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F21001-BSD1 File ID: 0621LCD1.D

Sampled: Prepared: Analyzed: 06/21/11 18:51

Solids: Preparation: 5030B Dilution:

Batch: 1F21001 Sequence: 1F17211 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	81.7	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	48.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	51.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	50.7	0.500	1.00	2.00	
91-20-3	Naphthalene	34.2	0.250	0.500	1.00	Y
108-10-1	4-Methyl-2-pentanone	79.2	1.25	2.50	5.00	Y
1634-04-4	Methyl t-Butyl Ether	42.3	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	52.4	0.250	0.500	1.00	
100-42-5	Styrene	47.5	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	40.7	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	44.1	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	48.9	0.250	0.500	1.00	
108-88-3	Toluene	47.8	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	38.5	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	44.5	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	44.1	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	49.6	0.250	0.500	1.00	
79-01-6	Trichloroethene	48.2	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	56.5	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	37.3	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	51.1	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	48.1	0.250	0.500	1.00	
75-01-4	Vinyl chloride	52.8	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	94.9	0.500	1.00	2.00	
95-47-6	o-Xylene	48.7	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.95	103	75 - 120	
Dibromofluoromethane	30.00	31.01	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.26	97.5	70 - 120	
Toluene-d8	30.00	31.67	106	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F22004-BLK1 File ID: 0622BLK1.D

Sampled: Prepared: Analyzed: 06/22/11 09:24

Solids: Preparation: 5030B Dilution:

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	Y, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	Y, 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	X, 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	Y, U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.919	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F22004-BLK1 File ID: 0622BLK1.D

Sampled: Prepared: Analyzed: 06/22/11 09:24

Solids: Preparation: 5030B Dilution:

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 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	Y, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Y, 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	Y, 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	0.262	0.250	0.500	1.00	J
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	30.09	100	75 - 120	
Dibromofluoromethane	30.00	29.92	99.7	85 - 115	
1,2-Dichloroethane-d4	30.00	29.72	99.1	70 - 120	
Toluene-d8	30.00	32.39	108	85 - 120	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F22004-BS1 File ID: 0622LCS1.D

Sampled: Prepared: Analyzed: 06/22/11 08:07

Solids: Preparation: 5030B Dilution:

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	84.3	2.50	5.00	10.0	Y
71-43-2	Benzene	52.4	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.9	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	54.6	0.250	0.500	1.00	
75-25-2	Bromoform	45.5	0.250	0.500	1.00	
74-83-9	Bromomethane	57.5	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	55.5	0.250	0.500	1.00	
78-93-3	2-Butanone	80.8	2.50	5.00	10.0	Y
135-98-8	sec-Butylbenzene	53.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	53.9	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.8	0.250	0.500	1.00	
75-00-3	Chloroethane	63.5	0.500	1.00	2.00	X
67-66-3	Chloroform	52.8	0.250	0.500	1.00	
74-87-3	Chloromethane	59.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	53.2	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	54.9	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	36.5	0.500	1.00	2.00	Y
106-93-4	1,2-Dibromoethane (EDB)	49.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	48.6	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	54.0	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	53.6	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	69.6	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	52.9	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	55.9	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	56.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	51.6	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	57.5	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	51.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	65.4	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	54.0	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	50.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	59.0	0.250	0.500	1.00	
100-41-4	Ethylbenzene	55.2	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	60.2	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F22004-BS1 File ID: 0622LCS1.D

Sampled: Prepared: Analyzed: 06/22/11 08:07

Solids: Preparation: 5030B Dilution:

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	87.8	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	55.0	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	57.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.2	0.500	1.00	2.00	
91-20-3	Naphthalene	37.8	0.250	0.500	1.00	Y
108-10-1	4-Methyl-2-pentanone	80.4	1.25	2.50	5.00	Y
1634-04-4	Methyl t-Butyl Ether	43.9	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	55.0	0.250	0.500	1.00	
100-42-5	Styrene	54.4	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	40.8	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	52.8	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	55.1	0.250	0.500	1.00	
108-88-3	Toluene	54.9	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	49.0	0.250	0.500	1.00	B
120-82-1	1,2,4-Trichlorobenzene	50.7	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	49.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	53.1	0.250	0.500	1.00	
79-01-6	Trichloroethene	52.9	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	58.7	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	40.5	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	52.7	0.250	0.500	1.00	
75-01-4	Vinyl chloride	53.4	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	110	0.500	1.00	2.00	
95-47-6	o-Xylene	54.6	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.61	109	75 - 120	
Dibromofluoromethane	30.00	31.15	104	85 - 115	
1,2-Dichloroethane-d4	30.00	26.02	86.7	70 - 120	
Toluene-d8	30.00	34.64	115	85 - 120	X

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F22004-MS2 File ID: 0615501M.D

Sampled: Prepared: Analyzed: 06/22/11 18:40

Solids: Preparation: 5030B Dilution:

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	3760	125	250	500	Y, D
71-43-2	Benzene	2790	12.5	25.0	50.0	D
108-86-1	Bromobenzene	2410	12.5	25.0	50.0	D
74-97-5	Bromochloromethane	2290	12.5	25.0	50.0	D
75-27-4	Bromodichloromethane	2330	12.5	25.0	50.0	D
75-25-2	Bromoform	2070	12.5	25.0	50.0	D
74-83-9	Bromomethane	2300	25.0	50.0	100	D
104-51-8	n-Butylbenzene	2300	12.5	25.0	50.0	D
78-93-3	2-Butanone	3320	125	250	500	Y, D
135-98-8	sec-Butylbenzene	2300	12.5	25.0	50.0	D
98-06-6	tert-Butylbenzene	2240	12.5	25.0	50.0	D
75-15-0	Carbon disulfide	2150	12.5	25.0	50.0	D
56-23-5	Carbon tetrachloride	2130	12.5	25.0	50.0	D
108-90-7	Chlorobenzene	2310	12.5	25.0	50.0	D
75-00-3	Chloroethane	2510	25.0	50.0	100	X, D
67-66-3	Chloroform	2240	12.5	25.0	50.0	D
74-87-3	Chloromethane	2310	12.5	25.0	50.0	D
95-49-8	2-Chlorotoluene	2270	12.5	25.0	50.0	D
106-43-4	4-Chlorotoluene	2350	12.5	25.0	50.0	D
124-48-1	Dibromochloromethane	2370	12.5	25.0	50.0	D
96-12-8	1,2-Dibromo-3-chloropropane	1740	25.0	50.0	100	Y, D
106-93-4	1,2-Dibromoethane (EDB)	2290	12.5	25.0	50.0	D
74-95-3	Dibromomethane	2120	12.5	25.0	50.0	D
95-50-1	1,2-Dichlorobenzene	2350	12.5	25.0	50.0	D
541-73-1	1,3-Dichlorobenzene	2390	12.5	25.0	50.0	D
106-46-7	1,4-Dichlorobenzene	2270	12.5	25.0	50.0	D
75-71-8	Dichlorodifluoromethane	2880	25.0	50.0	100	D
75-34-3	1,1-Dichloroethane	2280	12.5	25.0	50.0	D
107-06-2	1,2-Dichloroethane	2360	12.5	25.0	50.0	D
75-35-4	1,1-Dichloroethene	2310	12.5	25.0	50.0	D
156-59-2	cis-1,2-Dichloroethene	2160	12.5	25.0	50.0	D
156-60-5	trans-1,2-Dichloroethene	2410	12.5	25.0	50.0	D
78-87-5	1,2-Dichloropropane	2100	12.5	25.0	50.0	D
142-28-9	1,3-Dichloropropane	2330	12.5	25.0	50.0	D
594-20-7	2,2-Dichloropropane	2340	12.5	25.0	50.0	X, D
563-58-6	1,1-Dichloropropene	2200	12.5	25.0	50.0	D
10061-01-5	cis-1,3-Dichloropropene	2040	12.5	25.0	50.0	D
10061-02-6	trans-1,3-Dichloropropene	2420	12.5	25.0	50.0	D
100-41-4	Ethylbenzene	2660	12.5	25.0	50.0	D
87-68-3	Hexachlorobutadiene	2460	12.5	25.0	50.0	D, B

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F22004-MS2 File ID: 0615501M.D

Sampled: Prepared: Analyzed: 06/22/11 18:40

Solids: Preparation: 5030B Dilution:

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	3710	62.5	125	250	D
98-82-8	Isopropylbenzene	2400	12.5	25.0	50.0	D
99-87-6	p-Isopropyltoluene	2490	12.5	25.0	50.0	D
75-09-2	Methylene chloride	2270	25.0	50.0	100	D
91-20-3	Naphthalene	1820	12.5	25.0	50.0	Y, D
108-10-1	4-Methyl-2-pentanone	3400	62.5	125	250	Y, D
1634-04-4	Methyl t-Butyl Ether	2010	12.5	25.0	50.0	D
103-65-1	n-Propylbenzene	2430	12.5	25.0	50.0	D
100-42-5	Styrene	2320	12.5	25.0	50.0	D
79-34-5	1,1,2,2-Tetrachloroethane	1950	12.5	25.0	50.0	Y, D
630-20-6	1,1,1,2-Tetrachloroethane	2350	12.5	25.0	50.0	D
127-18-4	Tetrachloroethene	2300	12.5	25.0	50.0	D
108-88-3	Toluene	4240	12.5	25.0	50.0	D
87-61-6	1,2,3-Trichlorobenzene	2140	12.5	25.0	50.0	D, B
120-82-1	1,2,4-Trichlorobenzene	2350	12.5	25.0	50.0	D
79-00-5	1,1,2-Trichloroethane	2200	12.5	25.0	50.0	D
71-55-6	1,1,1-Trichloroethane	2170	12.5	25.0	50.0	D
79-01-6	Trichloroethene	2180	12.5	25.0	50.0	D
75-69-4	Trichlorofluoromethane	2420	25.0	50.0	100	D
96-18-4	1,2,3-Trichloropropane	1870	25.0	50.0	100	D
108-67-8	1,3,5-Trimethylbenzene	2290	12.5	25.0	50.0	D
95-63-6	1,2,4-Trimethylbenzene	2370	12.5	25.0	50.0	D
75-01-4	Vinyl chloride	2170	12.5	25.0	50.0	D
108-38-3/106-42-	m,p-Xylene	5490	25.0	50.0	100	D
95-47-6	o-Xylene	2680	12.5	25.0	50.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.66	109	75 - 120	
Dibromofluoromethane	30.00	29.95	99.8	85 - 115	
1,2-Dichloroethane-d4	30.00	28.82	96.1	70 - 120	
Toluene-d8	30.00	33.87	113	85 - 120	X

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F22004-MSD2 File ID: 0615501S.D

Sampled: Prepared: Analyzed: 06/22/11 19:06

Solids: Preparation: 5030B Dilution:

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	4010	125	250	500	Y, D
71-43-2	Benzene	2810	12.5	25.0	50.0	D
108-86-1	Bromobenzene	2350	12.5	25.0	50.0	D
74-97-5	Bromochloromethane	2390	12.5	25.0	50.0	D
75-27-4	Bromodichloromethane	2430	12.5	25.0	50.0	D
75-25-2	Bromoform	2040	12.5	25.0	50.0	D
74-83-9	Bromomethane	2360	25.0	50.0	100	D
104-51-8	n-Butylbenzene	2240	12.5	25.0	50.0	D
78-93-3	2-Butanone	3510	125	250	500	Y, D
135-98-8	sec-Butylbenzene	2150	12.5	25.0	50.0	D
98-06-6	tert-Butylbenzene	2220	12.5	25.0	50.0	D
75-15-0	Carbon disulfide	2190	12.5	25.0	50.0	D
56-23-5	Carbon tetrachloride	2130	12.5	25.0	50.0	D
108-90-7	Chlorobenzene	2280	12.5	25.0	50.0	D
75-00-3	Chloroethane	2550	25.0	50.0	100	X, D
67-66-3	Chloroform	2270	12.5	25.0	50.0	D
74-87-3	Chloromethane	2340	12.5	25.0	50.0	D
95-49-8	2-Chlorotoluene	2230	12.5	25.0	50.0	D
106-43-4	4-Chlorotoluene	2330	12.5	25.0	50.0	D
124-48-1	Dibromochloromethane	2320	12.5	25.0	50.0	D
96-12-8	1,2-Dibromo-3-chloropropane	1780	25.0	50.0	100	Y, D
106-93-4	1,2-Dibromoethane (EDB)	2230	12.5	25.0	50.0	D
74-95-3	Dibromomethane	2250	12.5	25.0	50.0	D
95-50-1	1,2-Dichlorobenzene	2320	12.5	25.0	50.0	D
541-73-1	1,3-Dichlorobenzene	2260	12.5	25.0	50.0	D
106-46-7	1,4-Dichlorobenzene	2250	12.5	25.0	50.0	D
75-71-8	Dichlorodifluoromethane	2770	25.0	50.0	100	D
75-34-3	1,1-Dichloroethane	2280	12.5	25.0	50.0	D
107-06-2	1,2-Dichloroethane	2430	12.5	25.0	50.0	D
75-35-4	1,1-Dichloroethene	2310	12.5	25.0	50.0	D
156-59-2	cis-1,2-Dichloroethene	2140	12.5	25.0	50.0	D
156-60-5	trans-1,2-Dichloroethene	2370	12.5	25.0	50.0	D
78-87-5	1,2-Dichloropropane	2150	12.5	25.0	50.0	D
142-28-9	1,3-Dichloropropane	2210	12.5	25.0	50.0	D
594-20-7	2,2-Dichloropropane	2340	12.5	25.0	50.0	X, D
563-58-6	1,1-Dichloropropene	2190	12.5	25.0	50.0	D
10061-01-5	cis-1,3-Dichloropropene	2140	12.5	25.0	50.0	D
10061-02-6	trans-1,3-Dichloropropene	2500	12.5	25.0	50.0	D
100-41-4	Ethylbenzene	2570	12.5	25.0	50.0	D
87-68-3	Hexachlorobutadiene	2380	12.5	25.0	50.0	D, B

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F22004-MSD2 File ID: 0615501S.D

Sampled: Prepared: Analyzed: 06/22/11 19:06

Solids: Preparation: 5030B Dilution:

Batch: 1F22004 Sequence: 1F17406 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	3660	62.5	125	250	D
98-82-8	Isopropylbenzene	2310	12.5	25.0	50.0	D
99-87-6	p-Isopropyltoluene	2390	12.5	25.0	50.0	D
75-09-2	Methylene chloride	2380	25.0	50.0	100	D
91-20-3	Naphthalene	1790	12.5	25.0	50.0	Y, D
108-10-1	4-Methyl-2-pentanone	3610	62.5	125	250	Y, D
1634-04-4	Methyl t-Butyl Ether	2040	12.5	25.0	50.0	D
103-65-1	n-Propylbenzene	2340	12.5	25.0	50.0	D
100-42-5	Styrene	2320	12.5	25.0	50.0	D
79-34-5	1,1,2,2-Tetrachloroethane	1920	12.5	25.0	50.0	Y, D
630-20-6	1,1,1,2-Tetrachloroethane	2290	12.5	25.0	50.0	D
127-18-4	Tetrachloroethene	2270	12.5	25.0	50.0	D
108-88-3	Toluene	4530	12.5	25.0	50.0	D
87-61-6	1,2,3-Trichlorobenzene	2070	12.5	25.0	50.0	D, B
120-82-1	1,2,4-Trichlorobenzene	2210	12.5	25.0	50.0	D
79-00-5	1,1,2-Trichloroethane	2210	12.5	25.0	50.0	D
71-55-6	1,1,1-Trichloroethane	2190	12.5	25.0	50.0	D
79-01-6	Trichloroethene	2130	12.5	25.0	50.0	D
75-69-4	Trichlorofluoromethane	2400	25.0	50.0	100	D
96-18-4	1,2,3-Trichloropropane	1870	25.0	50.0	100	D
108-67-8	1,3,5-Trimethylbenzene	2250	12.5	25.0	50.0	D
95-63-6	1,2,4-Trimethylbenzene	2340	12.5	25.0	50.0	D
75-01-4	Vinyl chloride	2170	12.5	25.0	50.0	D
108-38-3/106-42-	m,p-Xylene	5310	25.0	50.0	100	D
95-47-6	o-Xylene	2600	12.5	25.0	50.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.59	109	75 - 120	
Dibromofluoromethane	30.00	30.90	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.85	99.5	70 - 120	
Toluene-d8	30.00	33.70	112	85 - 120	X

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F23023-BLK1 File ID: 0623BLKE.D

Sampled: Prepared: Analyzed: 06/23/11 18:17

Solids: Preparation: 5030B Dilution:

Batch: 1F23023 Sequence: 1F17503 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, 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	Y, 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	X, 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	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	0.719	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F23023-BLK1 File ID: 0623BLKE.D

Sampled: Prepared: Analyzed: 06/23/11 18:17

Solids: Preparation: 5030B Dilution:

Batch: 1F23023 Sequence: 1F17503 Calibration: 1154004 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	Y, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Y, 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	Y, 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	32.17	107	75 - 120	
Dibromofluoromethane	30.00	31.53	105	85 - 115	
1,2-Dichloroethane-d4	30.00	31.36	105	70 - 120	
Toluene-d8	30.00	33.23	111	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F23023-BS1 File ID: 0623LCSE.D

Sampled: Prepared: Analyzed: 06/23/11 16:59

Solids: Preparation: 5030B Dilution:

Batch: 1F23023 Sequence: 1F17503 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	83.8	2.50	5.00	10.0	
71-43-2	Benzene	47.1	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.3	0.250	0.500	1.00	
74-97-5	Bromochloromethane	52.8	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	53.8	0.250	0.500	1.00	
75-25-2	Bromoform	51.1	0.250	0.500	1.00	
74-83-9	Bromomethane	51.3	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	42.7	0.250	0.500	1.00	
78-93-3	2-Butanone	78.3	2.50	5.00	10.0	Y
135-98-8	sec-Butylbenzene	46.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	45.8	0.250	0.500	1.00	
75-15-0	Carbon disulfide	46.8	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	53.3	0.250	0.500	1.00	
108-90-7	Chlorobenzene	51.0	0.250	0.500	1.00	
75-00-3	Chloroethane	63.2	0.500	1.00	2.00	X
67-66-3	Chloroform	49.6	0.250	0.500	1.00	
74-87-3	Chloromethane	43.2	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	46.1	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	47.7	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.7	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	42.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	49.4	0.250	0.500	1.00	
74-95-3	Dibromomethane	51.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	51.0	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	49.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	57.6	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	50.1	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	55.9	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	51.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	48.4	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	52.6	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	47.2	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	48.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	53.1	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	48.2	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	46.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	54.1	0.250	0.500	1.00	
100-41-4	Ethylbenzene	49.1	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	56.4	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F23023-BS1 File ID: 0623LCSE.D

Sampled: Prepared: Analyzed: 06/23/11 16:59

Solids: Preparation: 5030B Dilution:

Batch: 1F23023 Sequence: 1F17503 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	85.3	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	53.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	49.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	49.1	0.500	1.00	2.00	
91-20-3	Naphthalene	41.3	0.250	0.500	1.00	Y
108-10-1	4-Methyl-2-pentanone	82.0	1.25	2.50	5.00	Y
1634-04-4	Methyl t-Butyl Ether	46.8	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	44.6	0.250	0.500	1.00	
100-42-5	Styrene	51.1	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	38.6	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	52.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	54.9	0.250	0.500	1.00	
108-88-3	Toluene	47.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	52.0	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	53.1	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	45.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	52.1	0.250	0.500	1.00	
79-01-6	Trichloroethene	49.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	56.2	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	44.7	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	47.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	46.7	0.250	0.500	1.00	
75-01-4	Vinyl chloride	48.9	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	98.5	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	35.35	118	75 - 120	
Dibromofluoromethane	30.00	33.46	112	85 - 115	
1,2-Dichloroethane-d4	30.00	31.63	105	70 - 120	
Toluene-d8	30.00	33.84	113	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F23023-BSD1 File ID: 0623LCDE.D

Sampled: Prepared: Analyzed: 06/23/11 23:59

Solids: Preparation: 5030B Dilution:

Batch: 1F23023 Sequence: 1F17503 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	77.1	2.50	5.00	10.0	
71-43-2	Benzene	47.9	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	52.6	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	61.9	0.250	0.500	1.00	
75-25-2	Bromoform	51.1	0.250	0.500	1.00	
74-83-9	Bromomethane	45.0	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	45.3	0.250	0.500	1.00	
78-93-3	2-Butanone	73.5	2.50	5.00	10.0	Y
135-98-8	sec-Butylbenzene	46.6	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	48.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	47.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	53.4	0.250	0.500	1.00	
108-90-7	Chlorobenzene	50.9	0.250	0.500	1.00	
75-00-3	Chloroethane	66.0	0.500	1.00	2.00	X
67-66-3	Chloroform	50.9	0.250	0.500	1.00	
74-87-3	Chloromethane	51.5	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	45.4	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	48.4	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	54.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	41.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	49.0	0.250	0.500	1.00	
74-95-3	Dibromomethane	50.4	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	51.6	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.3	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	63.9	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	49.7	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	56.3	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	50.0	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	48.5	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	52.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	45.8	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	48.6	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.8	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	49.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	45.6	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	54.8	0.250	0.500	1.00	
100-41-4	Ethylbenzene	50.4	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	48.3	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F23023-BSD1 File ID: 0623LCDE.D

Sampled: Prepared: Analyzed: 06/23/11 23:59

Solids: Preparation: 5030B Dilution:

Batch: 1F23023 Sequence: 1F17503 Calibration: 1154004 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	79.0	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	52.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	49.9	0.250	0.500	1.00	
75-09-2	Methylene chloride	51.0	0.500	1.00	2.00	
91-20-3	Naphthalene	36.2	0.250	0.500	1.00	Y
108-10-1	4-Methyl-2-pentanone	76.6	1.25	2.50	5.00	Y
1634-04-4	Methyl t-Butyl Ether	45.9	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	45.0	0.250	0.500	1.00	
100-42-5	Styrene	49.7	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	37.9	0.250	0.500	1.00	Y
630-20-6	1,1,1,2-Tetrachloroethane	53.6	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	56.8	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	44.9	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	45.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	52.0	0.250	0.500	1.00	
79-01-6	Trichloroethene	48.8	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	56.1	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	43.6	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	46.8	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	48.9	0.250	0.500	1.00	
75-01-4	Vinyl chloride	48.9	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	49.9	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	33.00	110	75 - 120	
Dibromofluoromethane	30.00	32.07	107	85 - 115	
1,2-Dichloroethane-d4	30.00	31.61	105	70 - 120	
Toluene-d8	30.00	32.88	110	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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
GW0046	06/13/11 12:38	06/14/11 09:00	06/22/11 00:00	N/A	14.00	06/22/11 17:20	9.15	14.00	
GW8061-TB	06/13/11 08:00	06/14/11 09:00	06/17/11 00:00	N/A	14.00	06/18/11 00:42	4.65	14.00	
GW0082	06/15/11 12:06	06/16/11 09:00	06/22/11 00:00	N/A	14.00	06/22/11 16:54	7.16	14.00	
GW8062-TB	06/15/11 08:00	06/16/11 09:00	06/22/11 00:00	N/A	14.00	06/22/11 09:50	7.03	14.00	
GW0094	06/16/11 10:31	06/17/11 09:00	06/21/11 00:00	N/A	14.00	06/21/11 16:39	5.21	14.00	
GW8063-TB	06/16/11 08:00	06/17/11 09:00	06/21/11 00:00	N/A	14.00	06/21/11 10:55	5.08	14.00	
GW0096	06/17/11 13:56	06/18/11 11:00	06/22/11 00:00	N/A	14.00	06/22/11 13:21	4.93	14.00	
GW8064-TB	06/17/11 08:00	06/18/11 11:00	06/22/11 00:00	N/A	14.00	06/22/11 10:17	5.05	14.00	
GW0095	06/20/11 11:22	06/21/11 09:00	06/23/11 00:00	N/A	14.00	06/23/11 20:29	3.34	14.00	
GW8065-TB	06/20/11 08:00	06/21/11 09:00	06/23/11 00:00	N/A	14.00	06/23/11 18:44	3.41	14.00	

Data for SW8270C Forms

ANALYSIS DATA SHEET

GW0046

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-01	File ID:	0615501.D
Sampled:	06/13/11 12:38	Prepared:	06/17/11 11:40	Analyzed:	06/24/11 17:56
Solids:		Preparation:	EXT_3510	Dilution:	2

Batch: 1F15936 Sequence: 1F17603 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		2.34	4.67	9.35	U
208-96-8	Acenaphthylene		2.34	4.67	9.35	U
98-86-2	Acetophenone	1770	2.34	4.67	9.35	N, D, E
120-12-7	Anthracene		2.34	4.67	9.35	U
1912-24-9	Atrazine		2.34	4.67	9.35	N, U
100-52-7	Benzaldehyde		2.34	4.67	9.35	Y, N, U
92-87-5	Benzidine		23.4	46.7	93.5	U
56-55-3	Benzo(a)anthracene		2.34	4.67	9.35	U
50-32-8	Benzo(a)pyrene		2.34	4.67	9.35	U
205-99-2	Benzo(b)fluoranthene		2.34	4.67	9.35	X, U
191-24-2	Benzo(g,h,i)perylene		2.34	4.67	9.35	N, U
65-85-0	Benzoic acid		23.4	46.7	93.5	N, U
207-08-9	Benzo(k)fluoranthene		2.34	4.67	9.35	U
92-52-4	1,1-Biphenyl	9.77	2.34	4.67	9.35	D
101-55-3	4-Bromophenyl-phenylether		2.34	4.67	9.35	U
85-68-7	Butylbenzylphthalate		2.34	4.67	9.35	U
105-60-2	Caprolactam		2.34	4.67	9.35	N, Q, U
86-74-8	Carbazole		2.34	4.67	9.35	U
59-50-7	4-Chloro-3-methylphenol		2.34	4.67	9.35	U
106-47-8	4-Chloroaniline		2.34	4.67	9.35	U
111-91-1	Bis(2-chloroethoxy)methane		2.34	4.67	9.35	N, U
111-44-4	Bis(2-chloroethyl)ether		2.34	4.67	9.35	U
108-60-1	2,2'-Oxybis-1-chloropropane		2.34	4.67	9.35	U
91-58-7	2-Chloronaphthalene		2.34	4.67	9.35	X, U
95-57-8	2-Chlorophenol		2.34	4.67	9.35	U
7005-72-3	4-Chlorophenyl phenyl ether		2.34	4.67	9.35	U
218-01-9	Chrysene		2.34	4.67	9.35	U
53-70-3	Dibenz(a,h)anthracene		2.34	4.67	9.35	N, U
132-64-9	Dibenzofuran		2.34	4.67	9.35	U
84-74-2	Di-n-butylphthalate		2.34	4.67	9.35	U
91-94-1	3,3'-Dichlorobenzidine		2.34	4.67	9.35	X, N, U
120-83-2	2,4-Dichlorophenol		2.34	4.67	9.35	U
84-66-2	Diethylphthalate		2.34	4.67	9.35	U
105-67-9	2,4-Dimethylphenol		9.35	18.7	37.4	U
131-11-3	Dimethyl phthalate		2.34	4.67	9.35	U
534-52-1	4,6-Dinitro-2-methylphenol		9.35	18.7	37.4	U
51-28-5	2,4-Dinitrophenol		23.4	46.7	93.5	X, U
121-14-2	2,4-Dinitrotoluene		2.34	4.67	9.35	U
606-20-2	2,6-Dinitrotoluene		2.34	4.67	9.35	U
117-84-0	Di-n-octylphthalate		2.34	4.67	9.35	X, U

ANALYSIS DATA SHEET

GW0046

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-01	File ID:	0615501.D
Sampled:	06/13/11 12:38	Prepared:	06/17/11 11:40	Analyzed:	06/24/11 17:56
Solids:		Preparation:	EXT_3510	Dilution:	2

Batch: 1F15936 Sequence: 1F17603 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	4.12	2.34	4.67	9.35	J, D
117-81-7	Bis(2-ethylhexyl)phthalate		2.34	4.67	9.35	U
206-44-0	Fluoranthene		2.34	4.67	9.35	U
86-73-7	Fluorene		2.34	4.67	9.35	U
118-74-1	Hexachlorobenzene		2.34	4.67	9.35	U
87-68-3	Hexachlorobutadiene		2.34	4.67	9.35	U
77-47-4	Hexachlorocyclopentadiene		2.34	4.67	9.35	U
67-72-1	Hexachloroethane		2.34	4.67	9.35	U
193-39-5	Indeno(1,2,3-cd)pyrene		2.34	4.67	9.35	N, U
78-59-1	Isophorone		2.34	4.67	9.35	N, U
90-12-0	1-Methylnaphthalene	17.3	2.34	4.67	9.35	D
91-57-6	2-Methylnaphthalene	17.8	2.34	4.67	9.35	D
95-48-7	2-Methylphenol	6.68	2.34	4.67	9.35	J, D
65794-96-9	3-Methylphenol/4-Methylphenol	28.2	2.34	4.67	9.35	N, D
100-01-6	4-Nitroaniline		9.35	18.7	37.4	U
99-09-2	3-Nitroaniline		9.35	18.7	37.4	U
88-74-4	2-Nitroaniline		9.35	18.7	37.4	X, U
98-95-3	Nitrobenzene		2.34	4.67	9.35	N, U
100-02-7	4-Nitrophenol		9.35	18.7	37.4	X, U
88-75-5	2-Nitrophenol		2.34	4.67	9.35	U
86-30-6	N-Nitrosodiphenylamine		2.34	4.67	9.35	N, U
621-64-7	N-Nitroso-di-n-propylamine		2.34	4.67	9.35	U
87-86-5	Pentachlorophenol		9.35	18.7	37.4	U
85-01-8	Phenanthrene		2.34	4.67	9.35	U
108-95-2	Phenol		2.34	4.67	9.35	U
129-00-0	Pyrene		2.34	4.67	9.35	U
88-06-2	2,4,6-Trichlorophenol		2.34	4.67	9.35	U
95-95-4	2,4,5-Trichlorophenol		2.34	4.67	9.35	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	35.29	75.5	50 - 110	
2-Fluorophenol	93.46	22.33	23.9	20 - 110	
Nitrobenzene-d5	46.73	28.44	60.9	40 - 110	
Phenol-d6	93.46	33.80	36.2	10 - 110	
Terphenyl-d14	46.73	22.91	49.0	50 - 135	*
2,4,6-Tribromophenol	93.46	65.14	69.7	40 - 125	

ANALYSIS DATA SHEET

GW0046

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-01RE1	File ID:	0615501D.D
Sampled:	06/13/11 12:38	Prepared:	06/17/11 11:40	Analyzed:	06/30/11 18:16
Solids:		Preparation:	EXT_3510	Dilution:	25

Batch: 1F15936 Sequence: 1F18113 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		29.2	58.4	117	U
208-96-8	Acenaphthylene		29.2	58.4	117	U
98-86-2	Acetophenone	1060	29.2	58.4	117	N, D
120-12-7	Anthracene		29.2	58.4	117	U
1912-24-9	Atrazine		29.2	58.4	117	N, U
100-52-7	Benzaldehyde		29.2	58.4	117	N, U
92-87-5	Benzidine		292	584	1170	U
56-55-3	Benzo(a)anthracene		29.2	58.4	117	U
50-32-8	Benzo(a)pyrene		29.2	58.4	117	U
205-99-2	Benzo(b)fluoranthene		29.2	58.4	117	X, U
191-24-2	Benzo(g,h,i)perylene		29.2	58.4	117	N, U
65-85-0	Benzoic acid		292	584	1170	N, U
207-08-9	Benzo(k)fluoranthene		29.2	58.4	117	U
92-52-4	1,1-Biphenyl		29.2	58.4	117	U
101-55-3	4-Bromophenyl-phenylether		29.2	58.4	117	U
85-68-7	Butylbenzylphthalate		29.2	58.4	117	U
105-60-2	Caprolactam		29.2	58.4	117	N, U
86-74-8	Carbazole		29.2	58.4	117	U
59-50-7	4-Chloro-3-methylphenol		29.2	58.4	117	U
106-47-8	4-Chloroaniline		29.2	58.4	117	U
111-91-1	Bis(2-chloroethoxy)methane		29.2	58.4	117	N, U
111-44-4	Bis(2-chloroethyl)ether		29.2	58.4	117	U
108-60-1	2,2'-Oxybis-1-chloropropane		29.2	58.4	117	U
91-58-7	2-Chloronaphthalene		29.2	58.4	117	X, U
95-57-8	2-Chlorophenol		29.2	58.4	117	U
7005-72-3	4-Chlorophenyl phenyl ether		29.2	58.4	117	U
218-01-9	Chrysene		29.2	58.4	117	U
53-70-3	Dibenz(a,h)anthracene		29.2	58.4	117	N, U
132-64-9	Dibenzofuran		29.2	58.4	117	U
84-74-2	Di-n-butylphthalate		29.2	58.4	117	U
91-94-1	3,3'-Dichlorobenzidine		29.2	58.4	117	N, X, U
120-83-2	2,4-Dichlorophenol		29.2	58.4	117	U
84-66-2	Diethylphthalate		29.2	58.4	117	U
105-67-9	2,4-Dimethylphenol		117	234	467	U
131-11-3	Dimethyl phthalate		29.2	58.4	117	U
534-52-1	4,6-Dinitro-2-methylphenol		117	234	467	U
51-28-5	2,4-Dinitrophenol		292	584	1170	X, U
121-14-2	2,4-Dinitrotoluene		29.2	58.4	117	U
606-20-2	2,6-Dinitrotoluene		29.2	58.4	117	U
117-84-0	Di-n-octylphthalate		29.2	58.4	117	X, U

ANALYSIS DATA SHEET

GW0046

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-01RE1	File ID:	0615501D.D
Sampled:	06/13/11 12:38	Prepared:	06/17/11 11:40	Analyzed:	06/30/11 18:16
Solids:		Preparation:	EXT_3510	Dilution:	25

Batch: 1F15936 Sequence: 1F18113 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		29.2	58.4	117	U
117-81-7	Bis(2-ethylhexyl)phthalate		29.2	58.4	117	U
206-44-0	Fluoranthene		29.2	58.4	117	U
86-73-7	Fluorene		29.2	58.4	117	U
118-74-1	Hexachlorobenzene		29.2	58.4	117	U
87-68-3	Hexachlorobutadiene		29.2	58.4	117	U
77-47-4	Hexachlorocyclopentadiene		29.2	58.4	117	U
67-72-1	Hexachloroethane		29.2	58.4	117	U
193-39-5	Indeno(1,2,3-cd)pyrene		29.2	58.4	117	N, U
78-59-1	Isophorone		29.2	58.4	117	N, U
90-12-0	1-Methylnaphthalene		29.2	58.4	117	U
91-57-6	2-Methylnaphthalene		29.2	58.4	117	U
95-48-7	2-Methylphenol		29.2	58.4	117	U
65794-96-9	3-Methylphenol/4-Methylphenol		29.2	58.4	117	N, U
100-01-6	4-Nitroaniline		117	234	467	U
99-09-2	3-Nitroaniline		117	234	467	U
88-74-4	2-Nitroaniline		117	234	467	U
98-95-3	Nitrobenzene		29.2	58.4	117	N, U
100-02-7	4-Nitrophenol		117	234	467	X, U
88-75-5	2-Nitrophenol		29.2	58.4	117	U
86-30-6	N-Nitrosodiphenylamine		29.2	58.4	117	N, U
621-64-7	N-Nitroso-di-n-propylamine		29.2	58.4	117	U
87-86-5	Pentachlorophenol		117	234	467	U
85-01-8	Phenanthrene		29.2	58.4	117	U
108-95-2	Phenol		29.2	58.4	117	U
129-00-0	Pyrene		29.2	58.4	117	U
88-06-2	2,4,6-Trichlorophenol		29.2	58.4	117	U
95-95-4	2,4,5-Trichlorophenol		29.2	58.4	117	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	0.000		50 - 110	DU
2-Fluorophenol	93.46	0.000		20 - 110	DU
Nitrobenzene-d5	46.73	0.000		40 - 110	DU
Phenol-d6	93.46	0.000		10 - 110	DU
Terphenyl-d14	46.73	0.000		50 - 135	DU
2,4,6-Tribromophenol	93.46	0.000		40 - 125	DU

ANALYSIS DATA SHEET

GW0082

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-01	File ID:	0617901D.D
Sampled:	06/15/11 12:06	Prepared:	06/17/11 11:40	Analyzed:	07/07/11 22:47
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1F15936 Sequence: 1G18908 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		11.8	23.6	47.2	U
208-96-8	Acenaphthylene		11.8	23.6	47.2	U
98-86-2	Acetophenone	2790	11.8	23.6	47.2	D, E
120-12-7	Anthracene		11.8	23.6	47.2	U
1912-24-9	Atrazine		11.8	23.6	47.2	U
100-52-7	Benzaldehyde		11.8	23.6	47.2	U
92-87-5	Benzidine		118	236	472	U
56-55-3	Benzo(a)anthracene		11.8	23.6	47.2	U
50-32-8	Benzo(a)pyrene		11.8	23.6	47.2	U
205-99-2	Benzo(b)fluoranthene		11.8	23.6	47.2	X, U
191-24-2	Benzo(g,h,i)perylene		11.8	23.6	47.2	X, U
65-85-0	Benzoic acid		118	236	472	U
207-08-9	Benzo(k)fluoranthene		11.8	23.6	47.2	U
92-52-4	1,1-Biphenyl		11.8	23.6	47.2	U
101-55-3	4-Bromophenyl-phenylether		11.8	23.6	47.2	U
85-68-7	Butylbenzylphthalate		11.8	23.6	47.2	U
105-60-2	Caprolactam		11.8	23.6	47.2	Q, U
86-74-8	Carbazole		11.8	23.6	47.2	U
59-50-7	4-Chloro-3-methylphenol		11.8	23.6	47.2	U
106-47-8	4-Chloroaniline		11.8	23.6	47.2	U
111-91-1	Bis(2-chloroethoxy)methane		11.8	23.6	47.2	U
111-44-4	Bis(2-chloroethyl)ether		11.8	23.6	47.2	U
108-60-1	2,2'-Oxybis-1-chloropropane		11.8	23.6	47.2	U
91-58-7	2-Chloronaphthalene		11.8	23.6	47.2	X, U
95-57-8	2-Chlorophenol		11.8	23.6	47.2	U
7005-72-3	4-Chlorophenyl phenyl ether		11.8	23.6	47.2	U
218-01-9	Chrysene		11.8	23.6	47.2	U
53-70-3	Dibenz(a,h)anthracene		11.8	23.6	47.2	X, U
132-64-9	Dibenzofuran		11.8	23.6	47.2	U
84-74-2	Di-n-butylphthalate		11.8	23.6	47.2	U
91-94-1	3,3'-Dichlorobenzidine		11.8	23.6	47.2	X, U
120-83-2	2,4-Dichlorophenol		11.8	23.6	47.2	U
84-66-2	Diethylphthalate		11.8	23.6	47.2	U
105-67-9	2,4-Dimethylphenol		47.2	94.3	189	U
131-11-3	Dimethyl phthalate		11.8	23.6	47.2	U
534-52-1	4,6-Dinitro-2-methylphenol		47.2	94.3	189	U
51-28-5	2,4-Dinitrophenol		118	236	472	X, U
121-14-2	2,4-Dinitrotoluene		11.8	23.6	47.2	U
606-20-2	2,6-Dinitrotoluene		11.8	23.6	47.2	U
117-84-0	Di-n-octylphthalate		11.8	23.6	47.2	U

ANALYSIS DATA SHEET

GW0082

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-01	File ID:	0617901D.D
Sampled:	06/15/11 12:06	Prepared:	06/17/11 11:40	Analyzed:	07/07/11 22:47
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1F15936 Sequence: 1G18908 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		11.8	23.6	47.2	U
117-81-7	Bis(2-ethylhexyl)phthalate		11.8	23.6	47.2	U
206-44-0	Fluoranthene		11.8	23.6	47.2	U
86-73-7	Fluorene		11.8	23.6	47.2	U
118-74-1	Hexachlorobenzene		11.8	23.6	47.2	U
87-68-3	Hexachlorobutadiene		11.8	23.6	47.2	U
77-47-4	Hexachlorocyclopentadiene		11.8	23.6	47.2	U
67-72-1	Hexachloroethane		11.8	23.6	47.2	U
193-39-5	Indeno(1,2,3-cd)pyrene		11.8	23.6	47.2	X, U
78-59-1	Isophorone		11.8	23.6	47.2	U
90-12-0	1-Methylnaphthalene	35.4	11.8	23.6	47.2	J, D
91-57-6	2-Methylnaphthalene	43.9	11.8	23.6	47.2	J, D
95-48-7	2-Methylphenol		11.8	23.6	47.2	U
65794-96-9	3-Methylphenol/4-Methylphenol		11.8	23.6	47.2	U
100-01-6	4-Nitroaniline		47.2	94.3	189	Y, U
99-09-2	3-Nitroaniline		47.2	94.3	189	U
88-74-4	2-Nitroaniline		47.2	94.3	189	U
98-95-3	Nitrobenzene		11.8	23.6	47.2	U
100-02-7	4-Nitrophenol		47.2	94.3	189	U
88-75-5	2-Nitrophenol		11.8	23.6	47.2	U
86-30-6	N-Nitrosodiphenylamine		11.8	23.6	47.2	U
621-64-7	N-Nitroso-di-n-propylamine		11.8	23.6	47.2	U
87-86-5	Pentachlorophenol		47.2	94.3	189	U
85-01-8	Phenanthrene		11.8	23.6	47.2	U
108-95-2	Phenol		11.8	23.6	47.2	U
129-00-0	Pyrene		11.8	23.6	47.2	U
88-06-2	2,4,6-Trichlorophenol		11.8	23.6	47.2	U
95-95-4	2,4,5-Trichlorophenol		11.8	23.6	47.2	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	40.13	85.1	50 - 110	
2-Fluorophenol	94.34	21.32	22.6	20 - 110	
Nitrobenzene-d5	47.17	24.05	51.0	40 - 110	
Phenol-d6	94.34	24.60	26.1	10 - 110	
Terphenyl-d14	47.17	29.67	62.9	50 - 135	
2,4,6-Tribromophenol	94.34	66.32	70.3	40 - 125	

ANALYSIS DATA SHEET

GW0082

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-01RE1	File ID:	617901D2.D
Sampled:	06/15/11 12:06	Prepared:	06/17/11 11:40	Analyzed:	07/08/11 22:56
Solids:		Preparation:	EXT_3510	Dilution:	50

Batch: 1F15936 Sequence: 1G19005 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		59.0	118	236	U
208-96-8	Acenaphthylene		59.0	118	236	U
98-86-2	Acetophenone	3820	59.0	118	236	D
120-12-7	Anthracene		59.0	118	236	U
1912-24-9	Atrazine		59.0	118	236	U
100-52-7	Benzaldehyde		59.0	118	236	U
92-87-5	Benzidine		590	1180	2360	X, U
56-55-3	Benzo(a)anthracene		59.0	118	236	U
50-32-8	Benzo(a)pyrene		59.0	118	236	U
205-99-2	Benzo(b)fluoranthene		59.0	118	236	X, U
191-24-2	Benzo(g,h,i)perylene		59.0	118	236	U
65-85-0	Benzoic acid		590	1180	2360	U
207-08-9	Benzo(k)fluoranthene		59.0	118	236	U
92-52-4	1,1-Biphenyl		59.0	118	236	U
101-55-3	4-Bromophenyl-phenylether		59.0	118	236	U
85-68-7	Butylbenzylphthalate		59.0	118	236	U
105-60-2	Caprolactam		59.0	118	236	Q, U
86-74-8	Carbazole		59.0	118	236	U
59-50-7	4-Chloro-3-methylphenol		59.0	118	236	U
106-47-8	4-Chloroaniline		59.0	118	236	U
111-91-1	Bis(2-chloroethoxy)methane		59.0	118	236	U
111-44-4	Bis(2-chloroethyl)ether		59.0	118	236	U
108-60-1	2,2'-Oxybis-1-chloropropane		59.0	118	236	U
91-58-7	2-Chloronaphthalene		59.0	118	236	X, U
95-57-8	2-Chlorophenol		59.0	118	236	U
7005-72-3	4-Chlorophenyl phenyl ether		59.0	118	236	U
218-01-9	Chrysene		59.0	118	236	U
53-70-3	Dibenz(a,h)anthracene		59.0	118	236	U
132-64-9	Dibenzofuran		59.0	118	236	U
84-74-2	Di-n-butylphthalate		59.0	118	236	U
91-94-1	3,3'-Dichlorobenzidine		59.0	118	236	X, U
120-83-2	2,4-Dichlorophenol		59.0	118	236	U
84-66-2	Diethylphthalate		59.0	118	236	U
105-67-9	2,4-Dimethylphenol		236	472	943	U
131-11-3	Dimethyl phthalate		59.0	118	236	U
534-52-1	4,6-Dinitro-2-methylphenol		236	472	943	U
51-28-5	2,4-Dinitrophenol		590	1180	2360	X, U
121-14-2	2,4-Dinitrotoluene		59.0	118	236	U
606-20-2	2,6-Dinitrotoluene		59.0	118	236	U
117-84-0	Di-n-octylphthalate		59.0	118	236	X, U

ANALYSIS DATA SHEET

GW0082

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-01RE1	File ID:	617901D2.D
Sampled:	06/15/11 12:06	Prepared:	06/17/11 11:40	Analyzed:	07/08/11 22:56
Solids:		Preparation:	EXT_3510	Dilution:	50

Batch: 1F15936 Sequence: 1G19005 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		59.0	118	236	U
117-81-7	Bis(2-ethylhexyl)phthalate		59.0	118	236	U
206-44-0	Fluoranthene		59.0	118	236	U
86-73-7	Fluorene		59.0	118	236	U
118-74-1	Hexachlorobenzene		59.0	118	236	U
87-68-3	Hexachlorobutadiene		59.0	118	236	U
77-47-4	Hexachlorocyclopentadiene		59.0	118	236	U
67-72-1	Hexachloroethane		59.0	118	236	U
193-39-5	Indeno(1,2,3-cd)pyrene		59.0	118	236	U
78-59-1	Isophorone		59.0	118	236	U
90-12-0	1-Methylnaphthalene		59.0	118	236	U
91-57-6	2-Methylnaphthalene		59.0	118	236	U
95-48-7	2-Methylphenol		59.0	118	236	U
65794-96-9	3-Methylphenol/4-Methylphenol		59.0	118	236	U
100-01-6	4-Nitroaniline		236	472	943	U
99-09-2	3-Nitroaniline		236	472	943	U
88-74-4	2-Nitroaniline		236	472	943	X, U
98-95-3	Nitrobenzene		59.0	118	236	U
100-02-7	4-Nitrophenol		236	472	943	X, U
88-75-5	2-Nitrophenol		59.0	118	236	U
86-30-6	N-Nitrosodiphenylamine		59.0	118	236	U
621-64-7	N-Nitroso-di-n-propylamine		59.0	118	236	U
87-86-5	Pentachlorophenol		236	472	943	U
85-01-8	Phenanthrene		59.0	118	236	U
108-95-2	Phenol		59.0	118	236	X, U
129-00-0	Pyrene		59.0	118	236	U
88-06-2	2,4,6-Trichlorophenol		59.0	118	236	U
95-95-4	2,4,5-Trichlorophenol		59.0	118	236	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	0.000		50 - 110	DU
2-Fluorophenol	94.34	0.000		20 - 110	DU
Nitrobenzene-d5	47.17	0.000		40 - 110	DU
Phenol-d6	94.34	0.000		10 - 110	DU
Terphenyl-d14	47.17	0.000		50 - 135	DU
2,4,6-Tribromophenol	94.34	0.000		40 - 125	DU

ANALYSIS DATA SHEET

GW0094

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-01	File ID:	0618801.D
Sampled:	06/16/11 10:31	Prepared:	06/23/11 12:15	Analyzed:	07/02/11 08:53
Solids:		Preparation:	EXT_3510	Dilution:	5

