ANALYTICALSUMMARY DATA PACKAGE
SDG # KIRTLAND_023

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

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THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

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

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Sample Delivery Group Case Narrative

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

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

Portion of samples received Monday 8/8/11 were outside of the temperature required upon receipt to the laboratory. As per the client, all samples are to be analyzed regardless of temperature.

Changes to the Revision
The package was revised to change the client ID of sample 1108110-07 from GW8020-RB to GW8023-RB as was indicated on the CoC. The package was also revised to add Fluorene to sample 1108110-07 (GW8023-RB) for SW8270C.

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 1H13002-BLK1 and 1H14001-BLK1 have positive results for Hexachlorobutadiene.

The batch spikes associated to batch 1H14002 exceeded recovery criteria with a positive bias for Acetone, Bromodichloromethane, 2-Butanone, Chloromethane, 1,2-Dichloroethane, 2-Hexanone, and 4-Methyl-2-pentanone. The batch spike associated to batch 1H20001 exceeded criteria with a positive bias for Acetone and Hexachlorobutadiene.

The matrix spikes associated to sample 1107251-01 exceeded recovery criteria with a negative bias for 2,2-Dichloropropane.

The continuing calibration verifications exceeded criteria in 1H22602-CCV1 and 1H22908-CCV1 with a negative bias for Bromomethane and with a positive bias for Carbon Disulfide, Trans-1,3-Dichloropropane, and 2-Hexanone, in 1H22802-CCV1 with a positive bias for Acetone, Bromodichloromethane, 2-Butanone, Carbon Disulfide, Carbon Tetrachloride, Chloroethane, Chloromethane, Dichlorodifluoromethane, 1,1-Dichloroethane, 1,2-Dichloroethane, 2,2-Dichloropropane, 2-Hexanone, 4-Methyl-2-pentanone, 1,1,-Trichloroethane, and Trichlorofluoromethane and with a negative bias for 1,2,3-Trichlorobenzene, in 1H23006-CCV1 and –CCV2 with a negative bias for Bromomethane and Chloromethane and with a positive bias for Carbon Disulfide, Trans-1,3-Dichloropropen, and 2-Hexanone, and in 1H23204-CCV1 with a positive bias for n-Butylbenzene, Carbon Disulfide, Chloroethane, Dichlorodifluoromethane, 1,1-Dichloroethane, 2,2-Dichloropropane, 1,1-Dichloropropene, Hexachlorobutadiene, Trichlorofluoromethane, and Vinyl Chloride and with a negative bias for Chloromethane.

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

SW8270C BNA:
The surrogate 2-Fluorobiphenyl exceeded criteria with a negative bias in 1H12004-BLK1, 1H15007-BLK1, -BS1, -BSD1, 1108166-01, 1108152-01, -03, -05, -09, and 1108138-01. The surrogate 2-Fluorophenol exceeded criteria with a negative bias in 1108138-01. The surrogate 2,4,6-Tribromophenol exceeded criteria with a negative bias in 1108166-01.

The method blanks 1H10018-BLK1 have positive result for Bis(2-ethylhexyl)phthalate.

The batch spike associated to batch 1H12004 exceeded recovery criteria with a negative bias for Caprolactam, Hexachloroethane, Hexachlorobutadiene, 2-Methylphenol, 2,4,6-Trichlorophenol, and 2,4,5-Trichlorophenol, and Atrazine, with a positive bias for Butylbenzylphthalate and Bis(2-ethylhexyl)phthalate, and exceeded relative percent difference criteria for Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, and Pentachlorophenol. The batch spikes associated to batch 1H15007 exceeded recovery criteria with a positive bias Butylbenzylphthlate, Di-n-octylphthalate, Benzo(a)anthracene, and Bis(2-ethylhexyl)phthalate, with a negative bias for Caprolactam, Atrazine, 4-Chloro-3-methylphenol, Hexachloroethane, 2-Methylphenol, 2,4,6-Trichlorophenol, and 2,4,5-Trichlorophenol, exceeded recovery criteria with no recovery in the batch spike for 2,4-Dinitrophenol, and exceeded relative percent difference criteria for

4,6-Dinitro-2-methylphenol, 2-Nitrophenol, and Pentachlorophenol. The batch spike associated to batch 1H10018 exceeded criteria with a negative bias for Caprolactam and with a positive bias for Butylbenzylphthalate and Bis(2-ethylhexyl)phthalate.

The matrix spikes associated to sample 1108138-01 exceeded recovery criteria with a positive bias for Butylbenzylphthalate and Bis(2-ethylhexyl)phthalate, exceeded recovery criteria with a negative bias for Caprolactam, Atazine, 4-Chloro-3-methylphenol, 2-Methylphenol, 2,4,5-Trichlorophenol, and 2,4,6-Trichlorophenol, and exceeded relative percent difference criteria for Caprolactam, Acetophenone, Atrazine, Benzaldehyde, 4-Chloro-3-methylphenol, Bis(2-Chloroethoxy)methane, Bis(2-chloroethyl)ether, 2,2'-Oxybis-1-chloropropane, 2-Chlorophenol, 2,4-Dichlorophenol, Diethylphthalate, 2,4-Dimethylphenol, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, Isophorone, 2-Methylphenol, 3-Methylphenol/4-Methylphenol, 2-Nitroaniline, Nitrobenzene, 4-Nitrophenol, 2-Nitrophenol, N-nitroso-di-n-propylamine, Pentachlorophenol, Phenol, 2,4,5-Trichlorophenol, and 2,4,6-Trichlorophenol.

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

The continuing calibration verifications exceeded criteria in 1H23205-CCV1 with a positive bias for Benzidine, Butylbenzylphthalate, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate, in 1H23536-CCV1 and 1H23537-CCV1 with a positive bias for Butylbenzylphthalate, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate, in 1H23612-CCV1 with a positive bias for Benzidine, Benzo(b)fluoranthene, Butylbenzylphthalate, 2-Chloronaphthalene, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate, in 1H23813-CCV1 with a positive bias for Benzidine, Benzo(b)fluoranthene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate, in 1H24204-CCV1 with a positive bias for Benzidine, Butylbenzylphthalate, and, Di-n-octylphthalate and with a negative bias for Benzoic Acid and 2,2'-Oxybis-1-chloropropane, in 1H24307-CCV1 with a positive bias for Benzo(b)fluoranthene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate, and in 1I24513-CCV1 with a positive bias for Benzidine, Benzo(b)fluoranthene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate.

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

SW8015B GRO:
No anomalies or deviations are noted.

SW8015B DRO:
The batch spikes associated to batch 1H12029 exceeded criteria with a negative bias for Diesel Range Organics.

The matrix spikes associated to sample 1108138-01 exceeded criteria with a negative

bias for Diesel Range Organics.

The continuing calibration verifications 1I24405-CCV1, -CCV2, and –CCV3 exceeded criteria with a negative bias for o-Terphenyl.

The surrogate o-Terphenyl exceeded the retention time window in 1108152-05, -07, -09, 1I24405-CCV2, and –CCV3.

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

SW8011 EDB:
The batch spike associated to batch 1H12014 exceeded criteria with a positive bias on column 1 for 1,2-Dibromoethane.

The matrix spike associated to sample 1108138-01 exceeded criteria with a positive bias on column 1 for 1,2-Dibromoethane.

The continuing calibration verifications exceeded criteria in 1H22910-CCV1, -CCV2, -CCV3, -CCV4, 1H23603-CCV3, and 1H23604-CCV2 with a positive bias on column 1 for 1,2-Dibromoethane and in 1H23603-CCV1 and –CCV2 with a negative bias on column 2 for 1,2-Dibromoethane.

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

SW6010B:
No anomalies or deviations are noted.

Wet Chemistry:
Samples 1108110-01, -03, -05, -07, -09, 1109126-01, -03, 1108138-01, -02, 1108152-01, -03, -05, -07, -09, and 1108166-01 are qualified with an M for Chloride to indicate that the LOQ was raised to the 1.0mg/L which is the level of the RL standard within criteria.

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

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW089

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

Samples Shipment Date: 08 AUG 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306614936

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: 8/8/11 Time: 1600
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) [signature] 2.7°C — Date: 8.9.11 Time: 0900

Comments:

1108110

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0155-R	KAFB-106025-WG-GW0155-R-REG	08 AUG 2011	11:33	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0155-R	KAFB-106025-WG-GW0155-R-REG	08 AUG 2011	11:33	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0155-R	KAFB-106025-WG-GW0155-R-REG	08 AUG 2011	11:33	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0155-R	KAFB-106025-WG-GW0155-R-REG	08 AUG 2011	11:33	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
-02	GW0155-R	KAFB-106025-WG-GW0155-R-REG	08 AUG 2011	11:33	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0155-R	KAFB-106025-WG-GW0155-R-REG	08 AUG 2011	11:33	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-01	GW0155-R	KAFB-106025-WG-GW0155-R-REG	08 AUG 2011	11:33	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		

Kirtland_023 Summ Package

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Reference Document No: 140705-GW089

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0155-R	KAFB-106025-WG-GW0155-R-REG	08 AUG 2011	11:33	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0155-R	KAFB-106025-WG-GW0155-R-REG	08 AUG 2011	11:33	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0155-R	KAFB-106025-WG-GW0155-R-REG	08 AUG 2011	11:33	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0155-R	KAFB-106025-WG-GW0155-R-REG	08 AUG 2011	11:33	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
-03	GW0156-R	KAFB-106026-WG-GW0156-R-REG	08 AUG 2011	11:54	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0156-R	KAFB-106026-WG-GW0156-R-REG	08 AUG 2011	11:54	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0156-R	KAFB-106026-WG-GW0156-R-REG	08 AUG 2011	11:54	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0156-R	KAFB-106026-WG-GW0156-R-REG	08 AUG 2011	11:54	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0156-R	KAFB-106026-WG-GW0156-R-REG	08 AUG 2011	11:54	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0156-R	KAFB-106026-WG-GW0156-R-REG	08 AUG 2011	11:54	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0156-R	KAFB-106026-WG-GW0156-R-REG	08 AUG 2011	11:54	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04	GW0156-R	KAFB-106026-WG-GW0156-R-REG	08 AUG 2011	11:54	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-03	GW0156-R	KAFB-106026-WG-GW0156-R-REG	08 AUG 2011	11:54	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0156-R	KAFB-106026-WG-GW0156-R-REG	08 AUG 2011	11:54	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0156-R	KAFB-106026-WG-GW0156-R-REG	08 AUG 2011	11:54	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
-05	GW0176	KAFB-106046-WG-GW0176-REG	08 AUG 2011	14:51	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0176	KAFB-106046-WG-GW0176-REG	08 AUG 2011	14:51	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0176	KAFB-106046-WG-GW0176-REG	08 AUG 2011	14:51	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0176	KAFB-106046-WG-GW0176-REG	08 AUG 2011	14:51	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-06	GW0176	KAFB-106046-WG-GW0176-REG	08 AUG 2011	14:51	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0176	KAFB-106046-WG-GW0176-REG	08 AUG 2011	14:51	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0176	KAFB-106046-WG-GW0176-REG	08 AUG 2011	14:51	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0176	KAFB-106046-WG-GW0176-REG	08 AUG 2011	14:51	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0176	KAFB-106046-WG-GW0176-REG	08 AUG 2011	14:51	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0176	KAFB-106046-WG-GW0176-REG	08 AUG 2011	14:51	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0176	KAFB-106046-WG-GW0176-REG	08 AUG 2011	14:51	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW089

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-07	GW8023-RB	FIELDQC-BW-GW8023-RB-ER	08 AUG 2011	08:41	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW8023-RB	FIELDQC-BW-GW8023-RB-ER	08 AUG 2011	08:41	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW8023-RB	FIELDQC-BW-GW8023-RB-ER	08 AUG 2011	08:41	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW8023-RB	FIELDQC-BW-GW8023-RB-ER	08 AUG 2011	08:41	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-08	GW8023-RB	FIELDQC-BW-GW8023-RB-ER	08 AUG 2011	08:41	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW8023-RB	FIELDQC-BW-GW8023-RB-ER	08 AUG 2011	08:41	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
-07	GW8023-RB	FIELDQC-BW-GW8023-RB-ER	08 AUG 2011	08:41	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW8023-RB	FIELDQC-BW-GW8023-RB-ER	08 AUG 2011	08:41	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW8023-RB	FIELDQC-BW-GW8023-RB-ER	08 AUG 2011	08:41	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW8023-RB	FIELDQC-BW-GW8023-RB-ER	08 AUG 2011	08:41	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW8023-RB	FIELDQC-BW-GW8023-RB-ER	08 AUG 2011	08:41	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
-09	GW8089-TB	FIELDQC-BW-GW8089-TB-TB	08 AUG 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108110 Number of Coolers: 1 of 3

Client: Shaw Project: Kirtland AFB

Date/Time Received: 8.9.11 0900 Date cooler(s) opened: 8.9.11

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: 4936

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

How many: 1 Seal date: 8.8.11 Seal Initials: ?

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

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.3 °C Correction Factor: +1.4 °C Final Value: 2.7 °C

Dates samples were logged-in: 8.9.11

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 NO2+NO3, Ammonia, and metals were <2

Ph for sulfide was >9

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108110 Number of Coolers: 2 of 3

Client: Shaw Project: Kirtland AFB

Date/Time Received: 8.9.11 0900 Date cooler(s) opened: 8.9.11

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: 4947

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

How many: 1 Seal date: 8.8.11 Seal Initials: ?

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

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 0.9 °C Correction Factor: +1.4 °C Final Value: 2.3 °C

Dates samples were logged-in: 8.9.11

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: _____

See pg 1

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108110 Number of Coolers: 3 of 3

Client: Shaw Project: Kirtland AFB

Date/Time Received: 8.9.11 0900 Date cooler(s) opened: 8.9.11

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: 4958

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

How many: 1 Seal date: 8.8.11 Seal Initials: ?

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

Type of Coolant (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.7 °C Correction Factor: +1.4 °C Final Value: 3.1 °C

Dates samples were logged-in: 8.9.11

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: _____

See pg 1

Shaw
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW090

18

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

Samples Shipment Date: 09 AUG 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306614969

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

1. Relinquished By (Signature/Affiliation) Shaw Date: 8/9/11 Time: 1600
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

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

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) 0.4°C Date: 8-10-11 Time: 05:00

Comments:
1108RG

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0162	KAFB-106034-WG-GW0162-REG	09 AUG 2011	12:47	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0162	KAFB-106034-WG-GW0162-REG	09 AUG 2011	12:47	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0162	KAFB-106034-WG-GW0162-REG	09 AUG 2011	12:47	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0162	KAFB-106034-WG-GW0162-REG	09 AUG 2011	12:47	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0162	KAFB-106034-WG-GW0162-REG	09 AUG 2011	12:47	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-02 GW0162	KAFB-106034-WG-GW0162-REG	09 AUG 2011	12:47	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

Kirtland_023 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW090

1108126

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0162	KAFB-106034-WG-GW0162-REG	09 AUG 2011	12:47	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0162	KAFB-106034-WG-GW0162-REG	09 AUG 2011	12:47	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0162	KAFB-106034-WG-GW0162-REG	09 AUG 2011	12:47	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0162	KAFB-106034-WG-GW0162-REG	09 AUG 2011	12:47	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
-02	GW0162	KAFB-106034-WG-GW0162-REG	09 AUG 2011	12:47	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03	GW0244	KAFB-106103-WG-GW0244-REG	08 AUG 2011	15:46	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0244	KAFB-106103-WG-GW0244-REG	08 AUG 2011	15:46	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0244	KAFB-106103-WG-GW0244-REG	08 AUG 2011	15:46	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0244	KAFB-106103-WG-GW0244-REG	08 AUG 2011	15:46	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04	GW0244	KAFB-106103-WG-GW0244-REG	08 AUG 2011	15:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03	GW0244	KAFB-106103-WG-GW0244-REG	08 AUG 2011	15:46	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0244	KAFB-106103-WG-GW0244-REG	08 AUG 2011	15:46	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0244	KAFB-106103-WG-GW0244-REG	08 AUG 2011	15:46	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0244	KAFB-106103-WG-GW0244-REG	08 AUG 2011	15:46	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-04	GW0244	KAFB-106103-WG-GW0244-REG	08 AUG 2011	15:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-03	GW0244	KAFB-106103-WG-GW0244-REG	08 AUG 2011	15:46	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
-05	GW8090-TB	FIELDQC-BW-GW8090-TB-TB	09 AUG 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108126 Number of Coolers: 1 of 2

Client: SHAW Project: KIRTLAND AFB

Date/Time Received: 8/10/11 0900 Date cooler(s) opened:

Opened By (print): BEN WRIGHT (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: 4970

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

How many: 1 Seal date: 8/9/11 Seal Initials: _____

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

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: -1.0 °C Correction Factor: +1.4 °C Final Value: 0.4 °C

Dates samples were logged-in: 8-10-11

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

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

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

- ph > 9 for all sulfides
- ph < 2 for all metals, ammonia, & NO_2+NO_3 samples.

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108126 Number of Coolers: 2 of 2

Client: SWMD Project: KIRTLAND AFB

Date/Time Received: 8/10/11 1900 Date cooler(s) opened: 8/10/11

Opened By (print): BEN WRIGHT (signature): B Wright

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: 4969

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

How many: 1 Seal date: 8/9/11 Seal Initials: ?

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

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.0 °C Correction Factor: +1.4 °C Final Value: 2.4 °C

Dates samples were logged-in: 8-10-11

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

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW091

22

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

Samples Shipment Date: 10 AUG 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306614980

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) Shaw — Date: 8/10/11 Time: 1600
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: 8/11/11 Time: 0900

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		

Kirtland_023 Summ Package

Shaw
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW091

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW091

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
Ø2	GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
Ø3	GW8091-TB	FIELDQC-BW-GW8091-TB-TB	10 AUG 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: _____ Number of Coolers: 1 of 3

Client: SMAnd Project: KIRTLAND AFB

Date/Time Received: 8/11/11 0900 Date cooler(s) opened: 8/11/11

Opened By (print): (signature): [illegible]

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: 4980

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

How many: 1 Seal date: 8/10/11 Seal Initials: PG

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: 2.8 °C Correction Factor: +1.4 °C Final Value: 3.2 °C

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

9. Initial this form to acknowledge login of sample(s): (Name): BEN WRIGHT (Initial): BW

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: _____

Date/Time Received: 8/11/11 0900 Date cooler(s) opened: 8/11/11

Opened By (print): BEN WRIGHT (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: 50005

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

How many: 1 Seal date: 8/10/11 Seal Initials: BW

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: -1.0 °C Correction Factor: +1.4 °C Final Value: 0.4 °C

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

9. Initial this form to acknowledge login of sample(s): (Name): BEN WRIGHT (Initial): BW

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: _____ Number of Coolers: 3 of 3

Client: SHAW Project: KIRTLAND AFB

Date/Time Received: 8/11/11 0900 Date cooler(s) opened: 8/11/11

Opened By (print): BEN WRIGHT (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: 4991

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

How many: 1 Seal date: 8/10/11 Seal Initials: ?

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

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 3.1 °C Correction Factor: +1.4 °C Final Value: 4.5 °C

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

9. Initial this form to acknowledge login of sample(s): (Name): BEN WRIGHT (Initial): BW

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 BW 8/11
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: _____

Shaw™
Shaw E & I, Inc.

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW091

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

Samples Shipment Date: 10 AUG 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306614980

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) Shaw — Date: 8/10/11 Time: 1600
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: 8/11/11 Time: 0900

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		

Kirtland_023 Summ Package

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Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW091

-01

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0160	KAFB-106032-WG-GW0160-REG	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0160-MS	KAFB-106032-WG-GW0160-MS-MS	10 AUG 2011	10:46	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0160-MSD	KAFB-106032-WG-GW0160-MSD-MSD	10 AUG 2011	10:46	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW091

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0191	KAFB-106061-WG-GW0191-REG	10 AUG 2011	12:32	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW8091-TB	FIELDQC-BW-GW8091-TB-TB	10 AUG 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

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EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: _____ Number of Coolers: _____ of _____

Client: SHAW Project: KIRTLAND AFB

Date/Time Received: 8/11/11 0900 Date cooler(s) opened: 8/11/11

Opened By (print): BEN WRIGHT (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: 4991

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

How many: 1 Seal date: 8/10/11 Seal Initials: ?

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

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 3.1 °C Correction Factor: +1.4 °C Final Value: 4.5 °C

Dates samples were logged-in:

9. Initial this form to acknowledge login of sample(s): (Name): BEN WRIGHT (Initial): BW

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: _____

Shaw
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW092

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

Samples Shipment Date: 11 AUG 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306615016

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) Shaw — Date: 8/11/11 Time: 1600
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) 2.4°C — Date: 8-12-11 Time: 09:00

Comments:

1108152

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0161	KAFB-106033-WG-GW0161-REG	10 AUG 2011	14:55	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0161	KAFB-106033-WG-GW0161-REG	10 AUG 2011	14:55	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0161	KAFB-106033-WG-GW0161-REG	10 AUG 2011	14:55	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0161	KAFB-106033-WG-GW0161-REG	10 AUG 2011	14:55	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0161	KAFB-106033-WG-GW0161-REG	10 AUG 2011	14:55	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02	GW0161	KAFB-106033-WG-GW0161-REG	10 AUG 2011	14:55	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		

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1108152

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW092

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
	GW0161	KAFB-106033-WG-GW0161-REG	10 AUG 2011	14:55	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
-01	GW0161	KAFB-106033-WG-GW0161-REG	10 AUG 2011	14:55	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0161	KAFB-106033-WG-GW0161-REG	10 AUG 2011	14:55	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0161	KAFB-106033-WG-GW0161-REG	10 AUG 2011	14:55	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-02	GW0161	KAFB-106033-WG-GW0161-REG	10 AUG 2011	14:55	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-03	GW0177	KAFB-106047-WG-GW0177-REG	11 AUG 2011	14:20	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0177	KAFB-106047-WG-GW0177-REG	11 AUG 2011	14:20	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0177	KAFB-106047-WG-GW0177-REG	11 AUG 2011	14:20	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0177	KAFB-106047-WG-GW0177-REG	11 AUG 2011	14:20	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0177	KAFB-106047-WG-GW0177-REG	11 AUG 2011	14:20	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0177	KAFB-106047-WG-GW0177-REG	11 AUG 2011	14:20	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0177	KAFB-106047-WG-GW0177-REG	11 AUG 2011	14:20	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
-04	GW0177	KAFB-106047-WG-GW0177-REG	11 AUG 2011	14:20	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0177	KAFB-106047-WG-GW0177-REG	11 AUG 2011	14:20	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-03	GW0177	KAFB-106047-WG-GW0177-REG	11 AUG 2011	14:20	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0177	KAFB-106047-WG-GW0177-REG	11 AUG 2011	14:20	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
-04	GW0178	KAFB-106048-WG-GW0178-REG	11 AUG 2011	11:36	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0178	KAFB-106048-WG-GW0178-REG	11 AUG 2011	11:36	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0178	KAFB-106048-WG-GW0178-REG	11 AUG 2011	11:36	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-06	GW0178	KAFB-106048-WG-GW0178-REG	11 AUG 2011	11:36	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0178	KAFB-106048-WG-GW0178-REG	11 AUG 2011	11:36	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0178	KAFB-106048-WG-GW0178-REG	11 AUG 2011	11:36	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0178	KAFB-106048-WG-GW0178-REG	11 AUG 2011	11:36	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0178	KAFB-106048-WG-GW0178-REG	11 AUG 2011	11:36	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0178	KAFB-106048-WG-GW0178-REG	11 AUG 2011	11:36	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0178	KAFB-106048-WG-GW0178-REG	11 AUG 2011	11:36	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
-07	GW0180	KAFB-106050-WG-GW0180-REG	11 AUG 2011	11:46	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW092

1108152

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-07	GW0180	KAFB-106050-WG-GW0180-REG	11 AUG 2011	11:46	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0180	KAFB-106050-WG-GW0180-REG	11 AUG 2011	11:46	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0180	KAFB-106050-WG-GW0180-REG	11 AUG 2011	11:46	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
-08	GW0180	KAFB-106050-WG-GW0180-REG	11 AUG 2011	11:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-07	GW0180	KAFB-106050-WG-GW0180-REG	11 AUG 2011	11:46	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0180	KAFB-106050-WG-GW0180-REG	11 AUG 2011	11:46	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0180	KAFB-106050-WG-GW0180-REG	11 AUG 2011	11:46	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0180	KAFB-106050-WG-GW0180-REG	11 AUG 2011	11:46	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0180	KAFB-106050-WG-GW0180-REG	11 AUG 2011	11:46	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
-08	GW0180	KAFB-106050-WG-GW0180-REG	11 AUG 2011	11:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-09	GW0181	KAFB-106050-WG-GW0181-FD	11 AUG 2011	11:46	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0181	KAFB-106050-WG-GW0181-FD	11 AUG 2011	11:46	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0181	KAFB-106050-WG-GW0181-FD	11 AUG 2011	11:46	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0181	KAFB-106050-WG-GW0181-FD	11 AUG 2011	11:46	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0181	KAFB-106050-WG-GW0181-FD	11 AUG 2011	11:46	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-10	GW0181	KAFB-106050-WG-GW0181-FD	11 AUG 2011	11:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0181	KAFB-106050-WG-GW0181-FD	11 AUG 2011	11:46	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-09	GW0181	KAFB-106050-WG-GW0181-FD	11 AUG 2011	11:46	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0181	KAFB-106050-WG-GW0181-FD	11 AUG 2011	11:46	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0181	KAFB-106050-WG-GW0181-FD	11 AUG 2011	11:46	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0181	KAFB-106050-WG-GW0181-FD	11 AUG 2011	11:46	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
-11	GW8092-TB	FIELDQC-BW-GW8092-TB-TB	11 AUG 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108152 Number of Coolers: 1 of 3

Client: SWAN Project: Kirtland AFB

Date/Time Received: 8/12/11 0900 Date cooler(s) opened: 8/12/11

Opened By (print): BEN WRIGHT (signature): Ben C. Wright

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: 5027

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

How many: 1 Seal date: 8/11/11 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: 1.0 °C Correction Factor: +1.4 °C Final Value: 2.4 °C

Dates samples were logged-in: 8-12-11

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

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

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

· pH > 9 for all Sulfides

· pH < 2 for all NO_2+NO_3, ammonia, phenols, Sulfides

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108152 Number of Coolers: 2 of 2

Client: SMAW Project: KIRTLAND AFB

Date/Time Received: 8/12/11 0900 Date cooler(s) opened: 8/12/11

Opened By (print): BEN WRIGHT (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: 5038

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

How many: 1 Seal date: 8/11/11 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: -1.0 °C Correction Factor: +1.4 °C Final Value: 0.4 °C

Dates samples were logged-in:

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: _____

Sec 1 of 3

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108152 Number of Coolers: 3 of 3

Client: SHAW Project: KIRTLAND AFB

Date/Time Received: 8/12/11 0900 Date cooler(s) opened: 8/12/11

Opened By (print): BEN WRIGHT (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: 5016

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

How many: 1 Seal date: 8/11/11 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: -1.0 °C Correction Factor: **+1.4** °C Final Value: 0.4 °C

Dates samples were logged-in:

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 3

Shaw
Shaw E & I, Inc.

1108166

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW093

38

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

Samples Shipment Date: 12 AUG 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306615060

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) Shaw Date: 8/12/11 Time: 1400
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) Date: 8/13/11 Time: 915

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0179	KAFB-106049-WG-GW0179-REG	12 AUG 2011	11:17	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0179	KAFB-106049-WG-GW0179-REG	12 AUG 2011	11:17	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0179	KAFB-106049-WG-GW0179-REG	12 AUG 2011	11:17	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0179	KAFB-106049-WG-GW0179-REG	12 AUG 2011	11:17	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0179	KAFB-106049-WG-GW0179-REG	12 AUG 2011	11:17	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0179	KAFB-106049-WG-GW0179-REG	12 AUG 2011	11:17	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		

Kirtland_023 Summ Package

Shaw™
Shaw E & I, Inc.