Batch: 1F22013 Sequence: 1G18304 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		5.84	11.7	23.4	U
208-96-8	Acenaphthylene		5.84	11.7	23.4	U
98-86-2	Acetophenone	9750	5.84	11.7	23.4	D, E
120-12-7	Anthracene		5.84	11.7	23.4	U
1912-24-9	Atrazine		5.84	11.7	23.4	U
100-52-7	Benzaldehyde		5.84	11.7	23.4	U
92-87-5	Benzidine		58.4	117	234	X, U
56-55-3	Benzo(a)anthracene		5.84	11.7	23.4	U
50-32-8	Benzo(a)pyrene		5.84	11.7	23.4	U
205-99-2	Benzo(b)fluoranthene		5.84	11.7	23.4	X, U
191-24-2	Benzo(g,h,i)perylene		5.84	11.7	23.4	U
65-85-0	Benzoic acid	2020	58.4	117	234	D, E
207-08-9	Benzo(k)fluoranthene		5.84	11.7	23.4	U
92-52-4	1,1-Biphenyl	18.1	5.84	11.7	23.4	J, D
101-55-3	4-Bromophenyl-phenylether		5.84	11.7	23.4	U
85-68-7	Butylbenzylphthalate		5.84	11.7	23.4	U
105-60-2	Caprolactam		5.84	11.7	23.4	Q, U
86-74-8	Carbazole		5.84	11.7	23.4	U
59-50-7	4-Chloro-3-methylphenol		5.84	11.7	23.4	U
106-47-8	4-Chloroaniline		5.84	11.7	23.4	U
111-91-1	Bis(2-chloroethoxy)methane		5.84	11.7	23.4	U
111-44-4	Bis(2-chloroethyl)ether		5.84	11.7	23.4	U
108-60-1	2,2'-Oxybis-1-chloropropane		5.84	11.7	23.4	U
91-58-7	2-Chloronaphthalene		5.84	11.7	23.4	X, U
95-57-8	2-Chlorophenol		5.84	11.7	23.4	U
7005-72-3	4-Chlorophenyl phenyl ether		5.84	11.7	23.4	U
218-01-9	Chrysene		5.84	11.7	23.4	U
53-70-3	Dibenz(a,h)anthracene		5.84	11.7	23.4	U
132-64-9	Dibenzofuran		5.84	11.7	23.4	U
84-74-2	Di-n-butylphthalate		5.84	11.7	23.4	U
91-94-1	3,3'-Dichlorobenzidine		5.84	11.7	23.4	X, U
120-83-2	2,4-Dichlorophenol		5.84	11.7	23.4	U
84-66-2	Diethylphthalate	119	5.84	11.7	23.4	D
105-67-9	2,4-Dimethylphenol		23.4	46.7	93.5	U
131-11-3	Dimethyl phthalate		5.84	11.7	23.4	U
534-52-1	4,6-Dinitro-2-methylphenol		23.4	46.7	93.5	U
51-28-5	2,4-Dinitrophenol		58.4	117	234	X, U
121-14-2	2,4-Dinitrotoluene		5.84	11.7	23.4	U
606-20-2	2,6-Dinitrotoluene		5.84	11.7	23.4	U
117-84-0	Di-n-octylphthalate		5.84	11.7	23.4	X, U

ANALYSIS DATA SHEET

GW0094

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-01	File ID:	0618801.D
Sampled:	06/16/11 10:31	Prepared:	06/23/11 12:15	Analyzed:	07/02/11 08:53
Solids:		Preparation:	EXT_3510	Dilution:	5

Batch: 1F22013 Sequence: 1G18304 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		5.84	11.7	23.4	U
117-81-7	Bis(2-ethylhexyl)phthalate		5.84	11.7	23.4	U
206-44-0	Fluoranthene		5.84	11.7	23.4	U
86-73-7	Fluorene		5.84	11.7	23.4	U
118-74-1	Hexachlorobenzene		5.84	11.7	23.4	U
87-68-3	Hexachlorobutadiene		5.84	11.7	23.4	U
77-47-4	Hexachlorocyclopentadiene		5.84	11.7	23.4	X, U
67-72-1	Hexachloroethane		5.84	11.7	23.4	U
193-39-5	Indeno(1,2,3-cd)pyrene		5.84	11.7	23.4	U
78-59-1	Isophorone		5.84	11.7	23.4	U
90-12-0	1-Methylnaphthalene	83.1	5.84	11.7	23.4	D
91-57-6	2-Methylnaphthalene	99.6	5.84	11.7	23.4	D
95-48-7	2-Methylphenol	253	5.84	11.7	23.4	D
65794-96-9	3-Methylphenol/4-Methylphenol		5.84	11.7	23.4	U
100-01-6	4-Nitroaniline		23.4	46.7	93.5	U
99-09-2	3-Nitroaniline		23.4	46.7	93.5	U
88-74-4	2-Nitroaniline		23.4	46.7	93.5	U
98-95-3	Nitrobenzene		5.84	11.7	23.4	U
100-02-7	4-Nitrophenol		23.4	46.7	93.5	X, U
88-75-5	2-Nitrophenol		5.84	11.7	23.4	U
86-30-6	N-Nitrosodiphenylamine		5.84	11.7	23.4	Q, U
621-64-7	N-Nitroso-di-n-propylamine		5.84	11.7	23.4	U
87-86-5	Pentachlorophenol		23.4	46.7	93.5	U
85-01-8	Phenanthrene		5.84	11.7	23.4	U
108-95-2	Phenol		5.84	11.7	23.4	U
129-00-0	Pyrene		5.84	11.7	23.4	U
88-06-2	2,4,6-Trichlorophenol		5.84	11.7	23.4	U
95-95-4	2,4,5-Trichlorophenol		5.84	11.7	23.4	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	25.63	54.8	50 - 110	
2-Fluorophenol	93.46	26.29	28.1	20 - 110	
Nitrobenzene-d5	46.73	22.61	48.4	40 - 110	
Phenol-d6	93.46	269.8	289	10 - 110	*
Terphenyl-d14	46.73	23.81	50.9	50 - 135	
2,4,6-Tribromophenol	93.46	61.90	66.2	40 - 125	

ANALYSIS DATA SHEET

GW0094

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-01RE1	File ID:	0618801D.D
Sampled:	06/16/11 10:31	Prepared:	06/23/11 12:15	Analyzed:	07/03/11 01:24
Solids:		Preparation:	EXT_3510	Dilution:	250

Batch: 1F22013 Sequence: 1G18605 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		292	584	1170	U
208-96-8	Acenaphthylene		292	584	1170	U
98-86-2	Acetophenone	12400	292	584	1170	D
120-12-7	Anthracene		292	584	1170	U
1912-24-9	Atrazine		292	584	1170	U
100-52-7	Benzaldehyde		292	584	1170	U
92-87-5	Benzidine		2920	5840	11700	U
56-55-3	Benzo(a)anthracene		292	584	1170	U
50-32-8	Benzo(a)pyrene		292	584	1170	U
205-99-2	Benzo(b)fluoranthene		292	584	1170	X, U
191-24-2	Benzo(g,h,i)perylene		292	584	1170	U
65-85-0	Benzoic acid	4230	2920	5840	11700	J, D
207-08-9	Benzo(k)fluoranthene		292	584	1170	U
92-52-4	1,1-Biphenyl		292	584	1170	U
101-55-3	4-Bromophenyl-phenylether		292	584	1170	U
85-68-7	Butylbenzylphthalate		292	584	1170	U
105-60-2	Caprolactam		292	584	1170	Q, U
86-74-8	Carbazole		292	584	1170	U
59-50-7	4-Chloro-3-methylphenol		292	584	1170	U
106-47-8	4-Chloroaniline		292	584	1170	U
111-91-1	Bis(2-chloroethoxy)methane		292	584	1170	U
111-44-4	Bis(2-chloroethyl)ether		292	584	1170	U
108-60-1	2,2'-Oxybis-1-chloropropane		292	584	1170	U
91-58-7	2-Chloronaphthalene		292	584	1170	X, U
95-57-8	2-Chlorophenol		292	584	1170	U
7005-72-3	4-Chlorophenyl phenyl ether		292	584	1170	U
218-01-9	Chrysene		292	584	1170	U
53-70-3	Dibenz(a,h)anthracene		292	584	1170	U
132-64-9	Dibenzofuran		292	584	1170	U
84-74-2	Di-n-butylphthalate		292	584	1170	U
91-94-1	3,3'-Dichlorobenzidine		292	584	1170	X, U
120-83-2	2,4-Dichlorophenol		292	584	1170	U
84-66-2	Diethylphthalate		292	584	1170	U
105-67-9	2,4-Dimethylphenol		1170	2340	4670	U
131-11-3	Dimethyl phthalate		292	584	1170	U
534-52-1	4,6-Dinitro-2-methylphenol		1170	2340	4670	U
51-28-5	2,4-Dinitrophenol		2920	5840	11700	X, U
121-14-2	2,4-Dinitrotoluene		292	584	1170	U
606-20-2	2,6-Dinitrotoluene		292	584	1170	U
117-84-0	Di-n-octylphthalate		292	584	1170	X, U

ANALYSIS DATA SHEET

GW0094

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-01RE1	File ID:	0618801D.D
Sampled:	06/16/11 10:31	Prepared:	06/23/11 12:15	Analyzed:	07/03/11 01:24
Solids:		Preparation:	EXT_3510	Dilution:	250

Batch: 1F22013 Sequence: 1G18605 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		292	584	1170	U
117-81-7	Bis(2-ethylhexyl)phthalate		292	584	1170	U
206-44-0	Fluoranthene		292	584	1170	U
86-73-7	Fluorene		292	584	1170	U
118-74-1	Hexachlorobenzene		292	584	1170	U
87-68-3	Hexachlorobutadiene		292	584	1170	U
77-47-4	Hexachlorocyclopentadiene		292	584	1170	U
67-72-1	Hexachloroethane		292	584	1170	U
193-39-5	Indeno(1,2,3-cd)pyrene		292	584	1170	U
78-59-1	Isophorone		292	584	1170	U
90-12-0	1-Methylnaphthalene		292	584	1170	U
91-57-6	2-Methylnaphthalene		292	584	1170	U
95-48-7	2-Methylphenol		292	584	1170	U
65794-96-9	3-Methylphenol/4-Methylphenol		292	584	1170	U
100-01-6	4-Nitroaniline		1170	2340	4670	U
99-09-2	3-Nitroaniline		1170	2340	4670	U
88-74-4	2-Nitroaniline		1170	2340	4670	U
98-95-3	Nitrobenzene		292	584	1170	U
100-02-7	4-Nitrophenol		1170	2340	4670	X, U
88-75-5	2-Nitrophenol		292	584	1170	U
86-30-6	N-Nitrosodiphenylamine		292	584	1170	Q, U
621-64-7	N-Nitroso-di-n-propylamine		292	584	1170	U
87-86-5	Pentachlorophenol		1170	2340	4670	U
85-01-8	Phenanthrene		292	584	1170	U
108-95-2	Phenol		292	584	1170	U
129-00-0	Pyrene		292	584	1170	U
88-06-2	2,4,6-Trichlorophenol		292	584	1170	U
95-95-4	2,4,5-Trichlorophenol		292	584	1170	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	0.000		50 - 110	DU
2-Fluorophenol	93.46	0.000		20 - 110	DU
Nitrobenzene-d5	46.73	0.000		40 - 110	DU
Phenol-d6	93.46	0.000		10 - 110	DU
Terphenyl-d14	46.73	0.000		50 - 135	DU
2,4,6-Tribromophenol	93.46	0.000		40 - 125	DU

ANALYSIS DATA SHEET

GW0096

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106195-01	File ID:	0619501.D
Sampled:	06/17/11 13:56	Prepared:	06/23/11 12:15	Analyzed:	06/29/11 04:16
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1F22013 Sequence: 1F18005 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
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	3.35	1.20	2.40	4.81	J
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	U
92-87-5	Benzidine		12.0	24.0	48.1	X, 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	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
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	X, 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	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

GW0096

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106195-01	File ID:	0619501.D
Sampled:	06/17/11 13:56	Prepared:	06/23/11 12:15	Analyzed:	06/29/11 04:16
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1F22013 Sequence: 1F18005 Calibration: 1122001 Instrument: MS-BNA3

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	U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	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-Methylphenol/4-Methylphenol		1.20	2.40	4.81	U
100-01-6	4-Nitroaniline		4.81	9.62	19.2	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	X, U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	Q, 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	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	42.73	88.9	50 - 110	
2-Fluorophenol	96.15	25.24	26.2	20 - 110	
Nitrobenzene-d5	48.08	38.78	80.7	40 - 110	
Phenol-d6	96.15	16.10	16.7	10 - 110	
Terphenyl-d14	48.08	32.70	68.0	50 - 135	
2,4,6-Tribromophenol	96.15	77.95	81.1	40 - 125	

ANALYSIS DATA SHEET

GW0095

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106203-01	File ID:	0620301.D
Sampled:	06/20/11 11:22	Prepared:	06/23/11 12:15	Analyzed:	06/29/11 04:50
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1F22013 Sequence: 1F18005 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
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	1.70	1.20	2.40	4.81	J
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	U
92-87-5	Benzidine		12.0	24.0	48.1	X, 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	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
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	X, 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	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

GW0095

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106203-01	File ID:	0620301.D
Sampled:	06/20/11 11:22	Prepared:	06/23/11 12:15	Analyzed:	06/29/11 04:50
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1F22013 Sequence: 1F18005 Calibration: 1122001 Instrument: MS-BNA3

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	2.40	1.20	2.40	4.81	J
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	U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	U
67-72-1	Hexachloroethane		1.20	2.40	4.81	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-Methylphenol/4-Methylphenol		1.20	2.40	4.81	U
100-01-6	4-Nitroaniline		4.81	9.62	19.2	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	X, U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	Q, 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	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	51.27	107	50 - 110	
2-Fluorophenol	96.15	28.59	29.7	20 - 110	
Nitrobenzene-d5	48.08	38.64	80.4	40 - 110	
Phenol-d6	96.15	17.31	18.0	10 - 110	
Terphenyl-d14	48.08	34.56	71.9	50 - 135	
2,4,6-Tribromophenol	96.15	90.39	94.0	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17308	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F17308-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 06/22/11 11:41		
2-Fluorobiphenyl	50.00	103	80 - 120	8.864	8.864	0.0000	+/-0.500	
2-Fluorophenol	100.0	98.2	80 - 120	4.201	4.201	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	102	80 - 120	6.562	6.562	0.0000	+/-0.500	
Phenol-d6	100.0	101	80 - 120	5.397	5.397	0.0000	+/-0.500	
Terphenyl-d14	50.00	103	80 - 120	13.688	13.688	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	117	80 - 120	10.681	10.681	0.0000	+/-0.500	
Blank (1F15936-BLK1) ug/L				Lab File ID: F15936B1.D		Analyzed: 06/22/11 17:03		
2-Fluorobiphenyl	50.00	56.0	50 - 110	8.856	8.864	-0.0080	+/-0.500	
2-Fluorophenol	100.0	20.6	20 - 110	4.187	4.201	-0.0140	+/-0.500	
Nitrobenzene-d5	50.00	55.5	40 - 110	6.548	6.562	-0.0140	+/-0.500	
Phenol-d6	100.0	11.2	10 - 110	5.362	5.397	-0.0350	+/-0.500	
Terphenyl-d14	50.00	78.4	50 - 135	13.68	13.688	-0.0080	+/-0.500	
2,4,6-Tribromophenol	100.0	64.4	40 - 125	10.662	10.681	-0.0190	+/-0.500	
LCS (1F15936-BS1) ug/L				Lab File ID: F15936L1.D		Analyzed: 06/22/11 17:38		
2-Fluorobiphenyl	50.00	85.8	50 - 110	8.862	8.864	-0.0020	+/-0.500	
2-Fluorophenol	100.0	31.9	20 - 110	4.193	4.201	-0.0080	+/-0.500	
Nitrobenzene-d5	50.00	84.7	40 - 110	6.559	6.562	-0.0030	+/-0.500	
Phenol-d6	100.0	17.6	10 - 110	5.374	5.397	-0.0230	+/-0.500	
Terphenyl-d14	50.00	87.3	50 - 135	13.686	13.688	-0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	99.3	40 - 125	10.678	10.681	-0.0030	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17506	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F17506-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 06/23/11 11:35		
2-Fluorobiphenyl	50.00	105	80 - 120	8.857	8.857	0.0000	+/-0.500	
2-Fluorophenol	100.0	94.6	80 - 120	4.188	4.188	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	98.9	80 - 120	6.55	6.55	0.0000	+/-0.500	
Phenol-d6	100.0	93.3	80 - 120	5.38	5.38	0.0000	+/-0.500	
Terphenyl-d14	50.00	105	80 - 120	13.681	13.681	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	108	80 - 120	10.674	10.674	0.0000	+/-0.500	
Matrix Spike (1F15936-MS1) ug/L				Lab File ID: 0615501M.D		Analyzed: 06/23/11 16:58		
2-Fluorobiphenyl	46.30	85.7	50 - 110	8.867	8.857	0.0100	+/-0.500	
2-Fluorophenol	92.59	22.6	20 - 110	4.252	4.188	0.0640	+/-0.500	
Nitrobenzene-d5	46.30	73.0	40 - 110	6.575	6.55	0.0250	+/-0.500	
Phenol-d6	92.59	37.1	10 - 110	5.475	5.38	0.0950	+/-0.500	
Terphenyl-d14	46.30	45.8	50 - 135	13.675	13.681	-0.0060	+/-0.500	*
2,4,6-Tribromophenol	92.59	61.7	40 - 125	10.673	10.674	-0.0010	+/-0.500	
Matrix Spike Dup (1F15936-MSD1) ug/L				Lab File ID: 0615501S.D		Analyzed: 06/23/11 17:34		
2-Fluorobiphenyl	46.30	77.3	50 - 110	8.861	8.857	0.0040	+/-0.500	
2-Fluorophenol	92.59	32.0	20 - 110	4.229	4.188	0.0410	+/-0.500	
Nitrobenzene-d5	46.30	85.5	40 - 110	6.564	6.55	0.0140	+/-0.500	
Phenol-d6	92.59	37.7	10 - 110	5.458	5.38	0.0780	+/-0.500	
Terphenyl-d14	46.30	48.9	50 - 135	13.674	13.681	-0.0070	+/-0.500	*
2,4,6-Tribromophenol	92.59	72.6	40 - 125	10.667	10.674	-0.0070	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17603	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F17603-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 06/24/11 12:37		
2-Fluorobiphenyl	50.00	93.9	80 - 120	8.824	8.824	0.0000	+/-0.500	
2-Fluorophenol	100.0	96.3	80 - 120	4.166	4.166	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	106	80 - 120	6.522	6.522	0.0000	+/-0.500	
Phenol-d6	100.0	97.3	80 - 120	5.357	5.357	0.0000	+/-0.500	
Terphenyl-d14	50.00	97.6	80 - 120	13.643	13.643	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	109	80 - 120	10.64	10.64	0.0000	+/-0.500	
Blank (1F22013-BLK1) ug/L				Lab File ID: F22013B1.D		Analyzed: 06/24/11 13:49		
2-Fluorobiphenyl	50.00	72.0	50 - 110	8.823	8.824	-0.0010	+/-0.500	
2-Fluorophenol	100.0	31.8	20 - 110	4.16	4.166	-0.0060	+/-0.500	
Nitrobenzene-d5	50.00	77.2	40 - 110	6.516	6.522	-0.0060	+/-0.500	
Phenol-d6	100.0	19.9	10 - 110	5.33	5.357	-0.0270	+/-0.500	
Terphenyl-d14	50.00	96.6	50 - 135	13.647	13.643	0.0040	+/-0.500	
2,4,6-Tribromophenol	100.0	92.0	40 - 125	10.634	10.64	-0.0060	+/-0.500	
LCS (1F22013-BS1) ug/L				Lab File ID: F22013L1.D		Analyzed: 06/24/11 15:01		
2-Fluorobiphenyl	50.00	90.2	50 - 110	8.819	8.824	-0.0050	+/-0.500	
2-Fluorophenol	100.0	41.1	20 - 110	4.155	4.166	-0.0110	+/-0.500	
Nitrobenzene-d5	50.00	89.0	40 - 110	6.516	6.522	-0.0060	+/-0.500	
Phenol-d6	100.0	23.6	10 - 110	5.336	5.357	-0.0210	+/-0.500	
Terphenyl-d14	50.00	87.4	50 - 135	13.632	13.643	-0.0110	+/-0.500	
2,4,6-Tribromophenol	100.0	96.7	40 - 125	10.63	10.64	-0.0100	+/-0.500	
LCS Dup (1F22013-BSD1) ug/L				Lab File ID: F22013L2.D		Analyzed: 06/24/11 15:37		
2-Fluorobiphenyl	50.00	87.0	50 - 110	8.827	8.824	0.0030	+/-0.500	
2-Fluorophenol	100.0	38.1	20 - 110	4.163	4.166	-0.0030	+/-0.500	
Nitrobenzene-d5	50.00	83.0	40 - 110	6.524	6.522	0.0020	+/-0.500	
Phenol-d6	100.0	22.4	10 - 110	5.344	5.357	-0.0130	+/-0.500	
Terphenyl-d14	50.00	83.8	50 - 135	13.645	13.643	0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	91.9	40 - 125	10.638	10.64	-0.0020	+/-0.500	
GW0046 (1106155-01) ug/L				Lab File ID: 0615501.D		Analyzed: 06/24/11 17:56		
2-Fluorobiphenyl	46.73	75.5	50 - 110	8.834	8.824	0.0100	+/-0.500	
2-Fluorophenol	93.46	23.9	20 - 110	4.299	4.166	0.1330	+/-0.500	
Nitrobenzene-d5	46.73	60.9	40 - 110	6.548	6.522	0.0260	+/-0.500	
Phenol-d6	93.46	36.2	10 - 110	5.463	5.357	0.1060	+/-0.500	
Terphenyl-d14	46.73	49.0	50 - 135	13.637	13.643	-0.0060	+/-0.500	*
2,4,6-Tribromophenol	93.46	69.7	40 - 125	10.64	10.64	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F18005	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F18005-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 06/28/11 18:36		
2-Fluorobiphenyl	50.00	103	80 - 120	8.777	8.777	0.0000	+/-0.500	
2-Fluorophenol	100.0	94.9	80 - 120	4.103	4.103	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	97.8	80 - 120	6.464	6.464	0.0000	+/-0.500	
Phenol-d6	100.0	99.5	80 - 120	5.294	5.294	0.0000	+/-0.500	
Terphenyl-d14	50.00	103	80 - 120	13.585	13.585	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	103	80 - 120	10.588	10.588	0.0000	+/-0.500	
GW0096 (1106195-01) ug/L				Lab File ID: 0619501.D		Analyzed: 06/29/11 04:16		
2-Fluorobiphenyl	48.08	88.9	50 - 110	8.774	8.777	-0.0030	+/-0.500	
2-Fluorophenol	96.15	26.2	20 - 110	4.111	4.103	0.0080	+/-0.500	
Nitrobenzene-d5	48.08	80.7	40 - 110	6.461	6.464	-0.0030	+/-0.500	
Phenol-d6	96.15	16.7	10 - 110	5.297	5.294	0.0030	+/-0.500	
Terphenyl-d14	48.08	68.0	50 - 135	13.588	13.585	0.0030	+/-0.500	
2,4,6-Tribromophenol	96.15	81.1	40 - 125	10.591	10.588	0.0030	+/-0.500	
GW0095 (1106203-01) ug/L				Lab File ID: 0620301.D		Analyzed: 06/29/11 04:50		
2-Fluorobiphenyl	48.08	107	50 - 110	8.774	8.777	-0.0030	+/-0.500	
2-Fluorophenol	96.15	29.7	20 - 110	4.105	4.103	0.0020	+/-0.500	
Nitrobenzene-d5	48.08	80.4	40 - 110	6.461	6.464	-0.0030	+/-0.500	
Phenol-d6	96.15	18.0	10 - 110	5.302	5.294	0.0080	+/-0.500	
Terphenyl-d14	48.08	71.9	50 - 135	13.587	13.585	0.0020	+/-0.500	
2,4,6-Tribromophenol	96.15	94.0	40 - 125	10.596	10.588	0.0080	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F18113	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F18113-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 06/30/11 14:09		
2-Fluorobiphenyl	50.00	103	80 - 120	8.723	8.723	0.0000	+/-0.500	
2-Fluorophenol	100.0	96.8	80 - 120	4.065	4.065	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	101	80 - 120	6.421	6.421	0.0000	+/-0.500	
Phenol-d6	100.0	99.8	80 - 120	5.262	5.262	0.0000	+/-0.500	
Terphenyl-d14	50.00	104	80 - 120	13.515	13.515	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	112	80 - 120	10.534	10.534	0.0000	+/-0.500	
GW0046 (1106155-01RE1) ug/L				Lab File ID: 0615501D.D		Analyzed: 06/30/11 18:16		
2-Fluorobiphenyl	46.73		50 - 110		8.723	-8.7230	+/-0.500	*
2-Fluorophenol	93.46		20 - 110		4.065	-4.0650	+/-0.500	*
Nitrobenzene-d5	46.73		40 - 110		6.421	-6.4210	+/-0.500	*
Phenol-d6	93.46		10 - 110		5.262	-5.2620	+/-0.500	*
Terphenyl-d14	46.73		50 - 135		13.515	-13.5150	+/-0.500	*
2,4,6-Tribromophenol	93.46		40 - 125		10.534	-10.5340	+/-0.500	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18304	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1G18304-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 07/01/11 22:18		
2-Fluorobiphenyl	50.00	105	80 - 120	8.685	8.685	0.0000	+/-0.500	
2-Fluorophenol	100.0	98.0	80 - 120	4.022	4.022	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	104	80 - 120	6.377	6.377	0.0000	+/-0.500	
Phenol-d6	100.0	103	80 - 120	5.223	5.223	0.0000	+/-0.500	
Terphenyl-d14	50.00	105	80 - 120	13.466	13.466	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	113	80 - 120	10.496	10.496	0.0000	+/-0.500	
GW0094 (1106188-01) ug/L				Lab File ID: 0618801.D		Analyzed: 07/02/11 08:53		
2-Fluorobiphenyl	46.73	54.8	50 - 110	8.696	8.685	0.0110	+/-0.500	
2-Fluorophenol	93.46	28.1	20 - 110	4.155	4.022	0.1330	+/-0.500	
Nitrobenzene-d5	46.73	48.4	40 - 110	6.41	6.377	0.0330	+/-0.500	
Phenol-d6	93.46	289	10 - 110	5.314	5.223	0.0910	+/-0.500	*
Terphenyl-d14	46.73	50.9	50 - 135	13.477	13.466	0.0110	+/-0.500	
2,4,6-Tribromophenol	93.46	66.2	40 - 125	10.539	10.496	0.0430	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18605	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1G18605-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 07/02/11 15:25		
2-Fluorobiphenyl	50.00	103	80 - 120	8.656	8.656	0.0000	+/-0.500	
2-Fluorophenol	100.0	98.5	80 - 120	4.003	4.003	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	104	80 - 120	6.348	6.348	0.0000	+/-0.500	
Phenol-d6	100.0	104	80 - 120	5.199	5.199	0.0000	+/-0.500	
Terphenyl-d14	50.00	103	80 - 120	13.432	13.432	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	114	80 - 120	10.467	10.467	0.0000	+/-0.500	
GW0094 (1106188-01RE1) ug/L				Lab File ID: 0618801D.D		Analyzed: 07/03/11 01:24		
2-Fluorobiphenyl	46.73		50 - 110		8.656	-8.6560	+/-0.500	*
2-Fluorophenol	93.46		20 - 110		4.003	-4.0030	+/-0.500	*
Nitrobenzene-d5	46.73		40 - 110		6.348	-6.3480	+/-0.500	*
Phenol-d6	93.46		10 - 110		5.199	-5.1990	+/-0.500	*
Terphenyl-d14	46.73		50 - 135		13.432	-13.4320	+/-0.500	*
2,4,6-Tribromophenol	93.46		40 - 125		10.467	-10.4670	+/-0.500	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18908	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1G18908-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 07/07/11 13:32		
2-Fluorobiphenyl	50.00	99.3	80 - 120	8.575	8.575	0.0000	+/-0.500	
2-Fluorophenol	100.0	91.9	80 - 120	3.922	3.922	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	89.4	80 - 120	6.267	6.267	0.0000	+/-0.500	
Phenol-d6	100.0	99.1	80 - 120	5.118	5.118	0.0000	+/-0.500	
Terphenyl-d14	50.00	103	80 - 120	13.329	13.329	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	109	80 - 120	10.386	10.386	0.0000	+/-0.500	
GW0082 (1106179-01) ug/L				Lab File ID: 0617901D.D		Analyzed: 07/07/11 22:47		
2-Fluorobiphenyl	47.17	85.1	50 - 110	8.561	8.575	-0.0140	+/-0.500	
2-Fluorophenol	94.34	22.6	20 - 110	3.946	3.922	0.0240	+/-0.500	
Nitrobenzene-d5	47.17	51.0	40 - 110	6.248	6.267	-0.0190	+/-0.500	
Phenol-d6	94.34	26.1	10 - 110	5.153	5.118	0.0350	+/-0.500	
Terphenyl-d14	47.17	62.9	50 - 135	13.305	13.329	-0.0240	+/-0.500	
2,4,6-Tribromophenol	94.34	70.3	40 - 125	10.367	10.386	-0.0190	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G19005	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1G19005-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 07/08/11 18:52		
2-Fluorobiphenyl	50.00	105	80 - 120	8.524	8.524	0.0000	+/-0.500	
2-Fluorophenol	100.0	105	80 - 120	3.855	3.855	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	104	80 - 120	6.211	6.211	0.0000	+/-0.500	
Phenol-d6	100.0	108	80 - 120	5.052	5.052	0.0000	+/-0.500	
Terphenyl-d14	50.00	105	80 - 120	13.263	13.263	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	109	80 - 120	10.325	10.325	0.0000	+/-0.500	
GW0082 (1106179-01RE1) ug/L				Lab File ID: 617901D2.D		Analyzed: 07/08/11 22:56		
2-Fluorobiphenyl	47.17		50 - 110		8.524	-8.5240	+/-0.500	*
2-Fluorophenol	94.34		20 - 110		3.855	-3.8550	+/-0.500	*
Nitrobenzene-d5	47.17		40 - 110		6.211	-6.2110	+/-0.500	*
Phenol-d6	94.34		10 - 110		5.052	-5.0520	+/-0.500	*
Terphenyl-d14	47.17		50 - 135		13.263	-13.2630	+/-0.500	*
2,4,6-Tribromophenol	94.34		40 - 125		10.325	-10.3250	+/-0.500	*

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F15936	Laboratory ID:	1F15936-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	50.00	45.19	90.4	45 - 110
Acenaphthylene	50.00	38.29	76.6	50 - 105
Acetophenone	50.00	41.78	83.6	50 - 110
Anthracene	50.00	44.72	89.4	55 - 110
Atrazine	50.00	45.57	91.1	70 - 115
Benzaldehyde	50.00	39.39	78.8	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	50.41	101	55 - 110
Benzo(a)pyrene	50.00	45.11	90.2	55 - 110
Benzo(b)fluoranthene	50.00	54.90	110	45 - 120
Benzo(g,h,i)perylene	50.00	48.18	96.4	40 - 125
Benzoic acid	50.00	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	50.89	102	45 - 125
1,1-Biphenyl	50.00	43.98	88.0	50 - 110
4-Bromophenyl-phenylether	50.00	51.31	103	50 - 115
Butylbenzylphthalate	50.00	54.99	110	45 - 115
Caprolactam	**50.00**	**5.455**	**10.9**	**20 - 110**
Carbazole	50.00	45.26	90.5	50 - 115
4-Chloro-3-methylphenol	50.00	38.42	76.8	45 - 110
4-Chloroaniline	50.00	36.18	72.4	15 - 110
Bis(2-chloroethoxy)methane	50.00	47.67	95.3	45 - 105
Bis(2-chloroethyl)ether	50.00	43.46	86.9	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	42.88	85.8	25 - 130
2-Chloronaphthalene	50.00	42.71	85.4	50 - 105
2-Chlorophenol	50.00	31.70	63.4	35 - 105
4-Chlorophenyl phenyl ether	50.00	52.02	104	50 - 110
Chrysene	50.00	48.23	96.5	55 - 110
Dibenz(a,h)anthracene	50.00	51.84	104	40 - 125
Dibenzofuran	50.00	47.84	95.7	55 - 105
Di-n-butylphthalate	50.00	50.61	101	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F15936	Laboratory ID:	1F15936-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	48.58	97.2	20 - 110
2,4-Dichlorophenol	50.00	38.79	77.6	40 - 110
Diethylphthalate	50.00	55.19	110	40 - 120
2,4-Dimethylphenol	50.00	37.22	74.4	30 - 110
Dimethyl phthalate	50.00	51.11	102	25 - 125
4,6-Dinitro-2-methylphenol	50.00	52.11	104	40 - 130
2,4-Dinitrophenol	50.00	54.82	110	15 - 140
2,4-Dinitrotoluene	50.00	52.78	106	50 - 120
2,6-Dinitrotoluene	50.00	49.44	98.9	50 - 115
Di-n-octylphthalate	50.00	56.82	114	35 - 135
1,2-Diphenylhydrazine	50.00	42.62	85.2	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	54.68	109	40 - 125
Fluoranthene	50.00	45.62	91.2	55 - 115
Fluorene	50.00	47.71	95.4	50 - 110
Hexachlorobenzene	50.00	48.55	97.1	50 - 110
Hexachlorobutadiene	50.00	23.11	46.2	25 - 105
Hexachlorocyclopentadiene	50.00	13.96	27.9	10 - 110
Hexachloroethane	50.00	17.71	35.4	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	49.36	98.7	45 - 125
Isophorone	50.00	35.14	70.3	50 - 110
1-Methylnaphthalene	50.00	36.96	73.9	30 - 115
2-Methylnaphthalene	50.00	38.02	76.0	45 - 105
2-Methylphenol	50.00	24.97	49.9	40 - 110
3-Methylphenol/4-Methylphenol	50.00	22.47	44.9	30 - 110
4-Nitroaniline	50.00	42.42	84.8	35 - 120
3-Nitroaniline	50.00	38.29	76.6	20 - 125
2-Nitroaniline	50.00	50.61	101	50 - 115
Nitrobenzene	50.00	44.13	88.3	30 - 110
4-Nitrophenol	50.00	9.389	18.8	0 - 125
2-Nitrophenol	50.00	42.74	85.5	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F15936	Laboratory ID:	1F15936-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	25.21	50.4	50 - 110
N-Nitroso-di-n-propylamine	50.00	42.92	85.8	35 - 130
Pentachlorophenol	50.00	49.28	98.6	40 - 115
Phenanthrene	50.00	48.44	96.9	50 - 115
Phenol	50.00	10.99	22.0	0 - 115
Pyrene	50.00	47.56	95.1	50 - 130
2,4,6-Trichlorophenol	50.00	46.92	93.8	50 - 115
2,4,5-Trichlorophenol	50.00	46.59	93.2	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F22013	Laboratory ID:	1F22013-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	50.00	45.67	91.3	45 - 110
Acenaphthylene	50.00	38.92	77.8	50 - 105
Acetophenone	50.00	42.67	85.3	50 - 110
Anthracene	50.00	43.02	86.0	55 - 110
Atrazine	50.00	42.32	84.6	70 - 115
Benzaldehyde	50.00	35.39	70.8	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	48.66	97.3	55 - 110
Benzo(a)pyrene	50.00	42.94	85.9	55 - 110
Benzo(b)fluoranthene	50.00	54.11	108	45 - 120
Benzo(g,h,i)perylene	50.00	48.87	97.7	40 - 125
Benzoic acid	50.00	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	47.63	95.3	45 - 125
1,1-Biphenyl	50.00	45.94	91.9	50 - 110
4-Bromophenyl-phenylether	50.00	48.55	97.1	50 - 115
Butylbenzylphthalate	50.00	51.88	104	45 - 115
Caprolactam	**50.00**	**5.653**	**11.3**	**20 - 110**
Carbazole	50.00	43.38	86.8	50 - 115
4-Chloro-3-methylphenol	50.00	39.97	79.9	45 - 110
4-Chloroaniline	50.00	34.09	68.2	15 - 110
Bis(2-chloroethoxy)methane	50.00	48.38	96.8	45 - 105
Bis(2-chloroethyl)ether	50.00	43.52	87.0	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	41.73	83.5	25 - 130
2-Chloronaphthalene	50.00	46.28	92.6	50 - 105
2-Chlorophenol	50.00	33.86	67.7	35 - 105
4-Chlorophenyl phenyl ether	50.00	52.59	105	50 - 110
Chrysene	50.00	45.36	90.7	55 - 110
Dibenz(a,h)anthracene	50.00	48.32	96.6	40 - 125
Dibenzofuran	50.00	48.38	96.8	55 - 105
Di-n-butylphthalate	50.00	49.71	99.4	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F22013	Laboratory ID:	1F22013-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	47.13	94.3	20 - 110
2,4-Dichlorophenol	50.00	40.25	80.5	40 - 110
Diethylphthalate	50.00	56.13	112	40 - 120
2,4-Dimethylphenol	50.00	40.20	80.4	30 - 110
Dimethyl phthalate	50.00	51.84	104	25 - 125
4,6-Dinitro-2-methylphenol	50.00	51.96	104	40 - 130
2,4-Dinitrophenol	50.00	56.13	112	15 - 140
2,4-Dinitrotoluene	50.00	51.81	104	50 - 120
2,6-Dinitrotoluene	50.00	48.87	97.7	50 - 115
Di-n-octylphthalate	50.00	55.14	110	35 - 135
1,2-Diphenylhydrazine	50.00	45.63	91.3	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	51.03	102	40 - 125
Fluoranthene	50.00	45.27	90.5	55 - 115
Fluorene	50.00	47.62	95.2	50 - 110
Hexachlorobenzene	50.00	45.99	92.0	50 - 110
Hexachlorobutadiene	50.00	36.77	73.5	25 - 105
Hexachlorocyclopentadiene	50.00	18.46	36.9	10 - 110
Hexachloroethane	50.00	28.22	56.4	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	52.66	105	45 - 125
Isophorone	50.00	34.89	69.8	50 - 110
1-Methylnaphthalene	50.00	39.86	79.7	30 - 115
2-Methylnaphthalene	50.00	41.63	83.3	45 - 105
2-Methylphenol	50.00	28.21	56.4	40 - 110
3-Methylphenol/4-Methylphenol	50.00	25.60	51.2	30 - 110
4-Nitroaniline	50.00	43.53	87.1	35 - 120
3-Nitroaniline	50.00	38.88	77.8	20 - 125
2-Nitroaniline	50.00	51.78	104	50 - 115
Nitrobenzene	50.00	45.15	90.3	30 - 110
4-Nitrophenol	50.00	12.37	24.7	0 - 125
2-Nitrophenol	50.00	43.07	86.1	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F22013	Laboratory ID:	1F22013-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**	**23.69**	**47.4**	**50 - 110**
N-Nitroso-di-n-propylamine	50.00	42.79	85.6	35 - 130
Pentachlorophenol	50.00	46.81	93.6	40 - 115
Phenanthrene	50.00	47.06	94.1	50 - 115
Phenol	50.00	13.65	27.3	0 - 115
Pyrene	50.00	45.06	90.1	50 - 130
2,4,6-Trichlorophenol	50.00	47.89	95.8	50 - 115
2,4,5-Trichlorophenol	50.00	48.03	96.1	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	43.86	87.7	4.05	30	45 - 110
Acenaphthylene	50.00	37.42	74.8	3.95	30	50 - 105
Acetophenone	50.00	40.65	81.3	4.86	30	50 - 110
Anthracene	50.00	41.55	83.1	3.47	30	55 - 110
Atrazine	50.00	39.97	79.9	5.71	30	70 - 115
Benzaldehyde	50.00	33.30	66.6	6.09	30	10 - 180
Benzidine	50.00	50.0 U	0		30	0 - 200
Benzo(a)anthracene	50.00	46.86	93.7	3.77	30	55 - 110
Benzo(a)pyrene	50.00	41.61	83.2	3.13	30	55 - 110
Benzo(b)fluoranthene	50.00	52.46	105	3.11	30	45 - 120
Benzo(g,h,i)perylene	50.00	43.24	86.5	12.2	30	40 - 125
Benzoic acid	50.00	50.0 U	0		30	0 - 125
Benzo(k)fluoranthene	50.00	46.38	92.8	2.66	30	45 - 125
1,1-Biphenyl	50.00	42.98	86.0	6.65	30	50 - 110
4-Bromophenyl-phenylether	50.00	47.57	95.1	2.06	30	50 - 115
Butylbenzylphthalate	50.00	50.66	101	2.38	30	45 - 115
Caprolactam	**50.00**	**5.960**	**11.9 ***	**5.29**	**30**	**20 - 110**
Carbazole	50.00	41.17	82.3	5.22	30	50 - 115
4-Chloro-3-methylphenol	50.00	37.36	74.7	6.75	30	45 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F22013	Laboratory ID:	1F22013-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-Chloroaniline	50.00	34.13	68.3	0.116	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	46.25	92.5	4.51	30	45 - 105
Bis(2-chloroethyl)ether	50.00	43.91	87.8	0.901	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	40.62	81.2	2.69	30	25 - 130
2-Chloronaphthalene	50.00	44.59	89.2	3.70	30	50 - 105
2-Chlorophenol	50.00	33.77	67.5	0.276	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	50.55	101	3.96	30	50 - 110
Chrysene	50.00	43.36	86.7	4.52	30	55 - 110
Dibenz(a,h)anthracene	50.00	45.65	91.3	5.67	30	40 - 125
Dibenzofuran	50.00	46.29	92.6	4.41	30	55 - 105
Di-n-butylphthalate	50.00	46.30	92.6	7.09	30	55 - 115
3,3'-Dichlorobenzidine	50.00	44.67	89.3	5.35	30	20 - 110
2,4-Dichlorophenol	50.00	38.12	76.2	5.43	30	40 - 110
Diethylphthalate	50.00	52.37	105	6.93	30	40 - 120
2,4-Dimethylphenol	50.00	37.73	75.5	6.35	30	30 - 110
Dimethyl phthalate	50.00	49.11	98.2	5.41	30	25 - 125
4,6-Dinitro-2-methylphenol	50.00	49.15	98.3	5.57	30	40 - 130
2,4-Dinitrophenol	50.00	53.96	108	3.95	30	15 - 140
2,4-Dinitrotoluene	50.00	48.87	97.7	5.84	30	50 - 120
2,6-Dinitrotoluene	50.00	46.84	93.7	4.24	30	50 - 115
Di-n-octylphthalate	50.00	56.19	112	1.89	30	35 - 135
1,2-Diphenylhydrazine	50.00	43.49	87.0	4.79	30	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	48.60	97.2	4.87	30	40 - 125
Fluoranthene	50.00	42.77	85.5	5.69	30	55 - 115
Fluorene	50.00	45.39	90.8	4.80	30	50 - 110
Hexachlorobenzene	50.00	44.40	88.8	3.51	30	50 - 110
Hexachlorobutadiene	50.00	35.54	71.1	3.39	30	25 - 105
Hexachlorocyclopentadiene	50.00	17.95	35.9	2.79	30	10 - 110
Hexachloroethane	50.00	27.95	55.9	0.958	30	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	44.97	89.9	15.8	30	45 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F22013	Laboratory ID:	1F22013-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	33.13	66.3	5.16	30	50 - 110
1-Methylnaphthalene	50.00	39.05	78.1	2.06	30	30 - 115
2-Methylnaphthalene	50.00	40.70	81.4	2.28	30	45 - 105
2-Methylphenol	50.00	27.39	54.8	2.93	30	40 - 110
3-Methylphenol/4-Methylphenol	50.00	25.17	50.3	1.69	30	30 - 110
4-Nitroaniline	50.00	40.64	81.3	6.85	30	35 - 120
3-Nitroaniline	50.00	37.64	75.3	3.23	30	20 - 125
2-Nitroaniline	50.00	47.99	96.0	7.61	30	50 - 115
Nitrobenzene	50.00	42.91	85.8	5.09	30	30 - 110
4-Nitrophenol	50.00	11.07	22.1	11.0	30	0 - 125
2-Nitrophenol	50.00	41.59	83.2	3.48	30	40 - 115
N-Nitrosodiphenylamine	**50.00**	**23.28**	**46.6 ***	**1.78**	**30**	**50 - 110**
N-Nitroso-di-n-propylamine	50.00	41.14	82.3	3.91	30	35 - 130
Pentachlorophenol	50.00	44.98	90.0	4.00	30	40 - 115
Phenanthrene	50.00	44.86	89.7	4.79	30	50 - 115
Phenol	50.00	13.46	26.9	1.34	30	0 - 115
Pyrene	50.00	43.76	87.5	2.92	30	50 - 130
2,4,6-Trichlorophenol	50.00	45.75	91.5	4.58	30	50 - 115
2,4,5-Trichlorophenol	50.00	45.14	90.3	6.20	30	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F15936

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	46.30	ND	35.82	77.4		45 - 110
Acenaphthylene	46.30	ND	29.97	64.7		50 - 105
Acetophenone	46.30	1769	1905	293	*	50 - 110
Anthracene	46.30	ND	36.96	79.8		55 - 110
Atrazine	46.30	ND	29.78	64.3	*	70 - 115
Benzaldehyde	46.30	ND	38.42	83.0		10 - 180
Benzidine	46.30	ND	92.6 U	0		0 - 200
Benzo(a)anthracene	46.30	ND	40.11	86.6		55 - 110
Benzo(a)pyrene	46.30	ND	34.87	75.3		55 - 110
Benzo(b)fluoranthene	46.30	ND	39.22	84.7		45 - 120
Benzo(g,h,i)perylene	46.30	ND	28.86	62.3		40 - 125
Benzoic acid	46.30	ND	232.3	502	*	0 - 125
Benzo(k)fluoranthene	46.30	ND	40.56	87.6		45 - 125
1,1-Biphenyl	46.30	9.766	57.88	104		50 - 110
4-Bromophenyl-phenylether	46.30	ND	37.94	81.9		50 - 115
Butylbenzylphthalate	46.30	ND	44.75	96.7		45 - 115
Caprolactam	46.30	ND	96.61	209	*	20 - 110
Carbazole	46.30	ND	42.37	91.5		50 - 115
4-Chloro-3-methylphenol	46.30	ND	29.93	64.7		45 - 110
4-Chloroaniline	46.30	ND	12.56	27.1		15 - 110
Bis(2-chloroethoxy)methane	46.30	ND	32.06	69.3		45 - 105
Bis(2-chloroethyl)ether	46.30	ND	33.78	73.0		35 - 110
2,2'-Oxybis-1-chloropropane	46.30	ND	30.00	64.8		25 - 130
2-Chloronaphthalene	46.30	ND	45.98	99.3		50 - 105
2-Chlorophenol	46.30	ND	21.08	45.5		35 - 105
4-Chlorophenyl phenyl ether	46.30	ND	42.93	92.7		50 - 110
Chrysene	46.30	ND	39.22	84.7		55 - 110
Dibenz(a,h)anthracene	46.30	ND	27.42	59.2		40 - 125
Dibenzofuran	46.30	ND	41.20	89.0		55 - 105
Di-n-butylphthalate	46.30	ND	49.00	106		55 - 115
3,3'-Dichlorobenzidine	46.30	ND	6.687	14.4	*	20 - 110
2,4-Dichlorophenol	46.30	ND	28.13	60.8		40 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F15936