1108166

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW093

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0179	KAFB-106049-WG-GW0179-REG	12 AUG 2011	11:17	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0179	KAFB-106049-WG-GW0179-REG	12 AUG 2011	11:17	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0179	KAFB-106049-WG-GW0179-REG	12 AUG 2011	11:17	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
02	GW0179	KAFB-106049-WG-GW0179-REG	12 AUG 2011	11:17	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0179	KAFB-106049-WG-GW0179-REG	12 AUG 2011	11:17	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
03	GW8093-TB	FIELDQC-BW-GW8093-TB-TB	12 AUG 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108166 Number of Coolers: 1 of 1

Client: SHAW Project: KIRTLAND AFB

Date/Time Received: 8/13/11 Date cooler(s) opened: 8/13/11 915

Opened By (print): BEN WRIGHT (signature): B. C. Wright

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: 5060

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

How many: 1 Seal date: 8/12/11 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: 1.0 °C Correction Factor: +1.4 °C Final Value: 2.4 °C

Dates samples were logged-in: 8/13/11

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

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: _____

WORK ORDER

1108110

Printed: 9/9/2011 3:52:48PM

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: 08/30/2011 16:00 (15 day TAT)
Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 08/09/2011 09:00
Date Logged In 08/09/2011 10:11

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

1108110

Printed: 9/9/2011 3:52:48PM

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
1108110-01 GW0155-R [Water] Sampled 08/08/2011 11:33 Mountain					
SW8015B GRO	08/25/2011 14:00	15	08/22/2011 12:33		
SW8015B DRO	08/25/2011 14:00	15	08/15/2011 12:33		LOW SAMPLE VOLUME
SW6010B	08/25/2011 14:00	15	02/04/2012 12:33		Ca, Pb, K, Na, Mg
SW8270C	08/25/2011 14:00	15	08/15/2011 12:33		requires 3-Methlphenol/4-Methylphenol,LOW SAMPLE VOLUME
SW8011	08/25/2011 14:00	15	08/22/2011 12:33		
SW8260B	08/25/2011 14:00	15	08/22/2011 12:33		
SM2320B	08/25/2011 14:00	15	08/22/2011 12:33		carb/bicarb
SM4500NH3BG	08/25/2011 14:00	15	09/05/2011 12:33		
E300.0	08/25/2011 14:00	15	09/05/2011 12:33		Cl, SO4
E353.2	08/25/2011 14:00	15	09/05/2011 12:33		
SM4500S2CF	08/25/2011 14:00	15	08/15/2011 12:33		
1108110-02 GW0155-R [Water] Sampled 08/08/2011 11:33 Mountain					
SW6010B	08/25/2011 14:00	15	02/04/2012 12:33		Fe & Mn

WORK ORDER

1108110

Printed: 9/9/2011 3:52:48PM

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
1108110-03 GW0156-R [Water] Sampled 08/08/2011 11:54 Mountain					
SM4500NH3BG	08/25/2011 14:00	15	09/05/2011 12:54		
SW8015B GRO	08/25/2011 14:00	15	08/22/2011 12:54		
E300.0	08/25/2011 14:00	15	09/05/2011 12:54		Cl, SO4
SM2320B	08/25/2011 14:00	15	08/22/2011 12:54		carb/bicarb
SM4500S2CF	08/25/2011 14:00	15	08/15/2011 12:54		
SW6010B	08/25/2011 14:00	15	02/04/2012 12:54		Ca, Pb, K, Na, Mg
SW8015B DRO	08/25/2011 14:00	15	08/15/2011 12:54		LOW SAMPLE VOLUME
SW8011	08/25/2011 14:00	15	08/22/2011 12:54		
SW8260B	08/25/2011 14:00	15	08/22/2011 12:54		
E353.2	08/25/2011 14:00	15	09/05/2011 12:54		
SW8270C	08/25/2011 14:00	15	08/15/2011 12:54		requires 3-Methlphenol/4-Methylphenol,LOW SAMPLE VOLUME
1108110-04 GW0156-R [Water] Sampled 08/08/2011 11:54 Mountain					
SW6010B	08/25/2011 14:00	15	02/04/2012 12:54		Fe & Mn

WORK ORDER

1108110

Printed: 9/9/2011 3:52:48PM

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
1108110-05 GW0176 [Water] Sampled 08/08/2011 14:51 Mountain					
SW8011	08/25/2011 14:00	15	08/22/2011 15:51		
SM4500S2CF	08/25/2011 14:00	15	08/15/2011 15:51		
E353.2	08/25/2011 14:00	15	09/05/2011 15:51		
SW8270C	08/25/2011 14:00	15	08/15/2011 15:51		requires 3-Methlphenol/4-Methylphenol,LOW SAMPLE VOLUME
E300.0	08/25/2011 14:00	15	09/05/2011 15:51		Cl, SO4
SM4500NH3BG	08/25/2011 14:00	15	09/05/2011 15:51		
SM2320B	08/25/2011 14:00	15	08/22/2011 15:51		carb/bicarb
SW8015B GRO	08/25/2011 14:00	15	08/22/2011 15:51		
SW8015B DRO	08/25/2011 14:00	15	08/15/2011 15:51		LOW SAMPLE VOLUME
SW6010B	08/25/2011 14:00	15	02/04/2012 15:51		Ca, Pb, K, Na, Mg
SW8260B	08/25/2011 14:00	15	08/22/2011 15:51		
1108110-06 GW0176 [Water] Sampled 08/08/2011 14:51 Mountain					
SW6010B	08/25/2011 14:00	15	02/04/2012 15:51		Fe & Mn

WORK ORDER

1108110

Printed: 9/9/2011 3:52:48PM

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
1108110-07 GW8020-RB [Water] Sampled 08/08/2011 08:41 Mountain					
SW6010B	08/25/2011 14:00	15	02/04/2012 09:41		Ca, Pb, K, Na, Mg
E353.2	08/25/2011 14:00	15	09/05/2011 09:41		
SW8015B DRO	08/25/2011 14:00	15	08/15/2011 09:41		LOW SAMPLE VOLUME
SW8011	08/25/2011 14:00	15	08/22/2011 09:41		
SW8270C	08/25/2011 14:00	15	08/15/2011 09:41		requires 3-Methlphenol/4-Methylphenol,LOW SAMPLE VOLUME
SW8015B GRO	08/25/2011 14:00	15	08/22/2011 09:41		
SM2320B	08/25/2011 14:00	15	08/22/2011 09:41		carb/bicarb
SW8260B	08/25/2011 14:00	15	08/22/2011 09:41		
E300.0	08/25/2011 14:00	15	09/05/2011 09:41		Cl, SO4
SM4500S2CF	08/25/2011 14:00	15	08/15/2011 09:41		
SM4500NH3BG	08/25/2011 14:00	15	09/05/2011 09:41		
1108110-08 GW8020-RB [Water] Sampled 08/08/2011 08:41 Mountain					
SW6010B	08/25/2011 14:00	15	02/04/2012 09:41		Fe & Mn
1108110-09 GW8089-TB [Water] Sampled 08/08/2011 08:00 Mountain					
SW8260B	08/25/2011 14:00	15	08/22/2011 09:00		

WORK ORDER

1108126

Printed: 9/9/2011 3:53:38PM

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: 08/31/2011 16:00 (15 day TAT)

Received By: Chris Donald

Logged In By: Chris Donald

Date Received: 08/10/2011 09:00

Date Logged In 08/10/2011 10:55

Samples Received at: **2.4°C**

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

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1108126

Printed: 9/9/2011 3:53:38PM

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
1108126-01 GW0162 [Water] Sampled 08/09/2011 12:47 Mountain					
SW8015B DRO	08/26/2011 14:00	15	08/16/2011 13:47		Low Sample Volume
SW8011	08/26/2011 14:00	15	08/23/2011 13:47		
SW8270C	08/26/2011 14:00	15	08/16/2011 13:47		requires 3-Methlphenol/4-Methylphenol, Low Sample Volume
SW8015B GRO	08/26/2011 14:00	15	08/23/2011 13:47		
SW8260B	08/26/2011 14:00	15	08/23/2011 13:47		
SM2320B	08/26/2011 14:00	15	08/23/2011 13:47		carb/bicarb
SM4500NH3BG	08/26/2011 14:00	15	09/06/2011 13:47		
E300.0	08/26/2011 14:00	15	09/06/2011 13:47		Cl, SO4
E353.2	08/26/2011 14:00	15	09/06/2011 13:47		
SM4500S2CF	08/26/2011 14:00	15	08/16/2011 13:47		
SW6010B	08/26/2011 14:00	15	02/05/2012 13:47		Ca, Pb, K, Na, Mg
1108126-02 GW0162 [Water] Sampled 08/09/2011 12:47 Mountain					**Field Filtered and Preserved**
SW6010B	08/26/2011 14:00	15	02/05/2012 13:47		Fe & Mn

WORK ORDER

1108126

Printed: 9/9/2011 3:53:38PM

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
1108126-03 GW0244 [Water] Sampled 08/08/2011 15:46 Mountain					
SW8015B DRO	08/26/2011 14:00	15	08/15/2011 16:46		Low Sample Volume
SW8011	08/26/2011 14:00	15	08/22/2011 16:46		
SW8270C	08/26/2011 14:00	15	08/15/2011 16:46		requires 3-Methlphenol/4-Methylphenol, Low Sample Volume
SW8015B GRO	08/26/2011 14:00	15	08/22/2011 16:46		
SW8260B	08/26/2011 14:00	15	08/22/2011 16:46		
SM2320B	08/26/2011 14:00	15	08/22/2011 16:46		carb/bicarb
SM4500NH3BG	08/26/2011 14:00	15	09/05/2011 16:46		
E300.0	08/26/2011 14:00	15	09/05/2011 16:46		Cl, SO4
E353.2	08/26/2011 14:00	15	09/05/2011 16:46		
SM4500S2CF	08/26/2011 14:00	15	08/15/2011 16:46		
SW6010B	08/26/2011 14:00	15	02/04/2012 16:46		Ca, Pb, K, Na, Mg
1108126-04 GW0244 [Water] Sampled 08/08/2011 15:46 Mountain					**Field Filtered and Preserved**
SW6010B	08/26/2011 14:00	15	02/04/2012 16:46		Fe & Mn
1108126-05 GW8090-TB [Water] Sampled 08/09/2011 08:00 Mountain					
SW8260B	08/26/2011 14:00	15	08/23/2011 09:00		

WORK ORDER

1108138

Printed: 9/9/2011 3:54:40PM

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: 09/01/2011 16:00 (15 day TAT)

Received By: Benjamin C. Wright

Logged In By: Benjamin C. Wright

Date Received: 08/11/2011 09:00

Date Logged In 08/11/2011 10:31

Samples Received at: **4.5°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

1108138

Printed: 9/9/2011 3:54:40PM

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
1108138-01 GW0160 [Water] Sampled 08/10/2011 10:46 Mountain					**MS/MSD.**
SM4500S2CF	08/29/2011 14:00	15	08/17/2011 11:46		MS/MSD
SW8015B DRO	08/29/2011 14:00	15	08/17/2011 11:46		MS/MSD
SW8011	08/29/2011 14:00	15	08/24/2011 11:46		MS/MSD
SW8270C	08/29/2011 14:00	15	08/17/2011 11:46		requires 3-Methlphenol/4-Methylphenol MS/MSD
SW8015B GRO	08/29/2011 14:00	15	08/24/2011 11:46		MS/MSD
SW8260B	08/29/2011 14:00	15	08/24/2011 11:46		MS/MSD
SM2320B	08/29/2011 14:00	15	08/24/2011 11:46		carb/bicarb MS/MSD
SM4500NH3BG	08/29/2011 14:00	15	09/07/2011 11:46		MS/MSD
E300.0	08/29/2011 14:00	15	09/07/2011 11:46		Cl, SO4 MS/MSD
SW6010B	08/29/2011 14:00	15	02/06/2012 11:46		Ca, Pb, K, Na, Mg MS/MSD
E353.2	08/29/2011 14:00	15	09/07/2011 11:46		MS/MSD
1108138-02 GW0191 [Water] Sampled 08/10/2011 12:32 Mountain					
SM4500S2CF	08/29/2011 14:00	15	08/17/2011 13:32		
SW8015B DRO	08/29/2011 14:00	15	08/17/2011 13:32		
SW8011	08/29/2011 14:00	15	08/24/2011 13:32		
SW8270C	08/29/2011 14:00	15	08/17/2011 13:32		requires 3-Methlphenol/4-Methylphenol
SW8015B GRO	08/29/2011 14:00	15	08/24/2011 13:32		
SW8260B	08/29/2011 14:00	15	08/24/2011 13:32		
SM2320B	08/29/2011 14:00	15	08/24/2011 13:32		carb/bicarb
SM4500NH3BG	08/29/2011 14:00	15	09/07/2011 13:32		
E300.0	08/29/2011 14:00	15	09/07/2011 13:32		Cl, SO4
E353.2	08/29/2011 14:00	15	09/07/2011 13:32		
SW6010B	08/29/2011 14:00	15	02/06/2012 13:32		Ca, Pb, K, Na, Mg

WORK ORDER

1108138

Printed: 9/9/2011 3:54:40PM

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
1108138-03 GW8091-TB [Water] Sampled 08/10/2011 08:00 Mountain					
SW8260B	08/29/2011 14:00	15	08/24/2011 09:00		

WORK ORDER

1108140

Printed: 9/9/2011 3:55:30PM

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: 09/01/2011 16:00 (15 day TAT)
Received By: Benjamin C. Wright
Logged In By: Benjamin C. Wright

Date Received: 08/11/2011 09:00
Date Logged In 08/11/2011 12:06

Samples Received at: **4.5°C**

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

Analysis	Due	TAT	Expires	Version	Comments
1108140-01 GW0160 [Water] Sampled 08/10/2011 10:46 Mountain					**MS/MSD**
SW6010B	08/29/2011 14:00	15	02/06/2012 11:46		Fe & Mn
1108140-02 GW0191 [Water] Sampled 08/10/2011 12:32 Mountain					
SW6010B	08/29/2011 14:00	15	02/06/2012 13:32		Fe & Mn

WORK ORDER

1108152

Printed: 9/9/2011 3:56:14PM

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: 09/02/2011 16:00 (15 day TAT)

Received By: Chris Donald

Logged In By: Chris Donald

Date Received: 08/12/2011 09:00

Date Logged In 08/12/2011 10:57

Samples Received at: **0.4°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

1108152

Printed: 9/9/2011 3:56:14PM

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
1108152-01 GW0161 [Water] Sampled 08/10/2011 14:55 Mountain					
SM4500S2CF	08/30/2011 14:00	15	08/17/2011 15:55		
SW8015B DRO	08/30/2011 14:00	15	08/17/2011 15:55		Low Sample Volume
SW8011	08/30/2011 14:00	15	08/24/2011 15:55		
SW8270C	08/30/2011 14:00	15	08/17/2011 15:55		requires 3-Methlphenol/4-Methylphenol, Low Sample Volume
SW8015B GRO	08/30/2011 14:00	15	08/24/2011 15:55		
SW8260B	08/30/2011 14:00	15	08/24/2011 15:55		
SM2320B	08/30/2011 14:00	15	08/24/2011 15:55		carb/bicarb
SM4500NH3BG	08/30/2011 14:00	15	09/07/2011 15:55		
SW6010B	08/30/2011 14:00	15	02/06/2012 15:55		Ca, Pb, K, Na, Mg
E353.2	08/30/2011 14:00	15	09/07/2011 15:55		
E300.0	08/30/2011 14:00	15	09/07/2011 15:55		Cl, SO4
1108152-02 GW0161 [Water] Sampled 08/10/2011 14:55 Mountain					**Field Filtered and Preserved**
SW6010B	08/30/2011 14:00	15	02/06/2012 15:55		Fe & Mn, Field Filtered and Preserved

WORK ORDER

1108152

Printed: 9/9/2011 3:56:14PM

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
1108152-03 GW0177 [Water] Sampled 08/11/2011 14:20 Mountain					
SW8015B DRO	08/30/2011 14:00	15	08/18/2011 15:20		Low Sample Volume
SW8011	08/30/2011 14:00	15	08/25/2011 15:20		
SW8270C	08/30/2011 14:00	15	08/18/2011 15:20		requires 3-Methlphenol/4-Methylphenol, Low Sample Volume
SW8015B GRO	08/30/2011 14:00	15	08/25/2011 15:20		
SW8260B	08/30/2011 14:00	15	08/25/2011 15:20		
SM2320B	08/30/2011 14:00	15	08/25/2011 15:20		carb/bicarb
SW6010B	08/30/2011 14:00	15	02/07/2012 15:20		Ca, Pb, K, Na, Mg
E353.2	08/30/2011 14:00	15	09/08/2011 15:20		
SM4500S2CF	08/30/2011 14:00	15	08/18/2011 15:20		
E300.0	08/30/2011 14:00	15	09/08/2011 15:20		Cl, SO4
SM4500NH3BG	08/30/2011 14:00	15	09/08/2011 15:20		
1108152-04 GW0177 [Water] Sampled 08/11/2011 14:20 Mountain					**Field Filtered and Preserved**
SW6010B	08/30/2011 14:00	15	02/07/2012 15:20		Fe & Mn

WORK ORDER

1108152

Printed: 9/9/2011 3:56:14PM

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
1108152-05 GW0178 [Water] Sampled 08/11/2011 11:36 Mountain					
SM2320B	08/30/2011 14:00	15	08/25/2011 12:36		carb/bicarb
SW8260B	08/30/2011 14:00	15	08/25/2011 12:36		
SM4500NH3BG	08/30/2011 14:00	15	09/08/2011 12:36		
E353.2	08/30/2011 14:00	15	09/08/2011 12:36		
SW8015B DRO	08/30/2011 14:00	15	08/18/2011 12:36		Low Sample Volume
SW8011	08/30/2011 14:00	15	08/25/2011 12:36		
SW8270C	08/30/2011 14:00	15	08/18/2011 12:36		requires 3-Methlphenol/4-Methylphenol, Low Sample Volume
SW8015B GRO	08/30/2011 14:00	15	08/25/2011 12:36		
SM4500S2CF	08/30/2011 14:00	15	08/18/2011 12:36		
E300.0	08/30/2011 14:00	15	09/08/2011 12:36		Cl, SO4
SW6010B	08/30/2011 14:00	15	02/07/2012 12:36		Ca, Pb, K, Na, Mg
1108152-06 GW0178 [Water] Sampled 08/11/2011 11:36 Mountain					**Field Filtered and Preserved**
SW6010B	08/30/2011 14:00	15	02/07/2012 12:36		Fe & Mn

WORK ORDER

1108152

Printed: 9/9/2011 3:56:14PM

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
1108152-07 GW0180 [Water] Sampled 08/11/2011 11:46 Mountain					
SW8011	08/30/2011 14:00	15	08/25/2011 12:46		
SM4500S2CF	08/30/2011 14:00	15	08/18/2011 12:46		
E353.2	08/30/2011 14:00	15	09/08/2011 12:46		
E300.0	08/30/2011 14:00	15	09/08/2011 12:46		Cl, SO4
SM4500NH3BG	08/30/2011 14:00	15	09/08/2011 12:46		
SM2320B	08/30/2011 14:00	15	08/25/2011 12:46		carb/bicarb
SW8015B GRO	08/30/2011 14:00	15	08/25/2011 12:46		
SW8015B DRO	08/30/2011 14:00	15	08/18/2011 12:46		Low Sample Volume
SW6010B	08/30/2011 14:00	15	02/07/2012 12:46		Ca, Pb, K, Na, Mg
SW8270C	08/30/2011 14:00	15	08/18/2011 12:46		requires 3-Methlphenol/4-Methylphenol, Low Sample Volume
SW8260B	08/30/2011 14:00	15	08/25/2011 12:46		
1108152-08 GW0180 [Water] Sampled 08/11/2011 11:46 Mountain					**Field Filtered and Preserved**
SW6010B	08/30/2011 14:00	15	02/07/2012 12:46		Fe & Mn

WORK ORDER

1108152

Printed: 9/9/2011 3:56:14PM

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
1108152-09 GW0181 [Water] Sampled 08/11/2011 11:46 Mountain					
SW6010B	08/30/2011 14:00	15	02/07/2012 12:46		Ca, Pb, K, Na, Mg
SM4500NH3BG	08/30/2011 14:00	15	09/08/2011 12:46		
SW8015B DRO	08/30/2011 14:00	15	08/18/2011 12:46		Low Sample Volume
SW8011	08/30/2011 14:00	15	08/25/2011 12:46		
SW8270C	08/30/2011 14:00	15	08/18/2011 12:46		requires 3-Methlphenol/4-Methylphenol, Low Sample Volume
SW8015B GRO	08/30/2011 14:00	15	08/25/2011 12:46		
SM2320B	08/30/2011 14:00	15	08/25/2011 12:46		carb/bicarb
E300.0	08/30/2011 14:00	15	09/08/2011 12:46		Cl, SO4
E353.2	08/30/2011 14:00	15	09/08/2011 12:46		
SM4500S2CF	08/30/2011 14:00	15	08/18/2011 12:46		
SW8260B	08/30/2011 14:00	15	08/25/2011 12:46		
1108152-10 GW0181 [Water] Sampled 08/11/2011 11:46 Mountain					**Field Filtered and Preserved**
SW6010B	08/30/2011 14:00	15	02/07/2012 12:46		Fe & Mn
1108152-11 GW8092-TB [Water] Sampled 08/11/2011 08:00 Mountain					
SW8260B	08/30/2011 14:00	15	08/25/2011 09:00		

WORK ORDER

1108166

Printed: 9/9/2011 4:15:19PM

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: 09/06/2011 16:00 (15 day TAT)
Received By: Benjamin C. Wright
Logged In By: Benjamin C. Wright

Date Received: 08/13/2011 09:15
Date Logged In 08/13/2011 12:59

Samples Received at: **2.4°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

1108166

Printed: 9/9/2011 4:15:19PM

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
1108166-01 GW0179 [Water] Sampled 08/12/2011 11:17 Mountain					
SM4500S2CF	08/31/2011 14:00	15	08/19/2011 12:17		
E353.2	08/31/2011 14:00	15	09/09/2011 12:17		
E300.0	08/31/2011 14:00	15	09/09/2011 12:17		Cl, SO4
SM4500NH3BG	08/31/2011 14:00	15	09/09/2011 12:17		
SM2320B	08/31/2011 14:00	15	08/26/2011 12:17		carb/bicarb
SW8260B	08/31/2011 14:00	15	08/26/2011 12:17		
SW8015B GRO	08/31/2011 14:00	15	08/26/2011 12:17		
SW8270C	08/31/2011 14:00	15	08/19/2011 12:17		requires 3-Methlphenol/4-Methylphenol
SW8011	08/31/2011 14:00	15	08/26/2011 12:17		
SW8015B DRO	08/31/2011 14:00	15	08/19/2011 12:17		
SW6010B	08/31/2011 14:00	15	02/08/2012 12:17		Ca, Pb, K, Na, Mg
1108166-02 GW0179 [Water] Sampled 08/12/2011 11:17 Mountain					
SW6010B	08/31/2011 14:00	15	02/08/2012 12:17		Fe & Mn, Field Filtered and Preserved
1108166-03 GW8093-TB [Water] Sampled 08/12/2011 08:00 Mountain					
SW8260B	08/31/2011 14:00	15	08/26/2011 09:00		

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: Kirtland_023
MATRIX: Water

QC LEVEL: Level IV
Report Due:/6/2011
Client Sample Count: 28

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	E353.2	SM2320B	SM4500 NH3BG	SM4500 S2CF	SW6010B	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270C
Client Sample	8/8/2011	8/9/2011	1108110-01	GW0155-R	X	X	X	X	X	X	X	X	X	X	X
Client Sample	8/8/2011	8/9/2011	1108110-02	GW0155-R						X					
Client Sample	8/8/2011	8/9/2011	1108110-03	GW0156-R	X	X	X	X	X	X	X	X	X	X	X
Client Sample	8/8/2011	8/9/2011	1108110-04	GW0156-R						X					
Client Sample	8/8/2011	8/9/2011	1108110-05	GW0176	X	X	X	X	X	X	X	X	X	X	X
Client Sample	8/8/2011	8/9/2011	1108110-06	GW0176						X					
Equipment Rinsate	8/8/2011	8/9/2011	1108110-07	GW8020-RB	X	X	X	X	X	X	X	X	X	X	X
Equipment Rinsate	8/8/2011	8/9/2011	1108110-08	GW8020-RB						X					
Trip Blank	8/8/2011	8/9/2011	1108110-09	GW8089-TB										X	
Client Sample	8/9/2011	8/10/2011	1108126-01	GW0162	X	X	X	X	X	X	X	X	X	X	X
Client Sample	8/9/2011	8/10/2011	1108126-02	GW0162						X					
Client Sample	8/8/2011	8/10/2011	1108126-03	GW0244	X	X	X	X	X	X	X	X	X	X	X
Client Sample	8/8/2011	8/10/2011	1108126-04	GW0244						X					
Trip Blank	8/9/2011	8/10/2011	1108126-05	GW8090-TB										X	
Client Sample	8/10/2011	8/11/2011	1108138-01	GW0160	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD
Client Sample	8/10/2011	8/11/2011	1108138-02	GW0191	X	X	X	X	X	X	X	X	X	X	X
Trip Blank	8/10/2011	8/11/2011	1108138-03	GW8091-TB										X	
Client Sample	8/10/2011	8/11/2011	1108140-01	GW0160						MS/MSD					
Client Sample	8/10/2011	8/11/2011	1108140-02	GW0191						X					
Client Sample	8/10/2011	8/12/2011	1108152-01	GW0161	X	X	X	X	X	X	X	X	X	X	X
Client Sample	8/10/2011	8/12/2011	1108152-02	GW0161						X					
Client Sample	8/11/2011	8/12/2011	1108152-03	GW0177	X	X	X	X	X	X	X	X	X	X	X
Client Sample	8/11/2011	8/12/2011	1108152-04	GW0177						X					
Client Sample	8/11/2011	8/12/2011	1108152-05	GW0178	X	X	X	X	X	X	X	X	X	X	X
Client Sample	8/11/2011	8/12/2011	1108152-06	GW0178						X					
Client Sample	8/11/2011	8/12/2011	1108152-07	GW0180	X	X	X	X	X	X	X	X	X	X	X
Client Sample	8/11/2011	8/12/2011	1108152-08	GW0180						X					
Client Sample	8/11/2011	8/12/2011	1108152-09	GW0181	X	X	X	X	X	X	X	X	X	X	X
Client Sample	8/11/2011	8/12/2011	1108152-10	GW0181						X					
Trip Blank	8/11/2011	8/12/2011	1108152-11	GW8092-TB										X	
Client Sample	8/12/2011	8/13/2011	1108166-01	GW0179	X	X	X	X	X	X	X	X	X	X	X
Client Sample	8/12/2011	8/13/2011	1108166-02	GW0179						X					
Client Sample	8/12/2011	8/13/2011	1108166-03	GW8093-TB										X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0155-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-01	File ID:	0811001.D
Sampled:	08/08/11 11:33	Prepared:	08/13/11 00:00	Analyzed:	08/13/11 13:38
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13001 Sequence: 1H22602 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	0.273	0.250	0.500	1.00	J
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	X, 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

GW0155-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-01	File ID:	0811001.D
Sampled:	08/08/11 11:33	Prepared:	08/13/11 00:00	Analyzed:	08/13/11 13:38
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13001 Sequence: 1H22602 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	0.319	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	31.43	105	75 - 120	
Dibromofluoromethane	30.00	31.46	105	85 - 115	
1,2-Dichloroethane-d4	30.00	31.05	104	70 - 120	
Toluene-d8	30.00	31.79	106	85 - 120	

ANALYSIS DATA SHEET

GW0156-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-03	File ID:	0811003.D
Sampled:	08/08/11 11:54	Prepared:	08/13/11 00:00	Analyzed:	08/13/11 14:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13001 Sequence: 1H22602 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	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	X, 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

GW0156-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-03	File ID:	0811003.D
Sampled:	08/08/11 11:54	Prepared:	08/13/11 00:00	Analyzed:	08/13/11 14:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13001 Sequence: 1H22602 Calibration: 1197002 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.32	101	75 - 120	
Dibromofluoromethane	30.00	31.10	104	85 - 115	
1,2-Dichloroethane-d4	30.00	31.09	104	70 - 120	
Toluene-d8	30.00	31.12	104	85 - 120	

ANALYSIS DATA SHEET

GW0176

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-05	File ID:	0811005.D
Sampled:	08/08/11 14:51	Prepared:	08/13/11 00:00	Analyzed:	08/13/11 14:31
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13001 Sequence: 1H22602 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	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	X, 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

GW0176

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-05	File ID:	0811005.D
Sampled:	08/08/11 14:51	Prepared:	08/13/11 00:00	Analyzed:	08/13/11 14:31
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13001 Sequence: 1H22602 Calibration: 1197002 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.76	103	75 - 120	
Dibromofluoromethane	30.00	31.67	106	85 - 115	
1,2-Dichloroethane-d4	30.00	32.14	107	70 - 120	
Toluene-d8	30.00	30.92	103	85 - 120	

ANALYSIS DATA SHEET

GW8023-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-07	File ID:	0811007.D
Sampled:	08/08/11 08:41	Prepared:	08/13/11 00:00	Analyzed:	08/13/11 10:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13001 Sequence: 1H22602 Calibration: 1197002 Instrument: MS-VOA6

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	1.22	0.250	0.500	1.00	
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform	3.79	0.250	0.500	1.00	
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	2.88	0.250	0.500	1.00	
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	X, 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

GW8023-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-07	File ID:	0811007.D
Sampled:	08/08/11 08:41	Prepared:	08/13/11 00:00	Analyzed:	08/13/11 10:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13001 Sequence: 1H22602 Calibration: 1197002 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.78	106	75 - 120	
Dibromofluoromethane	30.00	31.24	104	85 - 115	
1,2-Dichloroethane-d4	30.00	31.32	104	70 - 120	
Toluene-d8	30.00	32.31	108	85 - 120	

ANALYSIS DATA SHEET

GW8089-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-09	File ID:	0811009.D
Sampled:	08/08/11 08:00	Prepared:	08/13/11 00:00	Analyzed:	08/13/11 20:43
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

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

GW8089-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-09	File ID:	0811009.D
Sampled:	08/08/11 08:00	Prepared:	08/13/11 00:00	Analyzed:	08/13/11 20:43
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.63	102	75 - 120	
Dibromofluoromethane	30.00	31.21	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.11	100	70 - 120	
Toluene-d8	30.00	30.90	103	85 - 120	