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Diethylphthalate	46.30	ND	48.14	104		40 - 120
2,4-Dimethylphenol	46.30	ND	29.10	62.9		30 - 110
Dimethyl phthalate	46.30	ND	40.76	88.1		25 - 125
4,6-Dinitro-2-methylphenol	46.30	ND	30.75	66.4		40 - 130
2,4-Dinitrophenol	46.30	ND	35.59	76.9		15 - 140
2,4-Dinitrotoluene	46.30	ND	42.12	91.0		50 - 120
2,6-Dinitrotoluene	46.30	ND	36.25	78.3		50 - 115
Di-n-octylphthalate	46.30	ND	42.30	91.4		35 - 135
1,2-Diphenylhydrazine	46.30	4.115	38.49	74.3		55 - 115
Bis(2-ethylhexyl)phthalate	46.30	ND	50.02	108		40 - 125
Fluoranthene	46.30	ND	41.26	89.1		55 - 115
Fluorene	46.30	ND	37.35	80.7		50 - 110
Hexachlorobenzene	46.30	ND	35.07	75.8		50 - 110
Hexachlorobutadiene	46.30	ND	31.62	68.3		25 - 105
Hexachlorocyclopentadiene	46.30	ND	15.31	33.1		10 - 110
Hexachloroethane	46.30	ND	27.43	59.3		30 - 95
Indeno(1,2,3-cd)pyrene	46.30	ND	27.01	58.3		45 - 125
Isophorone	46.30	ND	22.36	48.3	*	50 - 110
1-Methylnaphthalene	46.30	17.31	57.53	86.9		30 - 115
2-Methylnaphthalene	46.30	17.77	56.52	83.7		45 - 105
2-Methylphenol	46.30	6.681	27.00	43.9		40 - 110
4-Nitroaniline	46.30	ND	22.14	47.8		35 - 120
3-Nitroaniline	46.30	ND	19.64	42.4		20 - 125
2-Nitroaniline	46.30	ND	53.05	115		50 - 115
Nitrobenzene	46.30	ND	92.76	200	*	30 - 110
4-Nitrophenol	46.30	ND	12.52	27.0		0 - 125
2-Nitrophenol	46.30	ND	26.82	57.9		40 - 115
N-Nitrosodiphenylamine	46.30	ND	18.45	39.8	*	50 - 110
N-Nitroso-di-n-propylamine	46.30	ND	33.96	73.4		35 - 130
Pentachlorophenol	46.30	ND	36.10	78.0		40 - 115
Phenanthrene	46.30	ND	39.39	85.1		50 - 115
Phenol	46.30	ND	9.26 U	0		0 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F15936

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Pyrene	46.30	ND	44.84	96.9		50 - 130
2,4,6-Trichlorophenol	46.30	ND	41.19	89.0		50 - 115
2,4,5-Trichlorophenol	46.30	ND	41.34	89.3		50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F15936

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	46.30	41.42	89.5	14.5		30	45 - 110
Acenaphthylene	46.30	33.96	73.4	12.5		30	50 - 105
Acetophenone	46.30	2157	838	12.4	*	30	50 - 110
Anthracene	46.30	38.65	83.5	4.46		30	55 - 110
Atrazine	46.30	37.13	80.2	22.0		30	70 - 115
Benzaldehyde	46.30	11.53	24.9	108	*	30	10 - 180
Benzidine	46.30	92.6 U	0			30	0 - 200
Benzo(a)anthracene	46.30	42.88	92.6	6.67		30	55 - 110
Benzo(a)pyrene	46.30	37.86	81.8	8.23		30	55 - 110
Benzo(b)fluoranthene	46.30	45.20	97.6	14.2		30	45 - 120
Benzo(g,h,i)perylene	46.30	41.43	89.5	35.8	*	30	40 - 125
Benzoic acid	46.30	278.6	602	18.1	*	30	0 - 125
Benzo(k)fluoranthene	46.30	43.63	94.2	7.28		30	45 - 125
1,1-Biphenyl	46.30	44.56	75.2	26.0		30	50 - 110
4-Bromophenyl-phenylether	46.30	46.66	101	20.6		30	50 - 115
Butylbenzylphthalate	46.30	49.94	108	11.0		30	45 - 115
Caprolactam	46.30	28.57	61.7	109	*	30	20 - 110
Carbazole	46.30	43.82	94.6	3.36		30	50 - 115
4-Chloro-3-methylphenol	46.30	32.55	70.3	8.39		30	45 - 110
4-Chloroaniline	46.30	16.01	34.6	24.1		30	15 - 110
Bis(2-chloroethoxy)methane	46.30	88.80	192	93.9	* *	30	45 - 105
Bis(2-chloroethyl)ether	46.30	33.78	73.0	0.00714		30	35 - 110
2,2'-Oxybis-1-chloropropane	46.30	35.44	76.6	16.6		30	25 - 130
2-Chloronaphthalene	46.30	40.26	87.0	13.3		30	50 - 105
2-Chlorophenol	46.30	25.27	54.6	18.1		30	35 - 105
4-Chlorophenyl phenyl ether	46.30	46.70	101	8.40		30	50 - 110
Chrysene	46.30	42.24	91.2	7.41		30	55 - 110
Dibenz(a,h)anthracene	46.30	38.90	84.0	34.6	*	30	40 - 125
Dibenzofuran	46.30	44.85	96.9	8.49		30	55 - 105
Di-n-butylphthalate	46.30	52.50	113	6.90		30	55 - 115
3,3'-Dichlorobenzidine	46.30	10.54	22.8	44.7	*	30	20 - 110
2,4-Dichlorophenol	46.30	31.23	67.5	10.4		30	40 - 110
Diethylphthalate	46.30	52.04	112	7.79		30	40 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F15936

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2,4-Dimethylphenol	46.30	26.99	58.3	7.52		30	30 - 110
Dimethyl phthalate	46.30	44.34	95.8	8.40		30	25 - 125
4,6-Dinitro-2-methylphenol	46.30	36.63	79.1	17.5		30	40 - 130
2,4-Dinitrophenol	46.30	36.39	78.6	2.24		30	15 - 140
2,4-Dinitrotoluene	46.30	43.72	94.4	3.73		30	50 - 120
2,6-Dinitrotoluene	46.30	40.91	88.4	12.1		30	50 - 115
Di-n-octylphthalate	46.30	52.32	113	21.2		30	35 - 135
1,2-Diphenylhydrazine	46.30	42.65	83.2	10.2		30	55 - 115
Bis(2-ethylhexyl)phthalate	46.30	51.34	111	2.60		30	40 - 125
Fluoranthene	46.30	41.90	90.5	1.53		30	55 - 115
Fluorene	46.30	42.22	91.2	12.2		30	50 - 110
Hexachlorobenzene	46.30	45.66	98.6	26.2		30	50 - 110
Hexachlorobutadiene	46.30	33.08	71.4	4.51		30	25 - 105
Hexachlorocyclopentadiene	46.30	15.25	32.9	0.412		30	10 - 110
Hexachloroethane	46.30	28.22	61.0	2.84		30	30 - 95
Indeno(1,2,3-cd)pyrene	46.30	38.30	82.7	34.6	*	30	45 - 125
Isophorone	46.30	28.65	61.9	24.7		30	50 - 110
1-Methylnaphthalene	46.30	51.18	73.2	11.7		30	30 - 115
2-Methylnaphthalene	46.30	48.49	66.4	15.3		30	45 - 105
2-Methylphenol	46.30	29.31	48.9	8.20		30	40 - 110
4-Nitroaniline	46.30	25.10	54.2	12.5		30	35 - 120
3-Nitroaniline	46.30	21.05	45.5	6.95		30	20 - 125
2-Nitroaniline	46.30	48.48	105	8.99		30	50 - 115
Nitrobenzene	46.30	34.50	74.5	91.6	*	30	30 - 110
4-Nitrophenol	46.30	13.46	29.1	7.23		30	0 - 125
2-Nitrophenol	46.30	33.16	71.6	21.1		30	40 - 115
N-Nitrosodiphenylamine	46.30	21.14	45.7	13.6	*	30	50 - 110
N-Nitroso-di-n-propylamine	46.30	42.98	92.8	23.5		30	35 - 130
Pentachlorophenol	46.30	46.63	101	25.5		30	40 - 115
Phenanthrene	46.30	41.60	89.9	5.48		30	50 - 115
Phenol	46.30	13.05	28.2			30	0 - 115
Pyrene	46.30	50.64	109	12.2		30	50 - 130
2,4,6-Trichlorophenol	46.30	38.55	83.3	6.63		30	50 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F15936

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2,4,5-Trichlorophenol	46.30	35.44	76.5	15.4		30	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F15936 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0046	1106155-01	06/17/11 11:40	1,070.00	1.00
GW0046	1106155-01RE1	06/17/11 11:40	1,070.00	1.00
GW0082	1106179-01	06/17/11 11:40	1,060.00	1.00
GW0082	1106179-01RE1	06/17/11 11:40	1,060.00	1.00
Blank	1F15936-BLK1	06/17/11 11:40	1,000.00	1.00
LCS	1F15936-BS1	06/17/11 11:40	1,000.00	1.00
GW0046	1F15936-MS1	06/17/11 11:40	1,080.00	1.00
GW0046	1F15936-MSD1	06/17/11 11:40	1,080.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F22013 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0094	1106188-01	06/23/11 12:15	1,070.00	1.00
GW0094	1106188-01RE1	06/23/11 12:15	1,070.00	1.00
GW0096	1106195-01	06/23/11 12:15	1,040.00	1.00
GW0095	1106203-01	06/23/11 12:15	1,040.00	1.00
Blank	1F22013-BLK1	06/23/11 12:15	1,000.00	1.00
LCS	1F22013-BS1	06/23/11 12:15	1,000.00	1.00
LCS Dup	1F22013-BSD1	06/23/11 12:15	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/29/11
Instrument ID:	MS-BNA3	Injection Time:	17:21
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	47.3	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	52.7	PASS
70	Less than 2% of 69	0.492	PASS
127	40 - 60% of 198	54.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.87	PASS
275	10 - 30% of 198	22	PASS
365	1 - 200% of 198	2.1	PASS
441	0.001 - 100% of 443	77.8	PASS
442	40 - 200% of 198	47.4	PASS
443	17 - 23% of 442	19.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	04/30/11
Instrument ID:	MS-BNA3	Injection Time:	14:42
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.2	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	55.8	PASS
70	Less than 2% of 69	0.42	PASS
127	40 - 60% of 198	56.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.25	PASS
275	10 - 30% of 198	22.9	PASS
365	1 - 200% of 198	2.34	PASS
441	0.001 - 100% of 443	74.4	PASS
442	40 - 200% of 198	46.4	PASS
443	17 - 23% of 442	20.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	05/02/11
Instrument ID:	MS-BNA3	Injection Time:	13:51
Sequence:	1E12203	Lab Sample ID:	1E12203-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	58.2	PASS
70	Less than 2% of 69	0.51	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.39	PASS
275	10 - 30% of 198	21.4	PASS
365	1 - 200% of 198	2.24	PASS
441	0.001 - 100% of 443	72.1	PASS
442	40 - 200% of 198	46.9	PASS
443	17 - 23% of 442	21.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	06/22/11
Instrument ID:	MS-BNA3	Injection Time:	11:15
Sequence:	1F17308	Lab Sample ID:	1F17308-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	53.9	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	59.1	PASS
70	Less than 2% of 69	0.476	PASS
127	40 - 60% of 198	57.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.86	PASS
275	10 - 30% of 198	22.8	PASS
365	1 - 200% of 198	2.6	PASS
441	0.001 - 100% of 443	81.1	PASS
442	40 - 200% of 198	51.7	PASS
443	17 - 23% of 442	18	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	06/23/11
Instrument ID:	MS-BNA3	Injection Time:	11:08
Sequence:	1F17506	Lab Sample ID:	1F17506-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	49.7	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	54.2	PASS
70	Less than 2% of 69	0.631	PASS
127	40 - 60% of 198	53.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.26	PASS
275	10 - 30% of 198	21.9	PASS
365	1 - 200% of 198	2.19	PASS
441	0.001 - 100% of 443	75.9	PASS
442	40 - 200% of 198	49.1	PASS
443	17 - 23% of 442	19.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	06/24/11
Instrument ID:	MS-BNA3	Injection Time:	12:10
Sequence:	1F17603	Lab Sample ID:	1F17603-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	53.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	56.7	PASS
70	Less than 2% of 69	0.378	PASS
127	40 - 60% of 198	54.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.43	PASS
275	10 - 30% of 198	23.3	PASS
365	1 - 200% of 198	2.55	PASS
441	0.001 - 100% of 443	71	PASS
442	40 - 200% of 198	54.5	PASS
443	17 - 23% of 442	20.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	06/28/11
Instrument ID:	MS-BNA3	Injection Time:	18:10
Sequence:	1F18005	Lab Sample ID:	1F18005-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	58.2	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	63.5	PASS
70	Less than 2% of 69	0.585	PASS
127	40 - 60% of 198	60	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.78	PASS
275	10 - 30% of 198	25.9	PASS
365	1 - 200% of 198	3.19	PASS
441	0.001 - 100% of 443	74.2	PASS
442	40 - 200% of 198	53.8	PASS
443	17 - 23% of 442	21.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	06/30/11
Instrument ID:	MS-BNA3	Injection Time:	13:42
Sequence:	1F18113	Lab Sample ID:	1F18113-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	51.7	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	56.6	PASS
70	Less than 2% of 69	0.415	PASS
127	40 - 60% of 198	55.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.86	PASS
275	10 - 30% of 198	26.4	PASS
365	1 - 200% of 198	3.32	PASS
441	0.001 - 100% of 443	76.4	PASS
442	40 - 200% of 198	67.4	PASS
443	17 - 23% of 442	20.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	07/01/11
Instrument ID:	MS-BNA3	Injection Time:	21:44
Sequence:	1G18304	Lab Sample ID:	1G18304-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	59.6	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	64.4	PASS
70	Less than 2% of 69	0.353	PASS
127	40 - 60% of 198	59.6	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.07	PASS
275	10 - 30% of 198	24.4	PASS
365	1 - 200% of 198	3.09	PASS
441	0.001 - 100% of 443	84.2	PASS
442	40 - 200% of 198	52.3	PASS
443	17 - 23% of 442	19.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	07/02/11
Instrument ID:	MS-BNA3	Injection Time:	14:59
Sequence:	1G18605	Lab Sample ID:	1G18605-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	47.4	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	52.2	PASS
70	Less than 2% of 69	0.382	PASS
127	40 - 60% of 198	52	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.19	PASS
275	10 - 30% of 198	26.9	PASS
365	1 - 200% of 198	3.55	PASS
441	0.001 - 100% of 443	73.7	PASS
442	40 - 200% of 198	75.9	PASS
443	17 - 23% of 442	19.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	07/07/11
Instrument ID:	MS-BNA3	Injection Time:	12:58
Sequence:	1G18908	Lab Sample ID:	1G18908-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	49.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	53.3	PASS
70	Less than 2% of 69	0.435	PASS
127	40 - 60% of 198	52.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.49	PASS
275	10 - 30% of 198	21.8	PASS
365	1 - 200% of 198	2.26	PASS
441	0.001 - 100% of 443	80.6	PASS
442	40 - 200% of 198	50.2	PASS
443	17 - 23% of 442	20.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	07/08/11
Instrument ID:	MS-BNA3	Injection Time:	18:25
Sequence:	1G19005	Lab Sample ID:	1G19005-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	50.3	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	56.2	PASS
70	Less than 2% of 69	0.36	PASS
127	40 - 60% of 198	54.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.96	PASS
275	10 - 30% of 198	25.1	PASS
365	1 - 200% of 198	2.83	PASS
441	0.001 - 100% of 443	73.9	PASS
442	40 - 200% of 198	63.6	PASS
443	17 - 23% of 442	19.8	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12203	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1E12203-TUN1	SEQ-TUN1.D	04/29/11 17:21
Cal Standard	1E12203-CAL1	SEQ-CAL1.D	04/29/11 17:45
Cal Standard	1E12203-CAL2	SEQ-CAL2.D	04/29/11 18:19
Cal Standard	1E12203-CAL3	SEQ-CAL3.D	04/29/11 18:52
Cal Standard	1E12203-CAL4	SEQ-CAL4.D	04/29/11 19:25
Cal Standard	1E12203-CAL5	SEQ-CAL5.D	04/29/11 19:58
Cal Standard	1E12203-CAL6	SEQ-CAL6.D	04/29/11 20:31
Cal Standard	1E12203-CAL7	SEQ-CAL7.D	04/29/11 21:04
Cal Standard	1E12203-CAL8	SEQ-CAL8.D	04/29/11 21:37
Cal Standard	1E12203-CAL9	SEQ-CAL9.D	04/29/11 22:09
Cal Standard	1E12203-CALA	SEQ-CALA.D	04/29/11 22:42
Cal Standard	1E12203-CALB	SEQ-CALB.D	04/29/11 23:15
Cal Standard	1E12203-CALC	SEQ-CALC.D	04/29/11 23:47
Cal Standard	1E12203-CALD	SEQ-CALD.D	04/30/11 00:20
Cal Standard	1E12203-CALE	SEQ-CALE.D	04/30/11 00:53
Cal Standard	1E12203-CALF	SEQ-CALF.D	04/30/11 01:25
Cal Standard	1E12203-CALG	SEQ-CALG.D	04/30/11 01:58
MS Tune	1E12203-TUN2	SEQ-TUN1.D	04/30/11 14:42
Initial Cal Check	1E12203-ICV1	SEQ-ICV1.D	04/30/11 15:07
Initial Cal Check	1E12203-ICV2	SEQ-ICV2.D	04/30/11 15:40
Initial Cal Check	1E12203-ICV3	SEQ-ICV5.D	04/30/11 17:19
MS Tune	1E12203-TUN3	SEQ-TUN1.D	05/02/11 13:51
Initial Cal Check	1E12203-ICV4	SEQ-ICV4.D	05/02/11 14:16

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17308	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1F17308-TUN1	SEQ-TUN1.D	06/22/11 11:15
Calibration Check	1F17308-CCV1	SEQ-CCV1.D	06/22/11 11:41
Blank	1F15936-BLK1	F15936B1.D	06/22/11 17:03
LCS	1F15936-BS1	F15936L1.D	06/22/11 17:38

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17506	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1F17506-TUN1	SEQ-TUN1.D	06/23/11 11:08
Calibration Check	1F17506-CCV1	SEQ-CCV1.D	06/23/11 11:35
GW0046	1F15936-MS1	0615501M.D	06/23/11 16:58
GW0046	1F15936-MSD1	0615501S.D	06/23/11 17:34

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17603	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1F17603-TUN1	SEQ-TUN1.D	06/24/11 12:10
Calibration Check	1F17603-CCV1	SEQ-CCV1.D	06/24/11 12:37
Blank	1F22013-BLK1	F22013B1.D	06/24/11 13:49
LCS	1F22013-BS1	F22013L1.D	06/24/11 15:01
LCS Dup	1F22013-BSD1	F22013L2.D	06/24/11 15:37
GW0046	1106155-01	0615501.D	06/24/11 17:56

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F18005	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1F18005-TUN1	SEQ-TUN1.D	06/28/11 18:10
Calibration Check	1F18005-CCV1	SEQ-CCV1.D	06/28/11 18:36
Calibration Check	1F18005-CCV2	SEQ-CCV2.D	06/28/11 19:11
GW0096	1106195-01	0619501.D	06/29/11 04:16
GW0095	1106203-01	0620301.D	06/29/11 04:50

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F18113	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1F18113-TUN1	SEQ-TUN1.D	06/30/11 13:42
Calibration Check	1F18113-CCV1	SEQ-CCV1.D	06/30/11 14:09
Calibration Check	1F18113-CCV2	SEQ-CCV2.D	06/30/11 14:44
GW0046	1106155-01RE1	0615501D.D	06/30/11 18:16

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18304	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1G18304-TUN1	SEQ-TUN1.D	07/01/11 21:44
Calibration Check	1G18304-CCV1	SEQ-CCV1.D	07/01/11 22:18
Calibration Check	1G18304-CCV2	SEQ-CCV2.D	07/01/11 23:02
GW0094	1106188-01	0618801.D	07/02/11 08:53

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18605	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1G18605-TUN1	SEQ-TUN1.D	07/02/11 14:59
Calibration Check	1G18605-CCV1	SEQ-CCV1.D	07/02/11 15:25
Calibration Check	1G18605-CCV2	SEQ-CCV2.D	07/02/11 16:08
GW0094	1106188-01RE1	0618801D.D	07/03/11 01:24

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18908	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1G18908-TUN1	SEQ-TUN1.D	07/07/11 12:58
Calibration Check	1G18908-CCV1	SEQ-CCV1.D	07/07/11 13:32
Calibration Check	1G18908-CCV2	SEQ-CCV2.D	07/07/11 14:08
GW0082	1106179-01	0617901D.D	07/07/11 22:47

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G19005	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1G19005-TUN1	SEQ-TUN1.D	07/08/11 18:25
Calibration Check	1G19005-CCV1	SEQ-CCV1.D	07/08/11 18:52
GW0082	1106179-01RE1	617901D2.D	07/08/11 22:56

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17308	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1F17308-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 06/22/11 11:41			
1,4-Dichlorobenzene-d4	742889	5.83	473419	6.389	157	50 - 200	-0.5590	+/-0.50	
Naphthalene-d8	2584890	7.481	1697246	8.029	152	50 - 200	-0.5480	+/-0.50	
Acenaphthene-d10	1463496	9.698	970176	10.251	151	50 - 200	-0.5530	+/-0.50	
Phenanthrene-d10	2584296	11.535	1609148	12.094	161	50 - 200	-0.5590	+/-0.50	
Chrysene-d12	2776630	15.472	1722869	16.261	161	50 - 200	-0.7890	+/-0.50	
Perylene-d12	2420728	18.138	1702026	19.012	142	50 - 200	-0.8740	+/-0.50	
Blank (1F15936-BLK1)			Lab File ID: F15936B1.D			Analyzed: 06/22/11 17:03			
1,4-Dichlorobenzene-d4	641170	5.827	742889	5.83	86	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	2342310	7.472	2584890	7.481	91	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	1350106	9.684	1463496	9.698	92	50 - 200	-0.0140	+/-0.50	
Phenanthrene-d10	2375059	11.522	2584296	11.535	92	50 - 200	-0.0130	+/-0.50	
Chrysene-d12	2185560	15.443	2776630	15.472	79	50 - 200	-0.0290	+/-0.50	
Perylene-d12	2075755	18.125	2420728	18.138	86	50 - 200	-0.0130	+/-0.50	
LCS (1F15936-BS1)			Lab File ID: F15936L1.D			Analyzed: 06/22/11 17:38			
1,4-Dichlorobenzene-d4	641908	5.828	742889	5.83	86	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	2312118	7.478	2584890	7.481	89	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	1351691	9.69	1463496	9.698	92	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	2459534	11.528	2584296	11.535	95	50 - 200	-0.0070	+/-0.50	
Chrysene-d12	2576551	15.465	2776630	15.472	93	50 - 200	-0.0070	+/-0.50	
Perylene-d12	2322328	18.136	2420728	18.138	96	50 - 200	-0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17506	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1F17506-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 06/23/11 11:35			
1,4-Dichlorobenzene-d4	473880	5.823	473419	6.389	100	50 - 200	-0.5660	+/-0.50	
Naphthalene-d8	1441003	7.468	1697246	8.029	85	50 - 200	-0.5610	+/-0.50	
Acenaphthene-d10	796608	9.691	970176	10.251	82	50 - 200	-0.5600	+/-0.50	
Phenanthrene-d10	1485255	11.523	1609148	12.094	92	50 - 200	-0.5710	+/-0.50	
Chrysene-d12	1513106	15.455	1722869	16.261	88	50 - 200	-0.8060	+/-0.50	
Perylene-d12	1357473	18.121	1702026	19.012	80	50 - 200	-0.8910	+/-0.50	
Matrix Spike (1F15936-MS1)			Lab File ID: 0615501M.D			Analyzed: 06/23/11 16:58			
1,4-Dichlorobenzene-d4	440846	5.833	473880	5.823	93	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1676608	7.489	1441003	7.468	116	50 - 200	0.0210	+/-0.50	
Acenaphthene-d10	736974	9.695	796608	9.691	93	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	1473840	11.522	1485255	11.523	99	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1552204	15.449	1513106	15.455	103	50 - 200	-0.0060	+/-0.50	
Perylene-d12	1742285	18.12	1357473	18.121	128	50 - 200	-0.0010	+/-0.50	
Matrix Spike Dup (1F15936-MSD1)			Lab File ID: 0615501S.D			Analyzed: 06/23/11 17:34			
1,4-Dichlorobenzene-d4	299557	5.827	473880	5.823	63	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	1096219	7.483	1441003	7.468	76	50 - 200	0.0150	+/-0.50	
Acenaphthene-d10	526726	9.689	796608	9.691	66	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1018304	11.521	1485255	11.523	69	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1033947	15.443	1513106	15.455	68	50 - 200	-0.0120	+/-0.50	
Perylene-d12	976860	18.108	1357473	18.121	72	50 - 200	-0.0130	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17603	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1F17603-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 06/24/11 12:37			
1,4-Dichlorobenzene-d4	835682	5.79	473419	6.389	177	50 - 200	-0.5990	+/-0.50	
Naphthalene-d8	2626031	7.435	1697246	8.029	155	50 - 200	-0.5940	+/-0.50	
Acenaphthene-d10	1677845	9.657	970176	10.251	173	50 - 200	-0.5940	+/-0.50	
Phenanthrene-d10	2848390	11.49	1609148	12.094	177	50 - 200	-0.6040	+/-0.50	
Chrysene-d12	3053000	15.411	1722869	16.261	177	50 - 200	-0.8500	+/-0.50	
Perylene-d12	2268093	18.071	1702026	19.012	133	50 - 200	-0.9410	+/-0.50	
Blank (1F22013-BLK1)			Lab File ID: F22013B1.D			Analyzed: 06/24/11 13:49			
1,4-Dichlorobenzene-d4	706539	5.794	835682	5.79	85	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2591236	7.434	2626031	7.435	99	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1372298	9.651	1677845	9.657	82	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	2494892	11.489	2848390	11.49	88	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	2776758	15.4	3053000	15.411	91	50 - 200	-0.0110	+/-0.50	
Perylene-d12	2831083	18.076	2268093	18.071	125	50 - 200	0.0050	+/-0.50	
LCS (1F22013-BS1)			Lab File ID: F22013L1.D			Analyzed: 06/24/11 15:01			
1,4-Dichlorobenzene-d4	714622	5.784	835682	5.79	86	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	2490329	7.43	2626031	7.435	95	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1441484	9.652	1677845	9.657	86	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	2646368	11.484	2848390	11.49	93	50 - 200	-0.0060	+/-0.50	
Chrysene-d12	2902018	15.405	3053000	15.411	95	50 - 200	-0.0060	+/-0.50	
Perylene-d12	2685921	18.061	2268093	18.071	118	50 - 200	-0.0100	+/-0.50	
LCS Dup (1F22013-BSD1)			Lab File ID: F22013L2.D			Analyzed: 06/24/11 15:37			
1,4-Dichlorobenzene-d4	756234	5.792	835682	5.79	90	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2675113	7.438	2626031	7.435	102	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	1527367	9.655	1677845	9.657	91	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	2728478	11.492	2848390	11.49	96	50 - 200	0.0020	+/-0.50	
Chrysene-d12	2939305	15.413	3053000	15.411	96	50 - 200	0.0020	+/-0.50	
Perylene-d12	2540545	18.079	2268093	18.071	112	50 - 200	0.0080	+/-0.50	
GW0046 (1106155-01)			Lab File ID: 0615501.D			Analyzed: 06/24/11 17:56			
1,4-Dichlorobenzene-d4	624133	5.805	835682	5.79	75	50 - 200	0.0150	+/-0.50	
Naphthalene-d8	2766453	7.467	2626031	7.435	105	50 - 200	0.0320	+/-0.50	
Acenaphthene-d10	1225961	9.662	1677845	9.657	73	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	2268825	11.489	2848390	11.49	80	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	2354793	15.394	3053000	15.411	77	50 - 200	-0.0170	+/-0.50	
Perylene-d12	2538851	18.06	2268093	18.071	112	50 - 200	-0.0110	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F18005	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1F18005-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 06/28/11 18:36			
1,4-Dichlorobenzene-d4	281986	5.732	473419	6.389	60	50 - 200	-0.6570	+/-0.50	
Naphthalene-d8	1058898	7.383	1697246	8.029	62	50 - 200	-0.6460	+/-0.50	
Acenaphthene-d10	611970	9.605	970176	10.251	63	50 - 200	-0.6460	+/-0.50	
Phenanthrene-d10	1171332	11.438	1609148	12.094	73	50 - 200	-0.6560	+/-0.50	
Chrysene-d12	1333795	15.337	1722869	16.261	77	50 - 200	-0.9240	+/-0.50	
Perylene-d12	1258445	17.992	1702026	19.012	74	50 - 200	-1.0200	+/-0.50	
Calibration Check (1F18005-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 06/28/11 19:11			
1,4-Dichlorobenzene-d4	469790	5.735	281986	5.732	167	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	1724573	7.38	1058898	7.383	163	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	970317	9.597	611970	9.605	159	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	1805385	11.435	1171332	11.438	154	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	1899663	15.329	1333795	15.337	142	50 - 200	-0.0080	+/-0.50	
Perylene-d12	1685226	17.99	1258445	17.992	134	50 - 200	-0.0020	+/-0.50	
GW0096 (1106195-01)			Lab File ID: 0619501.D			Analyzed: 06/29/11 04:16			
1,4-Dichlorobenzene-d4	434685	5.729	281986	5.732	154	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1616108	7.38	1058898	7.383	153	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	770440	9.602	611970	9.605	126	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1383693	11.44	1171332	11.438	118	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1337856	15.334	1333795	15.337	100	50 - 200	-0.0030	+/-0.50	
Perylene-d12	1218093	18.006	1258445	17.992	97	50 - 200	0.0140	+/-0.50	
GW0095 (1106203-01)			Lab File ID: 0620301.D			Analyzed: 06/29/11 04:50			
1,4-Dichlorobenzene-d4	318201	5.729	281986	5.732	113	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1268789	7.385	1058898	7.383	120	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	683106	9.602	611970	9.605	112	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1322468	11.44	1171332	11.438	113	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1129930	15.339	1333795	15.337	85	50 - 200	0.0020	+/-0.50	
Perylene-d12	1026037	18.01	1258445	17.992	82	50 - 200	0.0180	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F18113	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1F18113-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 06/30/11 14:09			
1,4-Dichlorobenzene-d4	465183	5.684	473419	6.389	98	50 - 200	-0.7050	+/-0.50	
Naphthalene-d8	1649198	7.334	1697246	8.029	97	50 - 200	-0.6950	+/-0.50	
Acenaphthene-d10	966515	9.551	970176	10.251	100	50 - 200	-0.7000	+/-0.50	
Phenanthrene-d10	1737174	11.389	1609148	12.094	108	50 - 200	-0.7050	+/-0.50	
Chrysene-d12	1836633	15.262	1722869	16.261	107	50 - 200	-0.9990	+/-0.50	
Perylene-d12	1555170	17.906	1702026	19.012	91	50 - 200	-1.1060	+/-0.50	
Calibration Check (1F18113-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 06/30/11 14:44			
1,4-Dichlorobenzene-d4	490639	5.678	465183	5.684	105	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	1795595	7.329	1649198	7.334	109	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1013702	9.545	966515	9.551	105	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	1854127	11.383	1737174	11.389	107	50 - 200	-0.0060	+/-0.50	
Chrysene-d12	2005011	15.246	1836633	15.262	109	50 - 200	-0.0160	+/-0.50	
Perylene-d12	1726995	17.901	1555170	17.906	111	50 - 200	-0.0050	+/-0.50	
GW0046 (1106155-01RE1)			Lab File ID: 0615501D.D			Analyzed: 06/30/11 18:16			
1,4-Dichlorobenzene-d4	475239	5.667	465183	5.684	102	50 - 200	-0.0170	+/-0.50	
Naphthalene-d8	1718300	7.317	1649198	7.334	104	50 - 200	-0.0170	+/-0.50	
Acenaphthene-d10	970917	9.534	966515	9.551	100	50 - 200	-0.0170	+/-0.50	
Phenanthrene-d10	1817311	11.367	1737174	11.389	105	50 - 200	-0.0220	+/-0.50	
Chrysene-d12	1814389	15.234	1836633	15.262	99	50 - 200	-0.0280	+/-0.50	
Perylene-d12	1669997	17.889	1555170	17.906	107	50 - 200	-0.0170	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18304	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1G18304-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 07/01/11 22:18			
1,4-Dichlorobenzene-d4	580610	5.64	473419	6.389	123	50 - 200	-0.7490	+/-0.50	
Naphthalene-d8	2074463	7.291	1697246	8.029	122	50 - 200	-0.7380	+/-0.50	
Acenaphthene-d10	1199400	9.513	970176	10.251	124	50 - 200	-0.7380	+/-0.50	
Phenanthrene-d10	2139325	11.346	1609148	12.094	133	50 - 200	-0.7480	+/-0.50	
Chrysene-d12	2257470	15.208	1722869	16.261	131	50 - 200	-1.0530	+/-0.50	
Perylene-d12	1918481	17.847	1702026	19.012	113	50 - 200	-1.1650	+/-0.50	
Calibration Check (1G18304-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 07/01/11 23:02			
1,4-Dichlorobenzene-d4	707540	5.645	580610	5.64	122	50 - 200	0.0050	+/-0.50	
Naphthalene-d8	2614611	7.296	2074463	7.291	126	50 - 200	0.0050	+/-0.50	
Acenaphthene-d10	1467405	9.518	1199400	9.513	122	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	2659266	11.356	2139325	11.346	124	50 - 200	0.0100	+/-0.50	
Chrysene-d12	2876887	15.213	2257470	15.208	127	50 - 200	0.0050	+/-0.50	
Perylene-d12	2468527	17.863	1918481	17.847	129	50 - 200	0.0160	+/-0.50	
GW0094 (1106188-01)			Lab File ID: 0618801.D			Analyzed: 07/02/11 08:53			
1,4-Dichlorobenzene-d4	347178	5.646	580610	5.64	60	50 - 200	0.0060	+/-0.50	
Naphthalene-d8	1709834	7.312	2074463	7.291	82	50 - 200	0.0210	+/-0.50	
Acenaphthene-d10	810281	9.529	1199400	9.513	68	50 - 200	0.0160	+/-0.50	
Phenanthrene-d10	1317009	11.372	2139325	11.346	62	50 - 200	0.0260	+/-0.50	
Chrysene-d12	1299485	15.213	2257470	15.208	58	50 - 200	0.0050	+/-0.50	
Perylene-d12	1006544	17.868	1918481	17.847	52	50 - 200	0.0210	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18605	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1G18605-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 07/02/11 15:25			
1,4-Dichlorobenzene-d4	731525	5.605	473419	6.389	155	50 - 200	-0.7840	+/-0.50	
Naphthalene-d8	2609565	7.261	1697246	8.029	154	50 - 200	-0.7680	+/-0.50	
Acenaphthene-d10	1515782	9.484	970176	10.251	156	50 - 200	-0.7670	+/-0.50	
Phenanthrene-d10	2643283	11.316	1609148	12.094	164	50 - 200	-0.7780	+/-0.50	
Chrysene-d12	2869847	15.162	1722869	16.261	167	50 - 200	-1.0990	+/-0.50	
Perylene-d12	2422804	17.801	1702026	19.012	142	50 - 200	-1.2110	+/-0.50	
Calibration Check (1G18605-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 07/02/11 16:08			
1,4-Dichlorobenzene-d4	778201	5.601	731525	5.605	106	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	2869645	7.251	2609565	7.261	110	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	1631741	9.474	1515782	9.484	108	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	2922865	11.311	2643283	11.316	111	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	3150818	15.147	2869847	15.162	110	50 - 200	-0.0150	+/-0.50	
Perylene-d12	2748448	17.791	2422804	17.801	113	50 - 200	-0.0100	+/-0.50	
GW0094 (1106188-01RE1)			Lab File ID: 0618801D.D			Analyzed: 07/03/11 01:24			
1,4-Dichlorobenzene-d4	705387	5.587	731525	5.605	96	50 - 200	-0.0180	+/-0.50	
Naphthalene-d8	2593635	7.243	2609565	7.261	99	50 - 200	-0.0180	+/-0.50	
Acenaphthene-d10	1473936	9.46	1515782	9.484	97	50 - 200	-0.0240	+/-0.50	
Phenanthrene-d10	2606124	11.293	2643283	11.316	99	50 - 200	-0.0230	+/-0.50	
Chrysene-d12	2734383	15.128	2869847	15.162	95	50 - 200	-0.0340	+/-0.50	
Perylene-d12	2613294	17.773	2422804	17.801	108	50 - 200	-0.0280	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18908	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1G18908-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 07/07/11 13:32			
1,4-Dichlorobenzene-d4	671696	5.524	473419	6.389	142	50 - 200	-0.8650	+/-0.50	
Naphthalene-d8	2444976	7.18	1697246	8.029	144	50 - 200	-0.8490	+/-0.50	
Acenaphthene-d10	1408350	9.403	970176	10.251	145	50 - 200	-0.8480	+/-0.50	
Phenanthrene-d10	1854547	11.23	1609148	12.094	115	50 - 200	-0.8640	+/-0.50	
Chrysene-d12	1989357	15.044	1722869	16.261	115	50 - 200	-1.2170	+/-0.50	
Perylene-d12	1883885	17.662	1702026	19.012	111	50 - 200	-1.3500	+/-0.50	
Calibration Check (1G18908-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 07/07/11 14:08			
1,4-Dichlorobenzene-d4	749060	5.509	671696	5.524	112	50 - 200	-0.0150	+/-0.50	
Naphthalene-d8	2487737	7.165	2444976	7.18	102	50 - 200	-0.0150	+/-0.50	
Acenaphthene-d10	1581613	9.377	1408350	9.403	112	50 - 200	-0.0260	+/-0.50	
Phenanthrene-d10	2843655	11.215	1854547	11.23	153	50 - 200	-0.0150	+/-0.50	
Chrysene-d12	2161206	15.008	1989357	15.044	109	50 - 200	-0.0360	+/-0.50	
Perylene-d12	1973754	17.631	1883885	17.662	105	50 - 200	-0.0310	+/-0.50	
GW0082 (1106179-01)			Lab File ID: 0617901D.D			Analyzed: 07/07/11 22:47			
1,4-Dichlorobenzene-d4	650436	5.511	671696	5.524	97	50 - 200	-0.0130	+/-0.50	
Naphthalene-d8	2492743	7.172	2444976	7.18	102	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1160936	9.384	1408350	9.403	82	50 - 200	-0.0190	+/-0.50	
Phenanthrene-d10	2508460	11.211	1854547	11.23	135	50 - 200	-0.0190	+/-0.50	
Chrysene-d12	1829077	15.004	1989357	15.044	92	50 - 200	-0.0400	+/-0.50	
Perylene-d12	1749554	17.632	1883885	17.662	93	50 - 200	-0.0300	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G19005	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1G19005-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 07/08/11 18:52			
1,4-Dichlorobenzene-d4	371033	5.469	473419	6.389	78	50 - 200	-0.9200	+/-0.50	
Naphthalene-d8	1315858	7.13	1697246	8.029	78	50 - 200	-0.8990	+/-0.50	
Acenaphthene-d10	712197	9.342	970176	10.251	73	50 - 200	-0.9090	+/-0.50	
Phenanthrene-d10	1263497	11.169	1609148	12.094	79	50 - 200	-0.9250	+/-0.50	
Chrysene-d12	1316323	14.951	1722869	16.261	76	50 - 200	-1.3100	+/-0.50	
Perylene-d12	1186187	17.558	1702026	19.012	70	50 - 200	-1.4540	+/-0.50	
GW0082 (1106179-01RE1)			Lab File ID: 617901D2.D			Analyzed: 07/08/11 22:56			
1,4-Dichlorobenzene-d4	469251	5.482	371033	5.469	126	50 - 200	0.0130	+/-0.50	
Naphthalene-d8	1787200	7.138	1315858	7.13	136	50 - 200	0.0080	+/-0.50	
Acenaphthene-d10	989256	9.35	712197	9.342	139	50 - 200	0.0080	+/-0.50	
Phenanthrene-d10	1781579	11.177	1263497	11.169	141	50 - 200	0.0080	+/-0.50	
Chrysene-d12	1882967	14.954	1316323	14.951	143	50 - 200	0.0030	+/-0.50	
Perylene-d12	1863146	17.566	1186187	17.558	157	50 - 200	0.0080	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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
Acenaphthene	5	1.200562	10	1.152068	20	1.149698	40	1.01509	50	1.06599	60	1.118857
Acenaphthylene	5	1.910563	10	1.856652	20	1.834023	40	1.577506	50	1.649651	60	1.70743
Acetophenone												
Aniline	5	2.209836	10	2.190225	20	2.226457	40	1.982043	50	1.974254	60	2.113941
Anthracene	5	1.235784	10	1.151973	20	1.14753	40	1.011014	50	1.041804	60	1.073498
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.168873	10	1.137636	20	1.197714	40	1.06755	50	1.06548	60	1.128806
Benzo(a)pyrene	5	1.036259	10	1.04972	20	1.089412	40	0.978414	50	1.01499	60	1.072439
Benzo(b)fluoranthene	5	1.078112	10	1.060484	20	1.153792	40	1.054294	50	1.040864	60	1.109427
Benzo(g,h,i)perylene	5	1.006605	10	1.027385	20	1.089672	40	0.9762424	50	0.9956835	60	1.072671
Benzoic acid	5	~~0.1631144~~	10	0.2066539	20	0.2735507	40	0.2647946	50	0.2615823	60	0.2878177
Benzo(k)fluoranthene	5	1.172096	10	1.160073	20	1.151865	40	1.001281	50	1.065575	60	1.126634
Benzyl alcohol	5	0.8617163	10	0.8673336	20	0.9412286	40	0.808192	50	0.8346686	60	0.8710511
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.2469078	10	0.2344633	20	0.2370065	40	0.2123191	50	0.2163411	60	0.2281563
Butylbenzylphthalate	5	0.5079049	10	0.5154742	20	0.5455854	40	0.4854733	50	0.5006547	60	0.5266863
Caprolactam												
Carbazole	5	1.169471	10	1.105756	20	1.083785	40	0.9685984	50	0.99038	60	1.035201
4-Chloro-3-methylphenol	5	0.3271885	10	0.3156005	20	0.3315254	40	0.2968659	50	0.2942781	60	0.3089769
4-Chloroaniline	5	0.4539725	10	0.4453658	20	0.4574864	40	0.3980506	50	0.4035257	60	0.4178278
Bis(2-chloroethoxy)methane	5	0.4611163	10	0.4509887	20	0.460769	40	0.4019167	50	0.4004393	60	0.4227313
Bis(2-chloroethyl)ether	5	1.398969	10	1.365362	20	1.373354	40	1.207943	50	1.239815	60	1.295529
2,2'-Oxybis-1-chloropropane	5	2.104681	10	2.038633	20	2.090222	40	1.80177	50	1.872962	60	1.941936
2-Chloronaphthalene	5	1.200232	10	1.154849	20	1.147532	40	0.9888028	50	1.039189	60	1.079545
2-Chlorophenol	5	1.387384	10	1.360711	20	1.391404	40	1.228533	50	1.258319	60	1.325553
4-Chlorophenyl phenyl ether	5	0.6722867	10	0.629193	20	0.6336897	40	0.5730243	50	0.5907893	60	0.627927
Chrysene	5	1.151174	10	1.091951	20	1.107031	40	0.961258	50	1.014375	60	1.04624
Dibenz(a,h)anthracene	5	0.946806	10	0.9506035	20	1.063357	40	0.9536154	50	0.9816955	60	1.050817
Dibenzofuran	5	1.690636	10	1.625618	20	1.605227	40	1.390488	50	1.466559	60	1.521719

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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
Di-n-butylphthalate	5	1.291838	10	1.2633	20	1.265435	40	1.093081	50	1.140461	60	1.174317
1,4-Dichlorobenzene	5	1.568025	10	1.509793	20	1.523558	40	1.3491	50	1.379529	60	1.434978
1,3-Dichlorobenzene	5	1.574354	10	1.479601	20	1.519922	40	1.320874	50	1.355106	60	1.4173
1,2-Dichlorobenzene	5	1.465806	10	1.434433	20	1.426883	40	1.255848	50	1.293523	60	1.343582
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.3169391	10	0.3145317	20	0.322702	40	0.288284	50	0.289789	60	0.3069296
Diethylphthalate	5	1.32063	10	1.261619	20	1.254918	40	1.085716	50	1.152411	60	1.190047
2,4-Dimethylphenol	5	0.3841369	10	0.3702076	20	0.3829536	40	0.3415762	50	0.3440076	60	0.3643064
Dimethyl phthalate	5	1.355168	10	1.307581	20	1.304618	40	1.153295	50	1.191277	60	1.235793
4,6-Dinitro-2-methylphenol	5	0.1210854	10	0.1305908	20	0.1540064	40	0.145401	50	0.1462314	60	0.1562021
2,4-Dinitrophenol	5	~~0.1243362~~	10	0.141284	20	0.1848834	40	0.1803434	50	0.1820099	60	0.2006313
2,4-Dinitrotoluene	5	0.3918149	10	0.3987171	20	0.4082577	40	0.3613843	50	0.3748928	60	0.3995306
2,6-Dinitrotoluene	5	0.3173778	10	0.3102615	20	0.3152494	40	0.2767322	50	0.2875841	60	0.301629
Di-n-octylphthalate	5	1.129653	10	1.174165	20	1.286397	40	1.152356	50	1.187184	60	1.252792
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.9395803	10	0.8941122	20	0.9022896	40	0.7910616	50	0.8117722	60	0.8483397
Bis(2-ethylhexyl)phthalate	5	0.6809116	10	0.696049	20	0.7240521	40	0.6392159	50	0.667684	60	0.6908073
Fluoranthene	5	1.315024	10	1.285888	20	1.299553	40	1.150257	50	1.178525	60	1.237456
Fluorene	5	1.427943	10	1.37776	20	1.393796	40	1.23256	50	1.283604	60	1.352245
2-Fluorobiphenyl	5	1.379787	10	1.332113	20	1.323566	40	1.162246	50	1.222403	60	1.258599
2-Fluorophenol	10	1.214211	20	1.184901	40	1.215741	80	1.07233	100	1.096515	120	1.1412
Hexachlorobenzene	5	0.2642514	10	0.2518966	20	0.2524031	40	0.2278087	50	0.2304762	60	0.2443057
Hexachlorobutadiene	5	0.1958535	10	0.1924169	20	0.197703	40	0.1758159	50	0.1782143	60	0.1853061
Hexachlorocyclopentadiene	5	0.3479271	10	0.3459221	20	0.3868304	40	0.357985	50	0.3703015	60	0.3962933
Hexachloroethane	5	0.5846331	10	0.56404	20	0.5729063	40	0.5094484	50	0.5215085	60	0.5497472
Indeno(1,2,3-cd)pyrene	5	0.9329214	10	0.9621318	20	1.063819	40	1.008596	50	0.9848949	60	1.105305
Isophorone	5	0.7896668	10	0.7714455	20	0.7883782	40	0.7034726	50	0.7013248	60	0.7443144
1-Methylnaphthalene	5	0.6441305	10	0.6180163	20	0.6239926	40	0.54737	50	0.5549955	60	0.5772563
2-Methylnaphthalene	5	0.6435821	10	0.6278223	20	0.6404808	40	0.5564928	50	0.5627111	60	0.5897258
2-Methylphenol	5	1.260273	10	1.251825	20	1.277152	40	1.131961	50	1.167884	60	1.218514

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1122001
Instrument: MS-BNA3
Matrix: Water
Calibration Dates: 4/29/11 17:45 4/30/11 1:58