ANALYSIS DATA SHEET

GW0162

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-01	File ID:	0812601X.D
Sampled:	08/09/11 12:47	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 13:57
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

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

GW0162

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-01	File ID:	0812601X.D
Sampled:	08/09/11 12:47	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 13:57
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.12	104	75 - 120	
Dibromofluoromethane	30.00	30.74	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.59	102	70 - 120	
Toluene-d8	30.00	30.93	103	85 - 120	

ANALYSIS DATA SHEET

GW0244

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-03	File ID:	0812603X.D
Sampled:	08/08/11 15:46	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 14:24
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

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

GW0244

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-03	File ID:	0812603X.D
Sampled:	08/08/11 15:46	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 14:24
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	0.262	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	30.81	103	75 - 120	
Dibromofluoromethane	30.00	31.40	105	85 - 115	
1,2-Dichloroethane-d4	30.00	31.23	104	70 - 120	
Toluene-d8	30.00	30.78	103	85 - 120	

ANALYSIS DATA SHEET

GW8090-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-05	File ID:	0812605X.D
Sampled:	08/09/11 08:00	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 09:30
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

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

GW8090-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-05	File ID:	0812605X.D
Sampled:	08/09/11 08:00	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 09:30
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.90	103	75 - 120	
Dibromofluoromethane	30.00	30.48	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.59	102	70 - 120	
Toluene-d8	30.00	30.79	103	85 - 120	

ANALYSIS DATA SHEET

GW0160

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-01	File ID:	0813801.D
Sampled:	08/10/11 10:46	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 22:22
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

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	N, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	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	X, 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

GW0160

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-01	File ID:	0813801.D
Sampled:	08/10/11 10:46	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 22:22
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.67	102	75 - 120	
Dibromofluoromethane	30.00	31.53	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.48	102	70 - 120	
Toluene-d8	30.00	30.87	103	85 - 120	

ANALYSIS DATA SHEET

GW0191

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-02	File ID:	0813802.D
Sampled:	08/10/11 12:32	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 22:49
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	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	X, 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

GW0191

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-02	File ID:	0813802.D
Sampled:	08/10/11 12:32	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 22:49
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.11	104	75 - 120	
Dibromofluoromethane	30.00	31.88	106	85 - 115	
1,2-Dichloroethane-d4	30.00	30.84	103	70 - 120	
Toluene-d8	30.00	30.54	102	85 - 120	

ANALYSIS DATA SHEET

GW8091-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-03	File ID:	0813803.D
Sampled:	08/10/11 08:00	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 21:02
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	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	X, 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

GW8091-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-03	File ID:	0813803.D
Sampled:	08/10/11 08:00	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 21:02
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.78	103	75 - 120	
Dibromofluoromethane	30.00	30.96	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.62	102	70 - 120	
Toluene-d8	30.00	30.74	102	85 - 120	

ANALYSIS DATA SHEET

GW0161

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-01	File ID:	0815201.D
Sampled:	08/10/11 14:55	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 12:30
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	3.29	2.50	5.00	10.0	X, Q, J
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, 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	X, Q, 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	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	X, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	X, Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	X, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, 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

GW0161

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-01	File ID:	0815201.D
Sampled:	08/10/11 14:55	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 12:30
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, Q, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, Q, 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	Y, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, 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	32.48	108	75 - 120	
Dibromofluoromethane	30.00	33.70	112	85 - 115	
1,2-Dichloroethane-d4	30.00	30.25	101	70 - 120	
Toluene-d8	30.00	29.44	98.1	85 - 120	

ANALYSIS DATA SHEET

GW0177

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-03	File ID:	0815203.D
Sampled:	08/11/11 14:20	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 12:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, Q, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, 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	X, Q, 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	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	X, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	X, Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	X, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, 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

GW0177

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-03	File ID:	0815203.D
Sampled:	08/11/11 14:20	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 12:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, Q, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, Q, 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	Y, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, 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	32.33	108	75 - 120	
Dibromofluoromethane	30.00	32.71	109	85 - 115	
1,2-Dichloroethane-d4	30.00	28.82	96.1	70 - 120	
Toluene-d8	30.00	29.32	97.7	85 - 120	

ANALYSIS DATA SHEET

GW0178

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-05	File ID:	0815205.D
Sampled:	08/11/11 11:36	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 13:20
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, Q, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, 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	X, Q, 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	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	X, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	X, Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	X, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, 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

GW0178

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-05	File ID:	0815205.D
Sampled:	08/11/11 11:36	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 13:20
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, Q, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, Q, 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	Y, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, 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	32.78	109	75 - 120	
Dibromofluoromethane	30.00	33.37	111	85 - 115	
1,2-Dichloroethane-d4	30.00	30.30	101	70 - 120	
Toluene-d8	30.00	29.99	100	85 - 120	

ANALYSIS DATA SHEET

GW0180

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-07	File ID:	0815207.D
Sampled:	08/11/11 11:46	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 13:45
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, Q, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, 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	X, Q, 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	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	X, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane	0.298	0.250	0.500	1.00	X, Q, J
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	X, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, 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

GW0180

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-07	File ID:	0815207.D
Sampled:	08/11/11 11:46	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 13:45
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, Q, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, Q, 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	Y, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, 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	31.56	105	75 - 120	
Dibromofluoromethane	30.00	33.87	113	85 - 115	
1,2-Dichloroethane-d4	30.00	29.97	99.9	70 - 120	
Toluene-d8	30.00	28.98	96.6	85 - 120	

ANALYSIS DATA SHEET

GW0181

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-09	File ID:	0815209.D
Sampled:	08/11/11 11:46	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 14:10
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, Q, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, 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	Q, X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	X, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	X, Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	X, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, 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

GW0181

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-09	File ID:	0815209.D
Sampled:	08/11/11 11:46	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 14:10
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, Q, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, Q, 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	Y, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, 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	32.27	108	75 - 120	
Dibromofluoromethane	30.00	32.70	109	85 - 115	
1,2-Dichloroethane-d4	30.00	29.30	97.7	70 - 120	
Toluene-d8	30.00	28.62	95.4	85 - 120	

ANALYSIS DATA SHEET

GW8092-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-11	File ID:	0815211.D
Sampled:	08/11/11 08:00	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 10:49
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, Q, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, 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	Q, X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	X, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	X, Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	X, U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, 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

GW8092-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-11	File ID:	0815211.D
Sampled:	08/11/11 08:00	Prepared:	08/14/11 00:00	Analyzed:	08/14/11 10:49
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, Q, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, Q, 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	Y, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, 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	32.42	108	75 - 120	
Dibromofluoromethane	30.00	33.02	110	85 - 115	
1,2-Dichloroethane-d4	30.00	28.98	96.6	70 - 120	
Toluene-d8	30.00	29.68	98.9	85 - 120	

ANALYSIS DATA SHEET

GW0179

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108166-01	File ID:	0816601.D
Sampled:	08/12/11 11:17	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 15:16
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H20001 Sequence: 1H23204 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	Q, 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	X, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, 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	X, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	X, 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	X, 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	Q, X, U

ANALYSIS DATA SHEET

GW0179

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108166-01	File ID:	0816601.D
Sampled:	08/12/11 11:17	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 15:16
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H20001 Sequence: 1H23204 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, 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	X, 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	29.61	98.7	75 - 120	
Dibromofluoromethane	30.00	29.15	97.2	85 - 115	
1,2-Dichloroethane-d4	30.00	28.41	94.7	70 - 120	
Toluene-d8	30.00	29.82	99.4	85 - 120	

ANALYSIS DATA SHEET

GW8093-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108166-03	File ID:	0816603.D
Sampled:	08/12/11 08:00	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 13:51
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H20001 Sequence: 1H23204 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	Q, 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	X, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, 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	X, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	X, 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	X, 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	0.956	0.250	0.500	1.00	Q, X, J

ANALYSIS DATA SHEET

GW8093-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108166-03	File ID:	0816603.D
Sampled:	08/12/11 08:00	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 13:51
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H20001 Sequence: 1H23204 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, 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	X, 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	30.14	100	75 - 120	
Dibromofluoromethane	30.00	28.48	94.9	85 - 115	
1,2-Dichloroethane-d4	30.00	28.55	95.2	70 - 120	
Toluene-d8	30.00	30.59	102	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22602	Instrument:	MS-VOA6
		Calibration:	1197002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H22602-CCV1) ug/L				Lab File ID: 0813CCV1.D		Analyzed: 08/13/11 06:58		
Bromofluorobenzene	30.00	114	80 - 120	12.274	12.274	0.0000	+/-1.000	
Dibromofluoromethane	30.00	96.7	80 - 120	6.958	6.958	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.2	80 - 120	7.46	7.46	0.0000	+/-1.000	
Toluene-d8	30.00	118	80 - 120	9.655	9.655	0.0000	+/-1.000	
LCS (1H13001-BS1) ug/L				Lab File ID: 0813LCS1.D		Analyzed: 08/13/11 07:25		
Bromofluorobenzene	30.00	107	75 - 120	12.273	12.274	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	6.957	6.958	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.449	7.46	-0.0110	+/-1.000	
Toluene-d8	30.00	109	85 - 120	9.654	9.655	-0.0010	+/-1.000	
Blank (1H13001-BLK1) ug/L				Lab File ID: 0813BLK1.D		Analyzed: 08/13/11 08:43		
Bromofluorobenzene	30.00	105	75 - 120	12.269	12.274	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.963	6.958	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.455	7.46	-0.0050	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.651	9.655	-0.0040	+/-1.000	
GW8023-RB (1108110-07) ug/L				Lab File ID: 0811007.D		Analyzed: 08/13/11 10:04		
Bromofluorobenzene	30.00	106	75 - 120	12.264	12.274	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.957	6.958	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.45	7.46	-0.0100	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.655	9.655	0.0000	+/-1.000	
GW0155-R (1108110-01) ug/L				Lab File ID: 0811001.D		Analyzed: 08/13/11 13:38		
Bromofluorobenzene	30.00	105	75 - 120	12.269	12.274	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.962	6.958	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.454	7.46	-0.0060	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.65	9.655	-0.0050	+/-1.000	
GW0156-R (1108110-03) ug/L				Lab File ID: 0811003.D		Analyzed: 08/13/11 14:04		
Bromofluorobenzene	30.00	101	75 - 120	12.264	12.274	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.958	6.958	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.45	7.46	-0.0100	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.655	9.655	0.0000	+/-1.000	
GW0176 (1108110-05) ug/L				Lab File ID: 0811005.D		Analyzed: 08/13/11 14:31		
Bromofluorobenzene	30.00	103	75 - 120	12.27	12.274	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	6.953	6.958	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	7.455	7.46	-0.0050	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.651	9.655	-0.0040	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22802	Instrument:	MS-VOA5
		Calibration:	1195002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H22802-CCV1) ug/L				Lab File ID: 0814CCV1.D		Analyzed: 08/14/11 08:35		
Bromofluorobenzene	30.00	114	80 - 120	12.199	12.199	0.0000	+/-1.000	
Dibromofluoromethane	30.00	112	80 - 120	6.83	6.83	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.2	80 - 120	7.333	7.333	0.0000	+/-1.000	
Toluene-d8	30.00	102	80 - 120	9.569	9.569	0.0000	+/-1.000	
LCS (1H14002-BS1) ug/L				Lab File ID: 0814LCS1.D		Analyzed: 08/14/11 09:11		
Bromofluorobenzene	30.00	109	75 - 120	12.2	12.199	0.0010	+/-1.000	
Dibromofluoromethane	30.00	111	85 - 115	6.831	6.83	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.0	70 - 120	7.334	7.333	0.0010	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.57	9.569	0.0010	+/-1.000	
Blank (1H14002-BLK1) ug/L				Lab File ID: 0814BLK1.D		Analyzed: 08/14/11 10:24		
Bromofluorobenzene	30.00	108	75 - 120	12.199	12.199	0.0000	+/-1.000	
Dibromofluoromethane	30.00	111	85 - 115	6.83	6.83	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.7	70 - 120	7.333	7.333	0.0000	+/-1.000	
Toluene-d8	30.00	97.5	85 - 120	9.569	9.569	0.0000	+/-1.000	
GW8092-TB (1108152-11) ug/L				Lab File ID: 0815211.D		Analyzed: 08/14/11 10:49		
Bromofluorobenzene	30.00	108	75 - 120	12.192	12.199	-0.0070	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	6.834	6.83	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.6	70 - 120	7.336	7.333	0.0030	+/-1.000	
Toluene-d8	30.00	98.9	85 - 120	9.562	9.569	-0.0070	+/-1.000	
GW0161 (1108152-01) ug/L				Lab File ID: 0815201.D		Analyzed: 08/14/11 12:30		
Bromofluorobenzene	30.00	108	75 - 120	12.194	12.199	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	6.835	6.83	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.328	7.333	-0.0050	+/-1.000	
Toluene-d8	30.00	98.1	85 - 120	9.564	9.569	-0.0050	+/-1.000	
GW0177 (1108152-03) ug/L				Lab File ID: 0815203.D		Analyzed: 08/14/11 12:55		
Bromofluorobenzene	30.00	108	75 - 120	12.198	12.199	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	6.829	6.83	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.1	70 - 120	7.332	7.333	-0.0010	+/-1.000	
Toluene-d8	30.00	97.7	85 - 120	9.568	9.569	-0.0010	+/-1.000	
GW0178 (1108152-05) ug/L				Lab File ID: 0815205.D		Analyzed: 08/14/11 13:20		
Bromofluorobenzene	30.00	109	75 - 120	12.192	12.199	-0.0070	+/-1.000	
Dibromofluoromethane	30.00	111	85 - 115	6.834	6.83	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.336	7.333	0.0030	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.562	9.569	-0.0070	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22802	Instrument:	MS-VOA5
		Calibration:	1195002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0180 (1108152-07) ug/L				Lab File ID: 0815207.D		Analyzed: 08/14/11 13:45		
Bromofluorobenzene	30.00	105	75 - 120	12.198	12.199	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	113	85 - 115	6.83	6.83	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.9	70 - 120	7.332	7.333	-0.0010	+/-1.000	
Toluene-d8	30.00	96.6	85 - 120	9.568	9.569	-0.0010	+/-1.000	
GW0181 (1108152-09) ug/L				Lab File ID: 0815209.D		Analyzed: 08/14/11 14:10		
Bromofluorobenzene	30.00	108	75 - 120	12.201	12.199	0.0020	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	6.832	6.83	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.7	70 - 120	7.335	7.333	0.0020	+/-1.000	
Toluene-d8	30.00	95.4	85 - 120	9.571	9.569	0.0020	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22908	Instrument:	MS-VOA6
		Calibration:	1197002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H22908-CCV1) ug/L				Lab File ID: 814CCV1.D		Analyzed: 08/14/11 18:50		
Bromofluorobenzene	30.00	114	80 - 120	12.274	12.274	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	80 - 120	6.958	6.958	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.1	80 - 120	7.46	7.46	0.0000	+/-1.000	
Toluene-d8	30.00	115	80 - 120	9.655	9.655	0.0000	+/-1.000	
LCS (1H14001-BS1) ug/L				Lab File ID: 814LCS1.D		Analyzed: 08/14/11 19:17		
Bromofluorobenzene	30.00	108	75 - 120	12.276	12.274	0.0020	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.959	6.958	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.8	70 - 120	7.451	7.46	-0.0090	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.657	9.655	0.0020	+/-1.000	
Blank (1H14001-BLK1) ug/L				Lab File ID: 814BLK1.D		Analyzed: 08/14/11 20:35		
Bromofluorobenzene	30.00	105	75 - 120	12.268	12.274	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	6.961	6.958	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.454	7.46	-0.0060	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.659	9.655	0.0040	+/-1.000	
GW8091-TB (1108138-03) ug/L				Lab File ID: 0813803.D		Analyzed: 08/14/11 21:02		
Bromofluorobenzene	30.00	103	75 - 120	12.274	12.274	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.957	6.958	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.46	7.46	0.0000	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.655	9.655	0.0000	+/-1.000	
GW0160 (1108138-01) ug/L				Lab File ID: 0813801.D		Analyzed: 08/14/11 22:22		
Bromofluorobenzene	30.00	102	75 - 120	12.274	12.274	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.957	6.958	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.449	7.46	-0.0110	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.655	9.655	0.0000	+/-1.000	
GW0191 (1108138-02) ug/L				Lab File ID: 0813802.D		Analyzed: 08/14/11 22:49		
Bromofluorobenzene	30.00	104	75 - 120	12.265	12.274	-0.0090	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	6.958	6.958	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.451	7.46	-0.0090	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.656	9.655	0.0010	+/-1.000	
Matrix Spike (1H14001-MS1) ug/L				Lab File ID: 0813801M.D		Analyzed: 08/15/11 04:09		
Bromofluorobenzene	30.00	106	75 - 120	12.268	12.274	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	6.961	6.958	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.453	7.46	-0.0070	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.659	9.655	0.0040	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22908	Instrument:	MS-VOA6
		Calibration:	1197002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (1H14001-MSD1) ug/L				Lab File ID: 0813801S.D		Analyzed: 08/15/11 04:35		
Bromofluorobenzene	30.00	109	75 - 120	12.268	12.274	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.962	6.958	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	7.454	7.46	-0.0060	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.659	9.655	0.0040	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23006	Instrument:	MS-VOA6
		Calibration:	1197002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H23006-CCV1) ug/L				Lab File ID: 0813CCV2.D		Analyzed: 08/13/11 18:31		
Bromofluorobenzene	30.00	112	80 - 120	12.273	12.273	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	80 - 120	6.967	6.967	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.8	80 - 120	7.459	7.459	0.0000	+/-1.000	
Toluene-d8	30.00	115	80 - 120	9.664	9.664	0.0000	+/-1.000	
LCS (1H13002-BS1) ug/L				Lab File ID: 0813LCS2.D		Analyzed: 08/13/11 18:58		
Bromofluorobenzene	30.00	108	75 - 120	12.276	12.273	0.0030	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.96	6.967	-0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	7.462	7.459	0.0030	+/-1.000	
Toluene-d8	30.00	108	85 - 120	9.657	9.664	-0.0070	+/-1.000	
Blank (1H13002-BLK1) ug/L				Lab File ID: 0813BLK2.D		Analyzed: 08/13/11 20:16		
Bromofluorobenzene	30.00	103	75 - 120	12.275	12.273	0.0020	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.969	6.967	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.461	7.459	0.0020	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.657	9.664	-0.0070	+/-1.000	
GW8089-TB (1108110-09) ug/L				Lab File ID: 0811009.D		Analyzed: 08/13/11 20:43		
Bromofluorobenzene	30.00	102	75 - 120	12.273	12.273	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.966	6.967	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	7.458	7.459	-0.0010	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.664	9.664	0.0000	+/-1.000	
Calibration Check (1H23006-CCV2) ug/L				Lab File ID: 813CCV2X.D		Analyzed: 08/14/11 06:51		
Bromofluorobenzene	30.00	115	80 - 120	12.274	12.273	0.0010	+/-1.000	
Dibromofluoromethane	30.00	99.1	80 - 120	6.967	6.967	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.2	80 - 120	7.459	7.459	0.0000	+/-1.000	
Toluene-d8	30.00	117	80 - 120	9.665	9.664	0.0010	+/-1.000	
LCS (1H13002-BS2) ug/L				Lab File ID: 813LCS2X.D		Analyzed: 08/14/11 07:18		
Bromofluorobenzene	30.00	108	75 - 120	12.276	12.273	0.0030	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.959	6.967	-0.0080	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.3	70 - 120	7.451	7.459	-0.0080	+/-1.000	
Toluene-d8	30.00	106	85 - 120	9.657	9.664	-0.0070	+/-1.000	
Blank (1H13002-BLK2) ug/L				Lab File ID: 813BLK2X.D		Analyzed: 08/14/11 08:36		
Bromofluorobenzene	30.00	99.2	75 - 120	12.273	12.273	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	6.966	6.967	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	7.459	7.459	0.0000	+/-1.000	
Toluene-d8	30.00	98.9	85 - 120	9.664	9.664	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23006	Instrument:	MS-VOA6
		Calibration:	1197002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW8090-TB (1108126-05) ug/L				Lab File ID: 0812605X.D		Analyzed: 08/14/11 09:30		
Bromofluorobenzene	30.00	103	75 - 120	12.267	12.273	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.961	6.967	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.453	7.459	-0.0060	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.658	9.664	-0.0060	+/-1.000	
GW0162 (1108126-01) ug/L				Lab File ID: 0812601X.D		Analyzed: 08/14/11 13:57		
Bromofluorobenzene	30.00	104	75 - 120	12.269	12.273	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.962	6.967	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.454	7.459	-0.0050	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.66	9.664	-0.0040	+/-1.000	
GW0244 (1108126-03) ug/L				Lab File ID: 0812603X.D		Analyzed: 08/14/11 14:24		
Bromofluorobenzene	30.00	103	75 - 120	12.267	12.273	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.961	6.967	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.453	7.459	-0.0060	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.658	9.664	-0.0060	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23204	Instrument:	MS-VOA4
		Calibration:	1229002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H23204-CCV1) ug/L				Lab File ID: 0820CCV1.D		Analyzed: 08/20/11 11:23		
Bromofluorobenzene	30.00	103	80 - 120	12.331	12.331	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	80 - 120	6.999	6.999	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	103	80 - 120	9.705	9.705	0.0000	+/-1.000	
LCS (1H20001-BS1) ug/L				Lab File ID: 0820LS1.D		Analyzed: 08/20/11 12:01		
Bromofluorobenzene	30.00	104	75 - 120	12.322	12.331	-0.0090	+/-1.000	
Dibromofluoromethane	30.00	98.2	85 - 115	7	6.999	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.9	70 - 120	7.492	7.491	0.0010	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.705	9.705	0.0000	+/-1.000	
Blank (1H20001-BLK1) ug/L				Lab File ID: 0820BLK1.D		Analyzed: 08/20/11 13:23		
Bromofluorobenzene	30.00	104	75 - 120	12.326	12.331	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	96.0	85 - 115	6.994	6.999	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.6	70 - 120	7.496	7.491	0.0050	+/-1.000	
Toluene-d8	30.00	99.1	85 - 120	9.709	9.705	0.0040	+/-1.000	
GW8093-TB (1108166-03) ug/L				Lab File ID: 0816603.D		Analyzed: 08/20/11 13:51		
Bromofluorobenzene	30.00	100	75 - 120	12.328	12.331	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	94.9	85 - 115	6.996	6.999	-0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.2	70 - 120	7.488	7.491	-0.0030	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.702	9.705	-0.0030	+/-1.000	
GW0179 (1108166-01) ug/L				Lab File ID: 0816601.D		Analyzed: 08/20/11 15:16		
Bromofluorobenzene	30.00	98.7	75 - 120	12.321	12.331	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	97.2	85 - 115	6.999	6.999	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.7	70 - 120	7.491	7.491	0.0000	+/-1.000	
Toluene-d8	30.00	99.4	85 - 120	9.704	9.705	-0.0010	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H13001	Laboratory ID:	1H13001-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	103	103	40 - 140
Benzene	50.00	55.0	110	80 - 120
Bromobenzene	50.00	55.7	111	75 - 125
Bromochloromethane	50.00	56.0	112	65 - 130
Bromodichloromethane	50.00	60.1	120	75 - 120
Bromoform	50.00	45.6	91.2	70 - 130
Bromomethane	50.00	29.0	58.1	30 - 145
n-Butylbenzene	50.00	57.0	114	70 - 135
2-Butanone	100.0	117	117	30 - 150
sec-Butylbenzene	50.00	56.2	112	70 - 125
tert-Butylbenzene	50.00	55.6	111	70 - 130
Carbon disulfide	50.00	61.5	123	35 - 160
Carbon tetrachloride	50.00	56.0	112	65 - 140
Chlorobenzene	50.00	55.2	110	80 - 120
Chloroethane	50.00	56.3	113	60 - 135
Chloroform	50.00	52.9	106	65 - 135
Chloromethane	50.00	41.9	83.8	40 - 125
2-Chlorotoluene	50.00	56.8	114	75 - 125
4-Chlorotoluene	50.00	56.9	114	75 - 130
Dibromochloromethane	50.00	50.0	100	60 - 135
1,2-Dibromo-3-chloropropane	50.00	47.0	94.0	50 - 130
1,2-Dibromoethane (EDB)	50.00	54.7	109	80 - 120
Dibromomethane	50.00	55.2	110	75 - 125
1,2-Dichlorobenzene	50.00	55.1	110	70 - 120
1,3-Dichlorobenzene	50.00	56.2	112	75 - 125
1,4-Dichlorobenzene	50.00	53.9	108	75 - 125
Dichlorodifluoromethane	50.00	50.6	101	30 - 155
1,1-Dichloroethane	50.00	56.1	112	70 - 135
1,2-Dichloroethane	50.00	56.5	113	70 - 130
1,1-Dichloroethene	50.00	61.4	123	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H13001	Laboratory ID:	1H13001-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	54.8	110	70 - 125
trans-1,2-Dichloroethene	50.00	58.0	116	60 - 140
1,2-Dichloropropane	50.00	55.3	111	75 - 125
1,3-Dichloropropane	50.00	55.6	111	75 - 125
2,2-Dichloropropane	50.00	55.9	112	70 - 135
1,1-Dichloropropene	50.00	55.7	111	75 - 130
cis-1,3-Dichloropropene	50.00	56.1	112	70 - 130
trans-1,3-Dichloropropene	50.00	64.1	128	55 - 140
Ethylbenzene	50.00	54.7	109	75 - 125
Hexachlorobutadiene	50.00	57.0	114	50 - 140
2-Hexanone	100.0	120	120	55 - 130
Isopropylbenzene	50.00	56.9	114	75 - 125
p-Isopropyltoluene	50.00	57.9	116	75 - 130
Methylene chloride	50.00	56.3	113	55 - 140
Naphthalene	50.00	53.3	107	55 - 140
4-Methyl-2-pentanone	100.0	113	113	60 - 135
Methyl t-Butyl Ether	50.00	54.3	109	65 - 125
n-Propylbenzene	50.00	57.1	114	70 - 130
Styrene	50.00	56.1	112	65 - 135
1,1,2,2-Tetrachloroethane	50.00	56.4	113	65 - 130
1,1,1,2-Tetrachloroethane	50.00	49.7	99.4	80 - 130
Tetrachloroethene	50.00	53.5	107	45 - 150
Toluene	50.00	55.0	110	75 - 120
1,2,3-Trichlorobenzene	50.00	54.4	109	55 - 140
1,2,4-Trichlorobenzene	50.00	56.6	113	65 - 135
1,1,2-Trichloroethane	50.00	54.9	110	75 - 125
1,1,1-Trichloroethane	50.00	54.4	109	65 - 130
Trichloroethene	50.00	53.2	106	70 - 125
Trichlorofluoromethane	50.00	57.0	114	60 - 145
1,2,3-Trichloropropane	50.00	53.3	107	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H13001	Laboratory ID:	1H13001-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	56.0	112	75 - 130
1,2,4-Trimethylbenzene	50.00	56.7	113	75 - 130
Vinyl chloride	50.00	54.0	108	50 - 145
m,p-Xylene	100.0	107	107	75 - 130
o-Xylene	50.00	54.6	109	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H13002	Laboratory ID:	1H13002-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	97.9	97.9	40 - 140
Benzene	50.00	54.5	109	80 - 120
Bromobenzene	50.00	53.9	108	75 - 125
Bromochloromethane	50.00	54.7	109	65 - 130
Bromodichloromethane	50.00	59.0	118	75 - 120
Bromoform	50.00	44.4	88.8	70 - 130
Bromomethane	50.00	28.8	57.7	30 - 145
n-Butylbenzene	50.00	54.4	109	70 - 135
2-Butanone	100.0	113	113	30 - 150
sec-Butylbenzene	50.00	54.5	109	70 - 125
tert-Butylbenzene	50.00	54.7	109	70 - 130
Carbon disulfide	50.00	56.7	113	35 - 160
Carbon tetrachloride	50.00	52.9	106	65 - 140
Chlorobenzene	50.00	55.3	111	80 - 120
Chloroethane	50.00	54.9	110	60 - 135
Chloroform	50.00	50.5	101	65 - 135
Chloromethane	50.00	39.4	78.8	40 - 125
2-Chlorotoluene	50.00	55.1	110	75 - 125
4-Chlorotoluene	50.00	54.8	110	75 - 130
Dibromochloromethane	50.00	48.2	96.4	60 - 135
1,2-Dibromo-3-chloropropane	50.00	44.2	88.5	50 - 130
1,2-Dibromoethane (EDB)	50.00	54.8	110	80 - 120
Dibromomethane	50.00	54.7	109	75 - 125
1,2-Dichlorobenzene	50.00	53.0	106	70 - 120
1,3-Dichlorobenzene	50.00	54.2	108	75 - 125
1,4-Dichlorobenzene	50.00	53.1	106	75 - 125
Dichlorodifluoromethane	50.00	47.1	94.2	30 - 155
1,1-Dichloroethane	50.00	55.7	111	70 - 135
1,2-Dichloroethane	50.00	55.1	110	70 - 130
1,1-Dichloroethene	50.00	59.2	118	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H13002	Laboratory ID:	1H13002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	53.6	107	70 - 125
trans-1,2-Dichloroethene	50.00	53.8	108	60 - 140
1,2-Dichloropropane	50.00	54.7	109	75 - 125
1,3-Dichloropropane	50.00	55.9	112	75 - 125
2,2-Dichloropropane	50.00	44.9	89.7	70 - 135
1,1-Dichloropropene	50.00	54.0	108	75 - 130
cis-1,3-Dichloropropene	50.00	54.3	109	70 - 130
trans-1,3-Dichloropropene	50.00	62.2	124	55 - 140
Ethylbenzene	50.00	53.9	108	75 - 125
Hexachlorobutadiene	50.00	53.0	106	50 - 140
2-Hexanone	100.0	120	120	55 - 130
Isopropylbenzene	50.00	56.8	114	75 - 125
p-Isopropyltoluene	50.00	57.5	115	75 - 130
Methylene chloride	50.00	53.6	107	55 - 140
Naphthalene	50.00	53.9	108	55 - 140
4-Methyl-2-pentanone	100.0	112	112	60 - 135
Methyl t-Butyl Ether	50.00	51.9	104	65 - 125
n-Propylbenzene	50.00	55.2	110	70 - 130
Styrene	50.00	57.2	114	65 - 135
1,1,2,2-Tetrachloroethane	50.00	55.4	111	65 - 130
1,1,1,2-Tetrachloroethane	50.00	49.7	99.4	80 - 130
Tetrachloroethene	50.00	51.2	102	45 - 150
Toluene	50.00	55.5	111	75 - 120
1,2,3-Trichlorobenzene	50.00	52.8	106	55 - 140
1,2,4-Trichlorobenzene	50.00	53.4	107	65 - 135
1,1,2-Trichloroethane	50.00	54.8	110	75 - 125
1,1,1-Trichloroethane	50.00	51.5	103	65 - 130
Trichloroethene	50.00	53.3	107	70 - 125
Trichlorofluoromethane	50.00	52.2	104	60 - 145
1,2,3-Trichloropropane	50.00	52.6	105	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H13002	Laboratory ID:	1H13002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	54.8	110	75 - 130
1,2,4-Trimethylbenzene	50.00	56.5	113	75 - 130
Vinyl chloride	50.00	51.3	103	50 - 145
m,p-Xylene	100.0	108	108	75 - 130
o-Xylene	50.00	54.1	108	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H13002	Laboratory ID:	1H13002-BS2
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	94.0	94.0	40 - 140
Benzene	50.00	53.0	106	80 - 120
Bromobenzene	50.00	53.1	106	75 - 125
Bromochloromethane	50.00	54.7	109	65 - 130
Bromodichloromethane	50.00	58.3	117	75 - 120
Bromoform	50.00	42.0	84.0	70 - 130
Bromomethane	50.00	21.4	42.8	30 - 145
n-Butylbenzene	50.00	55.1	110	70 - 135
2-Butanone	100.0	106	106	30 - 150
sec-Butylbenzene	50.00	54.9	110	70 - 125
tert-Butylbenzene	50.00	54.6	109	70 - 130
Carbon disulfide	50.00	59.6	119	35 - 160
Carbon tetrachloride	50.00	52.4	105	65 - 140
Chlorobenzene	50.00	52.8	106	80 - 120
Chloroethane	50.00	54.8	110	60 - 135
Chloroform	50.00	51.0	102	65 - 135
Chloromethane	50.00	36.7	73.5	40 - 125
2-Chlorotoluene	50.00	55.1	110	75 - 125
4-Chlorotoluene	50.00	54.9	110	75 - 130
Dibromochloromethane	50.00	46.9	93.7	60 - 135
1,2-Dibromo-3-chloropropane	50.00	42.4	84.8	50 - 130
1,2-Dibromoethane (EDB)	50.00	51.9	104	80 - 120
Dibromomethane	50.00	54.8	110	75 - 125
1,2-Dichlorobenzene	50.00	52.5	105	70 - 120
1,3-Dichlorobenzene	50.00	54.4	109	75 - 125
1,4-Dichlorobenzene	50.00	52.4	105	75 - 125
Dichlorodifluoromethane	50.00	47.4	94.8	30 - 155
1,1-Dichloroethane	50.00	55.2	110	70 - 135
1,2-Dichloroethane	50.00	54.3	109	70 - 130
1,1-Dichloroethene	50.00	57.5	115	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H13002	Laboratory ID:	1H13002-BS2
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	53.5	107	70 - 125
trans-1,2-Dichloroethene	50.00	54.3	109	60 - 140
1,2-Dichloropropane	50.00	54.6	109	75 - 125
1,3-Dichloropropane	50.00	53.5	107	75 - 125
2,2-Dichloropropane	50.00	52.8	106	70 - 135
1,1-Dichloropropene	50.00	52.6	105	75 - 130
cis-1,3-Dichloropropene	50.00	54.2	108	70 - 130
trans-1,3-Dichloropropene	50.00	61.7	123	55 - 140
Ethylbenzene	50.00	52.4	105	75 - 125
Hexachlorobutadiene	50.00	54.6	109	50 - 140
2-Hexanone	100.0	106	106	55 - 130
Isopropylbenzene	50.00	53.8	108	75 - 125
p-Isopropyltoluene	50.00	56.4	113	75 - 130
Methylene chloride	50.00	56.4	113	55 - 140
Naphthalene	50.00	49.6	99.2	55 - 140
4-Methyl-2-pentanone	100.0	104	104	60 - 135
Methyl t-Butyl Ether	50.00	51.1	102	65 - 125
n-Propylbenzene	50.00	54.8	110	70 - 130
Styrene	50.00	54.3	109	65 - 135
1,1,2,2-Tetrachloroethane	50.00	52.7	105	65 - 130
1,1,1,2-Tetrachloroethane	50.00	47.6	95.1	80 - 130
Tetrachloroethene	50.00	50.4	101	45 - 150
Toluene	50.00	53.8	108	75 - 120
1,2,3-Trichlorobenzene	50.00	50.7	101	55 - 140
1,2,4-Trichlorobenzene	50.00	52.4	105	65 - 135
1,1,2-Trichloroethane	50.00	51.5	103	75 - 125
1,1,1-Trichloroethane	50.00	51.8	104	65 - 130
Trichloroethene	50.00	51.4	103	70 - 125
Trichlorofluoromethane	50.00	53.7	107	60 - 145
1,2,3-Trichloropropane	50.00	50.3	101	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H13002	Laboratory ID:	1H13002-BS2
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	54.0	108	75 - 130
1,2,4-Trimethylbenzene	50.00	56.8	114	75 - 130
Vinyl chloride	50.00	50.5	101	50 - 145
m,p-Xylene	100.0	105	105	75 - 130
o-Xylene	50.00	52.3	105	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H14001	Laboratory ID:	1H14001-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	98.5	98.5	40 - 140
Benzene	50.00	54.8	110	80 - 120
Bromobenzene	50.00	52.7	105	75 - 125
Bromochloromethane	50.00	55.2	110	65 - 130
Bromodichloromethane	50.00	59.2	118	75 - 120
Bromoform	50.00	43.4	86.7	70 - 130
Bromomethane	50.00	26.0	52.0	30 - 145
n-Butylbenzene	50.00	53.5	107	70 - 135
2-Butanone	100.0	109	109	30 - 150
sec-Butylbenzene	50.00	55.1	110	70 - 125
tert-Butylbenzene	50.00	55.1	110	70 - 130
Carbon disulfide	50.00	56.6	113	35 - 160
Carbon tetrachloride	50.00	54.9	110	65 - 140
Chlorobenzene	50.00	54.9	110	80 - 120
Chloroethane	50.00	54.7	109	60 - 135
Chloroform	50.00	52.1	104	65 - 135
Chloromethane	50.00	38.0	76.0	40 - 125
2-Chlorotoluene	50.00	54.7	109	75 - 125
4-Chlorotoluene	50.00	54.2	108	75 - 130
Dibromochloromethane	50.00	47.6	95.2	60 - 135
1,2-Dibromo-3-chloropropane	50.00	42.6	85.2	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.1	106	80 - 120
Dibromomethane	50.00	55.5	111	75 - 125
1,2-Dichlorobenzene	50.00	52.6	105	70 - 120
1,3-Dichlorobenzene	50.00	53.3	107	75 - 125
1,4-Dichlorobenzene	50.00	51.8	104	75 - 125
Dichlorodifluoromethane	50.00	48.3	96.5	30 - 155
1,1-Dichloroethane	50.00	56.0	112	70 - 135
1,2-Dichloroethane	50.00	55.8	112	70 - 130
1,1-Dichloroethene	50.00	56.6	113	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H14001	Laboratory ID:	1H14001-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	53.7	107	70 - 125
trans-1,2-Dichloroethene	50.00	59.3	119	60 - 140
1,2-Dichloropropane	50.00	55.1	110	75 - 125
1,3-Dichloropropane	50.00	53.8	108	75 - 125
2,2-Dichloropropane	50.00	47.8	95.6	70 - 135
1,1-Dichloropropene	50.00	54.4	109	75 - 130
cis-1,3-Dichloropropene	50.00	54.2	108	70 - 130
trans-1,3-Dichloropropene	50.00	61.3	123	55 - 140
Ethylbenzene	50.00	53.4	107	75 - 125
Hexachlorobutadiene	50.00	52.7	105	50 - 140
2-Hexanone	100.0	112	112	55 - 130
Isopropylbenzene	50.00	56.4	113	75 - 125
p-Isopropyltoluene	50.00	56.3	113	75 - 130
Methylene chloride	50.00	53.2	106	55 - 140
Naphthalene	50.00	51.3	103	55 - 140
4-Methyl-2-pentanone	100.0	109	109	60 - 135
Methyl t-Butyl Ether	50.00	54.0	108	65 - 125
n-Propylbenzene	50.00	55.0	110	70 - 130
Styrene	50.00	55.1	110	65 - 135
1,1,2,2-Tetrachloroethane	50.00	53.7	107	65 - 130
1,1,1,2-Tetrachloroethane	50.00	48.7	97.3	80 - 130
Tetrachloroethene	50.00	50.8	102	45 - 150
Toluene	50.00	54.9	110	75 - 120
1,2,3-Trichlorobenzene	50.00	51.4	103	55 - 140
1,2,4-Trichlorobenzene	50.00	51.0	102	65 - 135
1,1,2-Trichloroethane	50.00	53.3	107	75 - 125
1,1,1-Trichloroethane	50.00	53.3	107	65 - 130
Trichloroethene	50.00	53.6	107	70 - 125
Trichlorofluoromethane	50.00	56.3	113	60 - 145
1,2,3-Trichloropropane	50.00	50.5	101	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H14001	Laboratory ID:	1H14001-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	53.4	107	75 - 130
1,2,4-Trimethylbenzene	50.00	56.2	112	75 - 130
Vinyl chloride	50.00	54.2	108	50 - 145
m,p-Xylene	100.0	106	106	75 - 130
o-Xylene	50.00	53.9	108	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H14002	Laboratory ID:	1H14002-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**	**144**	**144**	**40 - 140**
Benzene	50.00	58.5	117	80 - 120
Bromobenzene	50.00	50.8	102	75 - 125
Bromochloromethane	50.00	50.9	102	65 - 130
Bromodichloromethane	**50.00**	**61.9**	**124**	**75 - 120**
Bromoform	50.00	42.3	84.7	70 - 130
Bromomethane	50.00	47.7	95.5	30 - 145
n-Butylbenzene	50.00	55.7	111	70 - 135
2-Butanone	**100.0**	**174**	**174**	**30 - 150**
sec-Butylbenzene	50.00	58.3	117	70 - 125
tert-Butylbenzene	50.00	54.5	109	70 - 130
Carbon disulfide	50.00	58.5	117	35 - 160
Carbon tetrachloride	50.00	64.2	128	65 - 140
Chlorobenzene	50.00	48.1	96.3	80 - 120
Chloroethane	50.00	61.8	124	60 - 135
Chloroform	50.00	55.8	112	65 - 135
Chloromethane	**50.00**	**68.0**	**136**	**40 - 125**
2-Chlorotoluene	50.00	59.1	118	75 - 125
4-Chlorotoluene	50.00	57.4	115	75 - 130
Dibromochloromethane	50.00	50.3	101	60 - 135
1,2-Dibromo-3-chloropropane	50.00	53.7	107	50 - 130
1,2-Dibromoethane (EDB)	50.00	47.5	95.1	80 - 120
Dibromomethane	50.00	55.2	110	75 - 125
1,2-Dichlorobenzene	50.00	49.2	98.5	70 - 120
1,3-Dichlorobenzene	50.00	53.1	106	75 - 125
1,4-Dichlorobenzene	50.00	48.4	96.8	75 - 125
Dichlorodifluoromethane	50.00	58.2	116	30 - 155
1,1-Dichloroethane	50.00	62.9	126	70 - 135
1,2-Dichloroethane	**50.00**	**66.3**	**133**	**70 - 130**
1,1-Dichloroethene	50.00	59.2	118	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H14002	Laboratory ID:	1H14002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	53.7	107	70 - 125
trans-1,2-Dichloroethene	50.00	57.6	115	60 - 140
1,2-Dichloropropane	50.00	60.3	121	75 - 125
1,3-Dichloropropane	50.00	48.7	97.4	75 - 125
2,2-Dichloropropane	50.00	63.8	128	70 - 135
1,1-Dichloropropene	50.00	62.7	125	75 - 130
cis-1,3-Dichloropropene	50.00	57.4	115	70 - 130
trans-1,3-Dichloropropene	50.00	58.3	117	55 - 140
Ethylbenzene	50.00	50.7	101	75 - 125
Hexachlorobutadiene	50.00	52.7	105	50 - 140
2-Hexanone	**100.0**	**139**	**139**	**55 - 130**
Isopropylbenzene	50.00	52.8	106	75 - 125
p-Isopropyltoluene	50.00	55.8	112	75 - 130
Methylene chloride	50.00	50.0	100	55 - 140
Naphthalene	50.00	46.3	92.6	55 - 140
4-Methyl-2-pentanone	**100.0**	**157**	**157**	**60 - 135**
Methyl t-Butyl Ether	50.00	57.3	115	65 - 125
n-Propylbenzene	50.00	58.2	116	70 - 130
Styrene	50.00	49.2	98.3	65 - 135
1,1,2,2-Tetrachloroethane	50.00	60.0	120	65 - 130
1,1,1,2-Tetrachloroethane	50.00	47.6	95.2	80 - 130
Tetrachloroethene	50.00	41.8	83.7	45 - 150
Toluene	50.00	49.4	98.8	75 - 120
1,2,3-Trichlorobenzene	50.00	39.3	78.7	55 - 140
1,2,4-Trichlorobenzene	50.00	39.3	78.6	65 - 135
1,1,2-Trichloroethane	50.00	45.6	91.3	75 - 125
1,1,1-Trichloroethane	50.00	60.1	120	65 - 130
Trichloroethene	50.00	56.6	113	70 - 125
Trichlorofluoromethane	50.00	62.3	125	60 - 145
1,2,3-Trichloropropane	50.00	45.5	91.0	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H14002	Laboratory ID:	1H14002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	52.4	105	75 - 130
1,2,4-Trimethylbenzene	50.00	51.7	103	75 - 130
Vinyl chloride	50.00	37.3	74.6	50 - 145
m,p-Xylene	100.0	101	101	75 - 130
o-Xylene	50.00	48.4	96.8	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H20001	Laboratory ID:	1H20001-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**	**151**	**151**	**40 - 140**
Benzene	50.00	58.8	118	80 - 120
Bromobenzene	50.00	52.1	104	75 - 125
Bromochloromethane	50.00	47.8	95.6	65 - 130
Bromodichloromethane	50.00	50.8	102	75 - 120
Bromoform	50.00	49.8	99.6	70 - 130
Bromomethane	50.00	53.3	107	30 - 145
n-Butylbenzene	50.00	62.9	126	70 - 135
2-Butanone	100.0	132	132	30 - 150
sec-Butylbenzene	50.00	59.8	120	70 - 125
tert-Butylbenzene	50.00	55.6	111	70 - 130
Carbon disulfide	50.00	56.2	112	35 - 160
Carbon tetrachloride	50.00	58.4	117	65 - 140
Chlorobenzene	50.00	46.9	93.9	80 - 120
Chloroethane	50.00	64.0	128	60 - 135
Chloroform	50.00	50.9	102	65 - 135
Chloromethane	50.00	49.6	99.1	40 - 125
2-Chlorotoluene	50.00	60.7	121	75 - 125
4-Chlorotoluene	50.00	58.0	116	75 - 130
Dibromochloromethane	50.00	45.8	91.6	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.3	101	50 - 130
1,2-Dibromoethane (EDB)	50.00	46.9	93.8	80 - 120
Dibromomethane	50.00	52.2	104	75 - 125
1,2-Dichlorobenzene	50.00	52.0	104	70 - 120
1,3-Dichlorobenzene	50.00	51.9	104	75 - 125
1,4-Dichlorobenzene	50.00	53.9	108	75 - 125
Dichlorodifluoromethane	50.00	53.5	107	30 - 155
1,1-Dichloroethane	50.00	61.3	123	70 - 135
1,2-Dichloroethane	50.00	50.9	102	70 - 130
1,1-Dichloroethene	50.00	53.6	107	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H20001	Laboratory ID:	1H20001-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	53.5	107	70 - 125
trans-1,2-Dichloroethene	50.00	54.1	108	60 - 140
1,2-Dichloropropane	50.00	61.9	124	75 - 125
1,3-Dichloropropane	50.00	55.2	110	75 - 125
2,2-Dichloropropane	50.00	59.7	119	70 - 135
1,1-Dichloropropene	50.00	61.1	122	75 - 130
cis-1,3-Dichloropropene	50.00	58.4	117	70 - 130
trans-1,3-Dichloropropene	50.00	48.4	96.8	55 - 140
Ethylbenzene	50.00	52.8	106	75 - 125
Hexachlorobutadiene	**50.00**	**75.5**	**151**	**50 - 140**
2-Hexanone	100.0	127	127	55 - 130
Isopropylbenzene	50.00	48.1	96.2	75 - 125
p-Isopropyltoluene	50.00	53.7	107	75 - 130
Methylene chloride	50.00	52.5	105	55 - 140
Naphthalene	50.00	53.3	107	55 - 140
4-Methyl-2-pentanone	100.0	117	117	60 - 135
Methyl t-Butyl Ether	50.00	54.7	109	65 - 125
n-Propylbenzene	50.00	62.5	125	70 - 130
Styrene	50.00	48.3	96.5	65 - 135
1,1,2,2-Tetrachloroethane	50.00	59.1	118	65 - 130
1,1,1,2-Tetrachloroethane	50.00	46.1	92.1	80 - 130
Tetrachloroethene	50.00	52.3	105	45 - 150
Toluene	50.00	52.7	105	75 - 120
1,2,3-Trichlorobenzene	50.00	60.4	121	55 - 140
1,2,4-Trichlorobenzene	50.00	55.6	111	65 - 135
1,1,2-Trichloroethane	50.00	53.9	108	75 - 125
1,1,1-Trichloroethane	50.00	57.3	115	65 - 130
Trichloroethene	50.00	53.4	107	70 - 125
Trichlorofluoromethane	50.00	59.2	118	60 - 145
1,2,3-Trichloropropane	50.00	47.1	94.3	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H20001	Laboratory ID:	1H20001-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	58.1	116	75 - 130
1,2,4-Trimethylbenzene	50.00	55.0	110	75 - 130
Vinyl chloride	50.00	60.7	121	50 - 145
m,p-Xylene	100.0	103	103	75 - 130
o-Xylene	50.00	50.9	102	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H14001

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acetone	100.0	ND	110	110		40 - 140
Benzene	50.00	ND	56.1	112		80 - 120
Bromobenzene	50.00	ND	53.7	107		75 - 125
Bromochloromethane	50.00	ND	56.3	113		65 - 130
Bromodichloromethane	50.00	ND	60.2	120		75 - 120
Bromoform	50.00	ND	43.6	87.3		70 - 130
Bromomethane	50.00	ND	15.8	31.6		30 - 145
n-Butylbenzene	50.00	ND	53.0	106		70 - 135
2-Butanone	100.0	ND	118	118		30 - 150
sec-Butylbenzene	50.00	ND	55.3	111		70 - 125
tert-Butylbenzene	50.00	ND	56.1	112		70 - 130
Carbon disulfide	50.00	ND	62.9	126		35 - 160
Carbon tetrachloride	50.00	ND	57.4	115		65 - 140
Chlorobenzene	50.00	ND	55.2	110		80 - 120
Chloroethane	50.00	ND	60.0	120		60 - 135
Chloroform	50.00	ND	53.9	108		65 - 135
Chloromethane	50.00	ND	41.9	83.8		40 - 125
2-Chlorotoluene	50.00	ND	54.5	109		75 - 125
4-Chlorotoluene	50.00	ND	55.6	111		75 - 130
Dibromochloromethane	50.00	ND	47.7	95.4		60 - 135
1,2-Dibromo-3-chloropropane	50.00	ND	43.6	87.1		50 - 130
1,2-Dibromoethane (EDB)	50.00	ND	54.3	109		80 - 120
Dibromomethane	50.00	ND	56.7	113		75 - 125
1,2-Dichlorobenzene	50.00	ND	52.2	104		70 - 120
1,3-Dichlorobenzene	50.00	ND	54.0	108		75 - 125
1,4-Dichlorobenzene	50.00	ND	52.5	105		75 - 125
Dichlorodifluoromethane	50.00	ND	50.3	101		30 - 155
1,1-Dichloroethane	50.00	ND	57.9	116		70 - 135
1,2-Dichloroethane	50.00	ND	57.7	115		70 - 130
1,1-Dichloroethene	50.00	ND	63.0	126		70 - 130
cis-1,2-Dichloroethene	50.00	ND	55.8	112		70 - 125
trans-1,2-Dichloroethene	50.00	ND	58.6	117		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H14001

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dichloropropane	50.00	ND	56.7	113		75 - 125
1,3-Dichloropropane	50.00	ND	55.1	110		75 - 125
2,2-Dichloropropane	50.00	ND	43.1	86.2		70 - 135
1,1-Dichloropropene	50.00	ND	58.2	116		75 - 130
cis-1,3-Dichloropropene	50.00	ND	53.9	108		70 - 130
trans-1,3-Dichloropropene	50.00	ND	60.8	122		55 - 140
Ethylbenzene	50.00	ND	54.3	109		75 - 125
Hexachlorobutadiene	50.00	ND	50.6	101		50 - 140
2-Hexanone	100.0	ND	117	117		55 - 130
Isopropylbenzene	50.00	ND	55.0	110		75 - 125
p-Isopropyltoluene	50.00	ND	57.8	116		75 - 130
Methylene chloride	50.00	ND	58.5	117		55 - 140
Naphthalene	50.00	ND	50.3	101		55 - 140
4-Methyl-2-pentanone	100.0	ND	115	115		60 - 135
Methyl t-Butyl Ether	50.00	ND	54.5	109		65 - 125
n-Propylbenzene	50.00	ND	56.0	112		70 - 130
Styrene	50.00	ND	54.8	110		65 - 135
1,1,2,2-Tetrachloroethane	50.00	ND	55.6	111		65 - 130
1,1,1,2-Tetrachloroethane	50.00	ND	49.6	99.2		80 - 130
Tetrachloroethene	50.00	ND	51.2	102		45 - 150
Toluene	50.00	ND	55.6	111		75 - 120
1,2,3-Trichlorobenzene	50.00	ND	48.7	97.4		55 - 140
1,2,4-Trichlorobenzene	50.00	ND	50.3	101		65 - 135
1,1,2-Trichloroethane	50.00	ND	55.2	110		75 - 125
1,1,1-Trichloroethane	50.00	ND	55.4	111		65 - 130
Trichloroethene	50.00	ND	55.5	111		70 - 125
Trichlorofluoromethane	50.00	ND	60.0	120		60 - 145
1,2,3-Trichloropropane	50.00	ND	52.9	106		75 - 125
1,3,5-Trimethylbenzene	50.00	ND	55.3	111		75 - 130
1,2,4-Trimethylbenzene	50.00	ND	57.4	115		75 - 130
Vinyl chloride	50.00	ND	53.1	106		50 - 145
m,p-Xylene	100.0	ND	107	107		75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H14001

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
o-Xylene	50.00	ND	53.1	106		80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H14001

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	109	109	0.845		30	40 - 140
Benzene	50.00	54.1	108	3.55		30	80 - 120
Bromobenzene	50.00	52.2	104	2.82		30	75 - 125
Bromochloromethane	50.00	56.1	112	0.244		30	65 - 130
Bromodichloromethane	50.00	60.0	120	0.361		30	75 - 120
Bromoform	50.00	44.2	88.4	1.27		30	70 - 130
Bromomethane	50.00	18.4	36.7	15.1		30	30 - 145
n-Butylbenzene	50.00	51.0	102	3.86		30	70 - 135
2-Butanone	100.0	117	117	0.441		30	30 - 150
sec-Butylbenzene	50.00	53.8	108	2.81		30	70 - 125
tert-Butylbenzene	50.00	54.4	109	3.16		30	70 - 130
Carbon disulfide	50.00	60.6	121	3.67		30	35 - 160
Carbon tetrachloride	50.00	56.0	112	2.57		30	65 - 140
Chlorobenzene	50.00	54.0	108	2.21		30	80 - 120
Chloroethane	50.00	50.1	100	18.0		30	60 - 135
Chloroform	50.00	52.6	105	2.40		30	65 - 135
Chloromethane	50.00	33.5	67.0	22.2		30	40 - 125
2-Chlorotoluene	50.00	55.0	110	0.925		30	75 - 125
4-Chlorotoluene	50.00	55.2	110	0.732		30	75 - 130
Dibromochloromethane	50.00	48.8	97.7	2.37		30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	43.7	87.4	0.294		30	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.3	111	1.88		30	80 - 120
Dibromomethane	50.00	57.5	115	1.31		30	75 - 125
1,2-Dichlorobenzene	50.00	52.1	104	0.323		30	70 - 120
1,3-Dichlorobenzene	50.00	53.9	108	0.190		30	75 - 125
1,4-Dichlorobenzene	50.00	51.6	103	1.65		30	75 - 125
Dichlorodifluoromethane	50.00	47.4	94.7	6.02		30	30 - 155
1,1-Dichloroethane	50.00	56.6	113	2.18		30	70 - 135
1,2-Dichloroethane	50.00	57.3	115	0.724		30	70 - 130
1,1-Dichloroethene	50.00	61.0	122	3.24		30	70 - 130
cis-1,2-Dichloroethene	50.00	53.7	107	3.82		30	70 - 125
trans-1,2-Dichloroethene	50.00	56.6	113	3.43		30	60 - 140
1,2-Dichloropropane	50.00	54.9	110	3.24		30	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H14001