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-Methylphenol/4-Methylphenol	5	1.331706	10	1.290792	20	1.346713	40	1.190219	50	1.206537	60	1.281773
Naphthalene	5	1.122107	10	1.071727	20	1.07583	40	0.9265709	50	0.94301	60	0.973957
4-Nitroaniline	5	0.3430184	10	0.3360743	20	0.3479662	40	0.3116398	50	0.3255681	60	0.3397148
3-Nitroaniline	5	0.3309603	10	0.3378271	20	0.3400208	40	0.3008812	50	0.3121727	60	0.3258531
2-Nitroaniline	5	0.3665605	10	0.3700264	20	0.3853216	40	0.3493316	50	0.3598085	60	0.3803924
Nitrobenzene	5	0.4362066	10	0.4207695	20	0.4376126	40	0.3908491	50	0.3913832	60	0.4109914
Nitrobenzene-d5	5	0.4225447	10	0.4166832	20	0.4326009	40	0.3896115	50	0.3855663	60	0.4106561
4-Nitrophenol	5	0.229719	10	0.2494493	20	0.2828897	40	0.265577	50	0.2743758	60	0.2955233
2-Nitrophenol	5	0.1962052	10	0.1951651	20	0.2085142	40	0.1870232	50	0.1859271	60	0.198001
N-Nitrosodimethylamine	5	0.7020853	10	0.6974494	20	0.7179495	40	0.6502823	50	0.6591353	60	0.6915263
N-Nitrosodiphenylamine	5	0.7447467	10	0.702659	20	0.7022588	40	0.6229357	50	0.6399909	60	0.6681725
N-Nitroso-di-n-propylamine	5	1.084962	10	1.067234	20	1.095671	40	0.964017	50	0.9910933	60	1.042096
Pentachlorophenol	5	0.1466429	10	0.1458785	20	0.1722191	40	0.1555052	50	0.1599187	60	0.1729039
Phenanthrene	5	1.199467	10	1.144802	20	1.134825	40	0.990132	50	1.022705	60	1.064225
Phenol	5	1.763803	10	1.739868	20	1.780402	40	1.57708	50	1.605923	60	1.698477
Phenol-d6	10	1.662802	20	1.633678	40	1.679837	80	1.464852	100	1.513167	120	1.571116
Pyrene	5	1.262746	10	1.222088	20	1.241454	40	1.08272	50	1.115517	60	1.160478
Pyridine	5	1.508911	10	1.473681	20	1.566124	40	1.419584	50	1.429577	60	1.495931
Terphenyl-d14	5	0.7819621	10	0.7712491	20	0.7866967	40	0.6961461	50	0.7143354	60	0.753249
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.3424646	10	0.3390161	20	0.3503973	40	0.3066535	50	0.3206907	60	0.3389603
2,4,6-Tribromophenol	10	0.1109002	20	0.1068303	40	0.1114174	80	0.1032482	100	0.1035542	120	0.1120766
1,2,4-Trichlorobenzene	5	0.3746386	10	0.3584824	20	0.362458	40	0.320971	50	0.3209222	60	0.3385883
2,4,6-Trichlorophenol	5	0.3830191	10	0.3817827	20	0.3990224	40	0.3592382	50	0.3644658	60	0.395434
2,4,5-Trichlorophenol	5	0.4211802	10	0.4132209	20	0.4400895	40	0.3862672	50	0.4032646	60	0.4189467

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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
Acenaphthene	80	1.070428	100	1.110154								
Acenaphthylene	80	1.618735	100	1.647107								
Acetophenone					5	1.880226	10	1.843684	20	1.726817	40	1.816985
Aniline	80	2.054588	100	2.043831								
Anthracene	80	1.035715	100	1.04405								
Atrazine					5	0.2382708	10	0.2429518	20	0.2278142	40	0.233576
Benzaldehyde					5	1.135886	10	1.104348	20	1.01959	40	1.026186
Benzidine					5	0.6324675	10	0.6598514	20	0.6461027	40	0.6640134
Benzo(a)anthracene	80	1.085495	100	1.102825								
Benzo(a)pyrene	80	1.043055	100	1.082603								
Benzo(b)fluoranthene	80	1.094292	100	1.158321								
Benzo(g,h,i)perylene	80	1.029641	100	1.06721								
Benzoic acid	80	0.2818719	100	0.2993054								
Benzo(k)fluoranthene	80	1.086365	100	1.097945								
Benzyl alcohol	80	0.8753887	100	0.8745454								
1,1-Biphenyl					5	1.527091	10	1.51435	20	1.38327	40	1.425931
4-Bromophenyl-phenylether	80	0.2212953	100	0.2313328								
Butylbenzylphthalate	80	0.506124	100	0.5159519								
Caprolactam					5	9.990739E-02	10	0.1104282	20	0.1119224	40	0.1178965
Carbazole	80	0.9981409	100	1.003717								
4-Chloro-3-methylphenol	80	0.3086181	100	0.3077652								
4-Chloroaniline	80	0.4023406	100	0.4016907								
Bis(2-chloroethoxy)methane	80	0.4085309	100	0.4094061								
Bis(2-chloroethyl)ether	80	1.257639	100	1.244128								
2,2'-Oxybis-1-chloropropane	80	1.890831	100	1.835877								
2-Chloronaphthalene	80	1.026935	100	1.065042								
2-Chlorophenol	80	1.285464	100	1.282664								
4-Chlorophenyl phenyl ether	80	0.6214753	100	0.6384061								
Chrysene	80	0.9983804	100	1.012507								
Dibenz(a,h)anthracene	80	1.023862	100	1.065065								
Dibenzofuran	80	1.474077	100	1.5066								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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
Di-n-butylphthalate	80	1.11586	100	1.111806								
1,4-Dichlorobenzene	80	1.392334	100	1.402334								
1,3-Dichlorobenzene	80	1.374133	100	1.380718								
1,2-Dichlorobenzene	80	1.303595	100	1.306451								
3,3'-Dichlorobenzidine					5	0.3885638	10	0.4002254	20	0.3955931	40	0.4201307
2,6-Dichlorophenol					5	0.2969206	10	0.3013649	20	0.291966	40	0.3082091
2,4-Dichlorophenol	80	0.2966112	100	0.3015958								
Diethylphthalate	80	1.134853	100	1.157654								
2,4-Dimethylphenol	80	0.3587442	100	0.3633549								
Dimethyl phthalate	80	1.185465	100	1.222328								
4,6-Dinitro-2-methylphenol	80	0.1522534	100	0.1575479								
2,4-Dinitrophenol	80	0.2006293	100	0.2082968								
2,4-Dinitrotoluene	80	0.395113	100	0.4141599								
2,6-Dinitrotoluene	80	0.2878134	100	0.2968419								
Di-n-octylphthalate	80	1.208456	100	1.243757								
1,4-Dioxane					5	0.562493	10	0.5588019	20	0.5235447	40	0.5233689
1,2-Diphenylhydrazine	80	0.8016431	100	0.8168839								
Bis(2-ethylhexyl)phthalate	80	0.6617696	100	0.6739699								
Fluoranthene	80	1.192481	100	1.211512								
Fluorene	80	1.305665	100	1.326577								
2-Fluorobiphenyl	80	1.204291	100	1.24033								
2-Fluorophenol	160	1.101251	200	1.111221								
Hexachlorobenzene	80	0.2366873	100	0.2470671								
Hexachlorobutadiene	80	0.1811536	100	0.1883923								
Hexachlorocyclopentadiene	80	0.3839658	100	0.4105745								
Hexachloroethane	80	0.5306981	100	0.5387239								
Indeno(1,2,3-cd)pyrene	80	1.075263	100	1.17113								
Isophorone	80	0.7247781	100	0.7308301								
1-Methylnaphthalene	80	0.5632671	100	0.5691244								
2-Methylnaphthalene	80	0.577124	100	0.5814146								
2-Methylphenol	80	1.186174	100	1.175301								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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-Methylphenol/4-Methylphenol	80	1.25282	100	1.246708								
Naphthalene	80	0.929288	100	0.9247047								
4-Nitroaniline	80	0.3041842	100	0.3101441								
3-Nitroaniline	80	0.3160066	100	0.3209305								
2-Nitroaniline	80	0.3679269	100	0.3808217								
Nitrobenzene	80	0.3959025	100	0.4026269								
Nitrobenzene-d5	80	0.3956873	100	0.4070452								
4-Nitrophenol	80	0.2875644	100	0.2922439								
2-Nitrophenol	80	0.1898848	100	0.1924385								
N-Nitrosodimethylamine	80	0.6770774	100	0.6814722								
N-Nitrosodiphenylamine	80	0.6421856	100	0.6601622								
N-Nitroso-di-n-propylamine	80	1.01735	100	1.009302								
Pentachlorophenol	80	0.1689527	100	0.1764541								
Phenanthrene	80	1.02087	100	1.029906								
Phenol	80	1.657873	100	1.678155								
Phenol-d6	160	1.528019	200	1.530415								
Pyrene	80	1.10517	100	1.119951								
Pyridine	80	1.469181	100	1.49947								
Terphenyl-d14	80	0.7229046	100	0.7432138								
1,2,4,5-Tetrachlorobenzene					5	0.3479122	10	0.3558868	20	0.3284806	40	0.3388667
2,3,4,6-Tetrachlorophenol	80	0.3293547	100	0.3450346								
2,4,6-Tribromophenol	160	0.1116489	200	0.1192761								
1,2,4-Trichlorobenzene	80	0.3260549	100	0.3352601								
2,4,6-Trichlorophenol	80	0.3790248	100	0.3940451								
2,4,5-Trichlorophenol	80	0.4068398	100	0.4243071								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.789068	60	1.770735	80	1.812049	100	1.776326				
Aniline												
Anthracene												
Atrazine	50	0.2359177	60	0.2321698	80	0.234271	100	0.2307739				
Benzaldehyde	50	0.9817363	60	0.9635899	80	0.9526789	100	0.8968237				
Benzidine	50	0.6420753	60	0.6442256	80	0.6312912	100	0.6103486				
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	1.43195	60	1.402475	80	1.465295	100	1.405265				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1144193	60	0.1176165	80	0.1139048	100	0.1166416				
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												
Dibenzofuran												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_017	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1122001		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	4/29/11 17:45	4/30/11 1:58

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
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
3,3'-Dichlorobenzidine	50	0.412504	60	0.4101255	80	0.4135013	100	0.4131389				
2,6-Dichlorophenol	50	0.2904992	60	0.3021215	80	0.2987647	100	0.297978				
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	0.5272408	60	0.5401001	80	0.5695672	100	0.5195493				
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_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

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-Methylphenol/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	0.3278198	60	0.3307788	80	0.3290598	100	0.3234578				
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_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1122001	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	4/29/11 17:45 4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.110356	5.288294	10.29162	9.343479E-02			CCC (30)	
Acenaphthylene	1.725208	7.224824	10.072	8.837624E-02			15	
Acetophenone	1.801986	2.623006	6.9	0.0512758			15	
Aniline	2.099397	4.80832	5.967	0.2001409			15	
Anthracene	1.092671	7.109126	12.18775	7.884876E-02			15	
Atrazine	0.2344682	1.991174	11.74575	4.943708E-02			15	
Benzaldehyde	1.010105	7.8623	5.825625	7.236361E-02			15	
Benzidine	0.641297	2.654444	13.97425	4.038824E-02			15	
Benzo(a)anthracene	1.119297	4.274256	16.23525	0.0816524			15	
Benzo(a)pyrene	1.045862	3.535372	18.9035	0.1146499			CCC (30)	
Benzo(b)fluoranthene	1.093698	4.048684	18.29662	0.1113231			15	
Benzo(g,h,i)perylene	1.033139	3.890507	21.8865	0.2082456			15	
Benzoic acid	0.2679395	11.20774	7.781571	0.6947302			15	
Benzo(k)fluoranthene	1.107729	5.157608	18.3555	0.1297645			15	
Benzyl alcohol	0.8667655	4.400746	6.566875	0.2166256			15	
1,1-Biphenyl	1.444453	3.67168	9.52625	3.810599E-02			15	
4-Bromophenyl-phenylether	0.2284778	5.008023	11.5395	7.035777E-02			15	
Butylbenzylphthalate	0.5129818	3.492852	15.25225	6.767508E-02			15	
Caprolactam	0.1128421	5.193073	8.55075	0.1563915			15	
Carbazole	1.044381	6.624112	12.39137	8.639464E-02			15	
4-Chloro-3-methylphenol	0.3113523	4.210752	8.736125	0.1038012			CCC (30)	
4-Chloroaniline	0.4225325	6.03815	8.122625	0.1175516			15	
Bis(2-chloroethoxy)methane	0.4269873	6.185735	7.725875	0.1308561			15	
Bis(2-chloroethyl)ether	1.297842	5.559542	6.0525	0.1902114			15	
2,2'-Oxybis-1-chloropropane	1.947114	6.010514	6.7435	0.131801			15	
2-Chloronaphthalene	1.087766	6.697993	9.5495	8.079271E-02			15	
2-Chlorophenol	1.315004	4.624341	6.11375	0.1645746			15	
4-Chlorophenyl phenyl ether	0.6233489	4.843106	10.93262	7.540016E-02			15	
Chrysene	1.047865	6.082994	16.30862	0.1078386			15	
Dibenz(a,h)anthracene	1.004478	5.185987	21.30563	0.1755433			15	
Dibenzofuran	1.535116	6.402871	10.50525	9.099792E-02			15	
Di-n-butylphthalate	1.182012	6.755144	12.86425	6.288496E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	1122001	Instrument:	MS-BNA3		
Matrix:	Water	Calibration Dates:	4/29/11 17:45	4/30/11 1:58	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.444956	5.466992	6.410625	0.1248613			CCC (30)	
1,3-Dichlorobenzene	1.427751	6.184247	6.312875	0.105711			15	
1,2-Dichlorobenzene	1.353765	5.754592	6.6015	9.658535E-02			15	
3,3'-Dichlorobenzidine	0.4067228	2.64104	16.20337	3.259867E-02			15	
2,6-Dichlorophenol	0.298478	1.900014	8.1265	4.341722E-02			15	
2,4-Dichlorophenol	0.3046728	4.192991	7.844125	0.1362117			CCC (30)	
Diethylphthalate	1.194731	6.529918	10.80025	0.1137489			15	
2,4-Dimethylphenol	0.3636609	4.326675	7.594375	0.1603634			15	
Dimethyl phthalate	1.244441	5.685728	9.930375	0.1671862			15	
4,6-Dinitro-2-methylphenol	0.1454148	8.990807	11.00038	0.1679983			15	
2,4-Dinitrophenol	0.1854397	12.00123	10.33129	0.1179144			SPCC (0.05)	
2,4-Dinitrotoluene	0.3929838	4.396053	10.49525	0.1523157			15	
2,6-Dinitrotoluene	0.2991862	4.878435	9.996875	0.1438581			15	
Di-n-octylphthalate	1.204345	4.453456	17.67838	7.317373E-02			CCC (30)	
1,4-Dioxane	0.5405832	3.738713	2.966125	0.8455495			15	
1,2-Diphenylhydrazine	0.8507103	6.449686	11.13088	9.327424E-02			15	
Bis(2-ethylhexyl)phthalate	0.6793074	3.730629	16.37963	6.115675E-02			15	
Fluoranthene	1.233837	4.928638	13.7625	9.359244E-02			CCC (30)	
Fluorene	1.337519	4.748586	10.932	9.604146E-02			15	
2-Fluorobiphenyl	1.265417	5.80845	9.402	7.848969E-02			15	
2-Fluorophenol	1.142171	4.910943	4.735625	0.2045971			15	
Hexachlorobenzene	0.244362	5.01217	11.60775	8.043427E-02			15	
Hexachlorobutadiene	0.1868569	4.354219	8.211375	6.390464E-02			CCC (30)	
Hexachlorocyclopentadiene	0.374975	6.237495	9.13225	6.029786E-02			SPCC (0.05)	
Hexachloroethane	0.5464632	4.780526	7.037625	8.255052E-02			15	
Indeno(1,2,3-cd)pyrene	1.038008	7.706288	21.23487	0.170273			15	
Isophorone	0.7442763	4.76768	7.447	0.2320769			15	
1-Methylnaphthalene	0.5872691	6.161853	9.060125	8.180225E-02			15	
2-Methylnaphthalene	0.5974192	5.83852	8.935875	7.367129E-02			15	
2-Methylphenol	1.208635	4.251053	6.698875	0.1714391			15	
3-Methylphenol/4-Methylphenol	1.268409	4.36657	6.9085	0.2477057			15	
Naphthalene	0.9958993	8.109498	8.05525	8.805836E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_017	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1122001		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	4/29/11 17:45	4/30/11 1:58

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4-Nitroaniline	0.3272887	5.141513	10.96663	0.2298598			15	
3-Nitroaniline	0.3230815	4.120647	10.20188	0.1592925			15	
2-Nitroaniline	0.3700237	3.241451	9.68	0.1125277			15	
Nitrobenzene	0.4107927	4.625764	7.1275	0.1614281			15	
Nitrobenzene-d5	0.4075494	4.033432	7.1015	0.150497			15	
4-Nitrophenol	0.2721678	8.409362	10.40112	0.1699928			SPCC (0.05)	
2-Nitrophenol	0.1941449	3.724196	7.534125	0.1204379			CCC (30)	
N-Nitrosodimethylamine	0.6846222	3.277107	3.268625	0.4561992			15	
N-Nitrosodiphenylamine	0.6728889	6.054145	11.08487	0.122818			CCC (30)	
N-Nitroso-di-n-propylamine	1.033966	4.50625	6.924	0.341437			SPCC (0.05)	
Pentachlorophenol	0.1623094	7.444736	11.84938	7.159059E-02			CCC (30)	
Phenanthrene	1.075866	6.933794	12.12375	8.032742E-02			15	
Phenol	1.687698	4.315264	5.922875	0.2981099			CCC (30)	
Phenol-d6	1.572986	4.940565	5.90625	0.2878739			15	
Pyrene	1.163766	5.943883	14.11538	0.0929633			15	
Pyridine	1.482807	3.139741	3.313875	0.4229696			15	
Terphenyl-d14	0.7462196	4.435474	14.37887	7.151091E-02			15	
1,2,4,5-Tetrachlorobenzene	0.3352828	3.377528	9.142125	3.575815E-02			15	
2,3,4,6-Tetrachlorophenol	0.3340715	4.320893	10.65287	9.534642E-02			15	
2,4,6-Tribromophenol	0.109869	4.778459	11.23037	0.1037614			15	
1,2,4-Trichlorobenzene	0.3421719	6.002622	7.953	8.322603E-02			15	
2,4,6-Trichlorophenol	0.382004	3.768651	9.2885	6.754752E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4142645	3.869366	9.329125	9.747652E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	50.99	1.110356	1.132237		2.0	20
Acenaphthylene	A	50.00	52.08	1.725208	1.796804		4.1	20
Anthracene	A	50.00	53.21	1.092671	1.162801		6.4	20
Benzo(a)anthracene	A	50.00	53.94	1.119297	1.207582		7.9	20
Benzo(a)pyrene	A	50.00	54.76	1.045862	1.145479		9.5	20
Benzo(b)fluoranthene	A	50.00	53.30	1.093698	1.165866		6.6	20
Benzo(g,h,i)perylene	A	50.00	55.29	1.033139	1.142352		10.6	20
Benzoic acid	A	50.00	56.42	0.2679395	0.302351		12.8	20
Benzo(k)fluoranthene	A	50.00	54.50	1.107729	1.207431		9.0	20
4-Bromophenyl-phenylether	A	50.00	52.91	0.2284778	0.2417889		5.8	20
Butylbenzylphthalate	A	50.00	56.82	0.5129818	0.582953		13.6	20
Carbazole	A	50.00	51.29	1.044381	1.071248		2.6	20
4-Chloro-3-methylphenol	A	50.00	52.69	0.3113523	0.3281338		5.4	20
4-Chloroaniline	A	50.00	50.78	0.4225325	0.4291082		1.6	20
Bis(2-chloroethoxy)methane	A	50.00	54.60	0.4269873	0.4662333		9.2	20
Bis(2-chloroethyl)ether	A	50.00	52.57	1.297842	1.3646		5.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	51.93	1.947114	2.022377		3.9	20
2-Chloronaphthalene	A	50.00	52.76	1.087766	1.147861		5.5	20
2-Chlorophenol	A	50.00	53.41	1.315004	1.404776		6.8	20
4-Chlorophenyl phenyl ether	A	50.00	51.82	0.6233489	0.6461009		3.6	20
Chrysene	A	50.00	53.37	1.047865	1.118417		6.7	20
Dibenz(a,h)anthracene	A	50.00	56.42	1.004478	1.133417		12.8	20
Dibenzofuran	A	50.00	53.17	1.535116	1.632439		6.3	20
Di-n-butylphthalate	A	50.00	52.16	1.182012	1.233187		4.3	20
2,4-Dichlorophenol	A	50.00	52.27	0.3046728	0.3185106		4.5	20
Diethylphthalate	A	50.00	52.18	1.194731	1.246888		4.4	20
2,4-Dimethylphenol	A	50.00	53.80	0.3636609	0.3913226		7.6	20
Dimethyl phthalate	A	50.00	52.08	1.244441	1.296196		4.2	20
2,4-Dinitrotoluene	A	50.00	52.99	0.3929838	0.4165004		6.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,6-Dinitrotoluene	A	50.00	53.60	0.2991862	0.3207071		7.2	20
Di-n-octylphthalate	A	50.00	55.56	1.204345	1.338299		11.1	20
1,2-Diphenylhydrazine	A	50.00	51.69	0.8507103	0.8794004		3.4	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.80	0.6793074	0.7445394		9.6	20
Fluoranthene	A	50.00	52.70	1.233837	1.300481		5.4	20
Fluorene	A	50.00	52.74	1.337519	1.410746		5.5	20
Hexachlorobenzene	A	50.00	53.53	0.244362	0.2616019		7.1	20
Hexachlorobutadiene	A	50.00	56.62	0.1868569	0.2116138		13.2	20
Hexachlorocyclopentadiene	A	50.00	50.51	0.374975	0.3787812	0.05	1.0	20
Hexachloroethane	A	50.00	53.43	0.5464632	0.5839846		6.9	20
Indeno(1,2,3-cd)pyrene	A	50.00	55.78	1.038008	1.157962		11.6	20
Isophorone	A	50.00	51.26	0.7442763	0.7630284		2.5	20
1-Methylnaphthalene	A	50.00	50.47	0.5872691	0.5928174		0.9	20
2-Methylnaphthalene	A	50.00	52.21	0.5974192	0.6238767		4.4	20
2-Methylphenol	A	50.00	52.67	1.208635	1.273291		5.3	20
3-Methylphenol/4-Methylphenol	A	50.00	51.20	1.268409	1.298786		2.4	20
4-Nitroaniline	A	50.00	53.01	0.3272887	0.3469818		6.0	20
3-Nitroaniline	A	50.00	53.20	0.3230815	0.3437513		6.4	20
2-Nitroaniline	A	50.00	53.86	0.3700237	0.3985975		7.7	20
Nitrobenzene	A	50.00	52.75	0.4107927	0.4333935		5.5	20
4-Nitrophenol	A	50.00	53.70	0.2721678	0.292285	0.05	7.4	20
2-Nitrophenol	A	50.00	53.57	0.1941449	0.2080171		7.1	20
N-Nitrosodiphenylamine	A	50.00	53.24	0.6728889	0.7164793		6.5	20
N-Nitroso-di-n-propylamine	A	50.00	54.25	1.033966	1.12186	0.05	8.5	20
Phenanthrene	A	50.00	53.38	1.075866	1.148675		6.8	20
Phenol	A	50.00	52.06	1.687698	1.757079		4.1	20
Pyrene	A	50.00	54.76	1.163766	1.274472		9.5	20
2,4,6-Trichlorophenol	A	50.00	53.68	0.382004	0.4101383		7.4	20
2,4,5-Trichlorophenol	A	50.00	52.48	0.4142645	0.4348178		5.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV1	Injection Time:	15:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2-Fluorobiphenyl	A	50.00	54.11	1.265417	1.369371		8.2	20
2-Fluorophenol	A	100.0	114.6	1.142171	1.308424		14.6	20
Nitrobenzene-d5	A	50.00	55.94	0.4075494	0.4559688		11.9	20
Terphenyl-d14	A	50.00	54.87	0.7462196	0.8189273		9.7	20
2,4,6-Tribromophenol	A	100.0	109.2	0.109869	0.1200227		9.2	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_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV2.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV2	Injection Time:	15:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	48.88	1.801986	1.761675		-2.2	20
Atrazine	A	50.00	50.39	0.2344682	0.2362964		0.8	20
Benzidine	A	50.00	49.05	0.641297	0.6290564		-1.9	20
1,1-Biphenyl	A	50.00	51.20	1.444453	1.479098		2.4	20
Caprolactam	A	50.00	56.58	0.1128421	0.1276823		13.2	20
3,3'-Dichlorobenzidine	A	50.00	52.77	0.4067228	0.4292329		5.5	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_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV5.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	04/30/11
Lab Sample ID:	1E12203-ICV3	Injection Time:	17:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
4,6-Dinitro-2-methylphenol	A	50.00	53.45	0.1454148	0.1554342		6.9	20
2,4-Dinitrophenol	A	50.00	61.89	0.1854397	0.2295477	0.05	23.8	20 *
Pentachlorophenol	A	50.00	56.14	0.1623094	0.1822508		12.3	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_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-ICV4.D	Calibration Date:	04/29/11 00:00
Sequence:	1E12203	Injection Date:	05/02/11
Lab Sample ID:	1E12203-ICV4	Injection Time:	14:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzaldehyde	A	50.00	50.85	1.010105	1.027374		1.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F17308	Injection Date:	06/22/11
Lab Sample ID:	1F17308-CCV1	Injection Time:	11:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	54.19	1.110356	1.203344		8.4	20
Acenaphthylene	A	50.00	54.03	1.725208	1.864327		8.1	20
Acetophenone	A	50.00	52.03	1.801986	1.875187		4.1	20
Anthracene	A	50.00	51.95	1.092671	1.135319		3.9	20
Atrazine	A	50.00	44.19	0.2344682	0.2072051		-11.6	20
Benzaldehyde	A	50.00	29.77	1.010105	0.601467		-40.5	20 *
Benzidine	A	50.00	57.37	0.641297	0.7358748		14.7	20
Benzo(a)anthracene	A	50.00	55.36	1.119297	1.239344		10.7	20
Benzo(a)pyrene	A	50.00	57.66	1.045862	1.205991		15.3	20
Benzo(b)fluoranthene	A	50.00	72.49	1.093698	1.585716		45.0	20 *
Benzo(g,h,i)perylene	A	50.00	51.94	1.033139	1.073199		3.9	20
Benzoic acid	A	50.00	59.20	0.2679395	0.3172393		18.4	20
Benzo(k)fluoranthene	A	50.00	50.60	1.107729	1.121133		1.2	20
1,1-Biphenyl	A	50.00	53.51	1.444453	1.545787		7.0	20
4-Bromophenyl-phenylether	A	50.00	52.44	0.2284778	0.2396116		4.9	20
Butylbenzylphthalate	A	50.00	52.27	0.5129818	0.5362967		4.5	20
Caprolactam	A	50.00	51.31	0.1128421	0.1157926		2.6	20
Carbazole	A	50.00	48.74	1.044381	1.018119		-2.5	20
4-Chloro-3-methylphenol	A	50.00	53.55	0.3113523	0.3334288		7.1	20
4-Chloroaniline	A	50.00	54.97	0.4225325	0.4645115		9.9	20
Bis(2-chloroethoxy)methane	A	50.00	51.22	0.4269873	0.4374075		2.4	20
Bis(2-chloroethyl)ether	A	50.00	50.29	1.297842	1.305346		0.6	20
2,2'-Oxybis-1-chloropropane	A	50.00	48.73	1.947114	1.897633		-2.5	20
2-Chloronaphthalene	A	50.00	66.00	1.087766	1.435837		32.0	20 *
2-Chlorophenol	A	50.00	51.42	1.315004	1.352221		2.8	20
4-Chlorophenyl phenyl ether	A	50.00	57.36	0.6233489	0.7150975		14.7	20
Chrysene	A	50.00	49.12	1.047865	1.029403		-1.8	20
Dibenz(a,h)anthracene	A	50.00	53.67	1.004478	1.078137		7.3	20
Dibenzofuran	A	50.00	53.31	1.535116	1.636816		6.6	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F17308	Injection Date:	06/22/11
Lab Sample ID:	1F17308-CCV1	Injection Time:	11:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	52.03	1.182012	1.230064		4.1	20
3,3'-Dichlorobenzidine	A	50.00	66.49	0.4067228	0.5408729		33.0	20 *
2,4-Dichlorophenol	A	50.00	52.12	0.3046728	0.3176169		4.2	20
Diethylphthalate	A	50.00	56.50	1.194731	1.35001		13.0	20
2,4-Dimethylphenol	A	50.00	53.75	0.3636609	0.39097		7.5	20
Dimethyl phthalate	A	50.00	52.51	1.244441	1.30699		5.0	20
4,6-Dinitro-2-methylphenol	A	50.00	57.80	0.1454148	0.1681117		15.6	20
2,4-Dinitrophenol	A	50.00	63.24	0.1854397	0.2345277	0.05	26.5	20 *
2,4-Dinitrotoluene	A	50.00	55.77	0.3929838	0.4383296		11.5	20
2,6-Dinitrotoluene	A	50.00	53.07	0.2991862	0.3175301		6.1	20
Di-n-octylphthalate	A	50.00	59.86	1.204345	1.441862		19.7	20
1,2-Diphenylhydrazine	A	50.00	48.20	0.8507103	0.8200414		-3.6	20
Bis(2-ethylhexyl)phthalate	A	50.00	52.03	0.6793074	0.7068373		4.1	20
Fluoranthene	A	50.00	50.95	1.233837	1.257304		1.9	20
Fluorene	A	50.00	54.90	1.337519	1.468572		9.8	20
Hexachlorobenzene	A	50.00	52.42	0.244362	0.2561741		4.8	20
Hexachlorobutadiene	A	50.00	56.47	0.1868569	0.2110518		12.9	20
Hexachlorocyclopentadiene	A	50.00	60.67	0.374975	0.4550162	0.05	21.3	20 *
Hexachloroethane	A	50.00	55.19	0.5464632	0.6032029		10.4	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.47	1.038008	1.130848		8.9	20
Isophorone	A	50.00	50.16	0.7442763	0.7467112		0.3	20
1-Methylnaphthalene	A	50.00	51.93	0.5872691	0.6099487		3.9	20
2-Methylnaphthalene	A	50.00	52.21	0.5974192	0.6238164		4.4	20
2-Methylphenol	A	50.00	49.87	1.208635	1.205426		-0.3	20
3-Methylphenol/4-Methylphenol	A	50.00	50.76	1.268409	1.287624		1.5	20
4-Nitroaniline	A	50.00	51.00	0.3272887	0.3338335		2.0	20
3-Nitroaniline	A	50.00	52.82	0.3230815	0.3413334		5.6	20
2-Nitroaniline	A	50.00	56.58	0.3700237	0.4186873		13.2	20
Nitrobenzene	A	50.00	53.36	0.4107927	0.4383772		6.7	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F17308	Injection Date:	06/22/11
Lab Sample ID:	1F17308-CCV1	Injection Time:	11:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	54.24	0.2721678	0.2952689	0.05	8.5	20
2-Nitrophenol	A	50.00	54.31	0.1941449	0.2108843		8.6	20
N-Nitrosodiphenylamine	A	50.00	50.06	0.6728889	0.6737371		0.1	20
N-Nitroso-di-n-propylamine	A	50.00	47.36	1.033966	0.9794497	0.05	-5.3	20
Pentachlorophenol	A	50.00	55.68	0.1623094	0.1807338		11.4	20
Phenanthrene	A	50.00	52.26	1.075866	1.124468		4.5	20
Phenol	A	50.00	54.67	1.687698	1.845361		9.3	20
Pyrene	A	50.00	49.35	1.163766	1.148625		-1.3	20
2,4,6-Trichlorophenol	A	50.00	55.37	0.382004	0.4230637		10.7	20
2,4,5-Trichlorophenol	A	50.00	55.65	0.4142645	0.4610423		11.3	20
2-Fluorobiphenyl	A	50.00	51.64	1.265417	1.30681		3.3	20
2-Fluorophenol	A	100.0	98.23	1.142171	1.12201		-1.8	20
Nitrobenzene-d5	A	50.00	50.84	0.4075494	0.4144087		1.7	20
Phenol-d6	A	100.0	101.0	1.572986	1.588241		1.0	20
Terphenyl-d14	A	50.00	51.73	0.7462196	0.7719752		3.5	20
2,4,6-Tribromophenol	A	100.0	116.8	0.109869	0.1283375		16.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F17506	Injection Date:	06/23/11
Lab Sample ID:	1F17506-CCV1	Injection Time:	11:35

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	54.56	1.110356	1.211729		9.1	20
Acenaphthylene	A	50.00	55.26	1.725208	1.906539		10.5	20
Acetophenone	A	50.00	44.60	1.801986	1.607244		-10.8	20
Anthracene	A	50.00	51.45	1.092671	1.124251		2.9	20
Atrazine	A	50.00	43.31	0.2344682	0.2030897		-13.4	20
Benzaldehyde	A	50.00	34.40	1.010105	0.6949726		-31.2	20 *
Benzidine	A	50.00	60.97	0.641297	0.7819857		21.9	20 *
Benzo(a)anthracene	A	50.00	54.57	1.119297	1.221591		9.1	20
Benzo(a)pyrene	A	50.00	57.72	1.045862	1.207264		15.4	20
Benzo(b)fluoranthene	A	50.00	67.41	1.093698	1.474448		34.8	20 *
Benzo(g,h,i)perylene	A	50.00	50.44	1.033139	1.042223		0.9	20
Benzoic acid	A	50.00	50.00	0.2679395	0.2679517		0.005	20
Benzo(k)fluoranthene	A	50.00	53.96	1.107729	1.195356		7.9	20
1,1-Biphenyl	A	50.00	53.83	1.444453	1.555099		7.7	20
4-Bromophenyl-phenylether	A	50.00	50.19	0.2284778	0.2293586		0.4	20
Butylbenzylphthalate	A	50.00	52.98	0.5129818	0.5435569		6.0	20
Caprolactam	A	50.00	49.11	0.1128421	0.1108256		-1.8	20
Carbazole	A	50.00	47.88	1.044381	1.000167		-4.2	20
4-Chloro-3-methylphenol	A	50.00	52.07	0.3113523	0.3242497		4.1	20
4-Chloroaniline	A	50.00	53.15	0.4225325	0.4491544		6.3	20
Bis(2-chloroethoxy)methane	A	50.00	50.07	0.4269873	0.4275916		0.1	20
Bis(2-chloroethyl)ether	A	50.00	48.24	1.297842	1.252118		-3.5	20
2,2'-Oxybis-1-chloropropane	A	50.00	40.45	1.947114	1.575351		-19.1	20
2-Chloronaphthalene	A	50.00	61.47	1.087766	1.33739		22.9	20 *
2-Chlorophenol	A	50.00	50.19	1.315004	1.319961		0.4	20
4-Chlorophenyl phenyl ether	A	50.00	57.69	0.6233489	0.7192416		15.4	20
Chrysene	A	50.00	50.51	1.047865	1.058565		1.0	20
Dibenz(a,h)anthracene	A	50.00	52.76	1.004478	1.059997		5.5	20
Dibenzofuran	A	50.00	54.64	1.535116	1.677478		9.3	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F17506	Injection Date:	06/23/11
Lab Sample ID:	1F17506-CCV1	Injection Time:	11:35

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Di-n-butylphthalate	A	50.00	51.90	1.182012	1.227003		3.8	20	
3,3'-Dichlorobenzidine	A	50.00	65.67	0.4067228	0.5341691		31.3	20	*
2,4-Dichlorophenol	A	50.00	50.25	0.3046728	0.3061745		0.5	20	
Diethylphthalate	A	50.00	58.12	1.194731	1.388685		16.2	20	
2,4-Dimethylphenol	A	50.00	52.49	0.3636609	0.3817852		5.0	20	
Dimethyl phthalate	A	50.00	53.58	1.244441	1.333614		7.2	20	
4,6-Dinitro-2-methylphenol	A	50.00	52.17	0.1454148	0.1517164		4.3	20	
2,4-Dinitrophenol	A	50.00	56.90	0.1854397	0.2110408	0.05	13.8	20	
2,4-Dinitrotoluene	A	50.00	56.21	0.3929838	0.441756		12.4	20	
2,6-Dinitrotoluene	A	50.00	53.60	0.2991862	0.320749		7.2	20	
Di-n-octylphthalate	A	50.00	59.97	1.204345	1.444462		19.9	20	
1,2-Diphenylhydrazine	A	50.00	46.89	0.8507103	0.797776		-6.2	20	
Bis(2-ethylhexyl)phthalate	A	50.00	53.43	0.6793074	0.7258431		6.9	20	
Fluoranthene	A	50.00	49.95	1.233837	1.23267		-0.09	20	
Fluorene	A	50.00	55.84	1.337519	1.493721		11.7	20	
Hexachlorobenzene	A	50.00	50.18	0.244362	0.2452519		0.4	20	
Hexachlorobutadiene	A	50.00	56.89	0.1868569	0.2126036		13.8	20	
Hexachlorocyclopentadiene	A	50.00	57.56	0.374975	0.4316783	0.05	15.1	20	
Hexachloroethane	A	50.00	47.11	0.5464632	0.5148308		-5.8	20	
Indeno(1,2,3-cd)pyrene	A	50.00	51.86	1.038008	1.076702		3.7	20	
Isophorone	A	50.00	48.14	0.7442763	0.7165637		-3.7	20	
1-Methylnaphthalene	A	50.00	51.95	0.5872691	0.6101528		3.9	20	
2-Methylnaphthalene	A	50.00	51.61	0.5974192	0.616686		3.2	20	
2-Methylphenol	A	50.00	42.45	1.208635	1.026079		-15.1	20	
3-Methylphenol/4-Methylphenol	A	50.00	42.41	1.268409	1.075977		-15.2	20	
4-Nitroaniline	A	50.00	50.20	0.3272887	0.3286173		0.4	20	
3-Nitroaniline	A	50.00	52.55	0.3230815	0.3395678		5.1	20	
2-Nitroaniline	A	50.00	55.99	0.3700237	0.4143639		12.0	20	
Nitrobenzene	A	50.00	51.71	0.4107927	0.4248358		3.4	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F17506	Injection Date:	06/23/11
Lab Sample ID:	1F17506-CCV1	Injection Time:	11:35

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	51.24	0.2721678	0.2788925	0.05	2.5	20
2-Nitrophenol	A	50.00	52.65	0.1941449	0.2044298		5.3	20
N-Nitrosodiphenylamine	A	50.00	48.21	0.6728889	0.6488238		-3.6	20
N-Nitroso-di-n-propylamine	A	50.00	43.94	1.033966	0.9086098	0.05	-12.1	20
Pentachlorophenol	A	50.00	49.02	0.1623094	0.1591258		-2.0	20
Phenanthrene	A	50.00	51.07	1.075866	1.098789		2.1	20
Phenol	A	50.00	50.45	1.687698	1.703052		0.9	20
Pyrene	A	50.00	51.30	1.163766	1.193913		2.6	20
2,4,6-Trichlorophenol	A	50.00	54.50	0.382004	0.4164196		9.0	20
2,4,5-Trichlorophenol	A	50.00	54.95	0.4142645	0.4552432		9.9	20
2-Fluorobiphenyl	A	50.00	52.53	1.265417	1.329515		5.1	20
2-Fluorophenol	A	100.0	94.65	1.142171	1.081056		-5.4	20
Nitrobenzene-d5	A	50.00	49.46	0.4075494	0.4031714		-1.1	20
Phenol-d6	A	100.0	93.25	1.572986	1.466877		-6.7	20
Terphenyl-d14	A	50.00	52.43	0.7462196	0.7825567		4.9	20
2,4,6-Tribromophenol	A	100.0	107.9	0.109869	0.1185343		7.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F17603	Injection Date:	06/24/11
Lab Sample ID:	1F17603-CCV1	Injection Time:	12:37

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	53.35	1.110356	1.184725		6.7	20	
Acenaphthylene	A	50.00	52.01	1.725208	1.794435		4.0	20	
Acetophenone	A	50.00	50.60	1.801986	1.823513		1.2	20	
Anthracene	A	50.00	52.20	1.092671	1.140761		4.4	20	
Atrazine	A	50.00	40.66	0.2344682	0.1906851		-18.7	20	
Benzaldehyde	A	50.00	16.82	1.010105	0.3398719		-66.4	20	*
Benzidine	A	50.00	40.07	0.641297	0.5139391		-19.9	20	
Benzo(a)anthracene	A	50.00	54.93	1.119297	1.229754		9.9	20	
Benzo(a)pyrene	A	50.00	57.76	1.045862	1.208166		15.5	20	
Benzo(b)fluoranthene	A	50.00	72.16	1.093698	1.578422		44.3	20	*
Benzo(g,h,i)perylene	A	50.00	51.67	1.033139	1.067622		3.3	20	
Benzoic acid	A	50.00	51.88	0.2679395	0.2780348		3.8	20	
Benzo(k)fluoranthene	A	50.00	53.71	1.107729	1.189877		7.4	20	
1,1-Biphenyl	A	50.00	48.78	1.444453	1.409144		-2.4	20	
4-Bromophenyl-phenylether	A	50.00	49.94	0.2284778	0.2281971		-0.1	20	
Butylbenzylphthalate	A	50.00	53.07	0.5129818	0.5444947		6.1	20	
Caprolactam	A	50.00	50.97	0.1128421	0.1150393		1.9	20	
Carbazole	A	50.00	49.71	1.044381	1.03841		-0.6	20	
4-Chloro-3-methylphenol	A	50.00	53.37	0.3113523	0.3323187		6.7	20	
4-Chloroaniline	A	50.00	55.80	0.4225325	0.471549		11.6	20	
Bis(2-chloroethoxy)methane	A	50.00	50.88	0.4269873	0.4344777		1.8	20	
Bis(2-chloroethyl)ether	A	50.00	50.00	1.297842	1.29788		0.003	20	
2,2'-Oxybis-1-chloropropane	A	50.00	44.73	1.947114	1.741976		-10.5	20	
2-Chloronaphthalene	A	50.00	68.19	1.087766	1.483564		36.4	20	*
2-Chlorophenol	A	50.00	50.94	1.315004	1.339706		1.9	20	
4-Chlorophenyl phenyl ether	A	50.00	51.20	0.6233489	0.6383383		2.4	20	
Chrysene	A	50.00	51.08	1.047865	1.070557		2.2	20	
Dibenz(a,h)anthracene	A	50.00	53.74	1.004478	1.079671		7.5	20	
Dibenzofuran	A	50.00	52.33	1.535116	1.60669		4.7	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F17603	Injection Date:	06/24/11
Lab Sample ID:	1F17603-CCV1	Injection Time:	12:37

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	52.30	1.182012	1.236297		4.6	20
3,3'-Dichlorobenzidine	A	50.00	63.99	0.4067228	0.5205086		28.0	20 *
2,4-Dichlorophenol	A	50.00	51.51	0.3046728	0.3138516		3.0	20
Diethylphthalate	A	50.00	54.19	1.194731	1.294769		8.4	20
2,4-Dimethylphenol	A	50.00	52.76	0.3636609	0.3837621		5.5	20
Dimethyl phthalate	A	50.00	49.48	1.244441	1.231401		-1.0	20
4,6-Dinitro-2-methylphenol	A	50.00	52.33	0.1454148	0.1521924		4.7	20
2,4-Dinitrophenol	A	50.00	65.83	0.1854397	0.2441589	0.05	31.7	20 *
2,4-Dinitrotoluene	A	50.00	54.39	0.3929838	0.4275136		8.8	20
2,6-Dinitrotoluene	A	50.00	53.23	0.2991862	0.3184847		6.5	20
Di-n-octylphthalate	A	50.00	60.89	1.204345	1.466743		21.8	20 *
1,2-Diphenylhydrazine	A	50.00	44.31	0.8507103	0.7538622		-11.4	20
Bis(2-ethylhexyl)phthalate	A	50.00	53.41	0.6793074	0.7256975		6.8	20
Fluoranthene	A	50.00	47.43	1.233837	1.170369		-5.1	20
Fluorene	A	50.00	48.95	1.337519	1.309473		-2.1	20
Hexachlorobenzene	A	50.00	49.87	0.244362	0.2437183		-0.3	20
Hexachlorobutadiene	A	50.00	57.56	0.1868569	0.2151152		15.1	20
Hexachlorocyclopentadiene	A	50.00	54.41	0.374975	0.4080677	0.05	8.8	20
Hexachloroethane	A	50.00	51.59	0.5464632	0.56387		3.2	20
Indeno(1,2,3-cd)pyrene	A	50.00	53.95	1.038008	1.120005		7.9	20
Isophorone	A	50.00	53.04	0.7442763	0.7894706		6.1	20
1-Methylnaphthalene	A	50.00	52.67	0.5872691	0.6186687		5.3	20
2-Methylnaphthalene	A	50.00	52.53	0.5974192	0.6276224		5.1	20
2-Methylphenol	A	50.00	48.95	1.208635	1.183217		-2.1	20
3-Methylphenol/4-Methylphenol	A	50.00	49.39	1.268409	1.252971		-1.2	20
4-Nitroaniline	A	50.00	45.98	0.3272887	0.3009889		-8.0	20
3-Nitroaniline	A	50.00	54.11	0.3230815	0.349628		8.2	20
2-Nitroaniline	A	50.00	61.35	0.3700237	0.4540496		22.7	20 *
Nitrobenzene	A	50.00	55.80	0.4107927	0.4584741		11.6	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F17603	Injection Date:	06/24/11
Lab Sample ID:	1F17603-CCV1	Injection Time:	12:37

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	60.05	0.2721678	0.3268755	0.05	20.1	20 *
2-Nitrophenol	A	50.00	59.99	0.1941449	0.2329292		20.0	20
N-Nitrosodiphenylamine	A	50.00	46.39	0.6728889	0.624342		-7.2	20
N-Nitroso-di-n-propylamine	A	50.00	48.79	1.033966	1.009044	0.05	-2.4	20
Pentachlorophenol	A	50.00	53.28	0.1623094	0.1729637		6.6	20
Phenanthrene	A	50.00	51.30	1.075866	1.103921		2.6	20
Phenol	A	50.00	52.73	1.687698	1.779696		5.5	20
Pyrene	A	50.00	46.54	1.163766	1.083235		-6.9	20
2,4,6-Trichlorophenol	A	50.00	49.92	0.382004	0.3813697		-0.2	20
2,4,5-Trichlorophenol	A	50.00	50.33	0.4142645	0.4169582		0.7	20
2-Fluorobiphenyl	A	50.00	46.96	1.265417	1.18843		-6.1	20
2-Fluorophenol	A	100.0	96.34	1.142171	1.100392		-3.7	20
Nitrobenzene-d5	A	50.00	52.83	0.4075494	0.4305792		5.7	20
Phenol-d6	A	100.0	97.34	1.572986	1.531148		-2.7	20
Terphenyl-d14	A	50.00	48.82	0.7462196	0.7286174		-2.4	20
2,4,6-Tribromophenol	A	100.0	108.5	0.109869	0.1192271		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