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichloropropane	50.00	55.8	112	1.30		30	75 - 125
2,2-Dichloropropane	50.00	40.1	80.1	7.30		30	70 - 135
1,1-Dichloropropene	50.00	55.5	111	4.81		30	75 - 130
cis-1,3-Dichloropropene	50.00	53.4	107	0.997		30	70 - 130
trans-1,3-Dichloropropene	50.00	62.2	124	2.27		30	55 - 140
Ethylbenzene	50.00	53.9	108	0.734		30	75 - 125
Hexachlorobutadiene	50.00	50.4	101	0.255		30	50 - 140
2-Hexanone	100.0	120	120	2.81		30	55 - 130
Isopropylbenzene	50.00	55.8	112	1.55		30	75 - 125
p-Isopropyltoluene	50.00	55.7	111	3.71		30	75 - 130
Methylene chloride	50.00	56.9	114	2.67		30	55 - 140
Naphthalene	50.00	51.4	103	2.22		30	55 - 140
4-Methyl-2-pentanone	100.0	115	115	0.140		30	60 - 135
Methyl t-Butyl Ether	50.00	54.8	110	0.651		30	65 - 125
n-Propylbenzene	50.00	54.1	108	3.51		30	70 - 130
Styrene	50.00	54.8	110	0.0527		30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	56.1	112	0.903		30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	48.6	97.1	2.13		30	80 - 130
Tetrachloroethene	50.00	50.7	101	0.970		30	45 - 150
Toluene	50.00	55.0	110	0.975		30	75 - 120
1,2,3-Trichlorobenzene	50.00	49.0	98.0	0.585		30	55 - 140
1,2,4-Trichlorobenzene	50.00	50.7	101	0.782		30	65 - 135
1,1,2-Trichloroethane	50.00	54.5	109	1.40		30	75 - 125
1,1,1-Trichloroethane	50.00	54.3	109	1.94		30	65 - 130
Trichloroethene	50.00	53.4	107	3.70		30	70 - 125
Trichlorofluoromethane	50.00	56.8	114	5.43		30	60 - 145
1,2,3-Trichloropropane	50.00	54.3	109	2.74		30	75 - 125
1,3,5-Trimethylbenzene	50.00	54.6	109	1.37		30	75 - 130
1,2,4-Trimethylbenzene	50.00	55.7	111	3.05		30	75 - 130
Vinyl chloride	50.00	51.7	103	2.68		30	50 - 145
m,p-Xylene	100.0	105	105	1.81		30	75 - 130
o-Xylene	50.00	53.8	108	1.33		30	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H13001 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0155-R	1108110-01	08/13/11 00:00	5.00	5.00
GW0156-R	1108110-03	08/13/11 00:00	5.00	5.00
GW0176	1108110-05	08/13/11 00:00	5.00	5.00
GW8023-RB	1108110-07	08/13/11 00:00	5.00	5.00
Blank	1H13001-BLK1	08/13/11 00:00	5.00	5.00
LCS	1H13001-BS1	08/13/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H13002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8089-TB	1108110-09	08/13/11 00:00	5.00	5.00
GW0162	1108126-01	08/14/11 00:00	5.00	5.00
GW0244	1108126-03	08/14/11 00:00	5.00	5.00
GW8090-TB	1108126-05	08/14/11 00:00	5.00	5.00
Blank	1H13002-BLK1	08/13/11 00:00	5.00	5.00
Blank	1H13002-BLK2	08/14/11 00:00	5.00	5.00
LCS	1H13002-BS1	08/13/11 00:00	5.00	5.00
LCS	1H13002-BS2	08/14/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H14001 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0160	1108138-01	08/14/11 00:00	5.00	5.00
GW0191	1108138-02	08/14/11 00:00	5.00	5.00
GW8091-TB	1108138-03	08/14/11 00:00	5.00	5.00
Blank	1H14001-BLK1	08/14/11 00:00	5.00	5.00
LCS	1H14001-BS1	08/14/11 00:00	5.00	5.00
GW0160	1H14001-MS1	08/14/11 00:00	5.00	5.00
GW0160	1H14001-MSD1	08/14/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H14002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0161	1108152-01	08/14/11 00:00	5.00	5.00
GW0177	1108152-03	08/14/11 00:00	5.00	5.00
GW0178	1108152-05	08/14/11 00:00	5.00	5.00
GW0180	1108152-07	08/14/11 00:00	5.00	5.00
GW0181	1108152-09	08/14/11 00:00	5.00	5.00
GW8092-TB	1108152-11	08/14/11 00:00	5.00	5.00
Blank	1H14002-BLK1	08/14/11 00:00	5.00	5.00
LCS	1H14002-BS1	08/14/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H20001 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0179	1108166-01	08/20/11 00:00	5.00	5.00
GW8093-TB	1108166-03	08/20/11 00:00	5.00	5.00
Blank	1H20001-BLK1	08/20/11 00:00	5.00	5.00
LCS	1H20001-BS1	08/20/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0708TU1.D	Injection Date:	07/08/11
Instrument ID:	MS-VOA5	Injection Time:	12:12
Sequence:	1G19304	Lab Sample ID:	1G19304-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.1	PASS
75	30 - 60% of 95	42.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.93	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	86.3	PASS
175	5 - 9% of 174	7	PASS
176	95 - 101% of 174	99.5	PASS
177	5 - 9% of 176	6.28	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0708TU2.D	Injection Date:	07/09/11
Instrument ID:	MS-VOA5	Injection Time:	07:02
Sequence:	1G19304	Lab Sample ID:	1G19304-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.6	PASS
75	30 - 60% of 95	44.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.37	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	61.6	PASS
175	5 - 9% of 174	7.61	PASS
176	95 - 101% of 174	98.3	PASS
177	5 - 9% of 176	7.28	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0715TUN1.D	Injection Date:	07/15/11
Instrument ID:	MS-VOA6	Injection Time:	06:41
Sequence:	1G19702	Lab Sample ID:	1G19702-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.8	PASS
75	30 - 60% of 95	53.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.07	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	94	PASS
175	5 - 9% of 174	7.32	PASS
176	95 - 101% of 174	98.7	PASS
177	5 - 9% of 176	6.46	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0813TUN1.D	Injection Date:	08/13/11
Instrument ID:	MS-VOA6	Injection Time:	06:31
Sequence:	1H22602	Lab Sample ID:	1H22602-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.9	PASS
75	30 - 60% of 95	54.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.02	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	108	PASS
175	5 - 9% of 174	6.7	PASS
176	95 - 101% of 174	98.4	PASS
177	5 - 9% of 176	5.97	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0814TU1.D	Injection Date:	08/14/11
Instrument ID:	MS-VOA5	Injection Time:	07:22
Sequence:	1H22802	Lab Sample ID:	1H22802-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.5	PASS
75	30 - 60% of 95	46	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.4	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	62	PASS
175	5 - 9% of 174	6.92	PASS
176	95 - 101% of 174	99.8	PASS
177	5 - 9% of 176	6.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0816TU1.D	Injection Date:	08/16/11
Instrument ID:	MS-VOA4	Injection Time:	09:01
Sequence:	1H22902	Lab Sample ID:	1H22902-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.7	PASS
75	30 - 60% of 95	35.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.32	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	70.1	PASS
175	5 - 9% of 174	7.97	PASS
176	95 - 101% of 174	96	PASS
177	5 - 9% of 176	7.08	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0817TU1.D	Injection Date:	08/17/11
Instrument ID:	MS-VOA4	Injection Time:	07:11
Sequence:	1H22902	Lab Sample ID:	1H22902-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	17.4	PASS
75	30 - 60% of 95	36.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.17	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	52.6	PASS
175	5 - 9% of 174	7.67	PASS
176	95 - 101% of 174	98.8	PASS
177	5 - 9% of 176	5.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	814TUN1.D	Injection Date:	08/14/11
Instrument ID:	MS-VOA6	Injection Time:	18:24
Sequence:	1H22908	Lab Sample ID:	1H22908-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.6	PASS
75	30 - 60% of 95	55.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.37	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	87.6	PASS
175	5 - 9% of 174	7.19	PASS
176	95 - 101% of 174	96.5	PASS
177	5 - 9% of 176	6.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0813TUN2.D	Injection Date:	08/13/11
Instrument ID:	MS-VOA6	Injection Time:	18:05
Sequence:	1H23006	Lab Sample ID:	1H23006-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.2	PASS
75	30 - 60% of 95	59	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.35	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	76	PASS
175	5 - 9% of 174	7.63	PASS
176	95 - 101% of 174	95.5	PASS
177	5 - 9% of 176	6.82	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	813TUN2X.D	Injection Date:	08/14/11
Instrument ID:	MS-VOA6	Injection Time:	06:25
Sequence:	1H23006	Lab Sample ID:	1H23006-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	24.6	PASS
75	30 - 60% of 95	58	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.15	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	82.2	PASS
175	5 - 9% of 174	6.92	PASS
176	95 - 101% of 174	95.9	PASS
177	5 - 9% of 176	6.25	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0820TU1.D	Injection Date:	08/20/11
Instrument ID:	MS-VOA4	Injection Time:	09:47
Sequence:	1H23204	Lab Sample ID:	1H23204-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	17.1	PASS
75	30 - 60% of 95	35.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.43	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	69.6	PASS
175	5 - 9% of 174	7.9	PASS
176	95 - 101% of 174	95.1	PASS
177	5 - 9% of 176	5.91	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G19304	Instrument:	MS-VOA5
Calibration:	1195002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1G19304-TUN1	0708TU1.D	07/08/11 12:12
Cal Standard	1G19304-CAL1	SEQ-CAL1.D	07/08/11 12:44
Cal Standard	1G19304-CAL2	SEQ-CAL2.D	07/08/11 13:09
Cal Standard	1G19304-CAL3	SEQ-CAL3.D	07/08/11 13:34
Cal Standard	1G19304-CAL4	SEQ-CAL4.D	07/08/11 13:59
Cal Standard	1G19304-CAL5	SEQ-CAL5.D	07/08/11 14:25
Cal Standard	1G19304-CAL6	SEQ-CAL6.D	07/08/11 14:50
Cal Standard	1G19304-CAL7	SEQ-CAL7.D	07/08/11 15:15
Cal Standard	1G19304-CAL8	SEQ-CAL8.D	07/08/11 15:41
Cal Standard	1G19304-CAL9	SEQ-CAL9.D	07/08/11 16:06
Initial Cal Check	1G19304-ICV1	SEQ-ICV1.D	07/08/11 16:31
Initial Cal Check	1G19304-ICV2	SEQ-ICV2.D	07/08/11 16:56
Cal Standard	1G19304-CALA	SEQ-CALA.D	07/08/11 17:21
Cal Standard	1G19304-CALB	SEQ-CALB.D	07/08/11 17:46
Cal Standard	1G19304-CALC	SEQ-CALC.D	07/08/11 18:11
Cal Standard	1G19304-CALD	SEQ-CALD.D	07/08/11 18:37
Cal Standard	1G19304-CALE	SEQ-CALE.D	07/08/11 19:02
Cal Standard	1G19304-CALF	SEQ-CALF.D	07/08/11 19:27
Cal Standard	1G19304-CALG	SEQ-CALG.D	07/08/11 19:52
Cal Standard	1G19304-CALH	SEQ-CALH.D	07/08/11 20:18
Cal Standard	1G19304-CALI	SEQ-CALI.D	07/08/11 20:43
Initial Cal Check	1G19304-ICV3	SEQ-ICV3.D	07/08/11 21:08
MS Tune	1G19304-TUN2	0708TU2.D	07/09/11 07:02
Cal Standard	1G19304-CALJ	SEQ-CALJ.D	07/09/11 07:37
Cal Standard	1G19304-CALK	SEQ-CALK.D	07/09/11 08:02
Cal Standard	1G19304-CALL	SEQ-CALL.D	07/09/11 08:28
Cal Standard	1G19304-CALM	SEQ-CALM.D	07/09/11 08:53
Cal Standard	1G19304-CALN	SEQ-CALN.D	07/09/11 09:18
Cal Standard	1G19304-CALO	SEQ-CALO.D	07/09/11 09:43
Cal Standard	1G19304-CALP	SEQ-CALP.D	07/09/11 10:08
Cal Standard	1G19304-CALQ	SEQ-CALQ.D	07/09/11 10:34
Cal Standard	1G19304-CALR	SEQ-CALR.D	07/09/11 10:59

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1G19702	Instrument:	MS-VOA6
Calibration:	1197002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1G19702-TUN1	0715TUN1.D	07/15/11 06:41
Cal Standard	1G19702-CAL1	0715CAL1.D	07/15/11 07:34
Cal Standard	1G19702-CAL2	0715CAL2.D	07/15/11 08:01
Cal Standard	1G19702-CAL3	0715CAL3.D	07/15/11 08:28
Cal Standard	1G19702-CAL4	0715CAL4.D	07/15/11 08:55
Cal Standard	1G19702-CAL5	0715CAL5.D	07/15/11 09:21
Cal Standard	1G19702-CAL6	0715CAL6.D	07/15/11 09:48
Cal Standard	1G19702-CAL7	0715CAL7.D	07/15/11 10:15
Cal Standard	1G19702-CAL8	0715CAL8.D	07/15/11 10:42
Cal Standard	1G19702-CAL9	0715CAL9.D	07/15/11 11:08
Initial Cal Check	1G19702-ICV2	0715ICV2.D	07/15/11 12:29
Cal Standard	1G19702-CALA	0715CALA.D	07/15/11 12:56
Cal Standard	1G19702-CALB	0715CALB.D	07/15/11 13:22
Cal Standard	1G19702-CALC	0715CALC.D	07/15/11 13:49
Cal Standard	1G19702-CALD	0715CALD.D	07/15/11 14:16
Cal Standard	1G19702-CALE	0715CALE.D	07/15/11 14:43
Cal Standard	1G19702-CALF	0715CALF.D	07/15/11 15:09
Cal Standard	1G19702-CALG	0715CALG.D	07/15/11 15:36
Cal Standard	1G19702-CALH	0715CALH.D	07/15/11 16:03
Cal Standard	1G19702-CALI	0715CALI.D	07/15/11 16:30
Initial Cal Check	1G19702-ICV3	0715ICV3.D	07/15/11 16:57

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22602	Instrument:	MS-VOA6
Calibration:	1197002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H22602-TUN1	0813TUN1.D	08/13/11 06:31
Calibration Check	1H22602-CCV1	0813CCV1.D	08/13/11 06:58
LCS	1H13001-BS1	0813LCS1.D	08/13/11 07:25
Blank	1H13001-BLK1	0813BLK1.D	08/13/11 08:43
GW8023-RB	1108110-07	0811007.D	08/13/11 10:04
GW0155-R	1108110-01	0811001.D	08/13/11 13:38
GW0156-R	1108110-03	0811003.D	08/13/11 14:04
GW0176	1108110-05	0811005.D	08/13/11 14:31

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22802	Instrument:	MS-VOA5
Calibration:	1195002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H22802-TUN1	0814TU1.D	08/14/11 07:22
Calibration Check	1H22802-CCV1	0814CCV1.D	08/14/11 08:35
LCS	1H14002-BS1	0814LCS1.D	08/14/11 09:11
Blank	1H14002-BLK1	0814BLK1.D	08/14/11 10:24
GW8092-TB	1108152-11	0815211.D	08/14/11 10:49
GW0161	1108152-01	0815201.D	08/14/11 12:30
GW0177	1108152-03	0815203.D	08/14/11 12:55
GW0178	1108152-05	0815205.D	08/14/11 13:20
GW0180	1108152-07	0815207.D	08/14/11 13:45
GW0181	1108152-09	0815209.D	08/14/11 14:10

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22902	Instrument:	MS-VOA4
Calibration:	1229002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H22902-TUN1	0816TU1.D	08/16/11 09:01
Cal Standard	1H22902-CAL1	SEQ-CAL1.D	08/16/11 10:01
Cal Standard	1H22902-CAL2	SEQ-CAL2.D	08/16/11 10:30
Cal Standard	1H22902-CAL3	SEQ-CAL3.D	08/16/11 10:58
Cal Standard	1H22902-CAL4	SEQ-CAL4.D	08/16/11 11:26
Cal Standard	1H22902-CAL5	SEQ-CAL5.D	08/16/11 11:55
Cal Standard	1H22902-CAL6	SEQ-CAL6.D	08/16/11 12:23
Cal Standard	1H22902-CAL7	SEQ-CAL7.D	08/16/11 12:51
Cal Standard	1H22902-CAL8	SEQ-CAL8.D	08/16/11 13:19
Cal Standard	1H22902-CAL9	SEQ-CAL9.D	08/16/11 13:47
Initial Cal Check	1H22902-ICV1	SEQ-ICV1.D	08/16/11 14:44
Initial Cal Check	1H22902-ICV2	SEQ-ICV2.D	08/16/11 15:12
MS Tune	1H22902-TUN2	0817TU1.D	08/17/11 07:11

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22908	Instrument:	MS-VOA6
Calibration:	1197002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H22908-TUN1	814TUN1.D	08/14/11 18:24
Calibration Check	1H22908-CCV1	814CCV1.D	08/14/11 18:50
LCS	1H14001-BS1	814LCS1.D	08/14/11 19:17
Blank	1H14001-BLK1	814BLK1.D	08/14/11 20:35
GW8091-TB	1108138-03	0813803.D	08/14/11 21:02
GW0160	1108138-01	0813801.D	08/14/11 22:22
GW0191	1108138-02	0813802.D	08/14/11 22:49
GW0160	1H14001-MS1	0813801M.D	08/15/11 04:09
GW0160	1H14001-MSD1	0813801S.D	08/15/11 04:35

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23006	Instrument:	MS-VOA6
Calibration:	1197002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23006-TUN1	0813TUN2.D	08/13/11 18:05
Calibration Check	1H23006-CCV1	0813CCV2.D	08/13/11 18:31
LCS	1H13002-BS1	0813LCS2.D	08/13/11 18:58
Blank	1H13002-BLK1	0813BLK2.D	08/13/11 20:16
GW8089-TB	1108110-09	0811009.D	08/13/11 20:43
MS Tune	1H23006-TUN2	813TUN2X.D	08/14/11 06:25
Calibration Check	1H23006-CCV2	813CCV2X.D	08/14/11 06:51
LCS	1H13002-BS2	813LCS2X.D	08/14/11 07:18
Blank	1H13002-BLK2	813BLK2X.D	08/14/11 08:36
GW8090-TB	1108126-05	0812605X.D	08/14/11 09:30
GW0162	1108126-01	0812601X.D	08/14/11 13:57
GW0244	1108126-03	0812603X.D	08/14/11 14:24

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23204	Instrument:	MS-VOA4
Calibration:	1229002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23204-TUN1	0820TU1.D	08/20/11 09:47
Calibration Check	1H23204-CCV1	0820CCV1.D	08/20/11 11:23
LCS	1H20001-BS1	0820LS1.D	08/20/11 12:01
Blank	1H20001-BLK1	0820BLK1.D	08/20/11 13:23
GW8093-TB	1108166-03	0816603.D	08/20/11 13:51
GW0179	1108166-01	0816601.D	08/20/11 15:16

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22602	Instrument:	MS-VOA6
		Calibration:	1197002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H22602-CCV1)			Lab File ID: 0813CCV1.D			Analyzed: 08/13/11 06:58			
Fluorobenzene	779733	7.972	704952	7.974	111	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	299626	11.083	316180	11.085	95	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	298120	13.476	316197	13.477	94	50 - 200	-0.0010	+/-0.50	
LCS (1H13001-BS1)			Lab File ID: 0813LCS1.D			Analyzed: 08/13/11 07:25			
Fluorobenzene	680744	7.971	779733	7.972	87	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	306983	11.082	299626	11.083	102	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	288844	13.474	298120	13.476	97	50 - 200	-0.0020	+/-0.50	
Blank (1H13001-BLK1)			Lab File ID: 0813BLK1.D			Analyzed: 08/13/11 08:43			
Fluorobenzene	715199	7.977	779733	7.972	92	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	335591	11.078	299626	11.083	112	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	319317	13.471	298120	13.476	107	50 - 200	-0.0050	+/-0.50	
GW8023-RB (1108110-07)			Lab File ID: 0811007.D			Analyzed: 08/13/11 10:04			
Fluorobenzene	687264	7.971	779733	7.972	88	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	324002	11.083	299626	11.083	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	306675	13.465	298120	13.476	103	50 - 200	-0.0110	+/-0.50	
GW0155-R (1108110-01)			Lab File ID: 0811001.D			Analyzed: 08/13/11 13:38			
Fluorobenzene	669128	7.976	779733	7.972	86	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	312259	11.077	299626	11.083	104	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	300749	13.47	298120	13.476	101	50 - 200	-0.0060	+/-0.50	
GW0156-R (1108110-03)			Lab File ID: 0811003.D			Analyzed: 08/13/11 14:04			
Fluorobenzene	671515	7.972	779733	7.972	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	323381	11.083	299626	11.083	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	303364	13.466	298120	13.476	102	50 - 200	-0.0100	+/-0.50	
GW0176 (1108110-05)			Lab File ID: 0811005.D			Analyzed: 08/13/11 14:31			
Fluorobenzene	662056	7.977	779733	7.972	85	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	320077	11.079	299626	11.083	107	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	298522	13.471	298120	13.476	100	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22802	Instrument:	MS-VOA5
		Calibration:	1195002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H22802-CCV1)			Lab File ID: 0814CCV1.D			Analyzed: 08/14/11 08:35			
Fluorobenzene	1035469	7.865	1042822	7.921	99	50 - 200	-0.0560	+/-0.50	
Chlorobenzene-d5	489676	10.997	416980	11.054	117	50 - 200	-0.0570	+/-0.50	
1,4-Dichlorobenzene-d4	320263	13.401	322521	13.457	99	50 - 200	-0.0560	+/-0.50	
LCS (1H14002-BS1)			Lab File ID: 0814LCS1.D			Analyzed: 08/14/11 09:11			
Fluorobenzene	1035657	7.866	1035469	7.865	100	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	497605	10.998	489676	10.997	102	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	311265	13.402	320263	13.401	97	50 - 200	0.0010	+/-0.50	
Blank (1H14002-BLK1)			Lab File ID: 0814BLK1.D			Analyzed: 08/14/11 10:24			
Fluorobenzene	1001230	7.864	1035469	7.865	97	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	491644	10.997	489676	10.997	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	306255	13.4	320263	13.401	96	50 - 200	-0.0010	+/-0.50	
GW8092-TB (1108152-11)			Lab File ID: 0815211.D			Analyzed: 08/14/11 10:49			
Fluorobenzene	969666	7.868	1035469	7.865	94	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	479488	11	489676	10.997	98	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	290155	13.394	320263	13.401	91	50 - 200	-0.0070	+/-0.50	
GW0161 (1108152-01)			Lab File ID: 0815201.D			Analyzed: 08/14/11 12:30			
Fluorobenzene	921126	7.859	1035469	7.865	89	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	466932	11.002	489676	10.997	95	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	285217	13.395	320263	13.401	89	50 - 200	-0.0060	+/-0.50	
GW0177 (1108152-03)			Lab File ID: 0815203.D			Analyzed: 08/14/11 12:55			
Fluorobenzene	934483	7.864	1035469	7.865	90	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	466792	10.996	489676	10.997	95	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	283388	13.4	320263	13.401	88	50 - 200	-0.0010	+/-0.50	
GW0178 (1108152-05)			Lab File ID: 0815205.D			Analyzed: 08/14/11 13:20			
Fluorobenzene	925903	7.868	1035469	7.865	89	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	463070	11	489676	10.997	95	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	283558	13.394	320263	13.401	89	50 - 200	-0.0070	+/-0.50	
GW0180 (1108152-07)			Lab File ID: 0815207.D			Analyzed: 08/14/11 13:45			
Fluorobenzene	901130	7.864	1035469	7.865	87	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	459640	10.996	489676	10.997	94	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	278743	13.4	320263	13.401	87	50 - 200	-0.0010	+/-0.50	
GW0181 (1108152-09)			Lab File ID: 0815209.D			Analyzed: 08/14/11 14:10			
Fluorobenzene	910046	7.866	1035469	7.865	88	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	460901	10.999	489676	10.997	94	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	275371	13.402	320263	13.401	86	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22908	Instrument:	MS-VOA6
		Calibration:	1197002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H22908-CCV1)			Lab File ID: 814CCV1.D			Analyzed: 08/14/11 18:50			
Fluorobenzene	694445	7.982	704952	7.974	99	50 - 200	0.0080	+/-0.50	
Chlorobenzene-d5	281186	11.083	316180	11.085	89	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	274205	13.475	316197	13.477	87	50 - 200	-0.0020	+/-0.50	
LCS (1H14001-BS1)			Lab File ID: 814LCS1.D			Analyzed: 08/14/11 19:17			
Fluorobenzene	638417	7.973	694445	7.982	92	50 - 200	-0.0090	+/-0.50	
Chlorobenzene-d5	290441	11.084	281186	11.083	103	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	278553	13.477	274205	13.475	102	50 - 200	0.0020	+/-0.50	
Blank (1H14001-BLK1)			Lab File ID: 814BLK1.D			Analyzed: 08/14/11 20:35			
Fluorobenzene	652580	7.975	694445	7.982	94	50 - 200	-0.0070	+/-0.50	
Chlorobenzene-d5	315054	11.087	281186	11.083	112	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	295201	13.469	274205	13.475	108	50 - 200	-0.0060	+/-0.50	
GW8091-TB (1108138-03)			Lab File ID: 0813803.D			Analyzed: 08/14/11 21:02			
Fluorobenzene	653201	7.981	694445	7.982	94	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	312825	11.083	281186	11.083	111	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	286194	13.475	274205	13.475	104	50 - 200	0.0000	+/-0.50	
GW0160 (1108138-01)			Lab File ID: 0813801.D			Analyzed: 08/14/11 22:22			
Fluorobenzene	632767	7.971	694445	7.982	91	50 - 200	-0.0110	+/-0.50	
Chlorobenzene-d5	303215	11.082	281186	11.083	108	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	281808	13.475	274205	13.475	103	50 - 200	0.0000	+/-0.50	
GW0191 (1108138-02)			Lab File ID: 0813802.D			Analyzed: 08/14/11 22:49			
Fluorobenzene	617525	7.972	694445	7.982	89	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	299931	11.084	281186	11.083	107	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	281218	13.466	274205	13.475	103	50 - 200	-0.0090	+/-0.50	
Matrix Spike (1H14001-MS1)			Lab File ID: 0813801M.D			Analyzed: 08/15/11 04:09			
Fluorobenzene	636317	7.975	694445	7.982	92	50 - 200	-0.0070	+/-0.50	
Chlorobenzene-d5	292860	11.086	281186	11.083	104	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	266199	13.469	274205	13.475	97	50 - 200	-0.0060	+/-0.50	
Matrix Spike Dup (1H14001-MSD1)			Lab File ID: 0813801S.D			Analyzed: 08/15/11 04:35			
Fluorobenzene	612744	7.976	694445	7.982	88	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	277892	11.087	281186	11.083	99	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	263744	13.469	274205	13.475	96	50 - 200	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23006	Instrument:	MS-VOA6
		Calibration:	1197002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H23006-CCV1)			Lab File ID: 0813CCV2.D			Analyzed: 08/13/11 18:31			
Fluorobenzene	733323	7.981	704952	7.974	104	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	301830	11.082	316180	11.085	95	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	293147	13.474	316197	13.477	93	50 - 200	-0.0030	+/-0.50	
LCS (1H13002-BS1)			Lab File ID: 0813LCS2.D			Analyzed: 08/13/11 18:58			
Fluorobenzene	685228	7.984	733323	7.981	93	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	306393	11.085	301830	11.082	102	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	295214	13.477	293147	13.474	101	50 - 200	0.0030	+/-0.50	
Blank (1H13002-BLK1)			Lab File ID: 0813BLK2.D			Analyzed: 08/13/11 20:16			
Fluorobenzene	707351	7.983	733323	7.981	96	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	330874	11.084	301830	11.082	110	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	313501	13.477	293147	13.474	107	50 - 200	0.0030	+/-0.50	
GW8089-TB (1108110-09)			Lab File ID: 0811009.D			Analyzed: 08/13/11 20:43			
Fluorobenzene	682800	7.98	733323	7.981	93	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	324907	11.082	301830	11.082	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	305168	13.474	293147	13.474	104	50 - 200	0.0000	+/-0.50	
Calibration Check (1H23006-CCV2)			Lab File ID: 813CCV2X.D			Analyzed: 08/14/11 06:51			
Fluorobenzene	733681	7.981	733323	7.981	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	287989	11.082	301830	11.082	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	287408	13.475	293147	13.474	98	50 - 200	0.0010	+/-0.50	
LCS (1H13002-BS2)			Lab File ID: 813LCS2X.D			Analyzed: 08/14/11 07:18			
Fluorobenzene	665955	7.973	733323	7.981	91	50 - 200	-0.0080	+/-0.50	
Chlorobenzene-d5	303816	11.084	301830	11.082	101	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	285311	13.477	293147	13.474	97	50 - 200	0.0030	+/-0.50	
Blank (1H13002-BLK2)			Lab File ID: 813BLK2X.D			Analyzed: 08/14/11 08:36			
Fluorobenzene	705834	7.98	733323	7.981	96	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	332814	11.082	301830	11.082	110	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	302128	13.474	293147	13.474	103	50 - 200	0.0000	+/-0.50	
GW8090-TB (1108126-05)			Lab File ID: 0812605X.D			Analyzed: 08/14/11 09:30			
Fluorobenzene	669681	7.975	733323	7.981	91	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	317339	11.086	301830	11.082	105	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	297731	13.469	293147	13.474	102	50 - 200	-0.0050	+/-0.50	
GW0162 (1108126-01)			Lab File ID: 0812601X.D			Analyzed: 08/14/11 13:57			
Fluorobenzene	669924	7.976	733323	7.981	91	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	317391	11.087	301830	11.082	105	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	295203	13.47	293147	13.474	101	50 - 200	-0.0040	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23006	Instrument:	MS-VOA6
		Calibration:	1197002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0244 (1108126-03)			Lab File ID: 0812603X.D			Analyzed: 08/14/11 14:24			
Fluorobenzene	650110	7.975	733323	7.981	89	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	315061	11.086	301830	11.082	104	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	293407	13.468	293147	13.474	100	50 - 200	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23204	Instrument:	MS-VOA4
		Calibration:	1229002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H23204-CCV1)			Lab File ID: 0820CCV1.D			Analyzed: 08/20/11 11:23			
Fluorobenzene	1074139	8.022	1127909	8.013	95	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	351404	11.131	395381	11.131	89	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	372917	13.531	464660	13.522	80	50 - 200	0.0090	+/-0.50	
LCS (1H20001-BS1)			Lab File ID: 0820LS1.D			Analyzed: 08/20/11 12:01			
Fluorobenzene	1050468	8.013	1074139	8.022	98	50 - 200	-0.0090	+/-0.50	
Chlorobenzene-d5	349322	11.132	351404	11.131	99	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	355965	13.532	372917	13.531	95	50 - 200	0.0010	+/-0.50	
Blank (1H20001-BLK1)			Lab File ID: 0820BLK1.D			Analyzed: 08/20/11 13:23			
Fluorobenzene	972199	8.017	1074139	8.022	91	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	325800	11.136	351404	11.131	93	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	324739	13.526	372917	13.531	87	50 - 200	-0.0050	+/-0.50	
GW8093-TB (1108166-03)			Lab File ID: 0816603.D			Analyzed: 08/20/11 13:51			
Fluorobenzene	1026999	8.019	1074139	8.022	96	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	329087	11.138	351404	11.131	94	50 - 200	0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	325113	13.528	372917	13.531	87	50 - 200	-0.0030	+/-0.50	
GW0179 (1108166-01)			Lab File ID: 0816601.D			Analyzed: 08/20/11 15:16			
Fluorobenzene	980018	8.012	1074139	8.022	91	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	333750	11.131	351404	11.131	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	328072	13.531	372917	13.531	88	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1195002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	7/8/11_12:44 7/9/11_10:59