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F18005	Injection Date:	06/28/11
Lab Sample ID:	1F18005-CCV1	Injection Time:	18:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	54.06	1.110356	1.200511		8.1	20
Acenaphthylene	A	50.00	54.31	1.725208	1.874047		8.6	20
Acetophenone	A	50.00	53.72	1.801986	1.936028		7.4	20
Anthracene	A	50.00	52.00	1.092671	1.136474		4.0	20
Atrazine	A	50.00	47.01	0.2344682	0.2204335		-6.0	20
Benzidine	A	50.00	62.36	0.641297	0.7997853		24.7	20 *
Benzo(a)anthracene	A	50.00	53.26	1.119297	1.192295		6.5	20
Benzo(a)pyrene	A	50.00	55.78	1.045862	1.166838		11.6	20
Benzo(b)fluoranthene	A	50.00	59.91	1.093698	1.310469		19.8	20
Benzo(g,h,i)perylene	A	50.00	51.42	1.033139	1.062531		2.8	20
Benzoic acid	A	50.00	40.38	0.2679395	0.2164129		-19.2	20
Benzo(k)fluoranthene	A	50.00	50.63	1.107729	1.121673		1.3	20
1,1-Biphenyl	A	50.00	52.72	1.444453	1.522924		5.4	20
4-Bromophenyl-phenylether	A	50.00	49.73	0.2284778	0.2272367		-0.5	20
Butylbenzylphthalate	A	50.00	50.06	0.5129818	0.5135758		0.1	20
Caprolactam	A	50.00	51.66	0.1128421	0.1165816		3.3	20
Carbazole	A	50.00	50.11	1.044381	1.04666		0.2	20
4-Chloro-3-methylphenol	A	50.00	52.72	0.3113523	0.3282877		5.4	20
4-Chloroaniline	A	50.00	53.66	0.4225325	0.4535062		7.3	20
Bis(2-chloroethoxy)methane	A	50.00	49.49	0.4269873	0.422659		-1.0	20
Bis(2-chloroethyl)ether	A	50.00	49.05	1.297842	1.273198		-1.9	20
2,2'-Oxybis-1-chloropropane	A	50.00	49.25	1.947114	1.917999		-1.5	20
2-Chloronaphthalene	A	50.00	57.61	1.087766	1.253259		15.2	20
2-Chlorophenol	A	50.00	50.37	1.315004	1.324866		0.7	20
4-Chlorophenyl phenyl ether	A	50.00	56.91	0.6233489	0.7095472		13.8	20
Chrysene	A	50.00	51.85	1.047865	1.086632		3.7	20
Dibenz(a,h)anthracene	A	50.00	48.21	1.004478	0.9685699		-3.6	20
Dibenzofuran	A	50.00	54.15	1.535116	1.662498		8.3	20
Di-n-butylphthalate	A	50.00	55.66	1.182012	1.315932		11.3	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F18005	Injection Date:	06/28/11
Lab Sample ID:	1F18005-CCV1	Injection Time:	18:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	64.76	0.4067228	0.5267862		29.5	20 *
2,4-Dichlorophenol	A	50.00	49.75	0.3046728	0.3031733		-0.5	20
Diethylphthalate	A	50.00	59.23	1.194731	1.41523		18.5	20
2,4-Dimethylphenol	A	50.00	51.24	0.3636609	0.3727211		2.5	20
Dimethyl phthalate	A	50.00	52.93	1.244441	1.317415		5.9	20
4,6-Dinitro-2-methylphenol	A	50.00	50.58	0.1454148	0.1471139		1.2	20
2,4-Dinitrophenol	A	50.00	60.10	0.1854397	0.2229116	0.05	20.2	20 *
2,4-Dinitrotoluene	A	50.00	55.58	0.3929838	0.4368044		11.2	20
2,6-Dinitrotoluene	A	50.00	53.17	0.2991862	0.3181816		6.3	20
Di-n-octylphthalate	A	50.00	56.56	1.204345	1.362388		13.1	20
1,2-Diphenylhydrazine	A	50.00	46.90	0.8507103	0.7980514		-6.2	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.81	0.6793074	0.7446626		9.6	20
Fluoranthene	A	50.00	55.14	1.233837	1.360731		10.3	20
Fluorene	A	50.00	55.21	1.337519	1.476794		10.4	20
Hexachlorobenzene	A	50.00	49.30	0.244362	0.2409284		-1.4	20
Hexachlorobutadiene	A	50.00	55.24	0.1868569	0.2064509		10.5	20
Hexachlorocyclopentadiene	A	50.00	54.44	0.374975	0.4082448	0.05	8.9	20
Hexachloroethane	A	50.00	55.11	0.5464632	0.6023278		10.2	20
Indeno(1,2,3-cd)pyrene	A	50.00	46.09	1.038008	0.9569365		-7.8	20
Isophorone	A	50.00	48.92	0.7442763	0.7281948		-2.2	20
1-Methylnaphthalene	A	50.00	52.47	0.5872691	0.6162958		4.9	20
2-Methylnaphthalene	A	50.00	51.90	0.5974192	0.6200831		3.8	20
2-Methylphenol	A	50.00	50.72	1.208635	1.226055		1.4	20
3-Methylphenol/4-Methylphenol	A	50.00	50.21	1.268409	1.273694		0.4	20
4-Nitroaniline	A	50.00	49.93	0.3272887	0.3268448		-0.1	20
3-Nitroaniline	A	50.00	52.21	0.3230815	0.3373826		4.4	20
2-Nitroaniline	A	50.00	58.51	0.3700237	0.432982		17.0	20
Nitrobenzene	A	50.00	51.34	0.4107927	0.4218333		2.7	20
4-Nitrophenol	A	50.00	66.54	0.2721678	0.3622099	0.05	33.1	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F18005	Injection Date:	06/28/11
Lab Sample ID:	1F18005-CCV1	Injection Time:	18:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Nitrophenol	A	50.00	51.52	0.1941449	0.2000555		3.0	20
N-Nitrosodiphenylamine	A	50.00	47.77	0.6728889	0.6428415		-4.5	20
N-Nitroso-di-n-propylamine	A	50.00	52.67	1.033966	1.089217	0.05	5.3	20
Pentachlorophenol	A	50.00	45.96	0.1623094	0.149199		-8.1	20
Phenanthrene	A	50.00	51.87	1.075866	1.11605		3.7	20
Phenol	A	50.00	53.08	1.687698	1.791587		6.2	20
Pyrene	A	50.00	51.36	1.163766	1.195367		2.7	20
2,4,6-Trichlorophenol	A	50.00	53.37	0.382004	0.4077481		6.7	20
2,4,5-Trichlorophenol	A	50.00	53.72	0.4142645	0.4450754		7.4	20
2-Fluorobiphenyl	A	50.00	51.37	1.265417	1.300174		2.7	20
2-Fluorophenol	A	100.0	94.86	1.142171	1.083488		-5.1	20
Nitrobenzene-d5	A	50.00	48.90	0.4075494	0.3985774		-2.2	20
Phenol-d6	A	100.0	99.48	1.572986	1.564757		-0.5	20
Terphenyl-d14	A	50.00	51.51	0.7462196	0.768782		3.0	20
2,4,6-Tribromophenol	A	100.0	102.9	0.109869	0.1130774		2.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/29/11 00:00
Sequence:	1F18005	Injection Date:	06/28/11
Lab Sample ID:	1F18005-CCV2	Injection Time:	19:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzaldehyde	A	50.00	48.07	1.010105	0.9710194		-3.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F18113	Injection Date:	06/30/11
Lab Sample ID:	1F18113-CCV1	Injection Time:	14:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	54.29	1.110356	1.205685		8.6	20
Acenaphthylene	A	50.00	53.90	1.725208	1.859645		7.8	20
Acetophenone	A	50.00	52.72	1.801986	1.899863		5.4	20
Anthracene	A	50.00	52.74	1.092671	1.152451		5.5	20
Atrazine	A	50.00	45.85	0.2344682	0.2149887		-8.3	20
Benzidine	A	50.00	44.74	0.641297	0.5738205		-10.5	20
Benzo(a)anthracene	A	50.00	54.76	1.119297	1.225831		9.5	20
Benzo(a)pyrene	A	50.00	56.78	1.045862	1.187675		13.6	20
Benzo(b)fluoranthene	A	50.00	69.92	1.093698	1.52948		39.8	20 *
Benzo(g,h,i)perylene	A	50.00	50.59	1.033139	1.045254		1.2	20
Benzoic acid	A	50.00	50.36	0.2679395	0.2698689		0.7	20
Benzo(k)fluoranthene	A	50.00	52.20	1.107729	1.156562		4.4	20
1,1-Biphenyl	A	50.00	54.14	1.444453	1.563917		8.3	20
4-Bromophenyl-phenylether	A	50.00	52.93	0.2284778	0.241882		5.9	20
Butylbenzylphthalate	A	50.00	52.10	0.5129818	0.5345151		4.2	20
Caprolactam	A	50.00	49.15	0.1128421	0.1109145		-1.7	20
Carbazole	A	50.00	48.52	1.044381	1.013516		-3.0	20
4-Chloro-3-methylphenol	A	50.00	53.78	0.3113523	0.3349158		7.6	20
4-Chloroaniline	A	50.00	56.69	0.4225325	0.4790319		13.4	20
Bis(2-chloroethoxy)methane	A	50.00	48.16	0.4269873	0.4112515		-3.7	20
Bis(2-chloroethyl)ether	A	50.00	46.58	1.297842	1.2091		-6.8	20
2,2'-Oxybis-1-chloropropane	A	50.00	44.58	1.947114	1.73596		-10.8	20
2-Chloronaphthalene	A	50.00	66.49	1.087766	1.446504		33.0	20 *
2-Chlorophenol	A	50.00	49.45	1.315004	1.300426		-1.1	20
4-Chlorophenyl phenyl ether	A	50.00	58.31	0.6233489	0.726911		16.6	20
Chrysene	A	50.00	48.60	1.047865	1.018548		-2.8	20
Dibenz(a,h)anthracene	A	50.00	53.39	1.004478	1.07262		6.8	20
Dibenzofuran	A	50.00	55.01	1.535116	1.688968		10.0	20
Di-n-butylphthalate	A	50.00	54.11	1.182012	1.279111		8.2	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F18113	Injection Date:	06/30/11
Lab Sample ID:	1F18113-CCV1	Injection Time:	14:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	66.43	0.4067228	0.5403771		32.9	20 *
2,4-Dichlorophenol	A	50.00	51.42	0.3046728	0.3133475		2.8	20
Diethylphthalate	A	50.00	58.59	1.194731	1.400052		17.2	20
2,4-Dimethylphenol	A	50.00	53.16	0.3636609	0.386649		6.3	20
Dimethyl phthalate	A	50.00	52.62	1.244441	1.309617		5.2	20
4,6-Dinitro-2-methylphenol	A	50.00	55.00	0.1454148	0.1599504		10.0	20
2,4-Dinitrophenol	A	50.00	60.28	0.1854397	0.2235537	0.05	20.6	20 *
2,4-Dinitrotoluene	A	50.00	54.94	0.3929838	0.4317781		9.9	20
2,6-Dinitrotoluene	A	50.00	52.35	0.2991862	0.3132202		4.7	20
Di-n-octylphthalate	A	50.00	61.77	1.204345	1.487917		23.5	20 *
1,2-Diphenylhydrazine	A	50.00	47.10	0.8507103	0.8014262		-5.8	20
Bis(2-ethylhexyl)phthalate	A	50.00	52.57	0.6793074	0.71422		5.1	20
Fluoranthene	A	50.00	50.28	1.233837	1.240857		0.6	20
Fluorene	A	50.00	55.46	1.337519	1.483641		10.9	20
Hexachlorobenzene	A	50.00	51.16	0.244362	0.2500383		2.3	20
Hexachlorobutadiene	A	50.00	59.69	0.1868569	0.2230553		19.4	20
Hexachlorocyclopentadiene	A	50.00	59.34	0.374975	0.4450439	0.05	18.7	20
Hexachloroethane	A	50.00	55.93	0.5464632	0.6112364		11.9	20
Indeno(1,2,3-cd)pyrene	A	50.00	53.55	1.038008	1.111742		7.1	20
Isophorone	A	50.00	48.05	0.7442763	0.715185		-3.9	20
1-Methylnaphthalene	A	50.00	52.80	0.5872691	0.6201497		5.6	20
2-Methylnaphthalene	A	50.00	52.83	0.5974192	0.6312576		5.7	20
2-Methylphenol	A	50.00	49.53	1.208635	1.197282		-0.9	20
3-Methylphenol/4-Methylphenol	A	50.00	48.66	1.268409	1.234415		-2.7	20
4-Nitroaniline	A	50.00	49.90	0.3272887	0.3266159		-0.2	20
3-Nitroaniline	A	50.00	52.01	0.3230815	0.3360569		4.0	20
2-Nitroaniline	A	50.00	55.44	0.3700237	0.4102806		10.9	20
Nitrobenzene	A	50.00	52.88	0.4107927	0.4344696		5.8	20
4-Nitrophenol	A	50.00	68.75	0.2721678	0.3742237	0.05	37.5	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1F18113	Injection Date:	06/30/11
Lab Sample ID:	1F18113-CCV1	Injection Time:	14:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Nitrophenol	A	50.00	51.19	0.1941449	0.1987841		2.4	20
N-Nitrosodiphenylamine	A	50.00	48.91	0.6728889	0.6582502		-2.2	20
N-Nitroso-di-n-propylamine	A	50.00	51.38	1.033966	1.062481	0.05	2.8	20
Pentachlorophenol	A	50.00	51.06	0.1623094	0.1657487		2.1	20
Phenanthrene	A	50.00	52.93	1.075866	1.139011		5.9	20
Phenol	A	50.00	55.95	1.687698	1.888501		11.9	20
Pyrene	A	50.00	50.21	1.163766	1.168583		0.4	20
2,4,6-Trichlorophenol	A	50.00	53.34	0.382004	0.4075037		6.7	20
2,4,5-Trichlorophenol	A	50.00	52.55	0.4142645	0.4354035		5.1	20
2-Fluorobiphenyl	A	50.00	51.57	1.265417	1.305223		3.1	20
2-Fluorophenol	A	100.0	96.84	1.142171	1.106066		-3.2	20
Nitrobenzene-d5	A	50.00	50.41	0.4075494	0.4108601		0.8	20
Phenol-d6	A	100.0	99.82	1.572986	1.570161		-0.2	20
Terphenyl-d14	A	50.00	51.90	0.7462196	0.7745783		3.8	20
2,4,6-Tribromophenol	A	100.0	111.6	0.109869	0.1226422		11.6	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_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/29/11 00:00
Sequence:	1F18113	Injection Date:	06/30/11
Lab Sample ID:	1F18113-CCV2	Injection Time:	14:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzaldehyde	A	50.00	44.96	1.010105	0.9082768		-10.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1G18304	Injection Date:	07/01/11
Lab Sample ID:	1G18304-CCV1	Injection Time:	22:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	54.76	1.110356	1.216019		9.5	20
Acenaphthylene	A	50.00	54.64	1.725208	1.885437		9.3	20
Acetophenone	A	50.00	51.98	1.801986	1.87333		4.0	20
Anthracene	A	50.00	53.42	1.092671	1.167422		6.8	20
Atrazine	A	50.00	47.60	0.2344682	0.223199		-4.8	20
Benzidine	A	50.00	64.44	0.641297	0.8264803		28.9	20 *
Benzo(a)anthracene	A	50.00	54.78	1.119297	1.226407		9.6	20
Benzo(a)pyrene	A	50.00	58.19	1.045862	1.217127		16.4	20
Benzo(b)fluoranthene	A	50.00	68.86	1.093698	1.506247		37.7	20 *
Benzo(g,h,i)perylene	A	50.00	52.24	1.033139	1.079423		4.5	20
Benzoic acid	A	50.00	48.75	0.2679395	0.2612335		-2.5	20
Benzo(k)fluoranthene	A	50.00	56.23	1.107729	1.24585		12.5	20
1,1-Biphenyl	A	50.00	53.08	1.444453	1.53335		6.2	20
4-Bromophenyl-phenylether	A	50.00	53.82	0.2284778	0.2459452		7.6	20
Butylbenzylphthalate	A	50.00	53.44	0.5129818	0.5482718		6.9	20
Caprolactam	A	50.00	48.16	0.1128421	0.1086905		-3.7	20
Carbazole	A	50.00	49.72	1.044381	1.038591		-0.6	20
4-Chloro-3-methylphenol	A	50.00	54.48	0.3113523	0.3392365		9.0	20
4-Chloroaniline	A	50.00	57.38	0.4225325	0.4849124		14.8	20
Bis(2-chloroethoxy)methane	A	50.00	50.01	0.4269873	0.4270881		0.02	20
Bis(2-chloroethyl)ether	A	50.00	48.63	1.297842	1.262341		-2.7	20
2,2'-Oxybis-1-chloropropane	A	50.00	48.78	1.947114	1.899682		-2.4	20
2-Chloronaphthalene	A	50.00	61.21	1.087766	1.331737		22.4	20 *
2-Chlorophenol	A	50.00	50.56	1.315004	1.329676		1.1	20
4-Chlorophenyl phenyl ether	A	50.00	58.11	0.6233489	0.7245163		16.2	20
Chrysene	A	50.00	50.22	1.047865	1.052482		0.4	20
Dibenz(a,h)anthracene	A	50.00	54.66	1.004478	1.098062		9.3	20
Dibenzofuran	A	50.00	55.42	1.535116	1.701651		10.8	20
Di-n-butylphthalate	A	50.00	54.47	1.182012	1.287637		8.9	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1G18304	Injection Date:	07/01/11
Lab Sample ID:	1G18304-CCV1	Injection Time:	22:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
3,3'-Dichlorobenzidine	A	50.00	71.05	0.4067228	0.5779156		42.1	20	*
2,4-Dichlorophenol	A	50.00	51.70	0.3046728	0.3150294		3.4	20	
Diethylphthalate	A	50.00	59.20	1.194731	1.414664		18.4	20	
2,4-Dimethylphenol	A	50.00	53.98	0.3636609	0.392572		8.0	20	
Dimethyl phthalate	A	50.00	53.18	1.244441	1.323697		6.4	20	
4,6-Dinitro-2-methylphenol	A	50.00	55.72	0.1454148	0.16205		11.4	20	
2,4-Dinitrophenol	A	50.00	59.95	0.1854397	0.2223312	0.05	19.9	20	
2,4-Dinitrotoluene	A	50.00	55.67	0.3929838	0.4375414		11.3	20	
2,6-Dinitrotoluene	A	50.00	53.96	0.2991862	0.3228901		7.9	20	
Di-n-octylphthalate	A	50.00	63.11	1.204345	1.520148		26.2	20	*
1,2-Diphenylhydrazine	A	50.00	49.54	0.8507103	0.8428247		-0.9	20	
Bis(2-ethylhexyl)phthalate	A	50.00	54.54	0.6793074	0.741037		9.1	20	
Fluoranthene	A	50.00	51.43	1.233837	1.269198		2.9	20	
Fluorene	A	50.00	55.47	1.337519	1.483911		10.9	20	
Hexachlorobenzene	A	50.00	52.49	0.244362	0.2565463		5.0	20	
Hexachlorobutadiene	A	50.00	59.34	0.1868569	0.2217677		18.7	20	
Hexachlorocyclopentadiene	A	50.00	60.29	0.374975	0.4521201	0.05	20.6	20	*
Hexachloroethane	A	50.00	57.01	0.5464632	0.6231184		14.0	20	
Indeno(1,2,3-cd)pyrene	A	50.00	53.23	1.038008	1.104981		6.5	20	
Isophorone	A	50.00	49.83	0.7442763	0.7418159		-0.3	20	
1-Methylnaphthalene	A	50.00	52.88	0.5872691	0.6210937		5.8	20	
2-Methylnaphthalene	A	50.00	53.05	0.5974192	0.6339013		6.1	20	
2-Methylphenol	A	50.00	50.91	1.208635	1.230561		1.8	20	
3-Methylphenol/4-Methylphenol	A	50.00	49.70	1.268409	1.260681		-0.6	20	
4-Nitroaniline	A	50.00	51.53	0.3272887	0.3373213		3.1	20	
3-Nitroaniline	A	50.00	55.16	0.3230815	0.3564235		10.3	20	
2-Nitroaniline	A	50.00	58.45	0.3700237	0.4325863		16.9	20	
Nitrobenzene	A	50.00	53.90	0.4107927	0.4428489		7.8	20	
4-Nitrophenol	A	50.00	70.67	0.2721678	0.384687	0.05	41.3	20	*

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1G18304	Injection Date:	07/01/11
Lab Sample ID:	1G18304-CCV1	Injection Time:	22:18

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Nitrophenol	A	50.00	52.79	0.1941449	0.2049834		5.6	20
N-Nitrosodiphenylamine	A	50.00	50.62	0.6728889	0.6812209		1.2	20
N-Nitroso-di-n-propylamine	A	50.00	52.47	1.033966	1.085071	0.05	4.9	20
Pentachlorophenol	A	50.00	48.91	0.1623094	0.1587585		-2.2	20
Phenanthrene	A	50.00	53.40	1.075866	1.149102		6.8	20
Phenol	A	50.00	57.47	1.687698	1.939735		14.9	20
Pyrene	A	50.00	50.97	1.163766	1.186277		1.9	20
2,4,6-Trichlorophenol	A	50.00	54.36	0.382004	0.4153003		8.7	20
2,4,5-Trichlorophenol	A	50.00	55.13	0.4142645	0.4567524		10.3	20
2-Fluorobiphenyl	A	50.00	52.30	1.265417	1.323699		4.6	20
2-Fluorophenol	A	100.0	98.03	1.142171	1.119665		-2.0	20
Nitrobenzene-d5	A	50.00	52.17	0.4075494	0.4252162		4.3	20
Phenol-d6	A	100.0	103.0	1.572986	1.619411		3.0	20
Terphenyl-d14	A	50.00	52.58	0.7462196	0.7847628		5.2	20
2,4,6-Tribromophenol	A	100.0	113.0	0.109869	0.1240971		13.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/29/11 00:00
Sequence:	1G18304	Injection Date:	07/01/11
Lab Sample ID:	1G18304-CCV2	Injection Time:	23:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzaldehyde	A	50.00	47.22	1.010105	0.9539463		-5.6	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_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1G18605	Injection Date:	07/02/11
Lab Sample ID:	1G18605-CCV1	Injection Time:	15:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	55.20	1.110356	1.225759		10.4	20
Acenaphthylene	A	50.00	54.28	1.725208	1.87298		8.6	20
Acetophenone	A	50.00	51.83	1.801986	1.86779		3.7	20
Anthracene	A	50.00	53.55	1.092671	1.170309		7.1	20
Atrazine	A	50.00	48.16	0.2344682	0.2258564		-3.7	20
Benzidine	A	50.00	53.83	0.641297	0.6903983		7.7	20
Benzo(a)anthracene	A	50.00	54.89	1.119297	1.22873		9.8	20
Benzo(a)pyrene	A	50.00	57.92	1.045862	1.211512		15.8	20
Benzo(b)fluoranthene	A	50.00	72.52	1.093698	1.586297		45.0	20 *
Benzo(g,h,i)perylene	A	50.00	52.52	1.033139	1.085128		5.0	20
Benzoic acid	A	50.00	52.26	0.2679395	0.2800641		4.5	20
Benzo(k)fluoranthene	A	50.00	52.42	1.107729	1.161233		4.8	20
1,1-Biphenyl	A	50.00	52.57	1.444453	1.518829		5.1	20
4-Bromophenyl-phenylether	A	50.00	54.28	0.2284778	0.2480576		8.6	20
Butylbenzylphthalate	A	50.00	53.55	0.5129818	0.5494155		7.1	20
Caprolactam	A	50.00	49.55	0.1128421	0.1118191		-0.9	20
Carbazole	A	50.00	50.17	1.044381	1.047991		0.3	20
4-Chloro-3-methylphenol	A	50.00	54.70	0.3113523	0.3406502		9.4	20
4-Chloroaniline	A	50.00	58.71	0.4225325	0.4961044		17.4	20
Bis(2-chloroethoxy)methane	A	50.00	50.93	0.4269873	0.4349151		1.9	20
Bis(2-chloroethyl)ether	A	50.00	50.45	1.297842	1.309556		0.9	20
2,2'-Oxybis-1-chloropropane	A	50.00	51.56	1.947114	2.007754		3.1	20
2-Chloronaphthalene	A	50.00	63.57	1.087766	1.383079		27.1	20 *
2-Chlorophenol	A	50.00	50.75	1.315004	1.334795		1.5	20
4-Chlorophenyl phenyl ether	A	50.00	57.61	0.6233489	0.7181629		15.2	20
Chrysene	A	50.00	50.18	1.047865	1.051734		0.4	20
Dibenz(a,h)anthracene	A	50.00	55.15	1.004478	1.107993		10.3	20
Dibenzofuran	A	50.00	54.39	1.535116	1.670025		8.8	20
Di-n-butylphthalate	A	50.00	54.73	1.182012	1.293942		9.5	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1G18605	Injection Date:	07/02/11
Lab Sample ID:	1G18605-CCV1	Injection Time:	15:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	70.39	0.4067228	0.5725936		40.8	20 *
2,4-Dichlorophenol	A	50.00	51.34	0.3046728	0.3128574		2.7	20
Diethylphthalate	A	50.00	57.44	1.194731	1.372416		14.9	20
2,4-Dimethylphenol	A	50.00	53.69	0.3636609	0.3905325		7.4	20
Dimethyl phthalate	A	50.00	52.41	1.244441	1.304365		4.8	20
4,6-Dinitro-2-methylphenol	A	50.00	56.31	0.1454148	0.1637633		12.6	20
2,4-Dinitrophenol	A	50.00	59.88	0.1854397	0.2220863	0.05	19.8	20
2,4-Dinitrotoluene	A	50.00	55.01	0.3929838	0.4323767		10.0	20
2,6-Dinitrotoluene	A	50.00	53.08	0.2991862	0.3176293		6.2	20
Di-n-octylphthalate	A	50.00	63.93	1.204345	1.539953		27.9	20 *
1,2-Diphenylhydrazine	A	50.00	51.74	0.8507103	0.8802569		3.5	20
Bis(2-ethylhexyl)phthalate	A	50.00	54.17	0.6793074	0.735986		8.3	20
Fluoranthene	A	50.00	51.86	1.233837	1.279811		3.7	20
Fluorene	A	50.00	54.78	1.337519	1.465308		9.6	20
Hexachlorobenzene	A	50.00	51.38	0.244362	0.2510996		2.8	20
Hexachlorobutadiene	A	50.00	58.16	0.1868569	0.217364		16.3	20
Hexachlorocyclopentadiene	A	50.00	58.88	0.374975	0.44154	0.05	17.8	20
Hexachloroethane	A	50.00	57.75	0.5464632	0.6311593		15.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.88	1.038008	1.139387		9.8	20
Isophorone	A	50.00	49.74	0.7442763	0.7403763		-0.5	20
1-Methylnaphthalene	A	50.00	52.59	0.5872691	0.6176444		5.2	20
2-Methylnaphthalene	A	50.00	52.77	0.5974192	0.6304591		5.5	20
2-Methylphenol	A	50.00	51.72	1.208635	1.250114		3.4	20
3-Methylphenol/4-Methylphenol	A	50.00	49.65	1.268409	1.259624		-0.7	20
4-Nitroaniline	A	50.00	50.75	0.3272887	0.3322087		1.5	20
3-Nitroaniline	A	50.00	55.52	0.3230815	0.3587577		11.0	20
2-Nitroaniline	A	50.00	60.00	0.3700237	0.4440544		20.0	20
Nitrobenzene	A	50.00	54.84	0.4107927	0.4505208		9.7	20
4-Nitrophenol	A	50.00	71.07	0.2721678	0.3868366	0.05	42.1	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1G18605	Injection Date:	07/02/11
Lab Sample ID:	1G18605-CCV1	Injection Time:	15:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Nitrophenol	A	50.00	53.16	0.1941449	0.206424		6.3	20
N-Nitrosodiphenylamine	A	50.00	51.25	0.6728889	0.6897035		2.5	20
N-Nitroso-di-n-propylamine	A	50.00	54.33	1.033966	1.123503	0.05	8.7	20
Pentachlorophenol	A	50.00	48.69	0.1623094	0.1580528		-2.6	20
Phenanthrene	A	50.00	53.64	1.075866	1.154164		7.3	20
Phenol	A	50.00	59.24	1.687698	1.999689		18.5	20
Pyrene	A	50.00	50.10	1.163766	1.166209		0.2	20
2,4,6-Trichlorophenol	A	50.00	52.91	0.382004	0.4042064		5.8	20
2,4,5-Trichlorophenol	A	50.00	54.79	0.4142645	0.4539154		9.6	20
2-Fluorobiphenyl	A	50.00	51.51	1.265417	1.303534		3.0	20
2-Fluorophenol	A	100.0	98.53	1.142171	1.125379		-1.5	20
Nitrobenzene-d5	A	50.00	52.03	0.4075494	0.424063		4.1	20
Phenol-d6	A	100.0	104.3	1.572986	1.640942		4.3	20
Terphenyl-d14	A	50.00	51.46	0.7462196	0.7680828		2.9	20
2,4,6-Tribromophenol	A	100.0	113.6	0.109869	0.1247898		13.6	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_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/29/11 00:00
Sequence:	1G18605	Injection Date:	07/02/11
Lab Sample ID:	1G18605-CCV2	Injection Time:	16:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzaldehyde	A	50.00	45.88	1.010105	0.926941		-8.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1G18908	Injection Date:	07/07/11
Lab Sample ID:	1G18908-CCV1	Injection Time:	13:32

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	48.18	1.110356	1.069842		-3.6	20
Acenaphthylene	A	50.00	53.76	1.725208	1.854771		7.5	20
Acetophenone	A	50.00	48.79	1.801986	1.758428		-2.4	20
Anthracene	A	50.00	53.02	1.092671	1.158736		6.0	20
Atrazine	A	50.00	43.14	0.2344682	0.202298		-13.7	20
Benzidine	A	50.00	53.53	0.641297	0.6865804		7.1	20
Benzo(a)anthracene	A	50.00	55.77	1.119297	1.248492		11.5	20
Benzo(a)pyrene	A	50.00	57.26	1.045862	1.197819		14.5	20
Benzo(b)fluoranthene	A	50.00	70.20	1.093698	1.535523		40.4	20 *
Benzo(g,h,i)perylene	A	50.00	70.38	1.033139	1.454303		40.8	20 *
Benzoic acid	A	50.00	53.44	0.2679395	0.286358		6.9	20
Benzo(k)fluoranthene	A	50.00	49.81	1.107729	1.103488		-0.4	20
1,1-Biphenyl	A	50.00	50.31	1.444453	1.45333		0.6	20
4-Bromophenyl-phenylether	A	50.00	51.64	0.2284778	0.2359753		3.3	20
Butylbenzylphthalate	A	50.00	54.27	0.5129818	0.5567632		8.5	20
Caprolactam	A	50.00	48.31	0.1128421	0.1090298		-3.4	20
Carbazole	A	50.00	49.88	1.044381	1.04192		-0.2	20
4-Chloro-3-methylphenol	A	50.00	50.04	0.3113523	0.3116222		0.09	20
4-Chloroaniline	A	50.00	53.29	0.4225325	0.4503334		6.6	20
Bis(2-chloroethoxy)methane	A	50.00	49.57	0.4269873	0.423303		-0.9	20
Bis(2-chloroethyl)ether	A	50.00	49.39	1.297842	1.282049		-1.2	20
2,2'-Oxybis-1-chloropropane	A	50.00	46.21	1.947114	1.799695		-7.6	20
2-Chloronaphthalene	A	50.00	73.23	1.087766	1.593147		46.5	20 *
2-Chlorophenol	A	50.00	51.85	1.315004	1.363693		3.7	20
4-Chlorophenyl phenyl ether	A	50.00	41.69	0.6233489	0.5197714		-16.6	20
Chrysene	A	50.00	51.74	1.047865	1.084259		3.5	20
Dibenz(a,h)anthracene	A	50.00	70.73	1.004478	1.420869		41.5	20 *
Dibenzofuran	A	50.00	52.38	1.535116	1.608325		4.8	20
Di-n-butylphthalate	A	50.00	54.60	1.182012	1.290662		9.2	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1G18908	Injection Date:	07/07/11
Lab Sample ID:	1G18908-CCV1	Injection Time:	13:32

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
3,3'-Dichlorobenzidine	A	50.00	68.78	0.4067228	0.5595243		37.6	20	*
2,4-Dichlorophenol	A	50.00	51.87	0.3046728	0.3160836		3.7	20	
Diethylphthalate	A	50.00	42.24	1.194731	1.009285		-15.5	20	
2,4-Dimethylphenol	A	50.00	47.65	0.3636609	0.3465595		-4.7	20	
Dimethyl phthalate	A	50.00	51.54	1.244441	1.28266		3.1	20	
4,6-Dinitro-2-methylphenol	A	50.00	57.74	0.1454148	0.1679371		15.5	20	
2,4-Dinitrophenol	A	50.00	65.57	0.1854397	0.2431736	0.05	31.1	20	*
2,4-Dinitrotoluene	A	50.00	54.49	0.3929838	0.4282765		9.0	20	
2,6-Dinitrotoluene	A	50.00	53.42	0.2991862	0.3196671		6.8	20	
Di-n-octylphthalate	A	50.00	59.79	1.204345	1.440147		19.6	20	
1,2-Diphenylhydrazine	A	50.00	48.90	0.8507103	0.8319457		-2.2	20	
Bis(2-ethylhexyl)phthalate	A	50.00	55.69	0.6793074	0.75655		11.4	20	
Fluoranthene	A	50.00	51.81	1.233837	1.278412		3.6	20	
Fluorene	A	50.00	40.21	1.337519	1.075663		-19.6	20	
Hexachlorobenzene	A	50.00	50.16	0.244362	0.2451372		0.3	20	
Hexachlorobutadiene	A	50.00	51.45	0.1868569	0.1922744		2.9	20	
Hexachlorocyclopentadiene	A	50.00	53.77	0.374975	0.4032674	0.05	7.5	20	
Hexachloroethane	A	50.00	51.34	0.5464632	0.5610621		2.7	20	
Indeno(1,2,3-cd)pyrene	A	50.00	68.95	1.038008	1.431463		37.9	20	*
Isophorone	A	50.00	45.46	0.7442763	0.6766902		-9.1	20	
1-Methylnaphthalene	A	50.00	50.04	0.5872691	0.5877401		0.08	20	
2-Methylnaphthalene	A	50.00	51.25	0.5974192	0.6123532		2.5	20	
2-Methylphenol	A	50.00	51.16	1.208635	1.236568		2.3	20	
3-Methylphenol/4-Methylphenol	A	50.00	50.65	1.268409	1.285023		1.3	20	
4-Nitroaniline	A	50.00	39.25	0.3272887	0.2569498		-21.5	20	*
3-Nitroaniline	A	50.00	55.59	0.3230815	0.3592295		11.2	20	
2-Nitroaniline	A	50.00	49.07	0.3700237	0.3631563		-1.9	20	
Nitrobenzene	A	50.00	46.13	0.4107927	0.3789969		-7.7	20	
4-Nitrophenol	A	50.00	56.27	0.2721678	0.3063114	0.05	12.5	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1G18908	Injection Date:	07/07/11
Lab Sample ID:	1G18908-CCV1	Injection Time:	13:32

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Nitrophenol	A	50.00	53.60	0.1941449	0.2081192		7.2	20
N-Nitrosodiphenylamine	A	50.00	50.24	0.6728889	0.6761224		0.5	20
N-Nitroso-di-n-propylamine	A	50.00	47.68	1.033966	0.986033	0.05	-4.6	20
Pentachlorophenol	A	50.00	50.74	0.1623094	0.1647242		1.5	20
Phenanthrene	A	50.00	52.72	1.075866	1.134315		5.4	20
Phenol	A	50.00	54.96	1.687698	1.855111		9.9	20
Pyrene	A	50.00	51.70	1.163766	1.203354		3.4	20
2,4,6-Trichlorophenol	A	50.00	53.17	0.382004	0.40622		6.3	20
2,4,5-Trichlorophenol	A	50.00	54.70	0.4142645	0.4531811		9.4	20
2-Fluorobiphenyl	A	50.00	49.64	1.265417	1.256222		-0.7	20
2-Fluorophenol	A	100.0	91.92	1.142171	1.04985		-8.1	20
Nitrobenzene-d5	A	50.00	44.68	0.4075494	0.3642261		-10.6	20
Phenol-d6	A	100.0	99.11	1.572986	1.558922		-0.9	20
Terphenyl-d14	A	50.00	51.40	0.7462196	0.7671428		2.8	20
2,4,6-Tribromophenol	A	100.0	108.5	0.109869	0.1192336		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

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	04/29/11 00:00
Sequence:	1G18908	Injection Date:	07/07/11
Lab Sample ID:	1G18908-CCV2	Injection Time:	14:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzaldehyde	A	50.00	52.52	1.010105	1.060962		5.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1G19005	Injection Date:	07/08/11
Lab Sample ID:	1G19005-CCV1	Injection Time:	18:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	56.23	1.110356	1.248714		12.5	20	
Acenaphthylene	A	50.00	56.78	1.725208	1.959258		13.6	20	
Acetophenone	A	50.00	53.10	1.801986	1.913658		6.2	20	
Anthracene	A	50.00	55.28	1.092671	1.208031		10.6	20	
Atrazine	A	50.00	48.97	0.2344682	0.2296597		-2.1	20	
Benzaldehyde	A	50.00	44.34	1.010105	0.8956982		-11.3	20	
Benzidine	A	50.00	76.12	0.641297	0.9762814		52.2	20	*
Benzo(a)anthracene	A	50.00	56.17	1.119297	1.25746		12.3	20	
Benzo(a)pyrene	A	50.00	57.91	1.045862	1.211232		15.8	20	
Benzo(b)fluoranthene	A	50.00	65.79	1.093698	1.439195		31.6	20	*
Benzo(g,h,i)perylene	A	50.00	52.71	1.033139	1.08914		5.4	20	
Benzoic acid	A	50.00	53.74	0.2679395	0.2879812		7.5	20	
Benzo(k)fluoranthene	A	50.00	56.18	1.107729	1.244603		12.4	20	
1,1-Biphenyl	A	50.00	54.33	1.444453	1.569496		8.7	20	
4-Bromophenyl-phenylether	A	50.00	52.22	0.2284778	0.2386025		4.4	20	
Butylbenzylphthalate	A	50.00	56.27	0.5129818	0.5773227		12.5	20	
Caprolactam	A	50.00	52.59	0.1128421	0.1186809		5.2	20	
Carbazole	A	50.00	52.26	1.044381	1.091504		4.5	20	
4-Chloro-3-methylphenol	A	50.00	53.62	0.3113523	0.3338974		7.2	20	
4-Chloroaniline	A	50.00	57.58	0.4225325	0.4865832		15.2	20	
Bis(2-chloroethoxy)methane	A	50.00	52.93	0.4269873	0.4520105		5.9	20	
Bis(2-chloroethyl)ether	A	50.00	52.61	1.297842	1.365552		5.2	20	
2,2'-Oxybis-1-chloropropane	A	50.00	53.94	1.947114	2.100637		7.9	20	
2-Chloronaphthalene	A	50.00	76.22	1.087766	1.65821		52.4	20	*
2-Chlorophenol	A	50.00	54.02	1.315004	1.420846		8.0	20	
4-Chlorophenyl phenyl ether	A	50.00	56.56	0.6233489	0.7051656		13.1	20	
Chrysene	A	50.00	51.97	1.047865	1.089068		3.9	20	
Dibenz(a,h)anthracene	A	50.00	54.39	1.004478	1.092675		8.8	20	
Dibenzofuran	A	50.00	56.51	1.535116	1.734867		13.0	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1G19005	Injection Date:	07/08/11
Lab Sample ID:	1G19005-CCV1	Injection Time:	18:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	57.00	1.182012	1.347467		14.0	20
3,3'-Dichlorobenzidine	A	50.00	71.22	0.4067228	0.5793399		42.4	20 *
2,4-Dichlorophenol	A	50.00	52.54	0.3046728	0.3201804		5.1	20
Diethylphthalate	A	50.00	59.25	1.194731	1.41587		18.5	20
2,4-Dimethylphenol	A	50.00	52.94	0.3636609	0.3850501		5.9	20
Dimethyl phthalate	A	50.00	54.63	1.244441	1.359708		9.3	20
4,6-Dinitro-2-methylphenol	A	50.00	58.74	0.1454148	0.170823		17.5	20
2,4-Dinitrophenol	A	50.00	62.74	0.1854397	0.2326907	0.05	25.5	20 *
2,4-Dinitrotoluene	A	50.00	56.99	0.3929838	0.4479008		14.0	20
2,6-Dinitrotoluene	A	50.00	54.51	0.2991862	0.3261457		9.0	20
Di-n-octylphthalate	A	50.00	64.07	1.204345	1.543187		28.1	20 *
1,2-Diphenylhydrazine	A	50.00	50.94	0.8507103	0.8667531		1.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	57.92	0.6793074	0.7868847		15.8	20
Fluoranthene	A	50.00	52.69	1.233837	1.300216		5.4	20
Fluorene	A	50.00	54.96	1.337519	1.470272		9.9	20
Hexachlorobenzene	A	50.00	50.38	0.244362	0.2462125		0.8	20
Hexachlorobutadiene	A	50.00	54.68	0.1868569	0.2043607		9.4	20
Hexachlorocyclopentadiene	A	50.00	59.87	0.374975	0.4490308	0.05	19.7	20
Hexachloroethane	A	50.00	55.77	0.5464632	0.6095027		11.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	52.80	1.038008	1.096212		5.6	20
Isophorone	A	50.00	52.16	0.7442763	0.7763689		4.3	20
1-Methylnaphthalene	A	50.00	53.28	0.5872691	0.6257642		6.6	20
2-Methylnaphthalene	A	50.00	51.73	0.5974192	0.6180308		3.5	20
2-Methylphenol	A	50.00	52.93	1.208635	1.279362		5.9	20
3-Methylphenol/4-Methylphenol	A	50.00	52.31	1.268409	1.327037		4.6	20
4-Nitroaniline	A	50.00	54.58	0.3272887	0.3572809		9.2	20
3-Nitroaniline	A	50.00	57.25	0.3230815	0.3699078		14.5	20
2-Nitroaniline	A	50.00	60.89	0.3700237	0.4506506		21.8	20 *
Nitrobenzene	A	50.00	54.87	0.4107927	0.4508055		9.7	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	04/29/11 00:00
Sequence:	1G19005	Injection Date:	07/08/11
Lab Sample ID:	1G19005-CCV1	Injection Time:	18:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	71.06	0.2721678	0.3868233	0.05	42.1	20 *
2-Nitrophenol	A	50.00	55.19	0.1941449	0.2142882		10.4	20
N-Nitrosodiphenylamine	A	50.00	51.91	0.6728889	0.6985748		3.8	20
N-Nitroso-di-n-propylamine	A	50.00	54.05	1.033966	1.117813	0.05	8.1	20
Pentachlorophenol	A	50.00	51.22	0.1623094	0.1662814		2.4	20
Phenanthrene	A	50.00	55.44	1.075866	1.19295		10.9	20
Phenol	A	50.00	60.46	1.687698	2.040724		20.9	20 *
Pyrene	A	50.00	53.11	1.163766	1.236254		6.2	20
2,4,6-Trichlorophenol	A	50.00	54.07	0.382004	0.4130745		8.1	20
2,4,5-Trichlorophenol	A	50.00	54.55	0.4142645	0.4519637		9.1	20
2-Fluorobiphenyl	A	50.00	52.53	1.265417	1.329407		5.1	20
2-Fluorophenol	A	100.0	105.5	1.142171	1.204938		5.5	20
Nitrobenzene-d5	A	50.00	51.75	0.4075494	0.4218176		3.5	20
Phenol-d6	A	100.0	108.1	1.572986	1.700185		8.1	20
Terphenyl-d14	A	50.00	52.39	0.7462196	0.781861		4.8	20
2,4,6-Tribromophenol	A	100.0	108.9	0.109869	0.1196717		8.9	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_017

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

Matrix: Laboratory ID: 1F15936-BLK1 File ID: F15936B1.D

Sampled: Prepared: Analyzed: 06/22/11 17:03

Solids: Preparation: EXT_3510 Dilution:

Batch: 1F15936 Sequence: 1F17308 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
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	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	X, 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	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	X, 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
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	X, 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	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_017

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

Matrix: Laboratory ID: 1F15936-BLK1 File ID: F15936B1.D

Sampled: Prepared: Analyzed: 06/22/11 17:03

Solids: Preparation: EXT_3510 Dilution:

Batch: 1F15936 Sequence: 1F17308 Calibration: 1122001 Instrument: MS-BNA3

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	U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	X, U
67-72-1	Hexachloroethane		1.25	2.50	5.00	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-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	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	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	28.02	56.0	50 - 110	
2-Fluorophenol	100.0	20.56	20.6	20 - 110	
Nitrobenzene-d5	50.00	27.73	55.5	40 - 110	
Phenol-d6	100.0	11.19	11.2	10 - 110	
Terphenyl-d14	50.00	39.19	78.4	50 - 135	
2,4,6-Tribromophenol	100.0	64.41	64.4	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F15936-BS1 File ID: F15936L1.D

Sampled: Prepared: Analyzed: 06/22/11 17:38

Solids: Preparation: EXT_3510 Dilution:

Batch: 1F15936 Sequence: 1F17308 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	45.19	1.25	2.50	5.00	
208-96-8	Acenaphthylene	38.29	1.25	2.50	5.00	
98-86-2	Acetophenone	41.78	1.25	2.50	5.00	
120-12-7	Anthracene	44.72	1.25	2.50	5.00	
1912-24-9	Atrazine	45.57	1.25	2.50	5.00	
100-52-7	Benzaldehyde	39.39	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene	50.41	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	45.11	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	54.90	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	48.18	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	50.89	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	43.98	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	51.31	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	54.99	1.25	2.50	5.00	
105-60-2	Caprolactam	5.455	1.25	2.50	5.00	
86-74-8	Carbazole	45.26	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	38.42	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	36.18	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	47.67	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	43.46	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	42.88	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	42.71	1.25	2.50	5.00	X
95-57-8	2-Chlorophenol	31.70	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	52.02	1.25	2.50	5.00	
218-01-9	Chrysene	48.23	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	51.84	1.25	2.50	5.00	
132-64-9	Dibenzofuran	47.84	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	50.61	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	48.58	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	38.79	1.25	2.50	5.00	
84-66-2	Diethylphthalate	55.19	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	37.22	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	51.11	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	52.11	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	54.82	12.5	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	52.78	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	49.44	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	56.82	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1F15936-BS1
File ID: F15936L1.D
Sampled:
Prepared:
Analyzed: 06/22/11 17:38
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1F15936
Sequence: 1F17308
Calibration: 1122001
Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	42.62	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	54.68	1.25	2.50	5.00	
206-44-0	Fluoranthene	45.62	1.25	2.50	5.00	
86-73-7	Fluorene	47.71	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	48.55	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	23.11	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	13.96	1.25	2.50	5.00	X
67-72-1	Hexachloroethane	17.71	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	49.36	1.25	2.50	5.00	
78-59-1	Isophorone	35.14	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	36.96	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	38.02	1.25	2.50	5.00	
95-48-7	2-Methylphenol	24.97	1.25	2.50	5.00	
65794-96-9	3-Methylphenol/4-Methylphenol	22.47	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	42.42	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	38.29	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	50.61	5.00	10.0	20.0	
98-95-3	Nitrobenzene	44.13	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	9.389	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	42.74	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	25.21	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	42.92	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	49.28	5.00	10.0	20.0	
85-01-8	Phenanthrene	48.44	1.25	2.50	5.00	
108-95-2	Phenol	10.99	1.25	2.50	5.00	
129-00-0	Pyrene	47.56	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	46.92	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	46.59	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	42.88	85.8	50 - 110	
2-Fluorophenol	100.0	31.87	31.9	20 - 110	
Nitrobenzene-d5	50.00	42.36	84.7	40 - 110	
Phenol-d6	100.0	17.63	17.6	10 - 110	
Terphenyl-d14	50.00	43.66	87.3	50 - 135	
2,4,6-Tribromophenol	100.0	99.28	99.3	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F15936-MS1 File ID: 0615501M.D

Sampled: Prepared: Analyzed: 06/23/11 16:58

Solids: Preparation: EXT_3510 Dilution:

Batch: 1F15936 Sequence: 1F17506 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	35.82	2.31	4.63	9.26	D
208-96-8	Acenaphthylene	29.97	2.31	4.63	9.26	D
98-86-2	Acetophenone	1905	2.31	4.63	9.26	D, E
120-12-7	Anthracene	36.96	2.31	4.63	9.26	D
1912-24-9	Atrazine	29.78	2.31	4.63	9.26	D
100-52-7	Benzaldehyde	38.42	2.31	4.63	9.26	Y, D
92-87-5	Benzidine		23.1	46.3	92.6	X, U
56-55-3	Benzo(a)anthracene	40.11	2.31	4.63	9.26	D
50-32-8	Benzo(a)pyrene	34.87	2.31	4.63	9.26	D
205-99-2	Benzo(b)fluoranthene	39.22	2.31	4.63	9.26	X, D
191-24-2	Benzo(g,h,i)perylene	28.86	2.31	4.63	9.26	D
65-85-0	Benzoic acid	232.3	23.1	46.3	92.6	D, E
207-08-9	Benzo(k)fluoranthene	40.56	2.31	4.63	9.26	D
92-52-4	1,1-Biphenyl	57.88	2.31	4.63	9.26	D
101-55-3	4-Bromophenyl-phenylether	37.94	2.31	4.63	9.26	D
85-68-7	Butylbenzylphthalate	44.75	2.31	4.63	9.26	D
105-60-2	Caprolactam	96.61	2.31	4.63	9.26	Q, D
86-74-8	Carbazole	42.37	2.31	4.63	9.26	D
59-50-7	4-Chloro-3-methylphenol	29.93	2.31	4.63	9.26	D
106-47-8	4-Chloroaniline	12.56	2.31	4.63	9.26	D
111-91-1	Bis(2-chloroethoxy)methane	32.06	2.31	4.63	9.26	D
111-44-4	Bis(2-chloroethyl)ether	33.78	2.31	4.63	9.26	D
108-60-1	2,2'-Oxybis-1-chloropropane	30.00	2.31	4.63	9.26	D
91-58-7	2-Chloronaphthalene	45.98	2.31	4.63	9.26	X, D
95-57-8	2-Chlorophenol	21.08	2.31	4.63	9.26	D
7005-72-3	4-Chlorophenyl phenyl ether	42.93	2.31	4.63	9.26	D
218-01-9	Chrysene	39.22	2.31	4.63	9.26	D
53-70-3	Dibenz(a,h)anthracene	27.42	2.31	4.63	9.26	D
132-64-9	Dibenzofuran	41.20	2.31	4.63	9.26	D
84-74-2	Di-n-butylphthalate	49.00	2.31	4.63	9.26	D
91-94-1	3,3'-Dichlorobenzidine	6.687	2.31	4.63	9.26	X, J, D
120-83-2	2,4-Dichlorophenol	28.13	2.31	4.63	9.26	D
84-66-2	Diethylphthalate	48.14	2.31	4.63	9.26	D
105-67-9	2,4-Dimethylphenol	29.10	9.26	18.5	37.0	J, D
131-11-3	Dimethyl phthalate	40.76	2.31	4.63	9.26	D
534-52-1	4,6-Dinitro-2-methylphenol	30.75	9.26	18.5	37.0	J, D
51-28-5	2,4-Dinitrophenol	35.59	23.1	46.3	92.6	X, J, D
121-14-2	2,4-Dinitrotoluene	42.12	2.31	4.63	9.26	D
606-20-2	2,6-Dinitrotoluene	36.25	2.31	4.63	9.26	D
117-84-0	Di-n-octylphthalate	42.30	2.31	4.63	9.26	D

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_017	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1F15936-MS1	File ID:	0615501M.D
Sampled:		Prepared:		Analyzed:	06/23/11 16:58
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1F15936 Sequence: 1F17506 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	38.49	2.31	4.63	9.26	D
117-81-7	Bis(2-ethylhexyl)phthalate	50.02	2.31	4.63	9.26	D
206-44-0	Fluoranthene	41.26	2.31	4.63	9.26	D
86-73-7	Fluorene	37.35	2.31	4.63	9.26	D
118-74-1	Hexachlorobenzene	35.07	2.31	4.63	9.26	D
87-68-3	Hexachlorobutadiene	31.62	2.31	4.63	9.26	D
77-47-4	Hexachlorocyclopentadiene	15.31	2.31	4.63	9.26	D
67-72-1	Hexachloroethane	27.43	2.31	4.63	9.26	D
193-39-5	Indeno(1,2,3-cd)pyrene	27.01	2.31	4.63	9.26	D
78-59-1	Isophorone	22.36	2.31	4.63	9.26	D
90-12-0	1-Methylnaphthalene	57.53	2.31	4.63	9.26	D
91-57-6	2-Methylnaphthalene	56.52	2.31	4.63	9.26	D
95-48-7	2-Methylphenol	27.00	2.31	4.63	9.26	D
65794-96-9	3-Methylphenol/4-Methylphenol	27.96	2.31	4.63	9.26	D
100-01-6	4-Nitroaniline	22.14	9.26	18.5	37.0	J, D
99-09-2	3-Nitroaniline	19.64	9.26	18.5	37.0	J, D
88-74-4	2-Nitroaniline	53.05	9.26	18.5	37.0	D
98-95-3	Nitrobenzene	92.76	2.31	4.63	9.26	D
100-02-7	4-Nitrophenol	12.52	9.26	18.5	37.0	J, D
88-75-5	2-Nitrophenol	26.82	2.31	4.63	9.26	D
86-30-6	N-Nitrosodiphenylamine	18.45	2.31	4.63	9.26	D
621-64-7	N-Nitroso-di-n-propylamine	33.96	2.31	4.63	9.26	D
87-86-5	Pentachlorophenol	36.10	9.26	18.5	37.0	J, D
85-01-8	Phenanthrene	39.39	2.31	4.63	9.26	D
108-95-2	Phenol		2.31	4.63	9.26	U
129-00-0	Pyrene	44.84	2.31	4.63	9.26	D
88-06-2	2,4,6-Trichlorophenol	41.19	2.31	4.63	9.26	D
95-95-4	2,4,5-Trichlorophenol	41.34	2.31	4.63	9.26	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	39.66	85.7	50 - 110	
2-Fluorophenol	92.59	20.97	22.6	20 - 110	
Nitrobenzene-d5	46.30	33.78	73.0	40 - 110	
Phenol-d6	92.59	34.33	37.1	10 - 110	
Terphenyl-d14	46.30	21.22	45.8	50 - 135	
2,4,6-Tribromophenol	92.59	57.08	61.7	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F15936-MSD1 File ID: 0615501S.D

Sampled: Prepared: Analyzed: 06/23/11 17:34

Solids: Preparation: EXT_3510 Dilution:

Batch: 1F15936 Sequence: 1F17506 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	41.42	2.31	4.63	9.26	D
208-96-8	Acenaphthylene	33.96	2.31	4.63	9.26	D
98-86-2	Acetophenone	2157	2.31	4.63	9.26	D, E
120-12-7	Anthracene	38.65	2.31	4.63	9.26	D
1912-24-9	Atrazine	37.13	2.31	4.63	9.26	D
100-52-7	Benzaldehyde	11.53	2.31	4.63	9.26	Y, D
92-87-5	Benzidine		23.1	46.3	92.6	X, U
56-55-3	Benzo(a)anthracene	42.88	2.31	4.63	9.26	D
50-32-8	Benzo(a)pyrene	37.86	2.31	4.63	9.26	D
205-99-2	Benzo(b)fluoranthene	45.20	2.31	4.63	9.26	X, D
191-24-2	Benzo(g,h,i)perylene	41.43	2.31	4.63	9.26	D
65-85-0	Benzoic acid	278.6	23.1	46.3	92.6	D, E
207-08-9	Benzo(k)fluoranthene	43.63	2.31	4.63	9.26	D
92-52-4	1,1-Biphenyl	44.56	2.31	4.63	9.26	D
101-55-3	4-Bromophenyl-phenylether	46.66	2.31	4.63	9.26	D
85-68-7	Butylbenzylphthalate	49.94	2.31	4.63	9.26	D
105-60-2	Caprolactam	28.57	2.31	4.63	9.26	Q, D
86-74-8	Carbazole	43.82	2.31	4.63	9.26	D
59-50-7	4-Chloro-3-methylphenol	32.55	2.31	4.63	9.26	D
106-47-8	4-Chloroaniline	16.01	2.31	4.63	9.26	D
111-91-1	Bis(2-chloroethoxy)methane	88.80	2.31	4.63	9.26	D
111-44-4	Bis(2-chloroethyl)ether	33.78	2.31	4.63	9.26	D
108-60-1	2,2'-Oxybis-1-chloropropane	35.44	2.31	4.63	9.26	D
91-58-7	2-Chloronaphthalene	40.26	2.31	4.63	9.26	X, D
95-57-8	2-Chlorophenol	25.27	2.31	4.63	9.26	D
7005-72-3	4-Chlorophenyl phenyl ether	46.70	2.31	4.63	9.26	D
218-01-9	Chrysene	42.24	2.31	4.63	9.26	D
53-70-3	Dibenz(a,h)anthracene	38.90	2.31	4.63	9.26	D
132-64-9	Dibenzofuran	44.85	2.31	4.63	9.26	D
84-74-2	Di-n-butylphthalate	52.50	2.31	4.63	9.26	D
91-94-1	3,3'-Dichlorobenzidine	10.54	2.31	4.63	9.26	X, D
120-83-2	2,4-Dichlorophenol	31.23	2.31	4.63	9.26	D
84-66-2	Diethylphthalate	52.04	2.31	4.63	9.26	D
105-67-9	2,4-Dimethylphenol	26.99	9.26	18.5	37.0	J, D
131-11-3	Dimethyl phthalate	44.34	2.31	4.63	9.26	D
534-52-1	4,6-Dinitro-2-methylphenol	36.63	9.26	18.5	37.0	J, D
51-28-5	2,4-Dinitrophenol	36.39	23.1	46.3	92.6	J, D
121-14-2	2,4-Dinitrotoluene	43.72	2.31	4.63	9.26	D
606-20-2	2,6-Dinitrotoluene	40.91	2.31	4.63	9.26	D
117-84-0	Di-n-octylphthalate	52.32	2.31	4.63	9.26	D

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F15936-MSD1 File ID: 0615501S.D

Sampled: Prepared: Analyzed: 06/23/11 17:34

Solids: Preparation: EXT_3510 Dilution:

Batch: 1F15936 Sequence: 1F17506 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	42.65	2.31	4.63	9.26	D
117-81-7	Bis(2-ethylhexyl)phthalate	51.34	2.31	4.63	9.26	D
206-44-0	Fluoranthene	41.90	2.31	4.63	9.26	D
86-73-7	Fluorene	42.22	2.31	4.63	9.26	D
118-74-1	Hexachlorobenzene	45.66	2.31	4.63	9.26	D
87-68-3	Hexachlorobutadiene	33.08	2.31	4.63	9.26	D
77-47-4	Hexachlorocyclopentadiene	15.25	2.31	4.63	9.26	D
67-72-1	Hexachloroethane	28.22	2.31	4.63	9.26	D
193-39-5	Indeno(1,2,3-cd)pyrene	38.30	2.31	4.63	9.26	D
78-59-1	Isophorone	28.65	2.31	4.63	9.26	D
90-12-0	1-Methylnaphthalene	51.18	2.31	4.63	9.26	D
91-57-6	2-Methylnaphthalene	48.49	2.31	4.63	9.26	D
95-48-7	2-Methylphenol	29.31	2.31	4.63	9.26	D
65794-96-9	3-Methylphenol/4-Methylphenol	32.09	2.31	4.63	9.26	D
100-01-6	4-Nitroaniline	25.10	9.26	18.5	37.0	J, D
99-09-2	3-Nitroaniline	21.05	9.26	18.5	37.0	J, D
88-74-4	2-Nitroaniline	48.48	9.26	18.5	37.0	D
98-95-3	Nitrobenzene	34.50	2.31	4.63	9.26	D
100-02-7	4-Nitrophenol	13.46	9.26	18.5	37.0	J, D
88-75-5	2-Nitrophenol	33.16	2.31	4.63	9.26	D
86-30-6	N-Nitrosodiphenylamine	21.14	2.31	4.63	9.26	D
621-64-7	N-Nitroso-di-n-propylamine	42.98	2.31	4.63	9.26	D
87-86-5	Pentachlorophenol	46.63	9.26	18.5	37.0	D
85-01-8	Phenanthrene	41.60	2.31	4.63	9.26	D
108-95-2	Phenol	13.05	2.31	4.63	9.26	D
129-00-0	Pyrene	50.64	2.31	4.63	9.26	D
88-06-2	2,4,6-Trichlorophenol	38.55	2.31	4.63	9.26	D
95-95-4	2,4,5-Trichlorophenol	35.44	2.31	4.63	9.26	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	35.81	77.3	50 - 110	
2-Fluorophenol	92.59	29.61	32.0	20 - 110	
Nitrobenzene-d5	46.30	39.56	85.5	40 - 110	
Phenol-d6	92.59	34.94	37.7	10 - 110	
Terphenyl-d14	46.30	22.66	48.9	50 - 135	
2,4,6-Tribromophenol	92.59	67.20	72.6	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F22013-BLK1 File ID: F22013B1.D

Sampled: Prepared: Analyzed: 06/24/11 13:49

Solids: Preparation: EXT_3510 Dilution:

Batch: 1F22013 Sequence: 1F17603 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
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	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	X, 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	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	X, 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
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	X, 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	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	X, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F22013-BLK1 File ID: F22013B1.D

Sampled: Prepared: Analyzed: 06/24/11 13:49

Solids: Preparation: EXT_3510 Dilution:

Batch: 1F22013 Sequence: 1F17603 Calibration: 1122001 Instrument: MS-BNA3

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	U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	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-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	X, U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	X, U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	Q, 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	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	35.99	72.0	50 - 110	
2-Fluorophenol	100.0	31.83	31.8	20 - 110	
Nitrobenzene-d5	50.00	38.58	77.2	40 - 110	
Phenol-d6	100.0	19.88	19.9	10 - 110	
Terphenyl-d14	50.00	48.28	96.6	50 - 135	
2,4,6-Tribromophenol	100.0	92.02	92.0	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F22013-BS1 File ID: F22013L1.D

Sampled: Prepared: Analyzed: 06/24/11 15:01

Solids: Preparation: EXT_3510 Dilution:

Batch: 1F22013 Sequence: 1F17603 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	45.67	1.25	2.50	5.00	
208-96-8	Acenaphthylene	38.92	1.25	2.50	5.00	
98-86-2	Acetophenone	42.67	1.25	2.50	5.00	
120-12-7	Anthracene	43.02	1.25	2.50	5.00	
1912-24-9	Atrazine	42.32	1.25	2.50	5.00	
100-52-7	Benzaldehyde	35.39	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene	48.66	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	42.94	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	54.11	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	48.87	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	47.63	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	45.94	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	48.55	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	51.88	1.25	2.50	5.00	
105-60-2	Caprolactam	5.653	1.25	2.50	5.00	
86-74-8	Carbazole	43.38	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	39.97	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	34.09	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	48.38	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	43.52	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	41.73	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	46.28	1.25	2.50	5.00	X
95-57-8	2-Chlorophenol	33.86	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	52.59	1.25	2.50	5.00	
218-01-9	Chrysene	45.36	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	48.32	1.25	2.50	5.00	
132-64-9	Dibenzofuran	48.38	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	49.71	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	47.13	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	40.25	1.25	2.50	5.00	
84-66-2	Diethylphthalate	56.13	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	40.20	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	51.84	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	51.96	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	56.13	12.5	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	51.81	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	48.87	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	55.14	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_017

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

Matrix: | Laboratory ID: 1F22013-BS1 | File ID: F22013L1.D

Sampled: | Prepared: | Analyzed: 06/24/11 15:01

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1F22013 | Sequence: 1F17603 | Calibration: 1122001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	45.63	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	51.03	1.25	2.50	5.00	
206-44-0	Fluoranthene	45.27	1.25	2.50	5.00	
86-73-7	Fluorene	47.62	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	45.99	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	36.77	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	18.46	1.25	2.50	5.00	
67-72-1	Hexachloroethane	28.22	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	52.66	1.25	2.50	5.00	
78-59-1	Isophorone	34.89	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	39.86	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	41.63	1.25	2.50	5.00	
95-48-7	2-Methylphenol	28.21	1.25	2.50	5.00	
65794-96-9	3-Methylphenol/4-Methylphenol	25.60	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	43.53	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	38.88	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	51.78	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	45.15	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	12.37	5.00	10.0	20.0	X, J
88-75-5	2-Nitrophenol	43.07	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	23.69	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	42.79	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	46.81	5.00	10.0	20.0	
85-01-8	Phenanthrene	47.06	1.25	2.50	5.00	
108-95-2	Phenol	13.65	1.25	2.50	5.00	
129-00-0	Pyrene	45.06	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	47.89	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	48.03	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	45.09	90.2	50 - 110	
2-Fluorophenol	100.0	41.08	41.1	20 - 110	
Nitrobenzene-d5	50.00	44.51	89.0	40 - 110	
Phenol-d6	100.0	23.56	23.6	10 - 110	
Terphenyl-d14	50.00	43.70	87.4	50 - 135	
2,4,6-Tribromophenol	100.0	96.74	96.7	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Matrix: Laboratory ID: 1F22013-BSD1 File ID: F22013L2.D

Sampled: Prepared: Analyzed: 06/24/11 15:37

Solids: Preparation: EXT_3510 Dilution:

Batch: 1F22013 Sequence: 1F17603 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	43.86	1.25	2.50	5.00	
208-96-8	Acenaphthylene	37.42	1.25	2.50	5.00	
98-86-2	Acetophenone	40.65	1.25	2.50	5.00	
120-12-7	Anthracene	41.55	1.25	2.50	5.00	
1912-24-9	Atrazine	39.97	1.25	2.50	5.00	
100-52-7	Benzaldehyde	33.30	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene	46.86	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	41.61	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	52.46	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	43.24	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	46.38	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	42.98	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	47.57	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	50.66	1.25	2.50	5.00	
105-60-2	Caprolactam	5.960	1.25	2.50	5.00	
86-74-8	Carbazole	41.17	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	37.36	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	34.13	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	46.25	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	43.91	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	40.62	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	44.59	1.25	2.50	5.00	X
95-57-8	2-Chlorophenol	33.77	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	50.55	1.25	2.50	5.00	
218-01-9	Chrysene	43.36	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	45.65	1.25	2.50	5.00	
132-64-9	Dibenzofuran	46.29	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	46.30	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	44.67	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	38.12	1.25	2.50	5.00	
84-66-2	Diethylphthalate	52.37	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	37.73	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	49.11	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	49.15	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	53.96	12.5	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	48.87	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	46.84	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	56.19	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_017

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

Matrix: | Laboratory ID: 1F22013-BSD1 | File ID: F22013L2.D

Sampled: | Prepared: | Analyzed: 06/24/11 15:37

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1F22013 | Sequence: 1F17603 | Calibration: 1122001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	43.49	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	48.60	1.25	2.50	5.00	
206-44-0	Fluoranthene	42.77	1.25	2.50	5.00	
86-73-7	Fluorene	45.39	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	44.40	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	35.54	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	17.95	1.25	2.50	5.00	
67-72-1	Hexachloroethane	27.95	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	44.97	1.25	2.50	5.00	
78-59-1	Isophorone	33.13	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	39.05	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	40.70	1.25	2.50	5.00	
95-48-7	2-Methylphenol	27.39	1.25	2.50	5.00	
65794-96-9	3-Methylphenol/4-Methylphenol	25.17	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	40.64	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	37.64	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	47.99	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	42.91	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	11.07	5.00	10.0	20.0	X, J
88-75-5	2-Nitrophenol	41.59	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	23.28	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	41.14	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	44.98	5.00	10.0	20.0	
85-01-8	Phenanthrene	44.86	1.25	2.50	5.00	
108-95-2	Phenol	13.46	1.25	2.50	5.00	
129-00-0	Pyrene	43.76	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	45.75	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	45.14	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.50	87.0	50 - 110	
2-Fluorophenol	100.0	38.15	38.1	20 - 110	
Nitrobenzene-d5	50.00	41.48	83.0	40 - 110	
Phenol-d6	100.0	22.38	22.4	10 - 110	
Terphenyl-d14	50.00	41.90	83.8	50 - 135	
2,4,6-Tribromophenol	100.0	91.93	91.9	40 - 125	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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
GW0046	06/13/11 12:38	06/14/11 09:00	06/17/11 11:40	3.92	7.00	06/24/11 17:56	7.26	40.00	
GW0046	06/13/11 12:38	06/14/11 09:00	06/17/11 11:40	3.92	7.00	06/30/11 18:16	13.28	40.00	
GW0082	06/15/11 12:06	06/16/11 09:00	06/17/11 11:40	1.94	7.00	07/07/11 22:47	20.46	40.00	
GW0082	06/15/11 12:06	06/16/11 09:00	06/17/11 11:40	1.94	7.00	07/08/11 22:56	21.47	40.00	
GW0094	06/16/11 10:31	06/17/11 09:00	06/23/11 12:15	7.03	7.00	07/02/11 08:53	8.86	40.00	
GW0094	06/16/11 10:31	06/17/11 09:00	06/23/11 12:15	7.03	7.00	07/03/11 01:24	9.55	40.00	
GW0096	06/17/11 13:56	06/18/11 11:00	06/23/11 12:15	5.89	7.00	06/29/11 04:16	5.67	40.00	
GW0095	06/20/11 11:22	06/21/11 09:00	06/23/11 12:15	3.00	7.00	06/29/11 04:50	5.69	40.00	

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17504	Instrument:	GL-GCVOA
Calibration:	1175001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1F17504-CAL7	004F0401.D	03/29/11 13:07
Cal Standard	1F17504-CAL8	005F0501.D	03/29/11 13:44
Cal Standard	1F17504-CAL9	006F0601.D	03/29/11 14:21
Cal Standard	1F17504-CALA	007F0701.D	03/29/11 14:59
Cal Standard	1F17504-CALB	008F0801.D	03/29/11 15:37
Cal Standard	1F17504-CALC	009F0901.D	03/29/11 16:13
Cal Standard	1F17504-CAL1	004F0401.D	06/23/11 16:35
Cal Standard	1F17504-CAL2	005F0501.D	06/23/11 17:12
Cal Standard	1F17504-CAL3	006F0601.D	06/23/11 17:48
Cal Standard	1F17504-CAL4	007F0701.D	06/23/11 18:25
Cal Standard	1F17504-CAL5	008F0801.D	06/23/11 19:01
Cal Standard	1F17504-CAL6	009F0901.D	06/23/11 19:37
Initial Cal Check	1F17504-ICV1	010F1001.D	06/23/11 20:12

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17909	Instrument:	GL-GCVOA
Calibration:	1175001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1F17909-CCV1	011F1101.D	06/23/11 20:48
Blank	1F23024-BLK1	013F1301.D	06/23/11 21:58
LCS	1F23024-BS1	014F1401.D	06/23/11 22:34
LCS Dup	1F23024-BSD1	015F1501.D	06/23/11 23:10
GW0095	1106203-01	024F2401.D	06/24/11 04:35
Calibration Check	1F17909-CCV2	026F2601.D	06/24/11 05:45

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F18004	Instrument:	GL-GCVOA
Calibration:	1175001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1F18004-CCV1	003F0301.D	06/25/11 13:00
Blank	1F24019-BLK1	004F0401.D	06/25/11 13:35
LCS	1F24019-BS1	005F0501.D	06/25/11 14:10
GW0046	1106155-01	008F0801.D	06/25/11 15:57
GW0046	1F24019-MS1	009F0901.D	06/25/11 16:32
GW0046	1F24019-MSD1	010F1001.D	06/25/11 17:07
GW0082	1106179-01	011F1101.D	06/25/11 17:42
GW0094	1106188-01	012F1201.D	06/25/11 18:17
GW0096	1106195-01	013F1301.D	06/25/11 18:53
Calibration Check	1F18004-CCV2	014F1401.D	06/25/11 19:28

ANALYSIS DATA SHEET

GW0046

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-01	File ID:	008F0801.D
Sampled:	06/13/11 12:38	Prepared:	06/24/11 16:10	Analyzed:	06/25/11 15:57
Solids:		Preparation:	8015GRO	Dilution:	10

Batch: 1F24019 Sequence: 1F18004 Calibration: 1175001 Instrument: GL-GCVOA

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	15.8	0.500	1.00	1.50	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06674	133	50 - 150	X

ANALYSIS DATA SHEET

GW0082

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-01	File ID:	011F1101.D
Sampled:	06/15/11 12:06	Prepared:	06/24/11 16:10	Analyzed:	06/25/11 17:42
Solids:		Preparation:	8015GRO	Dilution:	20

Batch: 1F24019 Sequence: 1F18004 Calibration: 1175001 Instrument: GL-GCVOA

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	35.8	1.00	2.00	3.00	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07198	144	50 - 150	X

ANALYSIS DATA SHEET

GW0094

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-01	File ID:	012F1201.D
Sampled:	06/16/11 10:31	Prepared:	06/24/11 16:10	Analyzed:	06/25/11 18:17
Solids:		Preparation:	8015GRO	Dilution:	25

Batch: 1F24019 Sequence: 1F18004 Calibration: 1175001 Instrument: GL-GCVOA

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	52.7	1.25	2.50	3.75	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.08460	169	50 - 150	*X

ANALYSIS DATA SHEET

GW0096

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106195-01	File ID:	013F1301.D
Sampled:	06/17/11 13:56	Prepared:	06/24/11 16:10	Analyzed:	06/25/11 18:53
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1F24019 Sequence: 1F18004 Calibration: 1175001 Instrument: GL-GCVOA

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	0.07018	140	50 - 150	X

ANALYSIS DATA SHEET

GW0095

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106203-01	File ID:	024F2401.D
Sampled:	06/20/11 11:22	Prepared:	06/23/11 15:48	Analyzed:	06/24/11 04:35
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1F23024 Sequence: 1F17909 Calibration: 1175001 Instrument: GL-GCVOA

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.130	0.0500	0.100	0.150	X, J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.02269	45.4	50 - 150	*Y

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F23024	Laboratory ID:	1F23024-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	0.6145	123	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	0.6288	126	2.31	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F24019	Laboratory ID:	1F24019-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	0.6739	135	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F24019

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	5.000	15.85	21.73	118		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)	5.000	21.53	114	0.915		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F23024 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0095	1106203-01	06/23/11 15:48	5.00	5.00
Blank	1F23024-BLK1	06/23/11 15:48	5.00	5.00
LCS	1F23024-BS1	06/23/11 15:48	5.00	5.00
LCS Dup	1F23024-BSD1	06/23/11 15:48	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F24019 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0046	1106155-01	06/24/11 16:10	5.00	5.00
GW0082	1106179-01	06/24/11 16:10	5.00	5.00
GW0094	1106188-01	06/24/11 16:10	5.00	5.00
GW0096	1106195-01	06/24/11 16:10	5.00	5.00
Blank	1F24019-BLK1	06/24/11 16:10	5.00	5.00
LCS	1F24019-BS1	06/24/11 16:10	5.00	5.00
GW0046	1F24019-MS1	06/24/11 16:10	5.00	5.00
GW0046	1F24019-MSD1	06/24/11 16:10	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17504	Instrument:	GL-GCVOA
Calibration:	1175001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11C0841	GRO Cal 0.1ppm	1F17504-CAL7	004F0401.D	03/29/11 13:07
11C0842	GRO Cal 0.2ppm	1F17504-CAL8	005F0501.D	03/29/11 13:44
11C0843	GRO Cal 0.5ppm	1F17504-CAL9	006F0601.D	03/29/11 14:21
11C0844	GRO Cal 1.0ppm	1F17504-CALA	007F0701.D	03/29/11 14:59
11C0845	GRO Cal 2.0ppm	1F17504-CALB	008F0801.D	03/29/11 15:37
11C0846	GRO Cal 5.0ppm	1F17504-CALC	009F0901.D	03/29/11 16:13
11F0732	GRO Cal 0.1ppm	1F17504-CAL1	004F0401.D	06/23/11 16:35
11F0733	GRO Cal 0.2ppm	1F17504-CAL2	005F0501.D	06/23/11 17:12
11F0734	GRO Cal 0.5ppm	1F17504-CAL3	006F0601.D	06/23/11 17:48
11F0735	GRO Cal 1.0ppm	1F17504-CAL4	007F0701.D	06/23/11 18:25
11F0736	GRO Cal 2.0ppm	1F17504-CAL5	008F0801.D	06/23/11 19:01
11F0737	GRO Cal 5.0ppm	1F17504-CAL6	009F0901.D	06/23/11 19:37

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1175001	Instrument:	GL-GCVOA	
Matrix:	Water	Calibration Dates:	3/29/11_13:07	6/23/11_19:37

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	0.1	7263170	0.2	7343295	0.5	4694816	1	~~2222742~~	2	6166250	5	7686052
Bromofluorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1175001	Instrument:	GL-GCVOA
Matrix:	Water	Calibration Dates:	3/29/11 13:07 6/23/11 19:37

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
Gasoline Range Organics (C6-C10	0.1		0.2		0.5		1		2		5	
Bromofluorobenzene	0.01	7839100	0.02	7382200	0.05	4291240	0.1	4079290	0.2	3154520	0.5	3580396

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1175001	Instrument:	GL-GCVOA	
Matrix:	Water	Calibration Dates:	3/29/11 13:07	6/23/11 19:37

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
Gasoline Range Organics (C6-C10												
Bromofluorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_016	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1175001	Instrument:	GL-GCVOA	
Matrix:	Water	Calibration Dates:	3/29/11 13:07	6/23/11 19:37

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	6630717	18.44758	6.89	1.735618E-02			20	
Bromofluorobenzene	5054458	40.04954	17.61517	3.507575E-02	0.99698009		0.995	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA	Calibration:	1175001
Lab File ID:	010F1001.D	Calibration Date:	06/23/11 00:00
Sequence:	1F17504	Injection Date:	06/23/11
Lab Sample ID:	1F17504-ICV1	Injection Time:	20:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5983	6630717	7934128		19.7	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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA	Calibration:	1175001
Lab File ID:	011F1101.D	Calibration Date:	06/23/11 00:00
Sequence:	1F17909	Injection Date:	06/23/11
Lab Sample ID:	1F17909-CCV1	Injection Time:	20:48

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5440	6630717	7214882		8.8	20
Bromofluorobenzene	L	0.05000	0.04849	5054458	4118340		-3.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA	Calibration:	1175001
Lab File ID:	026F2601.D	Calibration Date:	06/23/11 00:00
Sequence:	1F17909	Injection Date:	06/24/11
Lab Sample ID:	1F17909-CCV2	Injection Time:	05:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.6214	6630717	8241138		24.3	20 *
Bromofluorobenzene	L	0.05000	0.02261	5054458	2330960		-54.8	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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA	Calibration:	1175001
Lab File ID:	003F0301.D	Calibration Date:	06/23/11 00:00
Sequence:	1F18004	Injection Date:	06/25/11
Lab Sample ID:	1F18004-CCV1	Injection Time:	13:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5514	6630717	7312932		10.3	20
Bromofluorobenzene	L	0.05000	0.07858	5054458	6196320		57.2	20 *

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA	Calibration:	1175001
Lab File ID:	014F1401.D	Calibration Date:	06/23/11 00:00
Sequence:	1F18004	Injection Date:	06/25/11
Lab Sample ID:	1F18004-CCV2	Injection Time:	19:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5890	6630717	7810918		17.8	20
Bromofluorobenzene	L	0.05000	0.07059	5054458	5644980		41.2	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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17909	Instrument:	GL-GCVOA
		Calibration:	1175001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F17909-CCV1) ug/mL				Lab File ID: 011F1101.D		Analyzed: 06/23/11 20:48		
Bromofluorobenzene	0.05000	97.0	80 - 120	17.6	17.6	0.0000	+/-0.210	
Blank (1F23024-BLK1) mg/L				Lab File ID: 013F1301.D		Analyzed: 06/23/11 21:58		
Bromofluorobenzene	0.05000	65.1	50 - 150	17.6	17.6	0.0000	+/-0.210	
LCS (1F23024-BS1) mg/L				Lab File ID: 014F1401.D		Analyzed: 06/23/11 22:34		
Bromofluorobenzene	0.05000	72.4	50 - 150	17.606	17.6	0.0060	+/-0.210	
LCS Dup (1F23024-BSD1) mg/L				Lab File ID: 015F1501.D		Analyzed: 06/23/11 23:10		
Bromofluorobenzene	0.05000	69.4	50 - 150	17.613	17.6	0.0130	+/-0.210	
GW0095 (1106203-01) mg/L				Lab File ID: 024F2401.D		Analyzed: 06/24/11 04:35		
Bromofluorobenzene	0.05000	45.4	50 - 150	17.61	17.6	0.0100	+/-0.210	*
Calibration Check (1F17909-CCV2) ug/mL				Lab File ID: 026F2601.D		Analyzed: 06/24/11 05:45		
Bromofluorobenzene	0.05000	45.2	80 - 120	17.59	17.6	-0.0100	+/-0.210	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F18004	Instrument:	GL-GCVOA
		Calibration:	1175001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F18004-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 06/25/11 13:00		
Bromofluorobenzene	0.05000	157	80 - 120	17.616	17.616	0.0000	+/-0.210	*
Blank (1F24019-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 06/25/11 13:35		
Bromofluorobenzene	0.05000	151	50 - 150	17.613	17.616	-0.0030	+/-0.210	*
LCS (1F24019-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 06/25/11 14:10		
Bromofluorobenzene	0.05000	116	50 - 150	17.616	17.616	0.0000	+/-0.210	
GW0046 (1106155-01) mg/L				Lab File ID: 008F0801.D		Analyzed: 06/25/11 15:57		
Bromofluorobenzene	0.05000	133	50 - 150	17.61	17.616	-0.0060	+/-0.210	
Matrix Spike (1F24019-MS1) mg/L				Lab File ID: 009F0901.D		Analyzed: 06/25/11 16:32		
Bromofluorobenzene	0.05000	138	50 - 150	17.61	17.616	-0.0060	+/-0.210	
Matrix Spike Dup (1F24019-MSD1) mg/L				Lab File ID: 010F1001.D		Analyzed: 06/25/11 17:07		
Bromofluorobenzene	0.05000	132	50 - 150	17.61	17.616	-0.0060	+/-0.210	
GW0082 (1106179-01) mg/L				Lab File ID: 011F1101.D		Analyzed: 06/25/11 17:42		
Bromofluorobenzene	0.05000	144	50 - 150	17.61	17.616	-0.0060	+/-0.210	
GW0094 (1106188-01) mg/L				Lab File ID: 012F1201.D		Analyzed: 06/25/11 18:17		
Bromofluorobenzene	0.05000	169	50 - 150	17.613	17.616	-0.0030	+/-0.210	*
GW0096 (1106195-01) mg/L				Lab File ID: 013F1301.D		Analyzed: 06/25/11 18:53		
Bromofluorobenzene	0.05000	140	50 - 150	17.61	17.616	-0.0060	+/-0.210	
Calibration Check (1F18004-CCV2) ug/mL				Lab File ID: 014F1401.D		Analyzed: 06/25/11 19:28		
Bromofluorobenzene	0.05000	141	80 - 120	17.613	17.616	-0.0030	+/-0.210	*

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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
GW0046	06/13/11 12:38	06/14/11 09:00	06/24/11 16:10	N/A	14.00	06/25/11 15:57	12.10	14.00	
GW0082	06/15/11 12:06	06/16/11 09:00	06/24/11 16:10	N/A	14.00	06/25/11 17:42	10.19	14.00	
GW0094	06/16/11 10:31	06/17/11 09:00	06/24/11 16:10	N/A	14.00	06/25/11 18:17	9.28	14.00	
GW0096	06/17/11 13:56	06/18/11 11:00	06/24/11 16:10	N/A	14.00	06/25/11 18:53	8.16	14.00	
GW0095	06/20/11 11:22	06/21/11 09:00	06/23/11 15:48	N/A	14.00	06/24/11 04:35	3.68	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_017	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1F23024-BLK1	File ID:	013F1301.D
Sampled:		Prepared:		Analyzed:	06/23/11 21:58
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1F23024 Sequence: 1F17909 Calibration: 1175001 Instrument: GL-GCVOA

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03255	65.1	50 - 150	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1F23024-BS1	File ID:	014F1401.D
Sampled:		Prepared:		Analyzed:	06/23/11 22:34
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1F23024	Sequence:	1F17909	Calibration:	1175001	Instrument:	GL-GCVOA

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.6145	0.0500	0.100	0.150	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03619	72.4	50 - 150	Y

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1F23024-BSD1	File ID:	015F1501.D
Sampled:		Prepared:		Analyzed:	06/23/11 23:10
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1F23024 Sequence: 1F17909 Calibration: 1175001 Instrument: GL-GCVOA

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.6288	0.0500	0.100	0.150	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03472	69.4	50 - 150	Y

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1F24019-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	06/25/11 13:35
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1F24019 Sequence: 1F18004 Calibration: 1175001 Instrument: GL-GCVOA

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	0.07563	151	50 - 150	X

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1F24019-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	06/25/11 14:10
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1F24019 Sequence: 1F18004 Calibration: 1175001 Instrument: GL-GCVOA

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.6739	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05822	116	50 - 150	X

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_017	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1F24019-MS1	File ID:	009F0901.D
Sampled:		Prepared:		Analyzed:	06/25/11 16:32
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1F24019 Sequence: 1F18004 Calibration: 1175001 Instrument: GL-GCVOA

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	21.73	0.500	1.00	1.50	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06904	138	50 - 150	X

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_017	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1F24019-MSD1	File ID:	010F1001.D
Sampled:		Prepared:		Analyzed:	06/25/11 17:07
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1F24019 Sequence: 1F18004 Calibration: 1175001 Instrument: GL-GCVOA

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	21.53	0.500	1.00	1.50	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06606	132	50 - 150	X

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCVOA

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

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17813	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1F17813-CCV1	003B0301.D	06/22/11 19:23
Blank	1F15933-BLK1	005B0501.D	06/22/11 20:31
LCS	1F15933-BS1	006B0601.D	06/22/11 21:05
Calibration Check	1F17813-CCV2	013B1301.D	06/23/11 01:05

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17906	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1F17906-CCV1	003B0301.D	06/23/11 13:42
GW0046	1106155-01	006B0601.D	06/23/11 15:26
GW0046	1F15933-MS1	007B0701.D	06/23/11 16:01
GW0046	1F15933-MSD1	008B0801.D	06/23/11 16:35
Calibration Check	1F17906-CCV2	009B0901.D	06/23/11 17:10

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17924	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1F17924-CCV1	010B1001.D	06/25/11 20:38
Blank	1F21030-BLK1	011B1101.D	06/25/11 21:12
LCS	1F21030-BS1	012B1201.D	06/25/11 21:46
LCS Dup	1F21030-BSD1	013B1301.D	06/25/11 22:20
GW0096	1106195-01	016B1601.D	06/26/11 00:04
GW0095	1106203-01	017B1701.D	06/26/11 00:38
Calibration Check	1F17924-CCV2	018B1801.D	06/26/11 01:12

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18215	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1G18215-CCV1	003B0301.D	06/29/11 17:09
GW0082	1106179-01	004B0401.D	06/29/11 17:43
GW0094	1106188-01	005B0501.D	06/29/11 18:18
Calibration Check	1G18215-CCV2	006B0601.D	06/29/11 18:52

ANALYSIS DATA SHEET

GW0046

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-01	File ID:	006B0601.D
Sampled:	06/13/11 12:38	Prepared:	06/15/11 15:15	Analyzed:	06/23/11 15:26
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 1F15933 Sequence: 1F17906 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	14.0	1.85	1.85	1.85	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01852	0.000		30 - 140	*X, U

ANALYSIS DATA SHEET

GW0082

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-01	File ID:	004B0401.D
Sampled:	06/15/11 12:06	Prepared:	06/22/11 17:15	Analyzed:	06/29/11 17:43
Solids:		Preparation:	EXT_3510	Dilution:	25

Batch: 1F21030 Sequence: 1G18215 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	39.0	2.36	2.36	2.36	Q, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01278	67.7	30 - 140	D

ANALYSIS DATA SHEET

GW0094

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-01	File ID:	005B0501.D
Sampled:	06/16/11 10:31	Prepared:	06/22/11 17:15	Analyzed:	06/29/11 18:18
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 1F21030 Sequence: 1G18215 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	140	9.35	9.35	9.35	Q, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01869	0.000		30 - 140	DU

ANALYSIS DATA SHEET

GW0096

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106195-01	File ID:	016B1601.D
Sampled:	06/17/11 13:56	Prepared:	06/22/11 17:15	Analyzed:	06/26/11 00:04
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1F21030 Sequence: 1F17924 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	Q, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01869	0.01797	96.1	30 - 140	

ANALYSIS DATA SHEET

GW0095

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106203-01	File ID:	017B1701.D
Sampled:	06/20/11 11:22	Prepared:	06/22/11 17:15	Analyzed:	06/26/11 00:38
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1F21030 Sequence: 1F17924 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	Q, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01937	103	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F15933	Laboratory ID:	1F15933-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	0.5044	50.4	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F21030	Laboratory ID:	1F21030-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	0.5017	50.2	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**	**0.4471**	**44.7 ***	**11.5**	**50**	**50 - 150**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B DRO

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F15933

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Diesel Range Organics (C10-C28)	0.9434	14.02	14.89	92.0		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	17.54	372	16.3	*	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F15933 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0046	1106155-01	06/15/11 15:15	1,080.00	1.00
Blank	1F15933-BLK1	06/15/11 15:15	1,000.00	1.00
LCS	1F15933-BS1	06/15/11 15:15	1,000.00	1.00
GW0046	1F15933-MS1	06/15/11 15:15	1,060.00	1.00
GW0046	1F15933-MSD1	06/15/11 15:15	1,060.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F21030 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0082	1106179-01	06/22/11 17:15	1,060.00	1.00
GW0094	1106188-01	06/22/11 17:15	1,070.00	1.00
GW0096	1106195-01	06/22/11 17:15	1,070.00	1.00
GW0095	1106203-01	06/22/11 17:15	1,060.00	1.00
Blank	1F21030-BLK1	06/22/11 17:15	1,000.00	1.00
LCS	1F21030-BS1	06/22/11 17:15	1,000.00	1.00
LCS Dup	1F21030-BSD1	06/22/11 17:15	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1038002	Instrument:	GL-GCFID	
Matrix:	Water	Calibration Dates:	2/4/11_11:28	2/4/11_14:16

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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1038002	Instrument:	GL-GCFID	
Matrix:	Water	Calibration Dates:	2/4/11 11:28	2/4/11 14:16

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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
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:	1F17813	Injection Date:	06/22/11
Lab Sample ID:	1F17813-CCV1	Injection Time:	19:23

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	891.4	1614.785	1439.434		-10.9	20
o-Terphenyl	A	50.00	61.18	1932.292	2364.32		22.4	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
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:	1F17813	Injection Date:	06/23/11
Lab Sample ID:	1F17813-CCV2	Injection Time:	01:05

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	973.8	1614.785	1572.496		-2.6	20
o-Terphenyl	A	50.00	62.36	1932.292	2409.98		24.7	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
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:	1F17906	Injection Date:	06/23/11
Lab Sample ID:	1F17906-CCV1	Injection Time:	13:42

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	905.1	1614.785	1461.52		-9.5	20
o-Terphenyl	A	50.00	61.37	1932.292	2371.66		22.7	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
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:	1F17906	Injection Date:	06/23/11
Lab Sample ID:	1F17906-CCV2	Injection Time:	17:10

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	909.4	1614.785	1468.463		-9.1	20
o-Terphenyl	A	50.00	62.82	1932.292	2427.6		25.6	20 *

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	010B1001.D	Calibration Date:	02/04/11 11:28
Sequence:	1F17924	Injection Date:	06/25/11
Lab Sample ID:	1F17924-CCV1	Injection Time:	20:38

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1086	1614.785	1753.541		8.6	20
o-Terphenyl	A	50.00	55.53	1932.292	2146.16		11.1	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	018B1801.D	Calibration Date:	02/04/11 11:28
Sequence:	1F17924	Injection Date:	06/26/11
Lab Sample ID:	1F17924-CCV2	Injection Time:	01:12

		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	1786.079		10.6	20
o-Terphenyl	A	50.00	56.24	1932.292	2173.52		12.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
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:	1G18215	Injection Date:	06/29/11
Lab Sample ID:	1G18215-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	1183	1614.785	1911.011		18.3	20
o-Terphenyl	A	50.00	44.06	1932.292	1702.64		-11.9	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	006B0601.D	Calibration Date:	02/04/11 11:28
Sequence:	1G18215	Injection Date:	06/29/11
Lab Sample ID:	1G18215-CCV2	Injection Time:	18:52

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1168	1614.785	1886.14		16.8	20
o-Terphenyl	A	50.00	44.97	1932.292	1737.92		-10.1	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17813	Instrument:	GL-GCFID
		Calibration:	1038002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F17813-CCV1) mg/L				Lab File ID: 003B0301.D		Analyzed: 06/22/11 19:23		
o-Terphenyl	50.00	122	80 - 120	10.966	10.966	0.0000	+/-0.050	*
Blank (1F15933-BLK1) mg/L				Lab File ID: 005B0501.D		Analyzed: 06/22/11 20:31		
o-Terphenyl	0.02000	84.8	30 - 140	10.966	10.966	0.0000	+/-0.050	
LCS (1F15933-BS1) mg/L				Lab File ID: 006B0601.D		Analyzed: 06/22/11 21:05		
o-Terphenyl	0.02000	90.5	30 - 140	10.953	10.966	-0.0130	+/-0.050	
Calibration Check (1F17813-CCV2) mg/L				Lab File ID: 013B1301.D		Analyzed: 06/23/11 01:05		
o-Terphenyl	50.00	125	80 - 120	10.953	10.966	-0.0130	+/-0.050	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17906	Instrument:	GL-GCFID
		Calibration:	1038002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F17906-CCV1) mg/L				Lab File ID: 003B0301.D		Analyzed: 06/23/11 13:42		
o-Terphenyl	50.00	123	80 - 120	11.006	11.006	0.0000	+/-0.050	*
GW0046 (1106155-01) mg/L				Lab File ID: 006B0601.D		Analyzed: 06/23/11 15:26		
o-Terphenyl	0.01852		30 - 140		11.006	-11.0060	+/-0.050	*
Matrix Spike (1F15933-MS1) mg/L				Lab File ID: 007B0701.D		Analyzed: 06/23/11 16:01		
o-Terphenyl	0.01887	741	30 - 140	10.99	11.006	-0.0160	+/-0.050	*
Matrix Spike Dup (1F15933-MSD1) mg/L				Lab File ID: 008B0801.D		Analyzed: 06/23/11 16:35		
o-Terphenyl	0.01887	165	30 - 140	10.983	11.006	-0.0230	+/-0.050	*
Calibration Check (1F17906-CCV2) mg/L				Lab File ID: 009B0901.D		Analyzed: 06/23/11 17:10		
o-Terphenyl	50.00	126	80 - 120	10.98	11.006	-0.0260	+/-0.050	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17924	Instrument:	GL-GCFID
		Calibration:	1038002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1F17924-CCV1) mg/L				Lab File ID: 010B1001.D		Analyzed: 06/25/11 20:38		
o-Terphenyl	50.00	111	80 - 120	10.906	10.906	0.0000	+/-0.050	
Blank (1F21030-BLK1) mg/L				Lab File ID: 011B1101.D		Analyzed: 06/25/11 21:12		
o-Terphenyl	0.02000	79.0	30 - 140	10.91	10.906	0.0040	+/-0.050	
LCS (1F21030-BS1) mg/L				Lab File ID: 012B1201.D		Analyzed: 06/25/11 21:46		
o-Terphenyl	0.02000	63.5	30 - 140	10.9	10.906	-0.0060	+/-0.050	
LCS Dup (1F21030-BSD1) mg/L				Lab File ID: 013B1301.D		Analyzed: 06/25/11 22:20		
o-Terphenyl	0.02000	57.8	30 - 140	10.9	10.906	-0.0060	+/-0.050	
GW0096 (1106195-01) mg/L				Lab File ID: 016B1601.D		Analyzed: 06/26/11 00:04		
o-Terphenyl	0.01869	96.1	30 - 140	10.9	10.906	-0.0060	+/-0.050	
GW0095 (1106203-01) mg/L				Lab File ID: 017B1701.D		Analyzed: 06/26/11 00:38		
o-Terphenyl	0.01887	103	30 - 140	10.896	10.906	-0.0100	+/-0.050	
Calibration Check (1F17924-CCV2) mg/L				Lab File ID: 018B1801.D		Analyzed: 06/26/11 01:12		
o-Terphenyl	50.00	112	80 - 120	10.91	10.906	0.0040	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18215	Instrument:	GL-GCFID
		Calibration:	1038002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1G18215-CCV1) mg/L				Lab File ID: 003B0301.D		Analyzed: 06/29/11 17:09		
o-Terphenyl	50.00	88.1	80 - 120	10.966	10.966	0.0000	+/-0.050	
GW0082 (1106179-01) mg/L				Lab File ID: 004B0401.D		Analyzed: 06/29/11 17:43		
o-Terphenyl	0.01887	67.7	30 - 140	11.013	10.966	0.0470	+/-0.050	
GW0094 (1106188-01) mg/L				Lab File ID: 005B0501.D		Analyzed: 06/29/11 18:18		
o-Terphenyl	0.01869		30 - 140		10.966	-10.9660	+/-0.050	*
Calibration Check (1G18215-CCV2) mg/L				Lab File ID: 006B0601.D		Analyzed: 06/29/11 18:52		
o-Terphenyl	50.00	89.9	80 - 120	10.96	10.966	-0.0060	+/-0.050	