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	2.505		5.01	8.840981E-03	10.02	8.200834E-03	25.05	7.42534E-03	50.1	7.603153E-03	250.5	1.000354E-02
Acrylonitrile	2.499	7.150111E-02	4.998	7.788372E-02	9.996	8.238535E-02	24.99	8.238379E-02	49.98	0.0773302	249.9	8.789221E-02
Benzene	0.5	0.8707567	1	0.9313245	2	0.9437865	5	0.8876119	10	0.8680691	50	0.9334947
Bromobenzene	0.5	0.6733647	1	0.7286428	2	0.6789877	5	0.6618996	10	0.5772779	50	0.6952174
Bromochloromethane	0.5	0.1031222	1	0.1284535	2	0.128913	5	0.119234	10	0.1137493	50	0.1293463
Tert-Amyl Methyl Ether	0.5	0.6964495	1	0.7141678	2	0.6728372	5	0.6812295	10	0.628525	50	0.7222252
Bromodichloromethane	0.5	0.3169765	1	0.3064713	2	0.326889	5	0.3009543	10	0.2966268	50	0.3367003
Bromoform	0.5	0.3281077	1	0.315967	2	0.346569	5	0.3221773	10	0.2899241	50	0.3786377
Bromomethane	0.5	~~0.2421365~~	1	0.1351805	2	0.1536125	5	0.1584003	10	0.1453741	50	0.1723319
Bromofluorobenzene												
n-Butylbenzene	0.5	1.286447	1	1.247413	2	1.302042	5	1.2415	10	1.241076	50	1.531098
2-Butanone												
sec-Butylbenzene	0.5	1.864979	1	1.902947	2	2.032298	5	1.984023	10	1.828435	50	2.149032
tert-Butylbenzene	0.5	1.490688	1	1.469719	2	1.521154	5	1.447466	10	1.34942	50	1.5915
Carbon disulfide	0.5	0.7723082	1	0.7636156	2	0.7705944	5	0.7576697	10	0.7337507	50	0.8214825
Carbon tetrachloride	0.5	0.1982152	1	0.187191	2	0.2192435	5	0.2069159	10	0.1955589	50	0.2287372
Chlorobenzene	0.5	1.280921	1	1.269689	2	1.297962	5	1.160848	10	1.043141	50	1.236678
Chloroethane	0.5	0.1110916	1	0.1390245	2	0.1342721	5	0.137287	10	0.1330583	50	0.1488253
Chloroform	0.5	0.498474	1	0.473656	2	0.4403859	5	0.4247815	10	0.4127924	50	0.4432372
2-Chloroethyl vinyl ether	0.9975	0.133656	1.995	0.132162	3.99	0.1288624	9.975	0.1241207	19.95	0.1139331	99.75	0.1338254
Chloromethane	0.5	0.2759314	1	0.2724869	2	0.2641134	5	0.255426	10	0.2595009	50	0.2995387
1-Chlorohexane	0.4992	0.8286503	0.9985	0.6384478	1.997	0.6367481	4.992	0.5776526	9.985	0.5295108	49.92	0.6174596
2-Chlorotoluene	0.5	1.849324	1	1.84481	2	1.867711	5	1.753761	10	1.602672	50	1.878881
4-Chlorotoluene	0.5	2.230813	1	2.169468	2	2.243049	5	2.03225	10	1.798323	50	2.157017
Cyclohexane	0.5	0.2683215	1	0.3364661	2	0.3218113	5	0.3334328	10	0.3252915	50	0.3354395
Dibromochloromethane	0.5	0.4397602	1	0.4673031	2	0.5379553	5	0.4584185	10	0.4415876	50	0.538003
1,2-Dibromo-3-chloropropane	0.5	9.987104E-02	1	0.1189889	2	0.1135387	5	0.1255516	10	0.1030519	50	0.1432347
1,2-Dibromoethane (EDB)	0.5	0.5130535	1	0.5292795	2	0.5691269	5	0.4644823	10	0.4542752	50	0.5477834
Dibromomethane	0.5	0.1873697	1	0.1724265	2	0.1850918	5	0.1680697	10	0.1672211	50	0.179974
1,2-Dichlorobenzene	0.5	1.119995	1	1.087361	2	1.063259	5	0.9912174	10	0.8956493	50	1.0633

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1195002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	7/8/11_12:44 7/9/11_10:59

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	1.114417	1	0.9779154	2	1.143132	5	0.9909206	10	0.7072789	50	1.095313
1,4-Dichlorobenzene	0.5	1.132771	1	1.083508	2	1.145949	5	1.052431	10	0.9291281	50	1.106559
Dichlorodifluoromethane	0.5	0.2206852	1	0.1902778	2	0.1981167	5	0.2071967	10	0.2331217	50	0.251009
1,1-Dichloroethane	0.5	0.4462838	1	0.4510871	2	0.4551268	5	0.4610672	10	0.4288024	50	0.4817182
1,2-Dichloroethane	0.5	0.2909713	1	0.3085098	2	0.3004453	5	0.2987924	10	0.2814846	50	0.3206409
1,1-Dichloroethene	0.5	0.1497399	1	0.1801436	2	0.1760756	5	0.1899298	10	0.1890711	50	0.186916
cis-1,2-Dichloroethene	0.5	0.2022897	1	0.2777287	2	0.2717792	5	0.2621025	10	0.251961	50	0.2739849
trans-1,2-Dichloroethene	0.5	0.1939009	1	0.2182633	2	0.2083988	5	0.2286413	10	0.2232904	50	0.2319348
1,2-Dichloroethene (total)	1	0.1980953	2	0.247996	4	0.240089	10	0.2453719	20	0.2376257	100	0.2529598
1,2-Dichloropropane	0.5	0.2900125	1	0.2754573	2	0.3084206	5	0.2755341	10	0.261082	50	0.2795626
1,3-Dichloropropane	0.5	0.8010211	1	0.8891657	2	0.9094818	5	0.8781637	10	0.7966077	50	0.9052139
2,2-Dichloropropane	0.5	0.2895332	1	0.299657	2	0.2927513	5	0.2873037	10	0.2719891	50	0.3090134
1,1-Dichloropropene	0.5	0.2995398	1	0.2974146	2	0.3051855	5	0.2987026	10	0.3002288	50	0.312615
cis-1,3-Dichloropropene	0.5	0.3783345	1	0.4122394	2	0.4029287	5	0.3982552	10	0.3736842	50	0.4218841
trans-1,3-Dichloropropene	0.5	0.8081449	1	0.748611	2	0.7621005	5	0.7125922	10	0.6801595	50	0.786804
1,3-Dichloropropene (total)	1	0.3659012	2	0.3709165	4	0.3601687	10	0.3528784	20	0.3380383	100	0.3771139
Diisopropyl Ether	0.5	0.9072479	1	0.9326349	2	0.9641819	5	0.9311581	10	0.8463737	50	0.9397187
Ethylbenzene	0.5	2.118658	1	2.132728	2	2.238075	5	2.067912	10	1.849856	50	2.165781
Ethyl tert-Butyl Ether	0.5	0.7120886	1	0.8181013	2	0.7580899	5	0.7684678	10	0.7192564	50	0.7924138
Ethyl Methacrylate	0.5	0.7766356	1	0.7267175	2	0.7641269	5	0.7102239	10	0.6553457	50	0.757363
Hexachlorobutadiene	0.5	0.2539064	1	0.2313235	2	0.255154	5	0.2327235	10	0.2317099	50	0.2612478
2-Hexanone												
Iodomethane	0.5	0.1092341	1	0.1628165	2	0.1320778	5	0.2106894	10	0.2244673	50	0.3148957
Isopropylbenzene	0.5	1.442715	1	1.514485	2	1.541188	5	1.48607	10	1.361094	50	1.552677
p-Isopropyltoluene	0.5	1.321897	1	1.314219	2	1.380023	5	1.317725	10	1.228803	50	1.460318
Methylene chloride	0.5	0.3417235	1	0.2963954	2	0.3046229	5	0.2905998	10	0.2627225	50	0.293365
Methyl Acetate	0.5	0.3438806	1	0.274438	2	0.2128998	5	0.208331	10	0.171367	50	0.1920461
Methylcyclohexane	0.5	0.2192471	1	0.2576642	2	0.2678127	5	0.2476882	10	0.2495418	50	0.2611589
Naphthalene	0.5	0.8515131	1	0.8642674	2	0.7977633	5	0.7604488	10	0.7460946	50	1.043591
Methyl Methacrylate	0.5	0.2199062	1	0.1845118	2	0.1836711	5	0.1719891	10	0.1708855	50	0.1754121
4-Methyl-2-pentanone												

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1195002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	7/8/11_12:44 7/9/11_10:59

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	0.6159171	1	0.6592453	2	0.6238038	5	0.6320231	10	0.5953607	50	0.6550022
n-Propylbenzene	0.5	2.818523	1	2.834282	2	3.01234	5	2.719267	10	2.490669	50	2.927198
Styrene	0.5	1.329555	1	1.286952	2	1.354665	5	1.214642	10	1.173708	50	1.333602
1,1,2,2-Tetrachloroethane	0.5	0.807066	1	0.8512216	2	0.8089851	5	0.7883065	10	0.6692762	50	0.8467874
1,1,1,2-Tetrachloroethane	0.5	0.448391	1	0.3924288	2	0.4048258	5	0.3971164	10	0.3500868	50	0.437792
tert-Butyl alcohol	2.5	1.825162E-02	5	2.125846E-02	10	1.979057E-02	25	1.850783E-02	50	1.741458E-02	250	2.124587E-02
Tetrachloroethene	0.5	0.4429111	1	0.4803334	2	0.4487633	5	0.4407735	10	0.4031704	50	0.4656221
Toluene	0.5	1.282291	1	1.215517	2	1.197119	5	1.124335	10	1.046931	50	1.160068
1,2,3-Trichlorobenzene	0.5	0.5204091	1	0.449251	2	0.43752	5	0.4239572	10	0.3815208	50	0.5107546
1,2,4-Trichlorobenzene	0.5	0.4775815	1	0.5222728	2	0.4970178	5	0.4505581	10	0.4317346	50	0.5542021
1,1,2-Trichloroethane	0.5	0.4412671	1	0.4968692	2	0.5054328	5	0.4637926	10	0.4047346	50	0.4690218
1,1,1-Trichloroethane	0.5	0.2605918	1	0.2891151	2	0.2938063	5	0.2859953	10	0.2749611	50	0.3132376
Tetrahydrofuran	0.5	0.1446467	1	0.1074863	2	6.301475E-02	5	5.685429E-02	10	5.812884E-02	50	6.366639E-02
Trichloroethene	0.5	0.2162511	1	0.2295914	2	0.2510885	5	0.2432746	10	0.2326045	50	0.2543574
Trichlorofluoromethane	0.5	0.2772496	1	0.3039669	2	0.3073376	5	0.2818288	10	0.2915804	50	0.316852
1,2,3-Trichloropropane	0.5	0.1427508	1	0.1590087	2	0.1460304	5	0.1504118	10	0.1228322	50	0.1476223
1,3,5-Trimethylbenzene	0.5	1.562847	1	1.582491	2	1.672011	5	1.657847	10	1.464781	50	1.762548
1,2,4-Trimethylbenzene	0.5	1.441742	1	1.590196	2	1.642482	5	1.504543	10	1.416979	50	1.79388
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2001326	1	0.1682331	2	0.1778057	5	0.1909911	10	0.1875762	50	0.2077378
Vinyl chloride	0.5	0.1492007	1	0.1588852	2	0.1448214	5	0.1280218	10	0.1704665	50	0.1583682
m,p-Xylene	1	1.553477	2	1.565383	4	1.599614	10	1.480507	20	1.391881	100	1.546339
o-Xylene	0.5	1.838636	1	1.62845	2	1.702619	5	1.601673	10	1.424285	50	1.652677
Vinyl acetate	1.001	0.5080326	2.002	0.5685467	4.004	0.5462333	10.01	0.5333411	20.02	0.5091265	100.1	0.5631753
Xylenes (total)	1.5	1.64853	3	1.586405	6	1.633949	15	1.520896	30	1.402682	150	1.581785
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol	2.5	1.463245E-02	5	1.683204E-02	10	1.525857E-02	25	1.559239E-02	50	1.351832E-02	250	1.629399E-02
tert-Amyl ethyl ether	0.5	0.6456374	1	0.6494315	2	0.6784213	5	0.617446	10	0.5693292	50	0.6463016

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1195002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	7/8/11 12:44 7/9/11 10:59

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	~~0.1172858~~	2	8.503735E-02	4	7.625387E-02
Acrolein	501	1.197826E-02	751.5	1.911982E-02	1002	~~2.455457E-02~~						
Acrylonitrile	499.8	7.867993E-02	749.6	8.103124E-02	999.5	8.126851E-02						
Benzene	100	0.8378923	150	0.8178468	200	0.8005588						
Bromobenzene	100	0.624164	150	0.6731879	200	0.6889423						
Bromochloromethane	100	0.1154101	150	0.1144305	200	0.1125361						
Tert-Amyl Methyl Ether	100	0.6395892	150	0.641452	200	0.6348347						
Bromodichloromethane	100	0.2957343	150	0.313531	200	0.3184377						
Bromoform	100	0.3828306	150	0.411153	200	0.4161715						
Bromomethane	100	0.1600101	150	0.1790548	200	0.1835111						
Bromofluorobenzene							30	0.8750805	35	0.8354136	40	0.7966242
n-Butylbenzene	100	1.377523	150	1.499818	200	1.51797						
2-Butanone							1	0.1173719	2	0.1089718	4	0.1116702
sec-Butylbenzene	100	1.987871	150	2.05175	200	2.076613						
tert-Butylbenzene	100	1.430838	150	1.507671	200	1.528926						
Carbon disulfide	100	0.7535911	150	0.7805104	200	0.7936714						
Carbon tetrachloride	100	0.2261071	150	0.2390607	200	0.2484999						
Chlorobenzene	100	1.151217	150	1.173293	200	1.103935						
Chloroethane	100	0.1316701	150	0.1417704	200	0.145205						
Chloroform	100	0.3997148	150	0.4043188	200	0.4073035						
2-Chloroethyl vinyl ether	199.5	0.1182899	299.2	0.1160933	399	0.1145663						
Chloromethane	100	0.2487577	150	0.2643591	200	0.2685028						
1-Chlorohexane	99.85	0.5805389	149.8	0.6134417	199.7	0.6073157						
2-Chlorotoluene	100	1.698735	150	1.823794	200	1.871351						
4-Chlorotoluene	100	1.902267	150	2.010804	200	2.022286						
Cyclohexane	100	0.3226523	150	0.3212846	200	0.3199046						
Dibromochloromethane	100	0.5120282	150	0.5614266	200	0.5605254						
1,2-Dibromo-3-chloropropane	100	0.1270671	150	0.1513977	200	~~0.1575544~~						
1,2-Dibromoethane (EDB)	100	0.5136031	150	0.5601949	200	0.542289						
Dibromomethane	100	0.1608208	150	0.16304	200	0.1643362						
1,2-Dichlorobenzene	100	0.9414438	150	0.9947768	200	1.008211						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1195002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	7/8/11 12:44 7/9/11 10:59

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	0.9617997	150	1.017869	200	1.030231						
1,4-Dichlorobenzene	100	0.9996586	150	1.030489	200	1.017496						
Dichlorodifluoromethane	100	0.2412895	150	0.2596104	200	0.2761368						
1,1-Dichloroethane	100	0.4375359	150	0.4478218	200	0.4532618						
1,2-Dichloroethane	100	0.2981646	150	0.3076701	200	0.3202254						
1,1-Dichloroethene	100	0.1993827	150	0.2042858	200	0.2078149						
cis-1,2-Dichloroethene	100	0.2485474	150	0.2597591	200	0.2502328						
trans-1,2-Dichloroethene	100	0.2136054	150	0.2193939	200	0.2083642						
1,2-Dichloroethene (total)	200	0.2310764	300	0.2395765	400	0.2292985						
1,2-Dichloropropane	100	0.2478803	150	0.2504706	200	0.246668						
1,3-Dichloropropane	100	0.8663264	150	0.9124586	200	0.8957928						
2,2-Dichloropropane	100	0.2904924	150	0.2982488	200	0.3017114						
1,1-Dichloropropene	100	0.2966899	150	0.30187	200	0.3046333						
cis-1,3-Dichloropropene	100	0.3784549	150	0.3803266	200	0.3770805						
trans-1,3-Dichloropropene	100	0.742727	150	0.7746345	200	0.7604337						
1,3-Dichloropropene (total)	200	0.3377199	300	0.3373388	400	0.3340697						
Diisopropyl Ether	100	0.8472482	150	0.8526667	200	0.8496228						
Ethylbenzene	100	1.969219	150	2.03034	200	2.00668						
Ethyl tert-Butyl Ether	100	0.7051983	150	0.7108688	200	0.693643						
Ethyl Methacrylate	100	0.7147026	150	0.7722096	200	0.7567342						
Hexachlorobutadiene	100	0.2698187	150	0.2934399	200	0.3178531						
2-Hexanone							1	0.2807282	2	0.3549957	4	0.3363691
Iodomethane	100	0.3053486	150	0.321503	200	0.3337382						
Isopropylbenzene	100	1.494485	150	1.536716	200	1.472325						
p-Isopropyltoluene	100	1.306864	150	1.432226	200	1.433935						
Methylene chloride	100	0.2625065	150	0.2725791	200	0.2742187						
Methyl Acetate	100	0.1718019	150	0.1747047	200	0.1790843						
Methylcyclohexane	100	0.2517145	150	0.2505812	200	0.2504538						
Naphthalene	100	0.939523	150	1.057975	200	~~1.182719~~						
Methyl Methacrylate	100	0.1710441	150	0.1735332	200	0.1740506						
4-Methyl-2-pentanone							1	0.2007911	2	0.2071994	4	0.2258285

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1195002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	7/8/11 12:44 7/9/11 10:59

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	0.5805962	150	0.6012162	200	0.6057141						
n-Propylbenzene	100	2.656821	150	2.788637	200	2.779788						
Styrene	100	1.218684	150	1.244459	200	1.210804						
1,1,2,2-Tetrachloroethane	100	0.7504516	150	0.818098	200	0.8284165						
1,1,1,2-Tetrachloroethane	100	0.4130141	150	0.433779	200	0.4380088						
tert-Butyl alcohol	500	1.904776E-02	750	2.081982E-02	1000	2.107105E-02						
Tetrachloroethene	100	0.4364929	150	0.4763091	200	0.4738653						
Toluene	100	1.10122	150	1.086957	200	1.037983						
1,2,3-Trichlorobenzene	100	0.4515808	150	0.5102543	200	0.5506911						
1,2,4-Trichlorobenzene	100	0.5150995	150	0.556713	200	0.605635						
1,1,2-Trichloroethane	100	0.4462041	150	0.4745836	200	0.4479547						
1,1,1-Trichloroethane	100	0.2967527	150	0.3105653	200	0.3206027						
Tetrahydrofuran	100	5.863714E-02	150	6.214588E-02	200	6.161675E-02						
Trichloroethene	100	0.2100787	150	0.2328252	200	0.2294249						
Trichlorofluoromethane	100	0.3171044	150	0.3304523	200	0.3462388						
1,2,3-Trichloropropane	100	0.1468797	150	0.1599558	200	0.1596774						
1,3,5-Trimethylbenzene	100	1.632285	150	1.733601	200	1.716958						
1,2,4-Trimethylbenzene	100	1.577437	150	1.627017	200	1.681261						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.1992113	150	0.2087945	200	0.2125142						
Vinyl chloride	100	0.1357284	150	0.1419365	200	0.1217384						
m,p-Xylene	200	1.427035	300	1.393934	400	1.303119						
o-Xylene	100	1.533991	150	1.574354	200	1.525638						
Vinyl acetate	200.2	0.4990839	300.4	0.5130812	400.5	0.5001164						
Xylenes (total)	300	1.462687	450	1.454074	600	1.377293						
Dibromofluoromethane							30	0.2844454	35	0.2811234	40	0.2847062
1,2-Dichloroethane-d4							30	6.429597E-02	35	6.272718E-02	40	6.345977E-02
Toluene-d8							30	2.065123	35	1.992798	40	1.935823
tert-Amyl alcohol	500	1.498265E-02	750	1.578921E-02	1000	1.647572E-02						
tert-Amyl ethyl ether	100	0.5747128	150	0.5592448	200	0.5575941						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	kirtland_023	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1195002		Instrument:	MS-VOA5	
Matrix:	Water		Calibration Dates:	7/8/11 12:44	7/9/11 10:59

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	6.701059E-02	20	6.223381E-02	100	6.354064E-02	200	5.929079E-02	300	6.138139E-02	400	0.0620495
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene	50	0.7560791	60	0.7266658	70	0.7221426	30	0.8866181	30	0.8647721	30	0.8498209
n-Butylbenzene												
2-Butanone	10	9.726839E-02	20	0.100301	100	0.1046792	200	9.763681E-02	300	9.911579E-02	400	0.1017875
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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1195002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	7/8/11 12:44 7/9/11 10:59

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	0.3315487	20	0.3162506	100	0.3324331	200	0.3020594	300	0.2989507	400	0.2971831
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.1959627	20	0.2050261	100	0.2013942	200	0.1924084	300	0.1864061	400	0.1839922

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1195002	Instrument:	MS-VOA5	
Matrix:	Water	Calibration Dates:	7/8/11 12:44	7/9/11 10:59

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	0.2682122	60	0.2552217	70	0.257419	30	0.2912789	30	0.2909563	30	0.2862133
1,2-Dichloroethane-d4	50	5.886707E-02	60	5.500159E-02	70	5.665517E-02	30	6.719211E-02	30	6.642608E-02	30	0.0659803
Toluene-d8	50	1.836442	60	1.719012	70	1.767865	30	2.059985	30	2.04143	30	2.000312
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1195002	Instrument:	MS-VOA5
Matrix:	Water	Calibration Dates:	7/8/11 12:44 7/9/11 10:59

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_023	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1195002	Instrument:	MS-VOA5	
Matrix:	Water	Calibration Dates:	7/8/11 12:44	7/9/11 10:59

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_023	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1195002	Instrument:	MS-VOA5	
Matrix:	Water	Calibration Dates:	7/8/11 12:44	7/9/11 10:59

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-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1195002	Instrument:	MS-VOA5	
Matrix:	Water	Calibration Dates:	7/8/11 12:44	7/9/11 10:59

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_023	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1195002		Instrument:	MS-VOA5	
Matrix:	Water		Calibration Dates:	7/8/11 12:44	7/9/11 10:59

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_023	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1195002	Instrument:	MS-VOA5	
Matrix:	Water	Calibration Dates:	7/8/11 12:44	7/9/11 10:59

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-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	kirtland_023	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1195002		Instrument:	MS-VOA5	
Matrix:	Water		Calibration Dates:	7/8/11 12:44	7/9/11 10:59

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	6.709974E-02	13.34282	3.736	0.1955042			15	
Acrolein	1.045313E-02	39.55985	3.627143	0.0956149		0.9998198	0.99	
Acrylonitrile	8.003956E-02	5.620452	4.574778	7.434789E-02			15	
Benzene	0.8768157	5.940696	7.651333	4.772692E-02			15	
Bromobenzene	0.6668538	6.538842	12.411	2.443244E-02			15	
Bromochloromethane	0.118355	7.593763	6.735333	5.021531E-02			15	
Tert-Amyl Methyl Ether	0.6701456	5.330473	7.838667	4.683371E-02			15	
Bromodichloromethane	0.3124801	4.457	8.636445	4.056261E-02			15	
Bromoform	0.3546153	12.5548	11.81467	2.853211E-02			SPCC (0.1)	
Bromomethane	0.1609344	10.32895	2.811375	0.1404919			15	
Bromofluorobenzene	0.8125796	7.907258	12.244	2.470238E-02			15	
n-Butylbenzene	1.360543	9.14008	13.84167	2.106158E-02			15	
2-Butanone	0.1043114	6.695133	6.183778	9.313511E-02			15	
sec-Butylbenzene	1.986439	5.268825	13.30111	2.733726E-02			15	
tert-Butylbenzene	1.481931	4.650572	13.06789	2.163914E-02			15	
Carbon disulfide	0.7719104	3.261371	4.758556	7.830417E-02			15	
Carbon tetrachloride	0.2166144	9.664606	7.619556	3.898694E-02			15	
Chlorobenzene	1.190854	7.275505	11.08789	2.764417E-02			SPCC (0.3)	
Chloroethane	0.1358005	7.998141	2.941667	0.1118896			15	
Chloroform	0.4338516	7.799101	6.711333	5.341869E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1239455	6.7832	8.996333	0.0459138			15	
Chloromethane	0.2676241	5.456049	2.227111	0.1856028			SPCC (0.1)	
1-Chlorohexane	0.6255295	13.33093	11.05422	3.063835E-02			15	
2-Chlorotoluene	1.799004	5.281687	12.63344	2.340001E-02			15	
4-Chlorotoluene	2.06292	7.310936	12.69589	1.535123E-02			15	
Cyclohexane	0.3205116	6.430394	7.550555	6.742235E-02			15	
Dibromochloromethane	0.5018898	10.03008	10.31522	3.517655E-02			15	
1,2-Dibromo-3-chloropropane	0.1228377	14.68315	14.44413	2.795658E-02			15	
1,2-Dibromoethane (EDB)	0.5215653	7.685072	10.53211	3.533688E-02			15	
Dibromomethane	0.1720389	5.71612	8.575111	3.609028E-02			15	
1,2-Dichlorobenzene	1.018357	7.072279	13.80111	2.233515E-02			15	
1,3-Dichlorobenzene	1.00432	12.76295	13.39278	2.328841E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	1195002	Instrument:	MS-VOA5		
Matrix:	Water	Calibration Dates:	7/8/11 12:44	7/9/11 10:59	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.055332	6.591444	13.48278	3.028835E-02			15	
Dichlorodifluoromethane	0.2308271	12.611	2.012556	0.1625828			15	
1,1-Dichloroethane	0.4514117	3.296904	5.747111	6.407113E-02			SPCC (0.1)	
1,2-Dichloroethane	0.3029894	4.231927	7.475	5.138057E-02			15	
1,1-Dichloroethene	0.1870399	9.361877	4.222444	0.1127051			CCC (20)	
cis-1,2-Dichloroethene	0.2553761	8.84565	6.457444	4.613752E-02			15	
trans-1,2-Dichloroethene	0.2161992	5.407287	5.370333	8.492348E-02			15	
1,2-Dichloroethene (total)	0.2357877	6.800724	0	0			15	
1,2-Dichloropropane	0.2705653	7.752959	8.458889	3.978435E-02			CCC (20)	
1,3-Dichloropropane	0.8726924	5.091353	10.05589	2.621268E-02			15	
2,2-Dichloropropane	0.2934111	3.604744	6.565555	4.353056E-02			15	
1,1-Dichloropropene	0.3018755	1.651831	7.497111	0.0534582			15	
cis-1,3-Dichloropropene	0.3914653	4.536714	9.213222	4.143787E-02			15	
trans-1,3-Dichloropropene	0.7529119	5.112406	9.688222	2.932294E-02			15	
1,3-Dichloropropene (total)	0.3526828	4.68099	9.688222	2.932294E-02			15	
Diisopropyl Ether	0.8967614	5.308244	6.113667	5.430875E-02			15	
Ethylbenzene	2.064361	5.619125	11.23678	3.074775E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.7420142	5.906455	6.581111	6.166321E-02			15	
Ethyl Methacrylate	0.7371177	5.32767	9.877667	3.571334E-02			15	
Hexachlorobutadiene	0.2607974	11.32991	15.80633	2.408987E-02			15	
2-Hexanone	0.3167243	7.509776	9.987222	2.834665E-02			15	
Iodomethane	0.2349745	37.12748	4.418444	6.219122E-02	0.9987052		0.995	
Isopropylbenzene	1.489084	4.009919	12.13756	2.816829E-02			15	
p-Isopropyltoluene	1.355112	5.614198	13.439	0.0285098			15	
Methylene chloride	0.2887482	8.640837	4.702778	0.1149504			15	
Methyl Acetate	0.2142837	27.31013	4.557444	8.805908E-02	0.9992062		0.995	
Methylcyclohexane	0.2506514	5.373974	8.792889	3.231732E-02			15	
Naphthalene	0.882647	13.67409	15.67663	1.993253E-02			15	
Methyl Methacrylate	0.180556	8.645294	7.550555	3.917582E-02			15	
4-Methyl-2-pentanone	0.1998899	6.282494	9.131333	2.958277E-02			15	
Methyl t-Butyl Ether	0.6187643	4.292619	5.361667	8.703396E-02			15	
n-Propylbenzene	2.780836	5.434693	12.54678	2.736379E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	1195002	Instrument:	MS-VOA5		
Matrix:	Water	Calibration Dates:	7/8/11 12:44	7/9/11 10:59	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Styrene	1.263008	5.141423	11.712	2.808815E-02			15	
1,1,2,2-Tetrachloroethane	0.7965121	7.108886	12.06089	2.360733E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.412827	7.478103	11.12867	3.229766E-02			15	
tert-Butyl alcohol	1.971195E-02	7.422725	4.350445	9.124216E-02			15	
Tetrachloroethene	0.4520268	5.475765	10.43011	3.896102E-02			15	
Toluene	1.139158	7.161309	9.693444	4.454413E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.4706599	11.66222	15.96267	1.917954E-02			15	
1,2,4-Trichlorobenzene	0.5123127	10.7553	15.52511	1.337564E-02			15	
1,1,2-Trichloroethane	0.4610956	6.623445	9.843444	3.742916E-02			15	
1,1,1-Trichloroethane	0.2939587	6.506224	7.277	5.468592E-02			15	
Tetrahydrofuran	0.075133	40.49075	6.921333	8.733072E-02	0.9993629		0.995	
Trichloroethene	0.2332774	6.28322	8.413111	4.856123E-02			15	
Trichlorofluoromethane	0.3080679	7.298476	3.439	0.1138289			15	
1,2,3-Trichloropropane	0.1483521	7.800931	12.18589	2.359965E-02			15	
1,3,5-Trimethylbenzene	1.642819	5.73426	12.72744	1.923974E-02			15	
1,2,4-Trimethylbenzene	1.586171	7.501615	13.09867	2.787875E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1947774	7.671561	4.299	0.110302			15	
Vinyl chloride	0.145463	10.76185	2.370556	0.2128268			CCC (20)	
m,p-Xylene	1.473477	6.798492	11.35167	0.0347757			15	
o-Xylene	1.609147	7.344266	11.74233	0.0199023			15	
Vinyl acetate	0.5267486	5.120218	5.814667	6.386843E-02			15	
Xylenes (total)	1.5187	6.563013	0	0			15	
Dibromofluoromethane	0.2777307	5.004568	6.882111	6.284357E-02			15	
1,2-Dichloroethane-d4	6.228947E-02	7.110355	7.38	5.345886E-02			15	
Toluene-d8	1.935421	6.731394	9.613889	3.067411E-02			15	
tert-Amyl alcohol	1.548615E-02	6.637646	7.077778	3.929689E-02			15	
tert-Amyl ethyl ether	0.6109021	7.566686	8.729222	4.229505E-02			15	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1197002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	7/15/11 7:34 7/15/11 16:30