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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
GW0046	06/13/11 12:38	06/14/11 09:00	06/15/11 15:15	2.07	7.00	06/23/11 15:26	8.01	40.00	
GW0082	06/15/11 12:06	06/16/11 09:00	06/22/11 17:15	7.17	7.00	06/29/11 17:43	7.02	40.00	
GW0094	06/16/11 10:31	06/17/11 09:00	06/22/11 17:15	6.24	7.00	06/29/11 18:18	7.04	40.00	
GW0096	06/17/11 13:56	06/18/11 11:00	06/22/11 17:15	5.10	7.00	06/26/11 00:04	3.28	40.00	
GW0095	06/20/11 11:22	06/21/11 09:00	06/22/11 17:15	2.20	7.00	06/26/11 00:38	3.31	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1F15933-BLK1	File ID:	005B0501.D
Sampled:		Prepared:		Analyzed:	06/22/11 20:31
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1F15933	Sequence:	1F17813	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	0.01695	84.8	30 - 140	X

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1F15933-BS1	File ID:	006B0601.D
Sampled:		Prepared:		Analyzed:	06/22/11 21:05
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1F15933	Sequence:	1F17813	Calibration:	1038002	Instrument:	GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5044	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01809	90.5	30 - 140	X

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1F15933-MS1	File ID:	007B0701.D
Sampled:		Prepared:		Analyzed:	06/23/11 16:01
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1F15933 Sequence: 1F17906 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	14.89	1.89	1.89	1.89	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.1399	741	30 - 140	X

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1F15933-MSD1
File ID: 008B0801.D
Sampled:
Prepared:
Analyzed: 06/23/11 16:35
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1F15933
Sequence: 1F17906
Calibration: 1038002
Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	17.54	1.89	1.89	1.89	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.03113	165	30 - 140	X

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1F21030-BLK1	File ID:	011B1101.D
Sampled:		Prepared:		Analyzed:	06/25/11 21:12
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1F21030	Sequence:	1F17924	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	Q, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01580	79.0	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1F21030-BS1	File ID:	012B1201.D
Sampled:		Prepared:		Analyzed:	06/25/11 21:46
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1F21030 Sequence: 1F17924 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5017	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01271	63.5	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1F21030-BSD1	File ID:	013B1301.D
Sampled:		Prepared:		Analyzed:	06/25/11 22:20
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1F21030	Sequence:	1F17924	Calibration:	1038002	Instrument:	GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.4471	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01157	57.8	30 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
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 DRO

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1D11806	Instrument:	GL-ECD2
Calibration:	1118002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1D11806-CAL1	003R0101.D	04/26/11 12:07
Cal Standard	1D11806-CAL1	003F0101.D	04/26/11 12:07
Cal Standard	1D11806-CAL2	004R0101.D	04/26/11 12:23
Cal Standard	1D11806-CAL2	004F0101.D	04/26/11 12:23
Cal Standard	1D11806-CAL3	005R0101.D	04/26/11 12:44
Cal Standard	1D11806-CAL3	005F0101.D	04/26/11 12:44
Cal Standard	1D11806-CAL4	006R0101.D	04/26/11 13:05
Cal Standard	1D11806-CAL4	006F0101.D	04/26/11 13:05
Cal Standard	1D11806-CAL5	007R0101.D	04/26/11 13:27
Cal Standard	1D11806-CAL5	007F0101.D	04/26/11 13:27
Cal Standard	1D11806-CAL6	008R0101.D	04/26/11 13:48
Cal Standard	1D11806-CAL6	008F0101.D	04/26/11 13:48
Initial Cal Check	1D11806-ICV1	009R0101.D	04/26/11 14:10
Initial Cal Check	1D11806-ICV1	009F0101.D	04/26/11 14:10

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17305	Instrument:	GL-ECD2
Calibration:	1118002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1F17305-CCV1	002R0101.D	06/21/11 13:22
Calibration Check	1F17305-CCV1	002F0101.D	06/21/11 13:22
Blank	1F21014-BLK1	004R0101.D	06/21/11 14:00
LCS	1F21014-BS1	005F0101.D	06/21/11 14:21
LCS	1F21014-BS1	005R0101.D	06/21/11 14:21
LCS Dup	1F21014-BSD1	006R0101.D	06/21/11 14:42
LCS Dup	1F21014-BSD1	006F0101.D	06/21/11 14:42
GW0046	1F21014-MS1	007R0101.D	06/21/11 15:04
GW0046	1F21014-MS1	007F0101.D	06/21/11 15:04
GW0046	1F21014-MSD1	008F0101.D	06/21/11 15:25
GW0046	1F21014-MSD1	008R0101.D	06/21/11 15:25
GW0046	1106155-01	012R0101.D	06/21/11 16:50
GW0046	1106155-01	012F0101.D	06/21/11 16:50
GW0096	1106195-01	015R0101.D	06/21/11 17:54
GW0096	1106195-01	015F0101.D	06/21/11 17:54
Calibration Check	1F17305-CCV2	016R0101.D	06/21/11 18:15
Calibration Check	1F17305-CCV2	016F0101.D	06/21/11 18:15

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17403	Instrument:	GL-ECD2
Calibration:	1118002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1F17403-CCV1	002R0101.D	06/22/11 14:30
Calibration Check	1F17403-CCV1	002F0101.D	06/22/11 14:30
GW0046	1106155-01RE1	006R0101.D	06/22/11 15:56
GW0046	1106155-01RE1	006F0101.D	06/22/11 15:56
GW0082	1106179-01RE1	007R0101.D	06/22/11 16:17
GW0082	1106179-01RE1	007F0101.D	06/22/11 16:17
GW0094	1106188-01RE1	008R0101.D	06/22/11 16:39
GW0094	1106188-01RE1	008F0101.D	06/22/11 16:39
Calibration Check	1F17403-CCV2	009R0101.D	06/22/11 17:00
Calibration Check	1F17403-CCV2	009F0101.D	06/22/11 17:00

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G19407	Instrument:	GL-ECD2
Calibration:	1118002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1G19407-CCV1	002R0101.D	07/01/11 13:45
Calibration Check	1G19407-CCV1	002F0101.D	07/01/11 13:45
Blank	1G01001-BLK1	004R0101.D	07/01/11 14:28
Blank	1G01001-BLK1	004F0101.D	07/01/11 14:28
LCS	1G01001-BS1	005R0101.D	07/01/11 14:50
LCS	1G01001-BS1	005F0101.D	07/01/11 14:50
LCS Dup	1G01001-BSD1	006R0101.D	07/01/11 15:12
LCS Dup	1G01001-BSD1	006F0101.D	07/01/11 15:12
GW0095	1106203-01	007R0101.D	07/01/11 15:33
GW0095	1106203-01	007F0101.D	07/01/11 15:33
Calibration Check	1G19407-CCV2	008R0101.D	07/01/11 15:55
Calibration Check	1G19407-CCV2	008F0101.D	07/01/11 15:55

ANALYSIS DATA SHEET

GW0046

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-01	File ID:	012R0101.D
Sampled:	06/13/11 12:38	Prepared:	06/21/11 09:27	Analyzed:	06/21/11 16:50
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1F21014 Sequence: 1F17305 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	25.9	0.00935	0.0187	0.0281	E

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0046

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-01RE1	File ID:	006R0101.D
Sampled:	06/13/11 12:38	Prepared:	06/21/11 09:27	Analyzed:	06/22/11 15:56
Solids:		Preparation:	EDB	Dilution:	100

Batch: 1F21014 Sequence: 1F17403 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	51.9	0.935	1.87	2.81	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0082

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-01RE1	File ID:	007F0101.D
Sampled:	06/15/11 12:06	Prepared:	06/21/11 09:27	Analyzed:	06/22/11 16:17
Solids:		Preparation:	EDB	Dilution:	200

Batch: 1F21014 Sequence: 1F17403 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	148	1.87	3.74	5.60	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0094

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-01RE1	File ID:	008F0101.D
Sampled:	06/16/11 10:31	Prepared:	06/21/11 09:27	Analyzed:	06/22/11 16:39
Solids:		Preparation:	EDB	Dilution:	500

Batch: 1F21014 Sequence: 1F17403 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	360	4.70	9.39	14.1	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0096

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106195-01	File ID:	015F0101.D
Sampled:	06/17/11 13:56	Prepared:	06/21/11 09:27	Analyzed:	06/21/11 17:54
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1F21014 Sequence: 1F17305 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.286	0.00942	0.0188	0.0283	P

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0095

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106203-01	File ID:	007F0101.D
Sampled:	06/20/11 11:22	Prepared:	07/01/11 08:27	Analyzed:	07/01/11 15:33
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1G01001 Sequence: 1G19407 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.302	0.00936	0.0187	0.0281	

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F21014	Laboratory ID:	1F21014-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	0.4878	97.6	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5309	106	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5246	105	7.28	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5554	111	4.52	20	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1G01001	Laboratory ID:	1G01001-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	0.5731	115	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5147	103	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5398	108	5.99	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4988	99.8	3.14	20	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F21014

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.4728	19.61	20.29	143	*	70 - 130
1,2-Dibromoethane [2C]	0.4728	25.92	27.17	263	*	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.4685	19.56	-10.7	3.64	*	20	70 - 130
1,2-Dibromoethane [2C]	0.4685	26.33	86.3	3.14		20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F21014 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0046	1106155-01	06/21/11 09:27	37.43	35.00
GW0046	1106155-01RE1	06/21/11 09:27	37.43	35.00
GW0082	1106179-01RE1	06/21/11 09:27	37.48	35.00
GW0094	1106188-01RE1	06/21/11 09:27	37.27	35.00
GW0096	1106195-01	06/21/11 09:27	37.15	35.00
Blank	1F21014-BLK1	06/21/11 09:27	35.00	35.00
LCS	1F21014-BS1	06/21/11 09:27	35.00	35.00
LCS Dup	1F21014-BSD1	06/21/11 09:27	35.00	35.00
GW0046	1F21014-MS1	06/21/11 09:27	37.01	35.00
GW0046	1F21014-MSD1	06/21/11 09:27	37.35	35.00

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1G01001 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0095	1106203-01	07/01/11 08:27	37.38	35.00
Blank	1G01001-BLK1	07/01/11 08:27	35.00	35.00
LCS	1G01001-BS1	07/01/11 08:27	35.00	35.00
LCS Dup	1G01001-BSD1	07/01/11 08:27	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1F21014-BLK1	File ID:	004R0101.D
Sampled:		Prepared:	06/21/11 09:27	Analyzed:	06/21/11 14:00
Solids:		Preparation:	EDB	Dilution:	

Batch: 1F21014 Sequence: 1F17305 Calibration: 1118002 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

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1G01001-BLK1	File ID:	004F0101.D
Sampled:		Prepared:	07/01/11 08:27	Analyzed:	07/01/11 14:28
Solids:		Preparation:	EDB	Dilution:	

Batch: 1G01001 Sequence: 1G19407 Calibration: 1118002 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_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1D11806	Instrument:	GL-ECD2
Calibration:	1118002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11D0621	EDB ICAL 1 (0.03ppb)	1D11806-CAL1	003R0101.D	04/26/11 12:07
11D0621	EDB ICAL 1 (0.03ppb)	1D11806-CAL1	003F0101.D	04/26/11 12:07
11D0622	EDB ICAL 2 (0.05ppb)	1D11806-CAL2	004R0101.D	04/26/11 12:23
11D0622	EDB ICAL 2 (0.05ppb)	1D11806-CAL2	004F0101.D	04/26/11 12:23
11D0623	EDB ICAL 3 (0.10ppb)	1D11806-CAL3	005R0101.D	04/26/11 12:44
11D0623	EDB ICAL 3 (0.10ppb)	1D11806-CAL3	005F0101.D	04/26/11 12:44
11D0624	EDB ICAL 4 (0.20ppb)	1D11806-CAL4	006R0101.D	04/26/11 13:05
11D0624	EDB ICAL 4 (0.20ppb)	1D11806-CAL4	006F0101.D	04/26/11 13:05
11D0625	EDB ICAL 5 (0.50ppb)/CCV	1D11806-CAL5	007R0101.D	04/26/11 13:27
11D0625	EDB ICAL 5 (0.50ppb)/CCV	1D11806-CAL5	007F0101.D	04/26/11 13:27
11D0626	EDB ICAL 6 (1.00ppb)	1D11806-CAL6	008R0101.D	04/26/11 13:48
11D0626	EDB ICAL 6 (1.00ppb)	1D11806-CAL6	008F0101.D	04/26/11 13:48

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1118002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	4/26/11_12:07	4/26/11_13:48

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	0.03	11666.67	0.05	13000	0.1	14970	0.2	13020	0.5	11516	1	11342
1,2-Dibromoethane [2C]	0.03	30200	0.05	36160	0.1	37010	0.2	34535	0.5	31338	1	30084
1,2-Dibromo-3-chloropropane	0.03	16800	0.05	21540	0.1	20560	0.2	21680	0.5	19172	1	18131
1,2-Dibromo-3-chloropropane [2C]	0.03	73000	0.05	70700	0.1	68990	0.2	68840	0.5	70438	1	70415

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1118002	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	4/26/11 12:07	4/26/11 13:48

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	12585.78	10.99857	1.744167	0.3001279	0.99878		CCC ()	*
1,2-Dibromoethane [2C]	33221.17	9.251799	0.6746667	0.5104924			CCC ()	*
1,2-Dibromo-3-chloropropane	19647.17	9.968561	7.306833	8.658577E-02			CCC ()	*
1,2-Dibromo-3-chloropropane [2C]	70397.17	2.132975	4.458	0.2389413			CCC ()	*

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1118002
Lab File ID:	009F0101.D	Calibration Date:	04/26/11 00:00
Sequence:	1D11806	Injection Date:	04/26/11
Lab Sample ID:	1D11806-ICV1	Injection Time:	14:10

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5687	12585.78	13112		13.7	20
1,2-Dibromoethane [2C]	A	0.5000	0.5058	33221.17	33608		1.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1118002
Lab File ID:	002F0101.D	Calibration Date:	04/26/11 00:00
Sequence:	1F17305	Injection Date:	06/21/11
Lab Sample ID:	1F17305-CCV1	Injection Time:	13:22

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4356	12585.78	10134		-12.9	20
1,2-Dibromoethane [2C]	A	0.5000	0.4928	33221.17	32746		-1.4	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1118002
Lab File ID:	016F0101.D	Calibration Date:	04/26/11 00:00
Sequence:	1F17305	Injection Date:	06/21/11
Lab Sample ID:	1F17305-CCV2	Injection Time:	18:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5831	12585.78	13434		16.6	20
1,2-Dibromoethane [2C]	A	0.5000	0.4793	33221.17	31844		-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

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1118002
Lab File ID:	002F0101.D	Calibration Date:	04/26/11 00:00
Sequence:	1F17403	Injection Date:	06/22/11
Lab Sample ID:	1F17403-CCV1	Injection Time:	14:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4964	12585.78	11494		-0.7	20
1,2-Dibromoethane [2C]	A	0.5000	0.4672	33221.17	31042		-6.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1118002
Lab File ID:	009F0101.D	Calibration Date:	04/26/11 00:00
Sequence:	1F17403	Injection Date:	06/22/11
Lab Sample ID:	1F17403-CCV2	Injection Time:	17:00

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4926	12585.78	11410		-1.5	20
1,2-Dibromoethane [2C]	A	0.5000	0.5118	33221.17	34006		2.4	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1118002
Lab File ID:	002F0101.D	Calibration Date:	04/26/11 00:00
Sequence:	1G19407	Injection Date:	07/01/11
Lab Sample ID:	1G19407-CCV1	Injection Time:	13:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5117	12585.78	11836		2.3	20
1,2-Dibromoethane [2C]	A	0.5000	0.5107	33221.17	33934		2.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1118002
Lab File ID:	008F0101.D	Calibration Date:	04/26/11 00:00
Sequence:	1G19407	Injection Date:	07/01/11
Lab Sample ID:	1G19407-CCV2	Injection Time:	15:55

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5608	12585.78	12936		12.2	20
1,2-Dibromoethane [2C]	A	0.5000	0.5299	33221.17	35210		6.0	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_017

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
GW0046	06/13/11 12:38	06/14/11 09:00	06/21/11 09:27	N/A	14.00	06/21/11 16:50	8.13	14.00	
GW0046	06/13/11 12:38	06/14/11 09:00	06/21/11 09:27	N/A	14.00	06/22/11 15:56	9.10	14.00	
GW0082	06/15/11 12:06	06/16/11 09:00	06/21/11 09:27	N/A	14.00	06/22/11 16:17	7.13	14.00	
GW0094	06/16/11 10:31	06/17/11 09:00	06/21/11 09:27	N/A	14.00	06/22/11 16:39	6.21	14.00	
GW0096	06/17/11 13:56	06/18/11 11:00	06/21/11 09:27	N/A	14.00	06/21/11 17:54	4.12	14.00	
GW0095	06/20/11 11:22	06/21/11 09:00	07/01/11 08:27	N/A	14.00	07/01/11 15:33	11.13	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1F21014-BS1	File ID:	005F0101.D
Sampled:		Prepared:		Analyzed:	06/21/11 14:21
Solids:		Preparation:	EDB	Dilution:	

Batch:	1F21014	Sequence:	1F17305	Calibration:	1118002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4878	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1F21014-BS1	File ID:	005R0101.D
Sampled:		Prepared:		Analyzed:	06/21/11 14:21
Solids:		Preparation:	EDB	Dilution:	

Batch:	1F21014	Sequence:	1F17305	Calibration:	1118002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5309	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1F21014-BSD1	File ID:	006F0101.D
Sampled:		Prepared:		Analyzed:	06/21/11 14:42
Solids:		Preparation:	EDB	Dilution:	

Batch:	1F21014	Sequence:	1F17305	Calibration:	1118002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5246	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1F21014-BSD1	File ID:	006R0101.D
Sampled:		Prepared:		Analyzed:	06/21/11 14:42
Solids:		Preparation:	EDB	Dilution:	

Batch:	1F21014	Sequence:	1F17305	Calibration:	1118002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5554	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1F21014-MS1	File ID:	007F0101.D
Sampled:		Prepared:		Analyzed:	06/21/11 15:04
Solids:		Preparation:	EDB	Dilution:	

Batch: 1F21014 Sequence: 1F17305 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	20.29	0.00946	0.0189	0.0284	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1F21014-MS1	File ID:	007R0101.D
Sampled:		Prepared:		Analyzed:	06/21/11 15:04
Solids:		Preparation:	EDB	Dilution:	

Batch:	1F21014	Sequence:	1F17305	Calibration:	1118002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	27.17	0.00946	0.0189	0.0284	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1F21014-MSD1	File ID:	008F0101.D
Sampled:		Prepared:		Analyzed:	06/21/11 15:25
Solids:		Preparation:	EDB	Dilution:	

Batch:	1F21014	Sequence:	1F17305	Calibration:	1118002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	19.56	0.00937	0.0187	0.0281	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1F21014-MSD1
File ID: 008R0101.D
Sampled:
Prepared:
Analyzed: 06/21/11 15:25
Solids:
Preparation: EDB
Dilution:
Batch: 1F21014
Sequence: 1F17305
Calibration: 1118002
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	26.33	0.00937	0.0187	0.0281	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_017
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1G01001-BS1	File ID:	005F0101.D
Sampled:		Prepared:		Analyzed:	07/01/11 14:50
Solids:		Preparation:	EDB	Dilution:	

Batch: 1G01001 Sequence: 1G19407 Calibration: 1118002 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5731	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1G01001-BS1	File ID:	005R0101.D
Sampled:		Prepared:		Analyzed:	07/01/11 14:50
Solids:		Preparation:	EDB	Dilution:	

Batch:	1G01001	Sequence:	1G19407	Calibration:	1118002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5147	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1G01001-BSD1	File ID:	006F0101.D
Sampled:		Prepared:		Analyzed:	07/01/11 15:12
Solids:		Preparation:	EDB	Dilution:	

Batch:	1G01001	Sequence:	1G19407	Calibration:	1118002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5398	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1G01001-BSD1	File ID:	006R0101.D
Sampled:		Prepared:		Analyzed:	07/01/11 15:12
Solids:		Preparation:	EDB	Dilution:	

Batch:	1G01001	Sequence:	1G19407	Calibration:	1118002	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4988	0.0100	0.0200	0.0300	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0046

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1106155-01 Date(s) Analyzed: 06/21/2011 06/21/2011

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	1.72	1.71	1.77	19.6	
	2	0.66	0.64	0.70	25.9	28

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0046

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1106155-01RE1 Date(s) Analyzed: 06/22/2011 06/22/2011

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	1.79	1.71	1.77	47.8	
	2	0.69	0.64	0.70	51.9	8

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0082

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1106179-01RE1 Date(s) Analyzed: 06/22/2011 06/22/2011

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	1.79	1.71	1.77	148	
	2	0.68	0.64	0.70	129	14

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0094

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1106188-01RE1 Date(s) Analyzed: 06/22/2011 06/22/2011

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	1.79	1.71	1.77	360	
	2	0.69	0.64	0.70	325	10

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0096

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1106195-01 Date(s) Analyzed: 06/21/2011 06/21/2011

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	1.72	1.71	1.77	0.286	
	2	0.66	0.64	0.70	0.162	55

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1F21014-BS1 Date(s) Analyzed: 06/21/2011 06/21/2011

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	1.73	1.71	1.77	0.4878	
	2	0.66	0.64	0.70	0.5309	8

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1F21014-BSD1 Date(s) Analyzed: 06/21/2011 06/21/2011

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	1.73	1.71	1.77	0.5246	
	2	0.66	0.64	0.70	0.5554	6

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1F21014-MS1 Date(s) Analyzed: 06/21/2011 06/21/2011

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	1.72	1.71	1.77	20.29	
	2	0.66	0.64	0.70	27.17	29

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1F21014-MSD1 Date(s) Analyzed: 06/21/2011 06/21/2011

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	1.72	1.71	1.77	19.56	
	2	0.66	0.64	0.70	26.33	30

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0095

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1106203-01 Date(s) Analyzed: 07/01/2011 07/01/2011

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	1.77	1.71	1.77	0.302	
	2	0.68	0.64	0.70	0.205	38

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1G01001-BS1 Date(s) Analyzed: 07/01/2011 07/01/2011

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	1.77	1.71	1.77	0.5731	
	2	0.68	0.64	0.70	0.5147	11

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1G01001-BSD1 Date(s) Analyzed: 07/01/2011 07/01/2011

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	1.77	1.71	1.77	0.5398	
	2	0.68	0.64	0.70	0.4988	8

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
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

GW0046

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-01
Sampled:	06/13/11 12:38	Received:	06/14/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	52600	1000	2000	5000	1		SW6010B	1F23003	06/24/11 13:49
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1F23003	06/24/11 13:49
7439-95-4	Magnesium	7130	1000	3000	5000	1		SW6010B	1F23003	06/24/11 13:49
7440-09-7	Potassium	2450	1000	3000	5000	1	J	SW6010B	1F23003	06/24/11 13:49
7440-23-5	Sodium	27900	1000	3000	5000	1		SW6010B	1F23003	06/24/11 13:49

ANALYSIS DATA SHEET

GW0046

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-02
Sampled:	06/13/11 12:38	Received:	06/14/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	718	30.0	60.0	100	1		SW6010B	1F15922	06/15/11 16:21
7439-96-5	Manganese (dissolved)	506	3.00	6.00	15.0	1		SW6010B	1F15922	06/15/11 16:21

ANALYSIS DATA SHEET

GW0082

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-01
Sampled:	06/15/11 12:06	Received:	06/16/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	57700	1000	2000	5000	1		SW6010B	1F23003	06/24/11 15:39
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1F23003	06/24/11 15:39
7439-95-4	Magnesium	8480	1000	3000	5000	1		SW6010B	1F23003	06/24/11 15:39
7440-09-7	Potassium	3080	1000	3000	5000	1	J	SW6010B	1F23003	06/24/11 15:39
7440-23-5	Sodium	31100	1000	3000	5000	1		SW6010B	1F23003	06/24/11 15:39

ANALYSIS DATA SHEET

GW0082

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-02
Sampled:	06/15/11 12:06	Received:	06/16/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	48.5	30.0	60.0	100	1	J	SW6010B	1G12003	07/14/11 14:57
7439-96-5	Manganese (dissolved)	614	3.00	6.00	15.0	1		SW6010B	1G12003	07/14/11 14:57

ANALYSIS DATA SHEET

GW0094

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-01
Sampled:	06/16/11 10:31	Received:	06/17/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	94600	1000	2000	5000	1		SW6010B	1F23003	06/24/11 15:43
7439-92-1	Lead	5.31	1.50	3.00	3.00	1		SW6010B	1F23003	06/24/11 15:43
7439-95-4	Magnesium	14100	1000	3000	5000	1		SW6010B	1F23003	06/24/11 15:43
7440-09-7	Potassium	3420	1000	3000	5000	1	J	SW6010B	1F23003	06/24/11 15:43
7440-23-5	Sodium	42000	1000	3000	5000	1		SW6010B	1F23003	06/24/11 15:43

ANALYSIS DATA SHEET

GW0094

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-02
Sampled:	06/16/11 10:31	Received:	06/17/11 09:00
% 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	1G12003	07/14/11 15:02
7439-96-5	Manganese (dissolved)	805	3.00	6.00	15.0	1		SW6010B	1G12003	07/14/11 15:02

ANALYSIS DATA SHEET

GW0096

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106195-01
Sampled:	06/17/11 13:56	Received:	06/18/11 11:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	32900	1000	2000	5000	1		SW6010B	1F23005	06/24/11 19:22
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1F23005	06/24/11 19:22
7439-95-4	Magnesium	4280	1000	3000	5000	1	J	SW6010B	1F23005	06/24/11 19:22
7440-09-7	Potassium	2040	1000	3000	5000	1	J	SW6010B	1F23005	06/24/11 19:22
7440-23-5	Sodium	22000	1000	3000	5000	1		SW6010B	1F23005	06/24/11 19:22

ANALYSIS DATA SHEET

GW0096

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106195-02
Sampled:	06/17/11 13:56	Received:	06/18/11 11:00
% 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	1G12003	07/14/11 15:06
7439-96-5	Manganese (dissolved)	39.3	3.00	6.00	15.0	1		SW6010B	1G12003	07/14/11 15:06

ANALYSIS DATA SHEET

GW0095

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 06/20/11 11:22
% Solids: 0.00

SDG: Kirtland_017
Project: Kirtland AFB 2011
Laboratory ID: 1106203-01
Received: 06/21/11 09:00

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	42000	1000	2000	5000	1		SW6010B	1F23005	06/24/11 19:36
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1F23005	06/24/11 19:36
7439-95-4	Magnesium	5580	1000	3000	5000	1		SW6010B	1F23005	06/24/11 19:36
7440-09-7	Potassium	2270	1000	3000	5000	1	J	SW6010B	1F23005	06/24/11 19:36
7440-23-5	Sodium	24500	1000	3000	5000	1		SW6010B	1F23005	06/24/11 19:36

ANALYSIS DATA SHEET

GW0095

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106203-02
Sampled:	06/20/11 11:22	Received:	06/21/11 09:00
% 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	1G12003	07/14/11 15:11
7439-96-5	Manganese (dissolved)	14.5	3.00	6.00	15.0	1	J	SW6010B	1G12003	07/14/11 15:11

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

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

SDG: Kirtland_017
Project: Kirtland AFB 2011
Calibration: 1171001
Sequence: 1F16806

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1F16806-ICV1	Iron (dissolved)	10000	10690	107	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1058	106	ug/L	+/- 10.00%
1F16806-CCV1	Iron (dissolved)	10000	10490	105	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1054	105	ug/L	+/- 10.00%
1F16806-CCV5	Iron (dissolved)	10000	10470	105	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1048	105	ug/L	+/- 10.00%
1F16806-CCV6	Iron (dissolved)	10000	10080	101	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1034	103	ug/L	+/- 10.00%
1F16806-CCV7	Iron (dissolved)	10000	10060	101	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1031	103	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_017
Project: Kirtland AFB 2011
Calibration: 1182001
Sequence: 1F18114

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1F18114-ICV1	Calcium	50000	48980	98.0	ug/L	+/- 10.00%
	Lead	1000	998.6	99.9	ug/L	+/- 10.00%
	Magnesium	50000	46990	94.0	ug/L	+/- 10.00%
	Potassium	10000	9118	91.2	ug/L	+/- 10.00%
	Sodium	50000	50530	101	ug/L	+/- 10.00%
1F18114-CCV1	Calcium	50000	47620	95.2	ug/L	+/- 10.00%
	Lead	1000	1016	102	ug/L	+/- 10.00%
	Magnesium	50000	46800	93.6	ug/L	+/- 10.00%
	Potassium	10000	9494	94.9	ug/L	+/- 10.00%
	Sodium	50000	51360	103	ug/L	+/- 10.00%
1F18114-CCV2	Calcium	50000	46520	93.0	ug/L	+/- 10.00%
	Lead	1000	1033	103	ug/L	+/- 10.00%
	Magnesium	50000	45980	92.0	ug/L	+/- 10.00%
	Potassium	10000	9552	95.5	ug/L	+/- 10.00%
	Sodium	50000	51590	103	ug/L	+/- 10.00%
1F18114-CCV3	Calcium	50000	47010	94.0	ug/L	+/- 10.00%
	Lead	1000	1045	105	ug/L	+/- 10.00%
	Magnesium	50000	47640	95.3	ug/L	+/- 10.00%
	Potassium	10000	9374	93.7	ug/L	+/- 10.00%
	Sodium	50000	52570	105	ug/L	+/- 10.00%
1F18114-CCV4	Calcium	50000	47520	95.0	ug/L	+/- 10.00%
	Lead	1000	1017	102	ug/L	+/- 10.00%
	Magnesium	50000	46520	93.0	ug/L	+/- 10.00%
	Potassium	10000	9621	96.2	ug/L	+/- 10.00%
	Sodium	50000	51530	103	ug/L	+/- 10.00%
1F18114-CCV6	Calcium	50000	49740	99.5	ug/L	+/- 10.00%
	Lead	1000	983.7	98.4	ug/L	+/- 10.00%
	Magnesium	50000	47640	95.3	ug/L	+/- 10.00%
	Potassium	10000	9596	96.0	ug/L	+/- 10.00%
	Sodium	50000	50120	100	ug/L	+/- 10.00%
1F18114-CCV7	Calcium	50000	49660	99.3	ug/L	+/- 10.00%
	Lead	1000	988.0	98.8	ug/L	+/- 10.00%
	Magnesium	50000	47120	94.2	ug/L	+/- 10.00%
	Potassium	10000	9645	96.4	ug/L	+/- 10.00%
	Sodium	50000	50190	100	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_017
Project: Kirtland AFB 2011
Calibration: 1196002
Sequence: 1G19605

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1G19605-ICV1	Iron (dissolved)	10000	10470	105	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1045	104	ug/L	+/- 10.00%
1G19605-CCV1	Iron (dissolved)	10000	10550	106	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1069	107	ug/L	+/- 10.00%
1G19605-CCV2	Iron (dissolved)	10000	10620	106	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1056	106	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1171001

Sequence: 1F16806

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1F16806-CRL1	Iron (dissolved)	60.00	68.44	114	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.604	110	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1182001

Sequence: 1F18114

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1F18114-CRL1	Calcium	2000	1945	97.2	ug/L	80 - 120
	Lead	3.000	3.046	102	ug/L	80 - 120
	Magnesium	3000	2740	91.3	ug/L	80 - 120
	Potassium	3000	2794	93.1	ug/L	80 - 120
	Sodium	3000	3027	101	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1196002

Sequence: 1G19605

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1G19605-CRL1	Iron (dissolved)	60.00	63.29	105	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.652	111	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1F16806
Calibration: 1171001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F16806-ICB1	Iron (dissolved)	2.104	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.1166	3.00	15.0	ug/L	U	SW6010B
1F16806-CCB1	Iron (dissolved)	-0.710	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.124	3.00	15.0	ug/L	U	SW6010B
1F16806-CCB5	Iron (dissolved)	0.271	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0964	3.00	15.0	ug/L	U	SW6010B
1F15922-BLK1	Iron (dissolved)	-0.455	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0271	3.00	15.0	ug/L	U	SW6010B
1F16806-CCB6	Iron (dissolved)	-0.0507	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0498	3.00	15.0	ug/L	U	SW6010B
1F16806-CCB7	Iron (dissolved)	-0.448	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.165	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1F18114
Calibration: 1182001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F18114-ICB1	Calcium	19.23	1000	5000	ug/L	U	SW6010B
	Lead	-0.1132	1.50	3.00	ug/L	U	SW6010B
	Magnesium	23.41	1000	5000	ug/L	U	SW6010B
	Potassium	-5.440	1000	5000	ug/L	U	SW6010B
	Sodium	17.50	1000	5000	ug/L	U	SW6010B
1F18114-CCB1	Calcium	88.2	1000	5000	ug/L	U	SW6010B
	Lead	-0.656	1.50	3.00	ug/L	U	SW6010B
	Magnesium	77.0	1000	5000	ug/L	U	SW6010B
	Potassium	-12.3	1000	5000	ug/L	U	SW6010B
	Sodium	23.8	1000	5000	ug/L	U	SW6010B
1F18114-CCB2	Calcium	70.6	1000	5000	ug/L	U	SW6010B
	Lead	-0.0905	1.50	3.00	ug/L	U	SW6010B
	Magnesium	17.5	1000	5000	ug/L	U	SW6010B
	Potassium	-3.42	1000	5000	ug/L	U	SW6010B
	Sodium	28.5	1000	5000	ug/L	U	SW6010B
1F23003-BLK1	Calcium	35.7	1000	5000	ug/L	U	SW6010B
	Lead	-0.184	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.76	1000	5000	ug/L	U	SW6010B
	Potassium	0.310	1000	5000	ug/L	U	SW6010B
	Sodium	17.6	1000	5000	ug/L	U	SW6010B
1F18114-CCB3	Calcium	4.56	1000	5000	ug/L	U	SW6010B
	Lead	0.141	1.50	3.00	ug/L	U	SW6010B
	Magnesium	6.24	1000	5000	ug/L	U	SW6010B
	Potassium	-15.2	1000	5000	ug/L	U	SW6010B
	Sodium	10.4	1000	5000	ug/L	U	SW6010B
1F18114-CCB4	Calcium	12.9	1000	5000	ug/L	U	SW6010B
	Lead	-0.0125	1.50	3.00	ug/L	U	SW6010B
	Magnesium	10.5	1000	5000	ug/L	U	SW6010B
	Potassium	-20.4	1000	5000	ug/L	U	SW6010B
	Sodium	11.2	1000	5000	ug/L	U	SW6010B
1F18114-CCB6	Calcium	7.47	1000	5000	ug/L	U	SW6010B
	Lead	0.384	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.88	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1F18114
Calibration: 1182001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F18114-CCB6	Potassium	-17.7	1000	5000	ug/L	U	SW6010B
	Sodium	11.4	1000	5000	ug/L	U	SW6010B
1F23005-BLK1	Calcium	7.28	1000	5000	ug/L	U	SW6010B
	Lead	-0.171	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.88	1000	5000	ug/L	U	SW6010B
	Potassium	-23.1	1000	5000	ug/L	U	SW6010B
	Sodium	9.04	1000	5000	ug/L	U	SW6010B
1F18114-CCB7	Calcium	9.06	1000	5000	ug/L	U	SW6010B
	Lead	0.225	1.50	3.00	ug/L	U	SW6010B
	Magnesium	8.42	1000	5000	ug/L	U	SW6010B
	Potassium	-21.6	1000	5000	ug/L	U	SW6010B
	Sodium	10.1	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1G19605
Calibration: 1196002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1G19605-ICB1	Iron (dissolved)	-0.7292	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.02034	3.00	15.0	ug/L	U	SW6010B
1G19605-CCB1	Iron (dissolved)	-0.214	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0822	3.00	15.0	ug/L	U	SW6010B
1G12003-BLK1	Iron (dissolved)	-0.470	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0900	3.00	15.0	ug/L	U	SW6010B
1G19605-CCB2	Iron (dissolved)	1.26	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.530	3.00	15.0	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1171001

Sequence: 1F16806

Lab Sample ID	Analyte	True	Found	%R	Units
1F16806-IFA1	Iron (dissolved)	200000	207,590.00	104	ug/L
	Manganese (dissolved)		-3.78		ug/L
1F16806-IFB1	Iron (dissolved)	200000	207,340.00	104	ug/L
	Manganese (dissolved)	500.0	486.03	97.2	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1182001
Sequence: 1F18114

Lab Sample ID	Analyte	True	Found	%R	Units
1F18114-IFA1	Calcium	500000	459,860.00	92.0	ug/L
	Lead		8.70		ug/L
	Magnesium	500000	481,820.00	96.4	ug/L
	Potassium		-98.45		ug/L
	Sodium		73.20		ug/L
1F18114-IFB1	Calcium	500000	454,230.00	90.8	ug/L
	Lead	50.00	58.94	118	ug/L
	Magnesium	500000	475,300.00	95.1	ug/L
	Potassium		-94.32		ug/L
	Sodium		58.17		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1196002

Sequence: 1G19605

Lab Sample ID	Analyte	True	Found	%R	Units
1G19605-IFA1	Iron (dissolved)	200000	210,290.00	105	ug/L
	Manganese (dissolved)		-4.37		ug/L
1G19605-IFB1	Iron (dissolved)	200000	206,290.00	103	ug/L
	Manganese (dissolved)	500.0	498.49	99.7	ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F15922

% Solids:

Source Sample Name: **1106155-02**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	717.5	1668	95.0		80 - 120
Manganese (dissolved)	500.0	506.4	1077	114		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	1680	96.2	0.699		20	80 - 120
Manganese (dissolved)	500.0	1084	116	0.657		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F23003

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	52640	56760	82.5		80 - 120
Lead	250.0	ND	258.8	104		80 - 120
Magnesium	5000	7127	11580	89.0		80 - 120
Potassium	5000	2449	7357	98.2		80 - 120
Sodium	5000	27950	33360	108		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	55400	55.3	2.42		20	80 - 120
Lead	250.0	256.6	103	0.854		20	80 - 120
Magnesium	5000	11350	84.4	2.02		20	80 - 120
Potassium	5000	7265	96.3	1.26		20	80 - 120
Sodium	5000	33290	107	0.213		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0046

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1F23003-PS1
Batch: 1F23003
Lab Source ID: 1106155-01
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	**56130**	**52640**	**5000**	**69.8**	**80 - 120**
Lead	266.9	ND	250.0	107	80 - 120
Magnesium	11690	7127	5000	91.2	80 - 120
Potassium	7227	2449	5000	95.6	80 - 120
Sodium	33770	27950	5000	116	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F15922	Laboratory ID:	1F15922-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	1069	107	80 - 120
Manganese (dissolved)	500.0	537.1	107	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F23003	Laboratory ID:	1F23003-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	4841	96.8	80 - 120
Lead	250.0	282.6	113	80 - 120
Magnesium	5000	4668	93.4	80 - 120
Potassium	5000	4790	95.8	80 - 120
Sodium	5000	5426	109	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F23005	Laboratory ID:	1F23005-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	5042	101	80 - 120
Lead	250.0	275.2	110	80 - 120
Magnesium	5000	4744	94.9	80 - 120
Potassium	5000	4791	95.8	80 - 120
Sodium	5000	5278	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1G12003	Laboratory ID:	1G12003-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	1132	113	80 - 120
Manganese (dissolved)	500.0	560.2	112	80 - 120

SERIAL DILUTION

SW6010B

GW0046

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1F16806
Preparation: MET_3005A

SDG: Kirtland_017
Project: Kirtland AFB 2011
Laboratory ID: 1F15922-DUP1
Lab Source ID: 1106155-02
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)	717.54	805.8	12.3		SW6010B	10.00
Manganese (dissolved)	506.36	557.65	10.1	E	SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0046

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1F18114
Preparation: MET_3005A

SDG: Kirtland_017
Project: Kirtland AFB 2011
Laboratory ID: 1F23003-DUP1
Lab Source ID: 1106155-01
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	52638	52330	-0.585		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	7126.9	7482	4.98		SW6010B	10.00
Potassium	2448.9	ND			SW6010B	10.00
Sodium	27946	28129	0.657		SW6010B	10.00

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** Kirtland_017

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_017

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_017

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_017

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_017

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_017

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_017

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_017

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_017

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

Batch: 1F15922 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0046	1106155-02	06/15/11 09:14	50.00	50.00
Blank	1F15922-BLK1	06/15/11 09:14	50.00	50.00
LCS	1F15922-BS1	06/15/11 09:14	50.00	50.00
GW0046	1F15922-DUP1	06/15/11 09:14	50.00	50.00
GW0046	1F15922-MS1	06/15/11 09:14	50.00	50.00
GW0046	1F15922-MSD1	06/15/11 09:14	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F23003 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0046	1106155-01	06/23/11 08:01	50.00	50.00
GW0082	1106179-01	06/23/11 08:01	50.00	50.00
GW0094	1106188-01	06/23/11 08:01	50.00	50.00
Blank	1F23003-BLK1	06/23/11 08:01	50.00	50.00
LCS	1F23003-BS1	06/23/11 08:01	50.00	50.00
GW0046	1F23003-DUP1	06/23/11 08:01	50.00	50.00
GW0046	1F23003-MS1	06/23/11 08:01	50.00	50.00
GW0046	1F23003-MSD1	06/23/11 08:01	50.00	50.00
GW0046	1F23003-PS1	06/23/11 08:01	20.00	20.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F23005 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0096	1106195-01	06/23/11 08:13	50.00	50.00
GW0095	1106203-01	06/23/11 08:13	50.00	50.00
Blank	1F23005-BLK1	06/23/11 08:13	50.00	50.00
LCS	1F23005-BS1	06/23/11 08:13	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1G12003 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0082	1106179-02	07/12/11 08:17	50.00	50.00
GW0094	1106188-02	07/12/11 08:17	50.00	50.00
GW0096	1106195-02	07/12/11 08:17	50.00	50.00
GW0095	1106203-02	07/12/11 08:17	50.00	50.00
Blank	1G12003-BLK1	07/12/11 08:17	50.00	50.00
LCS	1G12003-BS1	07/12/11 08:17	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F16806	Instrument:	ME-ICP
Calibration:	1171001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1F16806-CAL1	061511A-001	06/15/11 08:09
Cal Standard	1F16806-CAL2	061511A-002	06/15/11 08:13
Cal Standard	1F16806-CAL3	061511A-003	06/15/11 08:17
Cal Standard	1F16806-CAL4	061511A-004	06/15/11 08:21
Cal Standard	1F16806-CAL5	061511A-005	06/15/11 08:25
Cal Standard	1F16806-CAL6	061511A-006	06/15/11 08:30
Initial Cal Check	1F16806-ICV1	061511B-001	06/15/11 09:11
Initial Cal Blank	1F16806-ICB1	061511B-002	06/15/11 09:18
Instrument RL Check	1F16806-CRL1	061511B-003	06/15/11 09:23
Interference Check A	1F16806-IFA1	061511B-006	06/15/11 09:45
Interference Check B	1F16806-IFB1	061511B-007	06/15/11 09:51
Calibration Check	1F16806-CCV1	061511B-009	06/15/11 10:03
Calibration Blank	1F16806-CCB1	061511B-010	06/15/11 10:11
Calibration Check	1F16806-CCV5	061511C-015	06/15/11 14:36
Calibration Blank	1F16806-CCB5	061511C-016	06/15/11 14:44
Blank	1F15922-BLK1	061511C-017	06/15/11 14:48
LCS	1F15922-BS1	061511C-018	06/15/11 14:53
Calibration Check	1F16806-CCV6	061511C-029	06/15/11 15:46
Calibration Blank	1F16806-CCB6	061511C-030	06/15/11 15:53
GW0046	1106155-02	061511C-036	06/15/11 16:21
GW0046	1F15922-MS1	061511C-037	06/15/11 16:26
GW0046	1F15922-MSD1	061511C-038	06/15/11 16:30
GW0046	1F15922-DUP1	061511C-039	06/15/11 16:35
Calibration Check	1F16806-CCV7	061511C-044	06/15/11 17:02
Calibration Blank	1F16806-CCB7	061511C-045	06/15/11 17:10

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F18114	Instrument:	ME-ICP
Calibration:	1182001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1F18114-CAL1	062411A-001	06/24/11 09:59
Cal Standard	1F18114-CAL2	062411A-003	06/24/11 10:08
Cal Standard	1F18114-CAL3	062411A-004	06/24/11 10:12
Cal Standard	1F18114-CAL5	062411A-006	06/24/11 10:26
Cal Standard	1F18114-CAL6	062411A-007	06/24/11 10:31
Cal Standard	1F18114-CAL7	062411A-008	06/24/11 10:36
Cal Standard	1F18114-CAL8	062411A-009	06/24/11 10:40
Initial Cal Check	1F18114-ICV1	062411B-001	06/24/11 11:11
Initial Cal Blank	1F18114-ICB1	062411B-002	06/24/11 11:19
Instrument RL Check	1F18114-CRL1	062411B-003	06/24/11 11:23
Interference Check A	1F18114-IFA1	062411B-005	06/24/11 11:35
Interference Check B	1F18114-IFB1	062411B-006	06/24/11 11:40
Calibration Check	1F18114-CCV1	062411B-008	06/24/11 11:55
Calibration Blank	1F18114-CCB1	062411B-009	06/24/11 12:03
Calibration Check	1F18114-CCV2	062411B-022	06/24/11 13:07
Calibration Blank	1F18114-CCB2	062411B-023	06/24/11 13:14
Blank	1F23003-BLK1	062411B-024	06/24/11 13:19
LCS	1F23003-BS1	062411B-025	06/24/11 13:24
GW0046	1106155-01	062411B-030	06/24/11 13:49
GW0046	1F23003-MS1	062411B-031	06/24/11 13:53
GW0046	1F23003-MSD1	062411B-032	06/24/11 13:58
GW0046	1F23003-PS1	062411B-033	06/24/11 14:02
GW0046	1F23003-DUP1	062411B-034	06/24/11 14:07
Calibration Check	1F18114-CCV3	062411B-040	06/24/11 14:40
Calibration Blank	1F18114-CCB3	062411B-041	06/24/11 14:48
GW0082	1106179-01	062411B-052	06/24/11 15:39
GW0094	1106188-01	062411B-053	06/24/11 15:43
Calibration Check	1F18114-CCV4	062411B-056	06/24/11 15:59
Calibration Blank	1F18114-CCB4	062411B-057	06/24/11 16:06
Calibration Check	1F18114-CCV6	062411B-086	06/24/11 18:26
Calibration Blank	1F18114-CCB6	062411B-087	06/24/11 18:33
Blank	1F23005-BLK1	062411B-088	06/24/11 18:38

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F18114	Instrument:	ME-ICP
Calibration:	1182001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1F23005-BS1	062411B-089	06/24/11 18:42
GW0096	1106195-01	062411B-097	06/24/11 19:22
GW0095	1106203-01	062411B-100	06/24/11 19:36
Calibration Check	1F18114-CCV7	062411B-101	06/24/11 19:41
Calibration Blank	1F18114-CCB7	062411B-102	06/24/11 19:49

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G19605	Instrument:	ME-ICP
Calibration:	1196002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1G19605-CAL1	071411A-001	07/14/11 12:35
Cal Standard	1G19605-CAL2	071411A-003	07/14/11 12:43
Cal Standard	1G19605-CAL3	071411A-004	07/14/11 12:47
Cal Standard	1G19605-CAL4	071411A-005	07/14/11 12:51
Cal Standard	1G19605-CAL5	071411A-006	07/14/11 12:55
Cal Standard	1G19605-CAL6	071411A-007	07/14/11 13:00
Initial Cal Check	1G19605-ICV1	071411B-001	07/14/11 13:44
Initial Cal Blank	1G19605-ICB1	071411B-002	07/14/11 13:51
Instrument RL Check	1G19605-CRL1	071411B-005	07/14/11 14:08
Interference Check A	1G19605-IFA1	071411B-007	07/14/11 14:17
Interference Check B	1G19605-IFB1	071411B-008	07/14/11 14:23
Calibration Check	1G19605-CCV1	071411B-010	07/14/11 14:34
Calibration Blank	1G19605-CCB1	071411B-011	07/14/11 14:41
Blank	1G12003-BLK1	071411B-012	07/14/11 14:46
LCS	1G12003-BS1	071411B-013	07/14/11 14:51
GW0082	1106179-02	071411B-014	07/14/11 14:57
GW0094	1106188-02	071411B-015	07/14/11 15:02
GW0096	1106195-02	071411B-016	07/14/11 15:06
GW0095	1106203-02	071411B-017	07/14/11 15:11
Calibration Check	1G19605-CCV2	071411B-024	07/14/11 15:43
Calibration Blank	1G19605-CCB2	071411B-025	07/14/11 15:51

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1171001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	6/15/11 8:09 6/15/11 8:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	1.7896E-05	10000	1.8238E-05			500000	1.82052E-05		
Antimony	0	0	100	0.0007949	1000	8.0194E-04					10000	8.1739E-04
Arsenic	0	0	100	0.000363	1000	3.9004E-04					10000	3.8334E-04
Barium	0	0	50	0.0127788	1000	0.012699	5000	0.012973				
Beryllium	0	0	100	0.0027416	1000	0.0027359					10000	0.0026181
Boron	0	0	50	0.0000132	1000	0.0000139					5000	1.3536E-05
Cadmium	0	0	100	0.01582	1000	0.015626					10000	0.014982
Calcium	0	0	1100	4.168182E-05	50000	4.1596E-05					10000	
Chromium	0	0	100	0.0000379	1000	0.000037					10000	3.8031E-05
Cobalt	0	0	100	0.0064518	1000	0.006315					10000	0.0065804
Copper	0	0	100	0.0000806	1000	7.668E-05					10000	7.6933E-05
Iron	0	0	5100	1.245294E-05	10000	1.2092E-05			500000	1.17062E-05	10000	
Lead	0	0	100	0.0014319	1000	0.0013993					10000	0.001445
Magnesium	0	0	5100		50000	1.6214E-06			500000	1.72774E-06	10000	
Manganese	0	0	100	0.0002478	1000	2.4229E-04	10000	2.3213E-04			10000	
Molybdenum	0	0	100	0.0044017	1000	0.00446					10000	0.0044695
Nickel	0	0	100	0.0037578	1000	0.0036108					10000	0.0036475
Potassium	0	0	1000	7.53E-06	10000	9.306E-06						
Selenium	0	0	100	0.0004866	1000	4.7909E-04					10000	4.7426E-04
Silver	0	0	20	0.000053	500	5.066E-05	2000	5.1705E-05				
Sodium	0	0	1000		50000	4.0596E-05						
Strontium	0	0	100	0.001624	1000	0.001606					10000	0.001568
Thallium	0	0	100	0.0007548	1000	7.6991E-04					10000	7.7223E-04
Tin	0	0	50	0.001357	1000	0.0013756					5000	1.38972E-03
Titanium	0	0	100	0.0002144	1000	2.0847E-04					10000	2.1084E-04
Vanadium	0	0	100	0.0000457	1000	4.455E-05					10000	4.4477E-05
Zinc	0	0	100	0.0062552	1000	0.006196					10000	0.0062118

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1171001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	6/15/11 8:09 6/15/11 8:40

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	4.011E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.6455E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	9.481801E-06										
Selenium												
Silver												
Sodium	100000	3.9644E-05	500000	3.9528E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_017	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1171001		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	6/15/11 8:09	6/15/11 8:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.35848E-05	66.67631	2.197198	159.2923	1		0.998	
Antimony	6.035575E-04	66.68483	1002.616	199.9026	0.9999968		0.998	
Arsenic	2.84095E-04	66.7894	4.658633	155.6519	0.9999954		0.998	
Barium	0.0096127	66.67741	0.96772	102.6338	0.9999807		0.998	
Beryllium	0.0020239	66.72597	1.019597	150.9652	0.9999814		0.998	
Boron	1.0159E-05	66.72602	6.088765	169.0731	0.9999678		0.998	
Cadmium	0.011607	66.73805	5.65844	185.7945	0.9999834		0.998	
Calcium	3.084695E-05	66.7077	5.19609	188.9764	0.9999866		0.998	
Chromium	2.823275E-05	66.68643	11.90519	184.9209	0.9999928		0.998	
Cobalt	0.0048368	66.7043	2.237983	165.3001	0.9999841		0.998	
Copper	5.855325E-05	66.73682	1.10366	35.95203	0.9999994		0.998	
Iron	9.062785E-06	66.75151	30.30712	197.32	0.9999996		0.998	
Lead	1.06905E-03	66.69089	16.13197	193.4347	0.9999899		0.998	
Magnesium	1.24866E-06	66.76628	151.584	199.5004	0.9999107		0.998	
Manganese	1.80555E-04	66.76351	17.38162	190.2595	0.999983		0.998	
Molybdenum	0.0033328	66.67273	7.179812	189.2619	1		0.998	
Nickel	2.754025E-03	66.70524	1.164818	149.104	0.9999983		0.998	
Potassium	6.57945E-06	67.99982	2.434155	126.3055	1		0.998	
Selenium	3.599875E-04	66.68159	5.023395	156.3854	0.9999995		0.998	
Silver	3.884125E-05	66.71219	6.967167	170.9577	0.9999691		0.998	
Sodium	2.9942E-05	66.68581	4.654643	182.7512	0.9999936		0.998	
Strontium	0.0011995	66.69506	2.503275	154.8214	0.9999947		0.998	
Thallium	5.74235E-04	66.68025	3.941485	180.2014	1		0.998	
Tin	1.03058E-03	66.67934	21.14727	196.7514	0.999996		0.998	
Titanium	1.584275E-04	66.68441	3.873532	188.1402	0.9999984		0.998	
Vanadium	3.368175E-05	66.6874	3.248113	156.6841	1		0.998	
Zinc	4.66575E-03	66.66882	13.55233	194.223	0.9999999		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1182001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	6/24/11 9:59 6/24/11 10:40

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	1.7786E-05	10000	1.7903E-05			500000	1.8226E-05		
Antimony	0	0	100	0.0006604	1000	6.7928E-04					10000	6.5576E-04
Arsenic	0	0	100	0.0003371	1000	3.5977E-04					10000	3.5303E-04
Barium	0	0	50	0.0122504	1000	0.012178	5000	0.0122502				
Beryllium	0	0	100	0.0028338	1000	0.0027701					10000	0.002639
Boron	0	0	50	0.0000136	1000	1.394E-05					5000	1.3986E-05
Cadmium	0	0	100	0.015513	1000	0.015582					10000	0.014853
Calcium	0	0	1100	4.903636E-05	50000	4.803E-05					10000	
Chromium	0	0	100	0.0000396	1000	3.778E-05					10000	3.8389E-05
Cobalt	0	0	100	0.00568	1000	0.0056248					10000	0.005607
Copper	0	0	100	0.0000725	1000	0.0000673					10000	6.6467E-05
Iron	0	0	5100	1.49902E-05	10000	1.4115E-05			500000	1.41656E-05	10000	
Lead	0	0	100	0.0013151	1000	0.0012913					10000	0.0012992
Magnesium	0	0	5100		50000	1.7952E-06			500000	1.91736E-06	10000	
Manganese	0	0	100	0.0002606	1000	2.4927E-04	10000	2.4144E-04			10000	
Molybdenum	0	0	100	0.0041562	1000	0.0042501					10000	0.0042132
Nickel	0	0	100	0.0035841	1000	0.0034838					10000	0.0035023
Potassium	0	0	1000	6.58E-06	10000	8.947E-06						
Selenium	0	0	100	0.0004189	1000	4.2484E-04					10000	4.1137E-04
Silver	0	0	20	0.000052	500	4.836E-05	2000	5.0625E-05				
Sodium	0	0	1000		50000	0.0000366						
Strontium	0	0	100	0.001608	1000	0.001562					10000	0.001535
Thallium	0	0	100	0.0007652	1000	7.6099E-04					10000	7.6885E-04
Tin	0	0	50	0.0012908	1000	0.0013222					5000	0.0013016
Titanium	0	0	100	0.0002177	1000	2.0869E-04					10000	2.1173E-04
Vanadium	0	0	100	0.0000486	1000	4.657E-05					10000	4.7379E-05
Zinc	0	0	100	0.0058798	1000	0.0059341					10000	0.0058494

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1182001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	6/24/11 9:59 6/24/11 10:40

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	4.761E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.8216E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	9.4239E-06										
Selenium												
Silver												
Sodium	100000	3.5898E-05	500000	3.6486E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1182001	Instrument:	ME-ICP	
Matrix:	Water	Calibration Dates:	6/24/11 9:59	6/24/11 10:40

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.347875E-05	66.68096	4.63116	179.7654	0.9999999		0.998	
Antimony	4.9886E-04	66.69784	13.7647	193.7537	0.9999876		0.998	
Arsenic	2.62475E-04	66.76495	8.758792	189.2912	0.9999951		0.998	
Barium	9.16965E-03	66.6677	0.79058	150.4337	0.9999984		0.998	
Beryllium	2.060725E-03	66.78273	13.48241	193.5302	0.999978		0.998	
Boron	1.03815E-05	66.68729	7.629363	183.1772	0.9999995		0.998	
Cadmium	0.011487	66.72801	9.601185	195.5998	0.9999776		0.998	
Calcium	3.616909E-05	66.6872	1.926395	161.719	0.9999993		0.998	
Chromium	2.894225E-05	66.71788	44.15312	198.0336	0.9999969		0.998	
Cobalt	4.22795E-03	66.67072	6.733758	194.2702	0.9999999		0.998	
Copper	5.156675E-05	66.86734	0.4285025	49.60728	0.9999995		0.998	
Iron	1.08177E-05	66.76973	6.654052	188.9572	0.9999996		0.998	
Lead	0.0009764	66.67438	11.45199	193.95	0.9999995		0.998	
Magnesium	1.38354E-06	66.7745	40.8449	198.2223	0.9999019		0.998	
Manganese	1.878275E-04	66.79805	5.751463	180.4933	0.9999912		0.998	
Molybdenum	3.154875E-03	66.67791	11.85612	193.65	0.9999991		0.998	
Nickel	2.64255E-03	66.68706	0.660755	148.3376	0.9999994		0.998	
Potassium	6.237725E-06	69.5837	1.7894	130.2097	0.9999926		0.998	
Selenium	3.137775E-04	66.6898	7.175175	182.5667	0.9999905		0.998	
Silver	3.774625E-05	66.78512	2.159085	143.913	0.9998531		0.998	
Sodium	2.7246E-05	66.67622	8.929643	188.6565	0.9999869		0.998	
Strontium	1.17625E-03	66.71588	1.2267	124.346	0.9999974		0.998	
Thallium	5.7376E-04	66.66902	6.415872	186.7004	0.9999991		0.998	
Tin	9.786499E-04	66.67995	52.06906	198.8146	0.9999888		0.998	
Titanium	1.5953E-04	66.70793	6.486052	191.7778	0.9999974		0.998	
Vanadium	3.563725E-05	66.70777	1.3594	131.9218	0.9999965		0.998	
Zinc	4.415825E-03	66.67139	1.617955	173.872	0.999998		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_017	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1196002		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	7/14/11_12:35	7/14/11_13:10

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	1.9492E-05	10000	1.9564E-05			500000	1.94484E-05		
Antimony	0	0	100	0.0005917	1000	6.2721E-04					10000	6.2268E-04
Arsenic	0	0	100	0.0003102	1000	0.0003297					10000	3.2106E-04
Barium	0	0	50	0.0092244	1000	0.0092792	5000	0.0096928				
Beryllium	0	0	100	0.0031697	1000	0.0032608					10000	0.0031442
Boron	0	0	50	0.0000186	1000	0.0000193					5000	1.8672E-05
Cadmium	0	0	100	0.0080465	1000	0.007923					10000	7.589601E-03
Calcium	0	0	1100	7.887273E-05	50000	7.8162E-05					10000	
Chromium	0	0	100	0.0000516	1000	5.148E-05					10000	5.1113E-05
Cobalt	0	0	100	0.0052216	1000	0.0051817					10000	0.0053182
Copper	0	0	100	0.0000849	1000	8.242E-05					10000	8.1752E-05
Iron	0	0	5100	2.268627E-05	10000	2.255E-05			500000	2.1044E-05	10000	
Lead	0	0	100	0.0012155	1000	0.0011832					10000	0.0012212
Magnesium	0	0	5100		50000	2.7834E-06			500000	2.7224E-06	10000	
Manganese	0	0	100	0.0003202	1000	3.1348E-04	10000	3.0293E-04			10000	
Molybdenum	0	0	100	0.0034665	1000	0.0035834					10000	0.0035496
Nickel	0	0	100	0.0031571	1000	0.0031607					10000	0.0032075
Potassium	0	0	1000	9.55E-06	10000	1.1239E-05						
Selenium	0	0	100	0.0003619	1000	0.0003659					10000	3.5531E-04
Silver	0	0	20	0.000061	500	6.054E-05	2000	6.2785E-05				
Sodium	0	0	1000		50000	4.8684E-05						
Strontium	0	0	100	0.001754	1000	0.001766					10000	0.001766
Thallium	0	0	100	0.0007748	1000	7.6176E-04					10000	7.7502E-04
Tin	0	0	50	0.0011748	1000	0.0012149					5000	1.19912E-03
Titanium	0	0	100	0.0002508	1000	2.4772E-04					10000	2.4881E-04
Vanadium	0	0	100	0.0000557	1000	5.569E-05					10000	5.4152E-05
Zinc	0	0	100	0.0059635	1000	0.0059582					10000	0.0058869

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1196002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	7/14/11 12:35 7/14/11 13:10

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	7.4972E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.5829E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.1577E-05										
Selenium												
Silver												
Sodium	100000	4.7336E-05	500000	4.7844E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_017	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1196002		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	7/14/11 12:35	7/14/11 13:10

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.46261E-05	66.66746	9.586822	192.8201	1		0.998	
Antimony	4.603975E-04	66.75472	14.0936	188.6305	0.9999989		0.998	
Arsenic	2.4024E-04	66.74933	34.20326	195.7874	0.9999917		0.998	
Barium	0.0070491	66.73262	0.9603025	125.6419	0.9999232		0.998	
Beryllium	2.393675E-03	66.69945	14.96644	192.1289	0.9999864		0.998	
Boron	1.4143E-05	66.70372	5.940445	170.5837	0.9999522		0.998	
Cadmium	5.889775E-03	66.74713	0.4426425	55.35662	0.9999851		0.998	
Calcium	5.800168E-05	66.73079	1.486065	147.3955	0.9999823		0.998	
Chromium	3.854825E-05	66.66883	4.432607	171.5825	0.9999995		0.998	
Cobalt	3.930375E-03	66.68261	0.785345	119.2938	0.9999935		0.998	
Copper	6.2268E-05	66.70213	2.509885	140.4086	0.9999997		0.998	
Iron	1.657007E-05	66.81775	4.195775	172.5538	0.9999986		0.998	
Lead	9.04975E-04	66.6923	4.397733	185.8146	0.99999		0.998	
Magnesium	2.022175E-06	66.7957	43.76927	199.2734	0.999852		0.998	
Manganese	2.341525E-04	66.73574	1.932328	125.4592	0.9999893		0.998	
Molybdenum	2.649875E-03	66.69243	3.66201	176.0042	0.9999989		0.998	
Nickel	2.381325E-03	66.67364	9.28603	193.3099	0.9999981		0.998	
Potassium	8.0915E-06	67.56126	3.224103	161.2671	0.9999984		0.998	
Selenium	2.707775E-04	66.68617	2.794355	156.1069	0.9999924		0.998	
Silver	4.608125E-05	66.69977	7.92122	175.4525	0.9999104		0.998	
Sodium	3.5966E-05	66.68458	2.47353	190.4104	0.999988		0.998	
Strontium	0.0013215	66.66804	6.460425	180.6241	1		0.998	
Thallium	5.77895E-04	66.67529	4.87256	178.6305	0.9999973		0.998	
Tin	8.97205E-04	66.69201	25.77921	196.208	0.9999918		0.998	
Titanium	1.868325E-04	66.67016	4.337862	190.4343	0.9999996		0.998	
Vanadium	4.13855E-05	66.68983	0.6915675	44.8395	0.9999929		0.998	
Zinc	4.45215E-03	66.67128	0.738685	81.15523	0.9999988		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0046

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106155-01
Sampled:	06/13/11 12:38	Received:	06/14/11 09:00
% 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 N	SM4500NH3BG	1F30012	06/30/11 11:24
18496-25-8	Sulfide		0.678	1.69	3.39	0.68	U N	SM4500S2CF	1F16706	06/16/11 15:59
10-09-3	Alkalinity, Bicarbonate (as CACO3)	171	1.00	1.00	1.00	1		SM2320B	1F27023	06/27/11 18:00
16887-00-6	Chloride	10.4	0.170	0.330	2.00	1	M	E300.0	1F14018	06/14/11 13:21
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1F27023	06/27/11 18:00
14797-55-8	Nitrate as N	0.0620	0.0330	0.100	0.200	1	J	E300.0	1F14018	06/14/11 13:21
14808-79-8	Sulfate as SO4	12.9	0.330	1.00	2.50	1	M	E300.0	1G07021	07/07/11 21:08

ANALYSIS DATA SHEET

GW0082

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106179-01
Sampled:	06/15/11 12:06	Received:	06/16/11 09:00
% 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 N	SM4500NH3BG	1F30012	07/08/11 15:01
18496-25-8	Sulfide		0.678	1.69	3.39	0.68	U N	SM4500S2CF	1F16706	06/16/11 15:59
10-09-3	Alkalinity, Bicarbonate (as CACO3)	154	1.00	1.00	1.00	1		SM2320B	1F29023	06/29/11 16:50
16887-00-6	Chloride	19.4	0.170	0.330	1.00	1	M	E300.0	1F16728	06/16/11 19:00
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1F29023	06/29/11 16:50
14797-55-8	Nitrate as N	0.0530	0.0330	0.100	0.200	1	J	E300.0	1F16728	06/16/11 19:00
14808-79-8	Sulfate as SO4	38.8	0.330	1.00	2.50	1	M	E300.0	1G07021	07/07/11 22:18

ANALYSIS DATA SHEET

GW0094

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106188-01
Sampled:	06/16/11 10:31	Received:	06/17/11 09:00
% 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 N	SM4500NH3BG	1F30012	07/08/11 15:03
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U	SM4500S2CF	1F23014	06/23/11 14:03
10-09-3	Alkalinity, Bicarbonate (as CACO3)	190	1.00	1.00	1.00	1		SM2320B	1F29023	06/29/11 17:00
16887-00-6	Chloride	26.1	0.170	0.330	1.00	1	M	E300.0	1F28020	06/28/11 17:36
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1F29023	06/29/11 17:00
14797-55-8	Nitrate as N	0.304	0.0330	0.100	0.200	1		E300.0	1F17013	06/17/11 19:40
14808-79-8	Sulfate as SO4	48.2	0.330	1.00	2.00	1		E300.0	1F17013	06/17/11 19:40

ANALYSIS DATA SHEET

GW0096

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106195-01
Sampled:	06/17/11 13:56	Received:	06/18/11 11:00
% 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 N	SM4500NH3BG	1F30012	07/08/11 15:04
18496-25-8	Sulfide		0.690	1.72	3.45	0.68	U	SM4500S2CF	1F23014	06/23/11 14:04
10-09-3	Alkalinity, Bicarbonate (as CACO3)	96.9	1.00	1.00	1.00	1		SM2320B	1F29023	06/29/11 17:15
16887-00-6	Chloride	7.27	0.170	0.330	1.00	1	M	E300.0	1F20012	06/20/11 12:48
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1F29023	06/29/11 17:15
14797-55-8	Nitrate as N	0.0640	0.0330	0.100	0.200	1	H1 J	E300.0	1F20012	06/20/11 12:48
14808-79-8	Sulfate as SO4	26.3	0.330	1.00	2.50	1	M	E300.0	1F20012	06/20/11 12:48

ANALYSIS DATA SHEET

GW0095

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1106203-01
Sampled:	06/20/11 11:22	Received:	06/21/11 09:00
% 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 N	SM4500NH3BG	1F30012	07/08/11 15:05
18496-25-8	Sulfide		0.690	1.72	3.45	0.68	U	SM4500S2CF	1F23014	06/23/11 14:07
10-09-3	Alkalinity, Bicarbonate (as CACO3)	122	1.00	1.00	1.00	1		SM2320B	1F29023	06/29/11 17:30
16887-00-6	Chloride	8.47	0.170	0.330	1.00	1	M	E300.0	1F21019	06/21/11 17:53
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1F29023	06/29/11 17:30
14797-55-8	Nitrate as N	0.211	0.0330	0.100	0.200	1		E300.0	1F21019	06/21/11 17:53
14808-79-8	Sulfate as SO4	27.2	0.330	1.00	2.50	1	M	E300.0	1F21019	06/21/11 17:53

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

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

SDG: Kirtland_017
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1E12407

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1E12407-ICV1	Chloride	4.800	4.757	99.1	mg/L	+/- 10.00%
	Nitrate as N	3.616	3.589	99.3	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.63	98.5	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_017
Project: Kirtland AFB 2011
Calibration: 1179003
Sequence: 1F17307

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1F17307-ICV1	Ammonia as N	2.000	2.183	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_017
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1F17409

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1F17409-CCV1	Chloride	25.00	23.36	93.5	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.374	95.0	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	23.15	92.6	mg/L	+/- 10.00%
1F17409-CCV2	Chloride	25.00	24.42	97.7	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.487	99.5	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.36	97.4	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_017
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1F17923

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1F17923-CCV1	Chloride	25.00	24.38	97.5	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.472	98.9	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.10	96.4	mg/L	+/- 10.00%
1F17923-CCV2	Chloride	25.00	24.64	98.5	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.496	99.8	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.66	98.7	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_017
Project: Kirtland AFB 2011
Calibration: 1179003
Sequence: 1F18108

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1F18108-CCV1	Ammonia as N	2.000	2.038	102	mg/L	+/- 10.00%
1F18108-CCV2	Ammonia as N	2.000	2.041	102	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_017
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1G18204

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1G18204-CCV1	Chloride	25.00	23.00	92.0	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.334	93.4	mg/L	+/- 10.00%
1G18204-CCV2	Chloride	25.00	24.56	98.2	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.496	99.8	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_017
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1G18205

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1G18205-CCV1	Chloride	25.00	22.66	90.6	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.311	92.4	mg/L	+/- 10.00%
1G18205-CCV2	Chloride	25.00	24.68	98.7	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.487	99.5	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_017
Project: Kirtland AFB 2011
Calibration: 1189002
Sequence: 1G18909

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1G18909-ICV1	Ammonia as N	2.000	2.149	107	mg/L	+/- 10.00%
1G18909-CCV1	Ammonia as N	2.000	2.149	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_017
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1G18911

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1G18911-CCV1	Chloride	25.00	23.68	94.7	mg/L	+/- 10.00%
1G18911-CCV2	Chloride	25.00	24.20	96.8	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_017
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1G19206

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1G19206-CCV1	Nitrate as N	2.500	2.455	98.2	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	23.85	95.4	mg/L	+/- 10.00%
1G19206-CCV2	Nitrate as N	2.500	2.552	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.52	98.1	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_017
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1G19212

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1G19212-CCV1	Sulfate as SO4	25.00	24.49	98.0	mg/L	+/- 10.00%
1G19212-CCV2	Sulfate as SO4	25.00	24.60	98.4	mg/L	+/- 10.00%
1G19212-CCV3	Sulfate as SO4	25.00	24.73	98.9	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1124002

Sequence: 1F17409

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1F17409-CRL1	Chloride	1.000	0.7690	76.9	mg/L	75 - 125
	Nitrate as N	0.1000	0.1070	107	mg/L	75 - 125
1F17409-CRL2	Sulfate as SO4	2.500	2.013	80.5	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1124002

Sequence: 1F17923

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1F17923-CRL1	Chloride	1.000	0.7770	77.7	mg/L	75 - 125
	Nitrate as N	0.1000	0.1060	106	mg/L	75 - 125
1F17923-CRL2	Sulfate as SO4	2.500	2.085	83.4	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1124002

Sequence: 1G18204

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1G18204-CRL1	Chloride	1.000	0.7750	77.5	mg/L	75 - 125
	Nitrate as N	0.1000	0.1010	101	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1124002

Sequence: 1G18205

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1G18205-CRL1	Nitrate as N	0.1000	0.09700	97.0	mg/L	75 - 125
1G18205-CRL2	Chloride	2.000	1.635	81.8	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1124002

Sequence: 1G18911

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1G18911-CRL1	Chloride	1.000	0.7710	77.1	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1124002

Sequence: 1G19206

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1G19206-CRL1	Nitrate as N	0.1000	0.1050	105	mg/L	75 - 125
1G19206-CRL2	Sulfate as SO4	2.000	1.657	82.8	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1124002

Sequence: 1G19212

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1G19212-CRL2	Sulfate as SO4	2.500	2.206	88.2	mg/L	75 - 125

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1F14018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F14018-BLK1	Chloride	-0.133	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1F16706

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F16706-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1F16728

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F16728-BLK1	Chloride	-0.149	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1F17013

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F17013-BLK1	Nitrate as N	0.0240	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_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1F20012

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F20012-BLK1	Chloride	-0.151	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_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1F21019

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F21019-BLK1	Chloride	-0.101	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1F23014

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F23014-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1F27023

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F27023-BLK1	Alkalinity, Total (as CACO3)	0.380	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1F28020

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F28020-BLK1	Chloride	-0.0440	0.170	0.500	mg/L	U	E300.0

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1F29023

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F29023-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1F30012

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F30012-BLK1	Ammonia as N	0.00736	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1G07021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1G07021-BLK1	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1E12407
Calibration: 1124002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1E12407-ICB1	Chloride	-0.1530	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	0.000	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1F17307
Calibration: 1179003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F17307-ICB1	Ammonia as N	-0.06253	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1F17409
Calibration: 1124002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F17409-CCB1	Chloride	-0.0990	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.0220	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1F17409-CCB2	Chloride	-0.121	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1F17923
Calibration: 1124002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F17923-CCB1	Chloride	-0.157	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
1F17923-CCB2	Chloride	-0.00700	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.0210	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1F18108
Calibration: 1179003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1F18108-CCB1	Ammonia as N	0.00287	0.110	0.300	mg/L	U	SM4500NH3BG
1F18108-CCB2	Ammonia as N	-0.0300	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1G18204
Calibration: 1124002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1G18204-CCB1	Chloride	-0.0690	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
1G18204-CCB2	Chloride	-0.124	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1G18205
Calibration: 1124002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1G18205-CCB1	Chloride	-0.155	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
1G18205-CCB2	Chloride	-0.137	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1G18909
Calibration: 1189002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1G18909-ICB1	Ammonia as N	-0.008401	0.110	0.300	mg/L	U	SM4500NH3BG
1G18909-CCB1	Ammonia as N	-0.0143	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1G18911
Calibration: 1124002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1G18911-CCB1	Chloride	-0.0410	0.170	0.500	mg/L	U	E300.0
1G18911-CCB2	Chloride	0.0640	0.170	0.500	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1G19206
Calibration: 1124002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1G19206-CCB1	Nitrate as N	0.0250	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1G19206-CCB2	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_017
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1G19212
Calibration: 1124002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1G19212-CCB1	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1G19212-CCB2	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1G19212-CCB3	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F14018

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	10.44	37.66	98.0		80 - 120
Nitrate as N	2.778	0.06200	2.797	98.4		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	37.32	96.8	0.910		20	80 - 120
Nitrate as N	2.778	2.776	97.7	0.758		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500S2CF

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F16706

% Solids:

Source Sample Name: **1106155-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfide	1387	ND	983.3	70.9	N	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1387	1003	72.3	1.98	N	20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F27023

% Solids:

Source Sample Name: **1106155-01**

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	171.0	280.8	98.8		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	277.8	96.1	1.06		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1F30012

% Solids:

Source Sample Name: **1106155-01**

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	7.744	155	N	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0046

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1G07021

% Solids:

Source Sample Name: **1106155-01RE1**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfate as SO4	27.78	12.94	40.22	98.2		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfate as SO4	27.78	40.14	97.9	0.202		20	80 - 120

GW0046

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1F14018
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0046

SDG: Kirtland_017
Project: Kirtland AFB 2011
Laboratory ID: 1F14018-DUP1
Lab Source ID: 1106155-01
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	10.4	10.57	1.28		E300.0
Nitrate as N	20	0.0620 J	0.06200 J	0.00		E300.0

GW0096

DUPLICATES

SM2320B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1F29023
Preparation: pNone
Source Sample Name: GW0096

SDG: Kirtland_017
Project: Kirtland AFB 2011
Laboratory ID: 1F29023-DUP1
Lab Source ID: 1106195-01
Initial/Final: 25 mL / 25 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Alkalinity, Total (as CACO3)	20		95.38	1.58		SM2320B

GW0046

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1G07021
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0046

SDG: Kirtland_017
Project: Kirtland AFB 2011
Laboratory ID: 1G07021-DUP2
Lab Source ID: 1106155-01RE1
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Sulfate as SO4	20	12.9	12.82	0.916		E300.0

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F14018	Laboratory ID:	1F14018-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	5.029	105	90 - 110
Nitrate as N	3.616	3.593	99.4	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F16706	Laboratory ID:	1F16706-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1387	1233	88.9	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F16728	Laboratory ID:	1F16728-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	5.159	107	90 - 110
Nitrate as N	3.616	3.653	101	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F17013	Laboratory ID:	1F17013-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.
Nitrate as N	3.616	3.780	105	90 - 110
Sulfate as SO4	24.00	24.47	102	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F20012	Laboratory ID:	1F20012-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.511	94.0	90 - 110
Nitrate as N	3.616	3.553	98.3	90 - 110
Sulfate as SO4	24.00	23.18	96.6	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F21019	Laboratory ID:	1F21019-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.406	91.8	90 - 110
Nitrate as N	3.616	3.490	96.5	90 - 110
Sulfate as SO4	24.00	22.93	95.6	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F23014	Laboratory ID:	1F23014-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1387	1182	85.3	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1387	1200	86.5	1.43	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F27023	Laboratory ID:	1F27023-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	940.5	94.0	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F28020	Laboratory ID:	1F28020-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.499	93.7	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F29023	Laboratory ID:	1F29023-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	1176	118	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1F30012	Laboratory ID:	1F30012-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	5.458	109	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1G07021	Laboratory ID:	1G07021-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.
Sulfate as SO4	24.00	23.75	99.0	90 - 110

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** Kirtland_017

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_017
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_017
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_017

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

Batch: 1F14018 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0046	1106155-01	06/14/11 10:42	5.00	5.00
GW0046	1106155-01	06/14/11 10:42	5.00	5.00
Blank	1F14018-BLK1	06/14/11 10:42	5.00	5.00
LCS	1F14018-BS1	06/14/11 10:42	5.00	5.00
GW0046	1F14018-DUP1	06/14/11 10:42	5.00	5.00
GW0046	1F14018-MS1	06/14/11 10:42	22.50	25.00
GW0046	1F14018-MSD1	06/14/11 10:42	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F16706 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0046	1106155-01	06/16/11 09:24	295.00	200.00
GW0082	1106179-01	06/16/11 09:24	295.00	200.00
Blank	1F16706-BLK1	06/16/11 09:24	250.00	200.00
LCS	1F16706-BS1	06/16/11 09:24	3.00	250.00
GW0046	1F16706-MS1	06/16/11 09:24	3.00	295.00
GW0046	1F16706-MSD1	06/16/11 09:24	3.00	295.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F16728 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0082	1106179-01	06/16/11 16:40	5.00	5.00
GW0082	1106179-01	06/16/11 16:40	5.00	5.00
Blank	1F16728-BLK1	06/16/11 16:40	5.00	5.00
LCS	1F16728-BS1	06/16/11 16:40	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F17013 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0094	1106188-01	06/17/11 15:56	5.00	5.00
GW0094	1106188-01	06/17/11 15:56	5.00	5.00
Blank	1F17013-BLK1	06/17/11 15:56	5.00	5.00
LCS	1F17013-BS1	06/17/11 15:56	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F20012 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0096	1106195-01	06/20/11 10:02	5.00	5.00
GW0096	1106195-01	06/20/11 10:02	5.00	5.00
Blank	1F20012-BLK1	06/20/11 10:02	5.00	5.00
LCS	1F20012-BS1	06/20/11 10:02	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F21019 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0095	1106203-01	06/21/11 11:18	5.00	5.00
GW0095	1106203-01	06/21/11 11:18	5.00	5.00
Blank	1F21019-BLK1	06/21/11 11:18	5.00	5.00
LCS	1F21019-BS1	06/21/11 11:18	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F23014 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0094	1106188-01	06/23/11 09:58	290.00	200.00
GW0096	1106195-01	06/23/11 09:58	290.00	200.00
GW0095	1106203-01	06/23/11 09:58	290.00	200.00
Blank	1F23014-BLK1	06/23/11 09:58	250.00	200.00
LCS	1F23014-BS1	06/23/11 09:58	3.00	250.00
LCS Dup	1F23014-BSD1	06/23/11 09:58	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F27023 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0046	1106155-01	06/27/11 15:56	25.00	25.00
Blank	1F27023-BLK1	06/27/11 15:56	25.00	25.00
LCS	1F27023-BS1	06/27/11 15:56	5.00	25.00
GW0046	1F27023-MS1	06/27/11 15:56	22.50	25.00
GW0046	1F27023-MSD1	06/27/11 15:56	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F28020 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0094	1106188-01RE1	06/17/11 15:56	5.00	5.00
Blank	1F28020-BLK1	06/28/11 14:35	5.00	5.00
LCS	1F28020-BS1	06/28/11 14:35	5.00	5.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F29023 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0082	1106179-01	06/29/11 16:17	25.00	25.00
GW0094	1106188-01	06/29/11 16:17	25.00	25.00
GW0096	1106195-01	06/29/11 16:17	25.00	25.00
GW0095	1106203-01	06/29/11 16:17	25.00	25.00
Blank	1F29023-BLK1	06/29/11 16:17	25.00	25.00
LCS	1F29023-BS1	06/29/11 16:17	5.00	25.00
GW0096	1F29023-DUP1	06/29/11 16:17	25.00	25.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1F30012 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0046	1106155-01	06/30/11 10:17	100.00	100.00
GW0082	1106179-01	06/30/11 10:17	100.00	100.00
GW0094	1106188-01	06/30/11 10:17	100.00	100.00
GW0096	1106195-01	06/30/11 10:17	100.00	100.00
GW0095	1106203-01	06/30/11 10:17	100.00	100.00
Blank	1F30012-BLK1	06/30/11 10:17	100.00	100.00
LCS	1F30012-BS1	06/30/11 10:17	100.00	100.00
GW0046	1F30012-MS1	06/30/11 10:17	100.00	100.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_017

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

Batch: 1G07021 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0046	1106155-01RE1	07/07/11 15:18	5.00	5.00
GW0082	1106179-01RE1	07/07/11 15:18	5.00	5.00
Blank	1G07021-BLK1	07/07/11 15:18	5.00	5.00
LCS	1G07021-BS1	07/07/11 15:18	5.00	5.00
GW0046	1G07021-DUP2	07/07/11 15:18	5.00	5.00
GW0046	1G07021-MS2	07/07/11 15:18	22.50	25.00
GW0046	1G07021-MSD2	07/07/11 15:18	22.50	25.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1F27023-BS1	062711-003	06/27/11 17:35
Blank	1F27023-BLK1	062711-004	06/27/11 17:55
GW0046	1F27023-MS1	062711-006	06/27/11 18:16
GW0046	1F27023-MSD1	062711-007	06/27/11 18:45
LCS	1F29023-BS1	062911-003	06/29/11 16:30
Blank	1F29023-BLK1	062911-004	06/29/11 16:45
GW0096	1F29023-DUP1	062911-009	06/29/11 17:37

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_017

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1F16706-BLK1	061611-003	06/16/11 15:48
LCS	1F16706-BS1	061611-002	06/16/11 16:01
GW0046	1F16706-MS1	061611-016	06/16/11 16:02
GW0046	1F16706-MSD1	061611-017	06/16/11 16:03
Blank	1F23014-BLK1	062311-004	06/23/11 14:03
LCS	1F23014-BS1	062311-002	06/23/11 14:07
LCS Dup	1F23014-BSD1	062311-003	06/23/11 14:08

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1E12407	Instrument:	WC-IC
Calibration:	1124002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1E12407-CAL1	040911-003	04/09/11 12:05
Cal Standard	1E12407-CAL2	040911-004	04/09/11 12:22
Cal Standard	1E12407-CAL3	040911-005	04/09/11 12:39
Cal Standard	1E12407-CAL4	040911-006	04/09/11 12:57
Cal Standard	1E12407-CAL5	040911-007	04/09/11 13:14
Cal Standard	1E12407-CAL6	040911-008	04/09/11 13:32
Cal Standard	1E12407-CAL7	040911-009	04/09/11 13:49
Cal Standard	1E12407-CAL8	040911-010	04/09/11 14:07
Initial Cal Check	1E12407-ICV1	040911-011	04/09/11 14:24
Initial Cal Blank	1E12407-ICB1	040911-012	04/09/11 14:41

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17307	Instrument:	WC-Lachat
Calibration:	1179003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1F17307-CAL1	M_6-22-2011_03-48-54PM-00	06/22/11 15:50
Cal Standard	1F17307-CAL2	M_6-22-2011_03-48-54PM-00	06/22/11 15:51
Cal Standard	1F17307-CAL3	M_6-22-2011_03-48-54PM-00	06/22/11 15:52
Cal Standard	1F17307-CAL4	M_6-22-2011_03-48-54PM-00	06/22/11 15:53
Cal Standard	1F17307-CAL5	M_6-22-2011_03-48-54PM-00	06/22/11 15:54
Cal Standard	1F17307-CAL7	M_6-22-2011_03-48-54PM-00	06/22/11 15:55
Cal Standard	1F17307-CAL6	M_6-22-2011_03-48-54PM-00	06/22/11 15:55
Cal Standard	1F17307-CAL8	M_6-22-2011_03-48-54PM-00	06/22/11 15:56
Initial Cal Check	1F17307-ICV1	M_6-22-2011_03-48-54PM-00	06/22/11 15:57
Initial Cal Blank	1F17307-ICB1	M_6-22-2011_03-48-54PM-01	06/22/11 15:58

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17409	Instrument:	WC-IC
Calibration:	1124002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1F17409-CCV1	062111-002	06/21/11 16:08
Calibration Blank	1F17409-CCB1	062111-003	06/21/11 16:26
Instrument RL Check	1F17409-CRL1	062111-004	06/21/11 16:43
Instrument RL Check	1F17409-CRL2	062111-005	06/21/11 17:01
LCS	1F21019-BS1	062111-006	06/21/11 17:18
Blank	1F21019-BLK1	062111-007	06/21/11 17:36
GW0095	1106203-01	062111-008	06/21/11 17:53
Calibration Check	1F17409-CCV2	062111-011	06/21/11 18:45
Calibration Blank	1F17409-CCB2	062111-012	06/21/11 19:03

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F17923	Instrument:	WC-IC
Calibration:	1124002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1F17923-CCV1	062011-002	06/20/11 11:03
Calibration Blank	1F17923-CCB1	062011-003	06/20/11 11:21
Instrument RL Check	1F17923-CRL1	062011-004	06/20/11 11:38
Instrument RL Check	1F17923-CRL2	062011-005	06/20/11 11:56
LCS	1F20012-BS1	062011-006	06/20/11 12:13
Blank	1F20012-BLK1	062011-007	06/20/11 12:30
GW0096	1106195-01	062011-008	06/20/11 12:48
Calibration Check	1F17923-CCV2	062011-013	06/20/11 14:15
Calibration Blank	1F17923-CCB2	062011-014	06/20/11 14:32

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1F18108	Instrument:	WC-Lachat
Calibration:	1179003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1F18108-CCV1	M_6-30-2011_11-19-32AM-00	06/30/11 11:20
Calibration Blank	1F18108-CCB1	M_6-30-2011_11-19-32AM-00	06/30/11 11:21
Blank	1F30012-BLK1	M_6-30-2011_11-19-32AM-00	06/30/11 11:22
LCS	1F30012-BS1	M_6-30-2011_11-19-32AM-00	06/30/11 11:23
GW0046	1106155-01	M_6-30-2011_11-19-32AM-00	06/30/11 11:24
GW0046	1F30012-MS1	M_6-30-2011_11-19-32AM-00	06/30/11 11:25
Calibration Check	1F18108-CCV2	M_6-30-2011_11-19-32AM-00	06/30/11 11:26
Calibration Blank	1F18108-CCB2	M_6-30-2011_11-19-32AM-00	06/30/11 11:27

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18204	Instrument:	WC-IC
Calibration:	1124002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1G18204-CCV1	061611-002	06/16/11 17:16
Calibration Blank	1G18204-CCB1	061611-003	06/16/11 17:33
Instrument RL Check	1G18204-CRL1	061611-004	06/16/11 17:50
LCS	1F16728-BS1	061611-006	06/16/11 18:25
Blank	1F16728-BLK1	061611-007	06/16/11 18:43
GW0082	1106179-01	061611-008	06/16/11 19:00
Calibration Check	1G18204-CCV2	061611-010	06/16/11 19:35
Calibration Blank	1G18204-CCB2	061611-011	06/16/11 19:52

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18205	Instrument:	WC-IC
Calibration:	1124002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1G18205-CCV1	061411-002	06/14/11 11:19
Calibration Blank	1G18205-CCB1	061411-003	06/14/11 11:36
Instrument RL Check	1G18205-CRL1	061411-004	06/14/11 11:54
Instrument RL Check	1G18205-CRL2	061411-005	06/14/11 12:11
LCS	1F14018-BS1	061411-006	06/14/11 12:29
Blank	1F14018-BLK1	061411-007	06/14/11 12:46
GW0046	1106155-01	061411-009	06/14/11 13:21
GW0046	1F14018-MS1	061411-010	06/14/11 13:38
GW0046	1F14018-MSD1	061411-011	06/14/11 13:56
GW0046	1F14018-DUP1	061411-012	06/14/11 14:13
Calibration Check	1G18205-CCV2	061411-015	06/14/11 15:06
Calibration Blank	1G18205-CCB2	061411-016	06/14/11 15:23

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18909	Instrument:	WC-Lachat
Calibration:	1189002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1G18909-CAL1	)M_7-8-2011_02-46-38PM-00	07/08/11 14:47
Cal Standard	1G18909-CAL2	)M_7-8-2011_02-46-38PM-00	07/08/11 14:48
Cal Standard	1G18909-CAL3	)M_7-8-2011_02-46-38PM-00	07/08/11 14:49
Cal Standard	1G18909-CAL4	)M_7-8-2011_02-46-38PM-00	07/08/11 14:50
Cal Standard	1G18909-CAL5	)M_7-8-2011_02-46-38PM-00	07/08/11 14:51
Cal Standard	1G18909-CAL6	)M_7-8-2011_02-46-38PM-00	07/08/11 14:52
Cal Standard	1G18909-CAL7	)M_7-8-2011_02-46-38PM-00	07/08/11 14:53
Cal Standard	1G18909-CAL8	)M_7-8-2011_02-46-38PM-00	07/08/11 14:54
Initial Cal Check	1G18909-ICV1	)M_7-8-2011_02-46-38PM-00	07/08/11 14:55
Initial Cal Blank	1G18909-ICB1	)M_7-8-2011_02-46-38PM-01	07/08/11 14:56
GW0082	1106179-01	)M_7-8-2011_02-46-38PM-01	07/08/11 15:01
GW0094	1106188-01	)M_7-8-2011_02-46-38PM-01	07/08/11 15:03
GW0096	1106195-01	)M_7-8-2011_02-46-38PM-01	07/08/11 15:04
GW0095	1106203-01	)M_7-8-2011_02-46-38PM-01	07/08/11 15:05
Calibration Check	1G18909-CCV1	)M_7-8-2011_02-46-38PM-02	07/08/11 15:07
Calibration Blank	1G18909-CCB1	)M_7-8-2011_02-46-38PM-02	07/08/11 15:08

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G18911	Instrument:	WC-IC
Calibration:	1124002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1G18911-CCV1	062811-002	06/28/11 15:34
Calibration Blank	1G18911-CCB1	062811-003	06/28/11 15:52
Instrument RL Check	1G18911-CRL1	062811-004	06/28/11 16:09
LCS	1F28020-BS1	062811-005	06/28/11 16:27
Blank	1F28020-BLK1	062811-006	06/28/11 16:44
GW0094	1106188-01RE1	062811-009	06/28/11 17:36
Calibration Check	1G18911-CCV2	062811-014	06/28/11 19:03
Calibration Blank	1G18911-CCB2	062811-015	06/28/11 19:21

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G19206	Instrument:	WC-IC
Calibration:	1124002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1G19206-CCV1	061711-002	06/17/11 17:08
Calibration Blank	1G19206-CCB1	061711-003	06/17/11 18:13
Instrument RL Check	1G19206-CRL1	061711-004	06/17/11 18:31
Instrument RL Check	1G19206-CRL2	061711-005	06/17/11 18:48
LCS	1F17013-BS1	061711-006	06/17/11 19:06
Blank	1F17013-BLK1	061711-007	06/17/11 19:23
GW0094	1106188-01	061711-008	06/17/11 19:40
Calibration Check	1G19206-CCV2	061711-009	06/17/11 19:58
Calibration Blank	1G19206-CCB2	061711-010	06/17/11 20:15

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_017
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G19212	Instrument:	WC-IC
Calibration:	1124002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1G19212-CCV1	070711-002	07/07/11 16:47
Calibration Blank	1G19212-CCB1	070711-003	07/07/11 17:04
Instrument RL Check	1G19212-CRL2	070711-005	07/07/11 17:39
LCS	1G07021-BS1	070711-006	07/07/11 17:57
Blank	1G07021-BLK1	070711-007	07/07/11 18:14
Calibration Check	1G19212-CCV2	070711-014	07/07/11 20:16
Calibration Blank	1G19212-CCB2	070711-015	07/07/11 20:33
GW0046	1106155-01RE1	070711-017	07/07/11 21:08
GW0046	1G07021-MS2	070711-018	07/07/11 21:26
GW0046	1G07021-MSD2	070711-019	07/07/11 21:43
GW0046	1G07021-DUP2	070711-020	07/07/11 22:00
GW0082	1106179-01RE1	070711-021	07/07/11 22:18
Calibration Check	1G19212-CCV3	070711-026	07/07/11 23:45
Calibration Blank	1G19212-CCB3	070711-027	07/08/11 00:02