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	2.505		5.01	3.516299E-02	10.02	3.315021E-02	25.05	3.111651E-02	50.1	2.395619E-02	250.5	2.745265E-02
Acrylonitrile	2.499	4.485666E-02	4.998	6.503729E-02	9.996	0.0625373	24.99	6.171737E-02	49.98	4.586526E-02	249.9	5.733643E-02
Benzene	0.5	0.7683106	1	0.9987422	2	0.9974636	5	1.025251	10	0.761768	50	0.9181442
Bromobenzene	0.5	0.519666	1	0.677829	2	0.7071289	5	0.6990209	10	0.5322124	50	0.6723208
Bromochloromethane	0.5	0.1109034	1	0.1414823	2	0.1490181	5	0.1540066	10	0.1166911	50	0.1395279
Tert-Amyl Methyl Ether	0.5	0.6170864	1	0.8172161	2	0.8427215	5	0.8141377	10	0.6162281	50	0.7622576
Bromodichloromethane	0.5	0.2645143	1	0.3559498	2	0.3735889	5	0.3964907	10	0.3065721	50	0.4006022
Bromoform	0.5	0.3017993	1	0.3261066	2	0.3727241	5	0.3968558	10	0.3252551	50	0.5093746
Bromomethane	0.5	0.1052772	1	0.1176477	2	0.1341701	5	0.1337246	10	0.1195898	50	0.15519
Bromofluorobenzene												
n-Butylbenzene	0.5	1.267571	1	1.610473	2	1.744405	5	1.733934	10	1.332017	50	1.706929
2-Butanone												
sec-Butylbenzene	0.5	1.52232	1	1.937164	2	2.063283	5	2.117038	10	1.588257	50	2.040503
tert-Butylbenzene	0.5	1.354545	1	1.651859	2	1.733921	5	1.799536	10	1.381512	50	1.696546
Carbon disulfide	0.5	~~0.3407231~~	1	0.4759941	2	0.4640326	5	0.5067477	10	0.3880703	50	0.4981
Carbon tetrachloride	0.5	0.3004876	1	0.4038368	2	0.3954736	5	0.4271951	10	0.3173527	50	0.4233337
Chlorobenzene	0.5	1.069022	1	1.333761	2	1.381095	5	1.428576	10	1.056455	50	1.33295
Chloroethane	0.5	8.575618E-02	1	0.1263624	2	0.1151044	5	0.1279508	10	9.351055E-02	50	0.1178102
Chloroform	0.5	0.4994488	1	0.5735545	2	0.5587372	5	0.5624692	10	0.4217041	50	0.5108743
2-Chloroethyl vinyl ether	0.9975	8.302279E-02	1.995	0.1062357	3.99	0.1182728	9.975	0.1169855	19.95	9.125136E-02	99.75	0.1165558
Chloromethane	0.5	0.2534325	1	0.2578664	2	0.2312847	5	0.209529	10	0.1748364	50	0.2078432
1-Chlorohexane	0.4992	0.758759	0.9985	0.7870677	1.997	0.7204925	4.992	0.7023603	9.985	0.5071741	49.92	0.6403381
2-Chlorotoluene	0.5	1.391223	1	1.731243	2	1.814518	5	1.825186	10	1.394382	50	1.763758
4-Chlorotoluene	0.5	1.661769	1	2.026895	2	2.076631	5	2.122455	10	1.615076	50	2.070226
Cyclohexane	0.5	0.2845468	1	0.3755577	2	0.3621409	5	0.3783555	10	0.2786667	50	0.3363242
Dibromochloromethane	0.5	0.4166766	1	0.5032854	2	0.5206825	5	0.5878284	10	0.4560851	50	0.6603552
1,2-Dibromo-3-chloropropane	0.5	7.081403E-02	1	9.339262E-02	2	0.1053996	5	0.1203486	10	9.471553E-02	50	0.1401726
1,2-Dibromoethane (EDB)	0.5	0.4026978	1	0.4846018	2	0.5443396	5	0.5210569	10	0.4050521	50	0.5260555
Dibromomethane	0.5	0.1501159	1	0.1917658	2	0.1931318	5	0.2015911	10	0.1523579	50	0.1779598
1,2-Dichlorobenzene	0.5	0.8626601	1	1.113478	2	1.130067	5	1.198253	10	0.8835991	50	1.118052

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Calibration: 1197002

Instrument: MS-VOA6

Matrix: Water

Calibration Dates: 7/15/11 7:34 7/15/11 16:30

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	0.8662916	1	1.106062	2	1.207384	5	1.181337	10	0.9147585	50	1.14393
1,4-Dichlorobenzene	0.5	0.9036959	1	1.198447	2	1.230894	5	1.229874	10	0.9654535	50	1.187079
Dichlorodifluoromethane	0.5	0.2316951	1	0.3165596	2	0.3185437	5	0.3304334	10	0.2601937	50	0.3270458
1,1-Dichloroethane	0.5	0.3453263	1	0.4565604	2	0.478063	5	0.4714727	10	0.3541479	50	0.4447682
1,2-Dichloroethane	0.5	0.3325396	1	0.4579547	2	0.4493783	5	0.4631193	10	0.3489794	50	0.4401853
1,1-Dichloroethene	0.5	0.1209622	1	0.1599138	2	0.1560763	5	0.1617974	10	0.1193701	50	0.1529015
cis-1,2-Dichloroethene	0.5	0.1958923	1	0.269239	2	0.2793793	5	0.2741147	10	0.2181138	50	0.2591849
trans-1,2-Dichloroethene	0.5	0.2022005	1	0.2335961	2	0.2485213	5	0.2556938	10	0.1986028	50	0.2304381
1,2-Dichloroethene (total)	1	0.1990464	2	0.2514176	4	0.2639503	10	0.2649042	20	0.2083583	100	0.2448115
1,2-Dichloropropane	0.5	0.1813155	1	0.2283238	2	0.2412479	5	0.2498507	10	0.1871417	50	0.2197187
1,3-Dichloropropane	0.5	0.7070061	1	0.8912196	2	0.8596041	5	0.9144662	10	0.6743494	50	0.8618805
2,2-Dichloropropane	0.5	0.3550442	1	0.4445777	2	0.4690466	5	0.4860934	10	0.3593422	50	0.4465681
1,1-Dichloropropene	0.5	0.2875304	1	0.3722462	2	0.3943331	5	0.406359	10	0.2988883	50	0.3644921
cis-1,3-Dichloropropene	0.5	0.3231627	1	0.4214839	2	0.4368974	5	0.4499442	10	0.3442891	50	0.4347821
trans-1,3-Dichloropropene	0.5	0.5919496	1	0.7907611	2	0.8212229	5	0.8808719	10	0.647334	50	0.8842922
1,3-Dichloropropene (total)	1	0.302363	2	0.4016145	4	0.4152817	10	0.4351546	20	0.328396	100	0.4188253
Diisopropyl Ether	0.5	0.7931168	1	0.94689	2	1.023179	5	1.025346	10	0.7709506	50	0.9310327
Ethylbenzene	0.5	2.00865	1	2.456856	2	2.540162	5	2.611434	10	1.929422	50	2.480338
Ethyl tert-Butyl Ether	0.5	0.6505024	1	0.8610943	2	0.8714922	5	0.8862198	10	0.6700664	50	0.8184773
Ethyl Methacrylate	0.5	0.570623	1	0.7026681	2	0.7121844	5	0.731076	10	0.5524412	50	0.71859
Hexachlorobutadiene	0.5	0.2776273	1	0.3979258	2	0.3771662	5	0.3972924	10	0.3167215	50	0.3938953
2-Hexanone												
Iodomethane	0.5	0.144916	1	0.2107638	2	0.2513188	5	0.2917824	10	0.2176615	50	0.3285924
Isopropylbenzene	0.5	1.333007	1	1.795256	2	1.854912	5	1.959573	10	1.426988	50	1.841155
p-Isopropyltoluene	0.5	1.36199	1	1.659733	2	1.722328	5	1.789824	10	1.35548	50	1.725002
Methylene chloride	0.5	0.181486	1	0.2110688	2	0.2023849	5	0.1913245	10	0.1451953	50	0.1807224
Methyl Acetate	0.5		1	0.1953824	2	0.1805432	5	0.1654245	10	0.1237676	50	0.1636201
Methylcyclohexane	0.5	0.245931	1	0.327845	2	0.3356081	5	0.3383454	10	0.2579799	50	0.3078417
Naphthalene	0.5	1.097617	1	1.322421	2	1.42077	5	1.422771	10	1.112214	50	1.42546
Methyl Methacrylate	0.5	0.2365541	1	0.3014832	2	0.2888046	5	0.2923365	10	0.222774	50	0.287641
4-Methyl-2-pentanone												

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1197002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	7/15/11 7:34 7/15/11 16:30

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	0.6015719	1	0.8119001	2	0.805042	5	0.8238242	10	0.6437373	50	0.7714644
n-Propylbenzene	0.5	2.139128	1	2.74675	2	2.780019	5	2.724383	10	2.161481	50	2.720706
Styrene	0.5	1.090349	1	1.356055	2	1.412922	5	1.443668	10	1.090117	50	1.36856
1,1,2,2-Tetrachloroethane	0.5	0.4483073	1	0.5960647	2	0.6241301	5	0.6393902	10	0.5067431	50	0.6174854
1,1,1,2-Tetrachloroethane	0.5	0.3793997	1	0.522962	2	0.5434418	5	0.5678387	10	0.4240022	50	0.5812154
tert-Butyl alcohol	2.5	1.266736E-02	5	1.837919E-02	10	2.036114E-02	25	2.096588E-02	50	1.673637E-02	250	2.001506E-02
Tetrachloroethene	0.5	0.4408707	1	0.5948985	2	0.6114506	5	0.6158902	10	0.4529357	50	0.5767592
Toluene	0.5	0.9869411	1	1.242599	2	1.255671	5	1.265266	10	0.936527	50	1.173286
1,2,3-Trichlorobenzene	0.5	0.5133109	1	0.6254559	2	0.6456535	5	0.6725225	10	0.5176826	50	0.6519836
1,2,4-Trichlorobenzene	0.5	0.5182134	1	0.6776459	2	0.7298531	5	0.7360966	10	0.5596597	50	0.7127559
1,1,2-Trichloroethane	0.5	0.2953476	1	0.4290021	2	0.3996133	5	0.426006	10	0.3287257	50	0.4128593
1,1,1-Trichloroethane	0.5	0.3490771	1	0.4400461	2	0.4520897	5	0.4849421	10	0.3655788	50	0.4560793
Tetrahydrofuran	0.5		1	9.202668E-02	2	7.800586E-02	5	0.0783667	10	5.803762E-02	50	6.937001E-02
Trichloroethene	0.5	0.2068889	1	0.2740757	2	0.2883957	5	0.287082	10	0.2157535	50	0.2605125
Trichlorofluoromethane	0.5	0.3048351	1	0.4015274	2	0.437005	5	0.4623661	10	0.3528127	50	0.451817
1,2,3-Trichloropropane	0.5	0.1365624	1	0.1726659	2	0.188629	5	0.1938205	10	0.1430798	50	0.18817
1,3,5-Trimethylbenzene	0.5	1.336751	1	1.765212	2	1.903197	5	1.885923	10	1.434485	50	1.845239
1,2,4-Trimethylbenzene	0.5	1.361445	1	1.798266	2	1.839828	5	1.881224	10	1.445443	50	1.855942
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.1317031	1	0.1667112	2	0.1866976	5	0.1969772	10	0.1511261	50	0.1869901
Vinyl chloride	0.5	0.1115853	1	0.1670598	2	0.1591965	5	0.1544481	10	0.1406685	50	0.1618295
m,p-Xylene	1	1.520914	2	1.966884	4	1.987024	10	2.000015	20	1.508516	100	1.924958
o-Xylene	0.5	1.701833	1	2.041754	2	2.057277	5	2.087892	10	1.573271	50	2.035728
Vinyl acetate	1.001	0.5386342	2.002	0.7003495	4.004	0.6894311	10.01	0.6801095	20.02	0.5344884	100.1	0.6589896
Xylenes (total)	1.5	1.581221	3	1.991841	6	2.010441	15	2.029307	30	1.530101	150	1.961881
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol	2.5		5	1.654912E-02	10	1.567864E-02	25	1.677963E-02	50	0.0134742	250	1.603323E-02
tert-Amyl ethyl ether	0.5	0.5125764	1	0.6541214	2	0.6591442	5	0.6731157	10	0.5291911	50	0.6343614

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1197002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	7/15/11 7:34 7/15/11 16:30

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	~~0.1422652~~	2	0.1111714	4	0.0884889
Acrolein	501	2.875959E-02	751.5	2.860378E-02	1002	2.889018E-02						
Acrylonitrile	499.8	6.085155E-02	749.6	0.0584169	999.5	5.785787E-02						
Benzene	100	0.9387375	150	0.8947021	200	0.8354405						
Bromobenzene	100	0.6840397	150	0.6819258	200	0.6739128						
Bromochloromethane	100	0.142322	150	0.1355677	200	0.1308451						
Tert-Amyl Methyl Ether	100	0.807375	150	0.7691344	200	0.7414049						
Bromodichloromethane	100	0.4204359	150	0.4115817	200	0.3947849						
Bromoform	100	0.5705598	150	0.6029215	200	0.6064382						
Bromomethane	100	0.1705069	150	0.1768687	200	0.1764894						
Bromofluorobenzene							30	0.8860509	35	0.8472739	40	0.8139772
n-Butylbenzene	100	1.768282	150	1.78069	200	1.756123						
2-Butanone							1	0.1417618	2	0.1391772	4	0.1303429
sec-Butylbenzene	100	2.082689	150	2.080056	200	2.073856						
tert-Butylbenzene	100	1.736447	150	1.704461	200	1.675738						
Carbon disulfide	100	0.558192	150	0.5400653	200	0.5489952						
Carbon tetrachloride	100	0.4502064	150	0.4452133	200	0.4338564						
Chlorobenzene	100	1.378625	150	1.372738	200	1.335604						
Chloroethane	100	0.1218032	150	0.1200577	200	0.1192623						
Chloroform	100	0.5299195	150	0.523271	200	0.4976453						
2-Chloroethyl vinyl ether	199.5	0.1191496	299.2	0.1153465	399	0.108379						
Chloromethane	100	0.2159079	150	0.2056193	200	0.2083125						
1-Chlorohexane	99.85	0.6614201	149.8	0.672575	199.7	0.6651357						
2-Chlorotoluene	100	1.786765	150	1.806771	200	1.808341						
4-Chlorotoluene	100	2.123714	150	2.11129	200	2.10736						
Cyclohexane	100	0.3451303	150	0.3340647	200	0.3239821						
Dibromochloromethane	100	0.7189677	150	0.7608246	200	0.7574869						
1,2-Dibromo-3-chloropropane	100	0.1541997	150	0.1606072	200	0.1663282						
1,2-Dibromoethane (EDB)	100	0.5501278	150	0.5731653	200	0.57001						
Dibromomethane	100	0.1914973	150	0.1860576	200	0.1767915						
1,2-Dichlorobenzene	100	1.138972	150	1.133297	200	1.129082						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1197002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	7/15/11 7:34 7/15/11 16:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.170233	150	1.167258	200	1.155144						
1,4-Dichlorobenzene	100	1.202532	150	1.215574	200	1.184769						
Dichlorodifluoromethane	100	0.3445984	150	0.3202853	200	0.3121971						
1,1-Dichloroethane	100	0.4534819	150	0.4505517	200	0.4327821						
1,2-Dichloroethane	100	0.4547901	150	0.4559227	200	0.4347996						
1,1-Dichloroethene	100	0.1604101	150	0.1577358	200	0.1539291						
cis-1,2-Dichloroethene	100	0.2612271	150	0.2554939	200	0.2408425						
trans-1,2-Dichloroethene	100	0.2309383	150	0.2151291	200	0.2010758						
1,2-Dichloroethene (total)	200	0.2460827	300	0.2353115	400	0.2209591						
1,2-Dichloropropane	100	0.2217015	150	0.2136481	200	0.204283						
1,3-Dichloropropane	100	0.8948023	150	0.9385254	200	0.9100537						
2,2-Dichloropropane	100	0.4688787	150	0.4612482	200	0.4372489						
1,1-Dichloropropene	100	0.3717713	150	0.3618101	200	0.3404212						
cis-1,3-Dichloropropene	100	0.4484216	150	0.4356115	200	0.4122287						
trans-1,3-Dichloropropene	100	0.8983652	150	0.9340636	200	0.9066197						
1,3-Dichloropropene (total)	200	0.4256749	300	0.4129476	400	0.3898808						
Diisopropyl Ether	100	0.9456052	150	0.9373985	200	0.887402						
Ethylbenzene	100	2.566703	150	2.611992	200	2.572266						
Ethyl tert-Butyl Ether	100	0.8462683	150	0.8254319	200	0.7801435						
Ethyl Methacrylate	100	0.7455253	150	0.762591	200	0.7519589						
Hexachlorobutadiene	100	0.4191425	150	0.4287574	200	0.4374045						
2-Hexanone							1	0.3923413	2	0.4040389	4	0.39792
Iodomethane	100	0.3532704	150	0.351973	200	0.3491904						
Isopropylbenzene	100	1.928477	150	1.995785	200	1.956553						
p-Isopropyltoluene	100	1.786147	150	1.771334	200	1.750816						
Methylene chloride	100	0.1905062	150	0.188901	200	0.1832898						
Methyl Acetate	100	0.1714857	150	0.1636535	200	0.1614476						
Methylcyclohexane	100	0.31874	150	0.3041178	200	0.2945161						
Naphthalene	100	1.462316	150	1.538521	200	1.5239						
Methyl Methacrylate	100	0.2773419	150	0.2664474	200	0.261145						
4-Methyl-2-pentanone							1	0.2379617	2	0.2768849	4	0.2691591

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1197002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	7/15/11 7:34 7/15/11 16:30

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	0.7962738	150	0.7671117	200	0.7298215						
n-Propylbenzene	100	2.728506	150	2.786386	200	2.751407						
Styrene	100	1.410488	150	1.399224	200	1.355911						
1,1,2,2-Tetrachloroethane	100	0.6402708	150	0.6365311	200	0.6458531						
1,1,1,2-Tetrachloroethane	100	0.621416	150	0.6488474	200	0.6379132						
tert-Butyl alcohol	500	0.0211634	750	2.112146E-02	1000	1.983433E-02						
Tetrachloroethene	100	0.6085309	150	0.6234801	200	0.6124905						
Toluene	100	1.140879	150	1.135754	200	1.080437						
1,2,3-Trichlorobenzene	100	0.6895976	150	0.6890969	200	0.7011616						
1,2,4-Trichlorobenzene	100	0.7424444	150	0.7649668	200	0.7577524						
1,1,2-Trichloroethane	100	0.4233029	150	0.4270949	200	0.4154407						
1,1,1-Trichloroethane	100	0.4797127	150	0.4841176	200	0.4624364						
Tetrahydrofuran	100	7.151423E-02	150	6.914114E-02	200	6.885468E-02						
Trichloroethene	100	0.2681625	150	0.2599899	200	0.2459284						
Trichlorofluoromethane	100	0.4865948	150	0.4744342	200	0.4668765						
1,2,3-Trichloropropane	100	0.2033297	150	0.2102536	200	0.2103444						
1,3,5-Trimethylbenzene	100	1.844314	150	1.855347	200	1.828179						
1,2,4-Trimethylbenzene	100	1.855828	150	1.852041	200	1.81729						
1,1,2-Trichloro-1,2,2-trifluoroethar	100	0.194898	150	0.1944044	200	0.1905808						
Vinyl chloride	100	0.1661011	150	0.1686097	200	0.1683015						
m,p-Xylene	200	1.948491	300	1.968469	400	1.93279						
o-Xylene	100	2.11791	150	2.133842	200	2.121112						
Vinyl acetate	200.2	0.6793382	300.4	0.6653102	400.5	0.6416976						
Xylenes (total)	300	2.004964	450	2.023593	600	1.995564						
Dibromofluoromethane							30	0.3310138	35	0.3268755	40	0.3157705
1,2-Dichloroethane-d4							30	6.422561E-02	35	6.321739E-02	40	5.987621E-02
Toluene-d8							30	2.018665	35	1.966078	40	1.863661
tert-Amyl alcohol	500	1.760631E-02	750	0.0168663	1000	1.687939E-02						
tert-Amyl ethyl ether	100	0.6498055	150	0.6312472	200	0.6001792						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1197002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	7/15/11 7:34 7/15/11 16:30

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	9.088414E-02	20	7.269061E-02	100	7.880733E-02	200	8.100473E-02	300	8.455963E-02	400	8.486858E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene	50	0.8009343	60	0.7899578	70	0.7752778	30	0.8624537	30	0.8687408	30	0.8650714
n-Butylbenzene												
2-Butanone	10	0.1365185	20	0.1143557	100	0.1243605	200	0.1285361	300	0.1303509	400	0.1326337
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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1197002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	7/15/11 7:34 7/15/11 16:30

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	0.3966124	20	0.334273	100	0.3812535	200	0.3835207	300	0.3783593	400	0.3833224
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.2816464	20	0.2285668	100	0.2511722	200	0.2600916	300	0.2589988	400	0.2546986

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1197002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	7/15/11 7:34 7/15/11 16:30

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	0.3189521	60	0.3223027	70	0.3108503	30	0.3442915	30	0.3331981	30	0.3254405
1,2-Dichloroethane-d4	50	6.073933E-02	60	6.077932E-02	70	5.861705E-02	30	6.371946E-02	30	6.970459E-02	30	6.315942E-02
Toluene-d8	50	1.829422	60	1.818813	70	1.796923	30	1.994579	30	1.964788	30	1.958301
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1197002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	7/15/11 7:34 7/15/11 16:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	8.655942E-02	13.2323	3.85325	0.1167707			15	
Acrolein	2.963651E-02	11.7238	3.728125	0.1173739			15	
Acrylonitrile	5.716407E-02	12.46842	4.685889	0.1028931			15	
Benzene	0.9042844	10.86659	7.714111	3.903947E-02			15	
Bromobenzene	0.649784	10.95668	12.43222	2.696263E-02			15	
Bromochloromethane	0.135596	10.44311	6.815889	4.253216E-02			15	
Tert-Amyl Methyl Ether	0.7541735	11.14465	7.904444	3.665573E-02			15	
Bromodichloromethane	0.3693912	14.15853	8.690889	3.979992E-02			15	
Bromoform	0.4457817	28.31164	11.84144	3.385007E-02	0.9985108		SPCC (0.1)	
Bromomethane	0.1432738	19.03628	2.883333	9.237517E-02	0.9992172		0.995	
Bromofluorobenzene	0.8344153	4.78405	12.27122	0.0183763			15	
n-Butylbenzene	1.63338	12.01223	13.85744	1.941718E-02			15	
2-Butanone	0.130893	6.298468	6.285222	3.599668E-02			15	
sec-Butylbenzene	1.945018	11.67459	13.31833	2.734518E-02			15	
tert-Butylbenzene	1.637174	9.671586	13.08644	2.063187E-02			15	
Carbon disulfide	0.4975247	11.21421	4.85075	5.899555E-02			15	
Carbon tetrachloride	0.3996617	13.63673	7.682222	3.807143E-02			15	
Chlorobenzene	1.298758	10.56866	11.11933	2.750333E-02			SPCC (0.3)	
Chloroethane	0.1141797	12.78848	3.019778	9.739813E-02			15	
Chloroform	0.519736	8.855926	6.788444	4.081139E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1083555	11.96312	9.043111	3.203373E-02			15	
Chloromethane	0.2182924	11.80224	2.284667	0.1403289			SPCC (0.1)	
1-Chlorohexane	0.6794803	11.85012	11.08111	0.0269055			15	
2-Chlorotoluene	1.702465	10.44949	12.652	3.094626E-02			15	
4-Chlorotoluene	1.990602	10.16443	12.71433	2.515017E-02			15	
Cyclohexane	0.3354188	10.6483	7.613333	3.753559E-02			15	
Dibromochloromethane	0.5980214	22.0052	10.35244	0.0232385	0.9988737		0.995	
1,2-Dibromo-3-chloropropane	0.1228865	27.71059	14.46144	2.179369E-02	0.9982934		0.995	
1,2-Dibromoethane (EDB)	0.5085674	12.80272	10.568	3.108569E-02			15	
Dibromomethane	0.180141	10.04093	8.629445	2.759784E-02			15	
1,2-Dichlorobenzene	1.078607	11.0469	13.81811	2.053201E-02			15	
1,3-Dichlorobenzene	1.101378	11.19067	13.41011	2.742168E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1197002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	7/15/11 7:34 7/15/11 16:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.14648	10.66153	13.50089	2.725037E-02			15	
Dichlorodifluoromethane	0.3068391	11.89335	2.065889	0.1387903			15	
1,1-Dichloroethane	0.431906	11.23155	5.833444	0.0471214			SPCC (0.1)	
1,2-Dichloroethane	0.4264077	11.61214	7.543333	4.294553E-02			15	
1,1-Dichloroethene	0.1492329	11.21917	4.322667	8.271983E-02			CCC (20)	
cis-1,2-Dichloroethene	0.2503875	11.01223	6.534556	4.363338E-02			15	
trans-1,2-Dichloroethene	0.2240218	9.35269	5.461556	5.384997E-02			15	
1,2-Dichloroethene (total)	0.2372046	9.860922	0	0			15	
1,2-Dichloropropane	0.216359	10.53841	8.516889	5.066151E-02			CCC (20)	
1,3-Dichloropropane	0.8502119	11.06785	10.09533	3.106928E-02			15	
2,2-Dichloropropane	0.4364498	10.84859	6.642	4.894581E-02			15	
1,1-Dichloropropene	0.3553169	11.26297	7.560778	6.238547E-02			15	
cis-1,3-Dichloropropene	0.411869	11.20199	9.259778	3.148283E-02			15	
trans-1,3-Dichloropropene	0.8172756	14.80375	9.731222	3.239758E-02			15	
1,3-Dichloropropene (total)	0.3922376	11.70867	9.731222	3.239758E-02			15	
Diisopropyl Ether	0.9178801	9.659161	6.206556	6.395643E-02			15	
Ethylbenzene	2.419758	10.8115	11.26367	3.431404E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.8010773	10.72234	6.665889	6.207404E-02			15	
Ethyl Methacrylate	0.6941842	11.20065	9.917111	4.077048E-02			15	
Hexachlorobutadiene	0.3828814	13.83125	15.81689	2.028343E-02			15	
2-Hexanone	0.3835157	5.323524	10.02989	2.946592E-02			15	
Iodomethane	0.2777187	27.16706	4.515222	7.732293E-02	0.999625		0.995	
Isopropylbenzene	1.787967	13.49076	12.15967	3.472745E-02			15	
p-Isopropyltoluene	1.658073	10.51189	13.45411	2.454023E-02			15	
Methylene chloride	0.1860977	9.825037	4.800889	6.587492E-02			15	
Methyl Acetate	0.1656656	12.32814	4.675875	9.930135E-02			15	
Methylcyclohexane	0.3034361	10.77778	8.841667	4.119604E-02			15	
Naphthalene	1.369554	11.88491	15.68889	2.136994E-02			15	
Methyl Methacrylate	0.2705031	9.821386	8.648222	0.0363309			15	
4-Methyl-2-pentanone	0.2576867	6.679622	9.186444	0.0477239			15	
Methyl t-Butyl Ether	0.750083	10.427	5.466889	5.562063E-02			15	
n-Propylbenzene	2.615418	10.12252	12.56689	2.562257E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1197002	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	7/15/11 7:34 7/15/11 16:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Styrene	1.325255	10.28675	11.73644	3.516643E-02			15	
1,1,2,2-Tetrachloroethane	0.5949751	11.73427	12.08544	2.380664E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.5474485	17.03642	11.16011	2.495695E-02	0.9992981		0.995	
tert-Butyl alcohol	1.902713E-02	14.65822	4.484556	6.204396E-02			15	
Tetrachloroethene	0.5708118	12.54352	10.46433	2.760307E-02			15	
Toluene	1.135262	10.27709	9.733444	3.446291E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.6340517	11.25616	15.97433	1.821162E-02			15	
1,2,4-Trichlorobenzene	0.6888209	12.96776	15.53778	2.430261E-02			15	
1,1,2-Trichloroethane	0.3952658	12.33881	9.884444	2.968968E-02			15	
1,1,1-Trichloroethane	0.4415644	11.38965	7.343333	3.710186E-02			15	
Tetrahydrofuran	7.316461E-02	13.5402	7.003	4.728995E-02			15	
Trichloroethene	0.2563099	11.25606	8.466555	4.040662E-02			15	
Trichlorofluoromethane	0.4264743	14.46216	3.528556	8.215843E-02			15	
1,2,3-Trichloropropane	0.1829839	14.88655	12.21111	2.947702E-02			15	
1,3,5-Trimethylbenzene	1.744294	11.94647	12.74511	2.406659E-02			15	
1,2,4-Trimethylbenzene	1.745256	11.25201	13.11689	2.947553E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1777876	12.92174	4.397222	9.416376E-02			15	
Vinyl chloride	0.1553111	12.01282	2.431444	0.1303675			CCC (20)	
m,p-Xylene	1.862007	10.65282	11.37533	3.372398E-02			15	
o-Xylene	1.985624	10.22317	11.76589	3.300866E-02			15	
Vinyl acetate	0.6431498	9.766546	5.91	4.919518E-02			15	
Xylenes (total)	1.903213	10.42545	0	0			15	
Dibromofluoromethane	0.3254106	3.086435	6.958	3.533272E-02			15	
1,2-Dichloroethane-d4	6.267093E-02	5.203576	7.452556	5.140755E-02			15	
Toluene-d8	1.912359	4.419035	9.656778	3.619712E-02			15	
tert-Amyl alcohol	1.623335E-02	7.743819	7.1655	6.159254E-02			15	
tert-Amyl ethyl ether	0.6159713	9.391465	8.779556	3.457181E-02			15	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

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	1	~~9.608746E-02~~	2	6.882202E-02	4	0.0722643	10	6.116451E-02	20	0.0438023	100	5.181043E-02
Acrolein	2.502	~~1.087745E-02~~	5.005	1.357731E-02	10.01	1.315283E-02	25.02	1.613414E-02	50.05	0.0123604	250.2	1.583195E-02
Acrylonitrile	2.498	2.966714E-02	4.997	3.177803E-02	9.994	3.042435E-02	24.98	3.887572E-02	49.97	2.823737E-02	249.8	3.349316E-02
Benzene	0.5	0.5023693	1	0.5669668	2	0.5550427	5	0.6354502	10	0.5043506	50	0.5670953
Bromobenzene	0.5	0.5396335	1	0.6686525	2	0.7223649	5	0.6851849	10	0.6368207	50	0.7151399
Bromochloromethane	0.5	9.651014E-02	1	0.1014158	2	0.1023602	5	0.1227067	10	0.1072906	50	0.1157515
Tert-Amyl Methyl Ether	0.5	0.3998009	1	0.3782749	2	0.4342346	5	0.460069	10	0.3883819	50	0.4278884
Bromodichloromethane	0.5	0.2292762	1	0.2651113	2	0.286993	5	0.309275	10	0.2433726	50	0.2878866
Bromoform	0.5	0.4144892	1	0.4583603	2	0.5570596	5	0.5878279	10	0.5123226	50	0.5756654
Bromomethane	0.5	0.1759725	1	0.1627811	2	0.1516766	5	0.1514963	10	0.13205	50	0.1624678
Bromofluorobenzene	30	1.146665	35	1.071011	40	1.033273	50	1.041432	60	0.998979	70	0.9569202
n-Butylbenzene	0.5	1.159274	1	0.9280348	2	1.127835	5	1.042272	10	1.013987	50	1.120337
2-Butanone	1	6.391742E-02	2	6.818891E-02	4	7.107297E-02	10	7.697429E-02	20	5.200463E-02	100	0.0645543
sec-Butylbenzene	0.5	1.718043	1	1.829458	2	1.867758	5	1.712685	10	1.573554	50	1.763296
tert-Butylbenzene	0.5	1.223101	1	1.25131	2	1.260354	5	1.268243	10	1.113242	50	1.277195
Carbon disulfide	0.5	0.3250349	1	0.3573821	2	0.385791	5	0.4468978	10	0.3609669	50	0.4205758
Carbon tetrachloride	0.5	0.1678948	1	0.1940148	2	0.2001555	5	0.226763	10	0.1745973	50	0.2034216
Chlorobenzene	0.5	1.768182	1	1.898554	2	1.889646	5	1.879923	10	1.696185	50	1.789633
Chloroethane	0.5	5.499434E-02	1	4.471673E-02	2	7.051269E-02	5	7.728815E-02	10	5.855933E-02	50	7.026741E-02
Chloroform	0.5	0.3895628	1	0.3819095	2	0.360195	5	0.4129057	10	0.325793	50	0.3591975
2-Chloroethyl vinyl ether	0.9975	5.233084E-02	1.995	6.436353E-02	3.99	6.969612E-02	9.975	0.0803163	19.95	6.515221E-02	99.75	7.698877E-02
Chloromethane	0.5	0.1538527	1	0.1363309	2	0.1424644	5	0.135213	10	0.1193517	50	0.1260203
1-Chlorohexane	0.5	0.782055	1	0.7612881	2	0.7036642	5	0.6778778	10	0.6079693	50	0.6394222
2-Chlorotoluene	0.5	1.319546	1	1.282431	2	1.529283	5	1.460642	10	1.303444	50	1.478958
4-Chlorotoluene	0.5	1.597197	1	1.593004	2	1.728111	5	1.677795	10	1.556042	50	1.703609
Cyclohexane	0.5	9.885832E-02	1	0.1055662	2	0.1064768	5	0.1193341	10	9.560834E-02	50	0.1114818
Dibromochloromethane	0.5	0.4378033	1	0.5487536	2	0.6262706	5	0.6483468	10	0.5488223	50	0.6460419
1,2-Dibromo-3-chloropropane	0.5	0.115966	1	0.1207995	2	0.1472326	5	0.1272414	10	0.1110756	50	0.1321869
1,2-Dibromoethane (EDB)	0.5	0.6702064	1	0.7917132	2	0.8228042	5	0.8174141	10	0.7205352	50	0.8059357
Dibromomethane	0.5	0.1586899	1	0.1522526	2	0.167388	5	0.1890259	10	0.1636608	50	0.1697493
1,2-Dichlorobenzene	0.5	0.8008459	1	0.9312103	2	0.9580416	5	0.9337666	10	0.8268845	50	0.9458828

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

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	0.8389875	1	0.9032016	2	1.006563	5	0.9719623	10	0.8650764	50	0.9480622
1,4-Dichlorobenzene	0.5	0.8641584	1	0.9609974	2	1.058191	5	1.000758	10	0.9028049	50	0.9983199
Dichlorodifluoromethane	0.5	0.1705247	1	0.1632735	2	0.2014294	5	0.2038781	10	0.1962392	50	0.2137962
1,1-Dichloroethane	0.5	0.1660632	1	0.2069116	2	0.2192522	5	0.2621754	10	0.2120065	50	0.2403457
1,2-Dichloroethane	0.5	0.2416745	1	0.2598823	2	0.2754571	5	0.3036681	10	0.2321036	50	0.2731388
1,1-Dichloroethene	0.5	0.2003936	1	0.1899816	2	0.1988109	5	0.2242202	10	0.1735373	50	0.2039254
cis-1,2-Dichloroethene	0.5	0.2228421	1	0.2490021	2	0.2771085	5	0.2899915	10	0.2366851	50	0.2608832
trans-1,2-Dichloroethene	0.5	0.2190381	1	0.2155642	2	0.2451784	5	0.2614626	10	0.2084249	50	0.2340541
1,2-Dichloroethene (total)	1	0.2209401	2	0.2322831	4	0.2611435	10	0.275727	20	0.222555	100	0.2474686
1,2-Dichloropropane	0.5	9.697977E-02	1	9.295076E-02	2	0.1083876	5	0.110344	10	9.635652E-02	50	0.1115675
1,3-Dichloropropane	0.5	0.5391753	1	0.6660444	2	0.7291969	5	0.7134637	10	0.6708246	50	0.7397077
2,2-Dichloropropane	0.5	0.2241102	1	0.219527	2	0.2469124	5	0.2586326	10	0.2119303	50	0.2345411
1,1-Dichloropropene	0.5	0.1866332	1	0.1739427	2	0.1990704	5	0.2215817	10	0.1765301	50	0.1998635
cis-1,3-Dichloropropene	0.5	0.2265992	1	0.2312514	2	0.239151	5	0.2702878	10	0.2308058	50	0.2576411
trans-1,3-Dichloropropene	0.5	0.7678895	1	0.7212358	2	0.8212889	5	0.8414668	10	0.7613329	50	0.853628
Diisopropyl Ether	0.5	0.3628875	1	0.4199667	2	0.4566693	5	0.5156214	10	0.4121737	50	0.4711663
Ethylbenzene	0.5	2.271796	1	2.515653	2	2.642974	5	2.642631	10	2.295381	50	2.565577
Ethyl tert-Butyl Ether	0.5	0.3981102	1	0.4003871	2	0.4421139	5	0.5119615	10	0.4198057	50	0.464913
Ethyl Methacrylate	0.5	0.383207	1	0.4460874	2	0.4441324	5	0.491192	10	0.4306388	50	0.4693817
Hexachlorobutadiene	0.5	0.1074901	1	0.1362329	2	0.131996	5	0.1312314	10	0.1245116	50	0.1252685
2-Hexanone	1	0.2300422	2	0.2321198	4	0.2984938	10	0.2828588	20	0.2465738	100	0.2689491
Iodomethane	0.5	~~0.1306057~~	1	0.1598031	2	0.1789829	5	0.2212147	10	0.2059125	50	0.2826653
Isopropylbenzene	0.5	2.005602	1	2.131078	2	2.200622	5	2.219166	10	1.97865	50	2.095786
p-Isopropyltoluene	0.5	1.231833	1	1.164235	2	1.320614	5	1.244962	10	1.140358	50	1.275539
Methylene chloride	0.5	~~0.3073766~~	1	0.2245685	2	0.2389269	5	0.2416844	10	0.186873	50	0.2102223
Methyl Acetate	0.5	0.1213069	1	0.1034792	2	0.1094964	5	0.116919	10	8.304853E-02	50	9.275781E-02
Methylcyclohexane	0.5	0.1342688	1	0.156192	2	0.1444696	5	0.181887	10	0.136874	50	0.1466243
Naphthalene	0.5	0.7687401	1	0.8623635	2	0.9786404	5	0.9706581	10	0.8642249	50	0.9601697
Methyl Methacrylate	0.5	0.1705717	1	0.1373392	2	0.1440922	5	0.1518686	10	0.1274177	50	0.1388458
4-Methyl-2-pentanone	1	0.1184421	2	0.1184395	4	0.1320609	10	0.142195	20	0.1082547	100	0.1257689
Methyl t-Butyl Ether	0.5	0.3579094	1	0.3963773	2	0.4386224	5	0.4871989	10	0.3787733	50	0.4376361

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	1.927501	1	1.983284	2	2.161569	5	2.092382	10	1.935005	50	2.19062
Styrene	0.5	1.654415	1	1.847331	2	2.015378	5	2.044211	10	1.911696	50	1.99924
1,1,2,2-Tetrachloroethane	0.5	0.4336845	1	0.4698605	2	0.4860342	5	0.4825335	10	0.4125407	50	0.4805776
1,1,1,2-Tetrachloroethane	0.5	0.4078491	1	0.4209536	2	0.5372472	5	0.477337	10	0.4313686	50	0.4761352
tert-Butyl alcohol	2.5	1.730138E-02	5	1.396606E-02	10	1.350805E-02	25	1.566084E-02	50	1.055218E-02	250	1.319551E-02
Tetrachloroethene	0.5	0.6489581	1	0.6370892	2	0.6886249	5	0.6982733	10	0.5913377	50	0.6614506
Toluene	0.5	1.32551	1	1.316803	2	1.568215	5	1.55226	10	1.37969	50	1.451419
1,2,3-Trichlorobenzene	0.5	0.3916902	1	0.3826587	2	0.4195294	5	0.4170662	10	0.3783183	50	0.4472712
1,2,4-Trichlorobenzene	0.5	0.5090688	1	0.4806575	2	0.5429262	5	0.5163388	10	0.4461808	50	0.5208503
1,1,2-Trichloroethane	0.5	0.362844	1	0.425363	2	0.4676573	5	0.4671393	10	0.4088909	50	0.4463467
1,1,1-Trichloroethane	0.5	0.2187093	1	0.2368322	2	0.2432794	5	0.3233825	10	0.2466609	50	0.271989
Tetrahydrofuran	0.5		1	3.071784E-02	2	0.039196	5	3.442831E-02	10	2.593477E-02	50	0.0291517
Trichloroethene	0.5	0.2350057	1	0.2123282	2	0.2310594	5	0.2830228	10	0.2154773	50	0.2382548
Trichlorofluoromethane	0.5	0.2203531	1	0.2646424	2	0.2756813	5	0.3345376	10	0.258835	50	0.2848112
1,2,3-Trichloropropane	0.5	0.1480002	1	0.1494062	2	0.203466	5	0.2056548	10	0.1715286	50	0.1975704
1,3,5-Trimethylbenzene	0.5	1.430761	1	1.433525	2	1.678052	5	1.57151	10	1.450232	50	1.62985
1,2,4-Trimethylbenzene	0.5	1.652034	1	1.550705	2	1.607787	5	1.619881	10	1.485005	50	1.598815
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.1686462	1	0.1945072	2	0.2073861	5	0.2297313	10	0.1704037	50	0.1996916
Vinyl chloride	0.5	0.126332	1	0.1335874	2	0.1316245	5	0.146565	10	0.1163243	50	0.1437865
m,p-Xylene	1	1.771133	2	1.996957	4	2.054074	10	2.049856	20	1.859656	100	1.937616
o-Xylene	0.5	1.891983	1	1.933021	2	2.206646	5	2.10218	10	1.894379	50	2.001039
Vinyl acetate	0.996	0.231918	1.992	0.2573945	3.984	0.279157	9.96	0.3211054	19.92	0.254629	99.62	0.3003329
Xylenes (total)	1.5	1.811417	3	1.975645	6	2.104932	15	2.067297	30	1.87123	150	1.958757
Dibromofluoromethane	30	0.3146575	35	0.2973708	40	0.2898133	50	0.3240325	60	0.2771902	70	0.2913282
1,2-Dichloroethane-d4	30	6.643232E-02	35	6.572478E-02	40	6.125274E-02	50	7.106956E-02	60	5.979322E-02	70	6.398737E-02
Toluene-d8	30	2.765563	35	2.702269	40	2.573335	50	2.603073	60	2.498953	70	2.530118
tert-Amyl alcohol	2.5	~~6.81911E-03~~	5	7.527042E-03	10	8.273269E-03	25	8.603886E-03	50	6.160056E-03	250	8.241148E-03
tert-Amyl ethyl ether	0.5	0.2437409	1	0.2814317	2	0.3280645	5	0.3742376	10	0.2949558	50	0.3427573

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

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	200	5.323533E-02	300	5.431306E-02	400	5.492247E-02						
Acrolein	500.5	1.764482E-02	750.8	1.917083E-02	1001	~~0.0205442~~						
Acrylonitrile	499.7	3.549805E-02	749.6	3.676642E-02	999.4	3.893284E-02						
Benzene	100	0.5673893	150	0.5985981	200	0.5588667						
Bromobenzene	100	0.7235708	150	0.7215667	200	0.6955306						
Bromochloromethane	100	0.1147634	150	0.1191848	200	0.1105762						
Tert-Amyl Methyl Ether	100	0.4274765	150	0.4308573	200	0.4308213						
Bromodichloromethane	100	0.2824088	150	0.2898993	200	0.2783767						
Bromoform	100	0.616159	150	0.6051261	200	0.6139063						
Bromomethane	100	0.1679422	150	0.1813045	200	0.176004						
Bromofluorobenzene	30	1.15367	30	1.180036	30	1.181585						
n-Butylbenzene	100	1.139653	150	1.162492	200	1.127775						
2-Butanone	200	6.575063E-02	300	6.593555E-02	400	6.818059E-02						
sec-Butylbenzene	100	1.806706	150	1.76322	200	1.67851						
tert-Butylbenzene	100	1.251798	150	1.282898	200	1.231797						
Carbon disulfide	100	0.4131249	150	0.4343689	200	0.4228109						
Carbon tetrachloride	100	0.2005603	150	0.2090758	200	0.1938482						
Chlorobenzene	100	1.715557	150	1.781357	200	1.682842						
Chloroethane	100	6.980032E-02	150	7.646999E-02	200	7.302746E-02						
Chloroform	100	0.3508805	150	0.3690899	200	0.3421111						
2-Chloroethyl vinyl ether	199.5	7.810062E-02	299.2	7.941432E-02	399	8.158615E-02						
Chloromethane	100	0.1345248	150	0.1464054	200	0.1474866						
1-Chlorohexane	100	0.6314373	150	0.6442039	200	0.6199644						
2-Chlorotoluene	100	1.481786	150	1.474596	200	1.419266						
4-Chlorotoluene	100	1.741284	150	1.766225	200	1.667061						
Cyclohexane	100	0.109993	150	0.119214	200	0.1143707						
Dibromochloromethane	100	0.6487914	150	0.6327699	200	0.629049						
1,2-Dibromo-3-chloropropane	100	0.1412562	150	0.1348432	200	0.1434844						
1,2-Dibromoethane (EDB)	100	0.8161935	150	0.8090817	200	0.8045069						
Dibromomethane	100	0.1705048	150	0.166757	200	0.165391						
1,2-Dichlorobenzene	100	0.952458	150	0.9551338	200	0.9152926						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

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	0.9753979	150	0.962012	200	0.9261243						
1,4-Dichlorobenzene	100	0.9875149	150	0.9716572	200	0.921737						
Dichlorodifluoromethane	100	0.2100623	150	0.2136436	200	0.215567						
1,1-Dichloroethane	100	0.2406747	150	0.2511623	200	0.2432393						
1,2-Dichloroethane	100	0.268776	150	0.2839346	200	0.2652109						
1,1-Dichloroethene	100	0.2018476	150	0.2043235	200	0.1887459						
cis-1,2-Dichloroethene	100	0.2510814	150	0.2660959	200	0.2476993						
trans-1,2-Dichloroethene	100	0.2292378	150	0.23414	200	0.2205124						
1,2-Dichloroethene (total)	200	0.2401596	300	0.250118	400	0.2341058						
1,2-Dichloropropane	100	0.1050068	150	0.1161596	200	0.1120544						
1,3-Dichloropropane	100	0.7317823	150	0.767556	200	0.7605644						
2,2-Dichloropropane	100	0.225784	150	0.2368235	200	0.2217666						
1,1-Dichloropropene	100	0.1984783	150	0.2094763	200	0.196503						
cis-1,3-Dichloropropene	100	0.2567484	150	0.2673041	200	0.2544533						
trans-1,3-Dichloropropene	100	0.8784327	150	0.8758038	200	0.8675532						
Diisopropyl Ether	100	0.4707039	150	0.4995941	200	0.4839708						
Ethylbenzene	100	2.509601	150	2.554282	200	2.495698						
Ethyl tert-Butyl Ether	100	0.4691857	150	0.5028106	200	0.4745638						
Ethyl Methacrylate	100	0.5127713	150	0.5185545	200	0.5362387						
Hexachlorobutadiene	100	0.1397259	150	0.1457799	200	0.1453033						
2-Hexanone	200	0.284846	300	0.2792712	400	0.3080248						
Iodomethane	100	0.3033333	150	0.3175253	200	0.2956244						
Isopropylbenzene	100	2.131782	150	2.07658	200	2.015307						
p-Isopropyltoluene	100	1.286699	150	1.289644	200	1.242092						
Methylene chloride	100	0.204772	150	0.2198753	200	0.2080568						
Methyl Acetate	100	9.989966E-02	150	0.1000612	200	0.1047118						
Methylcyclohexane	100	0.148005	150	0.1517784	200	0.1497499						
Naphthalene	100	0.9596411	150	0.9377382	200	0.932178						
Methyl Methacrylate	100	0.1403965	150	0.1410875	200	0.1515821						
4-Methyl-2-pentanone	200	0.12861	300	0.1311298	400	0.1355302						
Methyl t-Butyl Ether	100	0.4370644	150	0.4519662	200	0.4429915						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.196944	150	2.110365	200	2.036527						
Styrene	100	1.936441	150	1.98503	200	1.923468						
1,1,2,2-Tetrachloroethane	100	0.5033025	150	0.4961193	200	0.5246757						
1,1,1,2-Tetrachloroethane	100	0.4753203	150	0.481025	200	0.4661508						
tert-Butyl alcohol	500	1.399897E-02	750	1.324082E-02	1000	1.432698E-02						
Tetrachloroethene	100	0.6483709	150	0.6808135	200	0.654916						
Toluene	100	1.477228	150	1.462482	200	1.405011						
1,2,3-Trichlorobenzene	100	0.4465944	150	0.4632955	200	0.4623849						
1,2,4-Trichlorobenzene	100	0.5366077	150	0.5359994	200	0.5261245						
1,1,2-Trichloroethane	100	0.4533503	150	0.4592801	200	0.4574416						
1,1,1-Trichloroethane	100	0.2757104	150	0.2836386	200	0.2665365						
Tetrahydrofuran	100	3.063971E-02	150	2.846597E-02	200	3.233173E-02						
Trichloroethene	100	0.2369797	150	0.2377218	200	0.2280876						
Trichlorofluoromethane	100	0.2886601	150	0.2932385	200	0.2817997						
1,2,3-Trichloropropane	100	0.217964	150	0.2036916	200	0.211971						
1,3,5-Trimethylbenzene	100	1.609592	150	1.619311	200	1.540162						
1,2,4-Trimethylbenzene	100	1.659798	150	1.662856	200	1.580635						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.1931837	150	0.1993048	200	0.1867228						
Vinyl chloride	100	0.1432115	150	0.1510223	200	0.1461247						
m,p-Xylene	200	1.878644	300	1.905734	400	1.794734						
o-Xylene	100	2.032096	150	2.092783	200	1.998682						
Vinyl acetate	199.2	0.3128624	298.9	0.3157169	398.5	0.3183108						
Xylenes (total)	300	1.929794	450	1.968084	600	1.862717						
Dibromofluoromethane	30	0.3113035	30	0.3112153	30	0.3069802						
1,2-Dichloroethane-d4	30	6.181426E-02	30	6.377257E-02	30	6.433466E-02						
Toluene-d8	30	2.828696	30	2.778903	30	2.911121						
tert-Amyl alcohol	500	8.74605E-03	750	8.363424E-03	1000	9.07293E-03						
tert-Amyl ethyl ether	100	0.3457525	150	0.3657093	200	0.3597054						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1229002	Instrument:	MS-VOA4
Matrix:	Water	Calibration Dates:	8/16/11 10:01 8/16/11 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.0575418	16.28374	3.87425	0.1918265	0.9996122		0.995	
Acrolein	1.541033E-02	16.24328	3.753286	0.1069534	0.9960182		0.995	
Acrylonitrile	3.374145E-02	11.82527	4.710889	8.835449E-02			15	
Benzene	0.5617921	7.379864	7.751667	3.934664E-02			15	
Bromobenzene	0.6787183	8.810238	12.48678	3.353733E-02			15	
Bromochloromethane	0.1100621	8.019581	6.848778	8.645393E-02			15	
Tert-Amyl Methyl Ether	0.4197561	6.13736	7.937556	3.929182E-02			15	
Bromodichloromethane	0.2747333	9.064225	8.732222	4.418058E-02			15	
Bromoform	0.5489907	13.16844	11.89322	2.492106E-02			SPCC (0.1)	
Bromomethane	0.1624106	9.520168	2.906222	0.1937131			15	
Bromofluorobenzene	1.084841	7.674439	12.32178	2.864882E-02			15	
n-Butylbenzene	1.091296	7.28562	13.91322	2.356767E-02			15	
2-Butanone	6.628659E-02	10.08256	6.302445	0.1092186			15	
sec-Butylbenzene	1.745914	5.052661	13.37333	2.588647E-02			15	
tert-Butylbenzene	1.239993	4.143962	13.13833	2.250046E-02			15	
Carbon disulfide	0.3963281	10.37905	4.888	5.941968E-02			15	
Carbon tetrachloride	0.1967035	8.91945	7.722222	4.253408E-02			15	
Chlorobenzene	1.789098	4.683489	11.16522	2.730701E-02			SPCC (0.3)	
Chloroethane	6.618182E-02	16.62614	3.043889	0.1796245	0.9985108		0.995	
Chloroform	0.3657383	7.177747	6.823778	5.637438E-02			CCC (20)	
2-Chloroethyl vinyl ether	7.199432E-02	13.67585	9.086333	4.628896E-02			15	
Chloromethane	0.1379611	7.881192	2.310556	0.563011			SPCC (0.1)	
1-Chlorohexane	0.6742091	9.287101	11.13033	3.437828E-02			15	
2-Chlorotoluene	1.416661	6.429502	12.70544	2.546658E-02			15	
4-Chlorotoluene	1.670036	4.396709	12.76789	2.816444E-02			15	
Cyclohexane	0.1089893	7.590067	7.654333	0.070096			15	
Dibromochloromethane	0.5962943	11.98739	10.399	2.737902E-02			15	
1,2-Dibromo-3-chloropropane	0.130454	9.693276	14.51789	2.435829E-02			15	
1,2-Dibromoethane (EDB)	0.7842657	6.720684	10.61444	2.895825E-02			15	
Dibromomethane	0.1670466	6.006732	8.667778	0.033882			15	
1,2-Dichlorobenzene	0.9132796	6.385101	13.87611	0.0213825			15	
1,3-Dichlorobenzene	0.933043	5.892607	13.46289	2.782759E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	kirtland_023	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1229002		Instrument:	MS-VOA4	
Matrix:	Water		Calibration Dates:	8/16/11 10:01	8/16/11 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	0.9629043	6.089999	13.55589	2.527918E-02			15	
Dichlorodifluoromethane	0.1987127	9.670187	2.086333	0.1556681			15	
1,1-Dichloroethane	0.2268701	12.8994	5.867333	6.373268E-02			SPCC (0.1)	
1,2-Dichloroethane	0.267094	8.004438	7.579	4.916251E-02			15	
1,1-Dichloroethene	0.1984207	6.970958	4.357667	0.1067224			CCC (20)	
cis-1,2-Dichloroethene	0.2557099	7.991322	6.574556	9.663746E-02			15	
trans-1,2-Dichloroethene	0.2297347	7.115709	5.497889	5.579666E-02			15	
1,2-Dichloroethene (total)	0.2427223	7.394184	0	0			15	
1,2-Dichloropropane	0.1055341	7.77866	8.554	3.834985E-02			CCC (20)	
1,3-Dichloropropane	0.702035	10.03236	10.13889	4.188439E-02			15	
2,2-Dichloropropane	0.2311142	6.341311	6.678333	4.411985E-02			15	
1,1-Dichloropropene	0.1957866	7.70324	7.599778	4.556141E-02			15	
cis-1,3-Dichloropropene	0.2482491	6.668519	9.300666	3.663101E-02			15	
trans-1,3-Dichloropropene	0.8209591	6.982319	9.773778	0.0402609			15	
Diisopropyl Ether	0.4547504	10.59161	6.232333	0.0560336			15	
Ethylbenzene	2.499288	5.336849	11.31289	2.764937E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.4537613	9.160568	6.693667	7.053838E-02			15	
Ethyl Methacrylate	0.4702449	10.45766	9.958556	4.578157E-02			15	
Hexachlorobutadiene	0.1319488	9.075327	15.87967	1.575122E-02			15	
2-Hexanone	0.2701311	10.39731	10.07222	2.635162E-02			15	
Iodomethane	0.2456327	24.97849	4.548	0.1111788	0.9978509		0.995	
Isopropylbenzene	2.094953	4.044991	12.21256	3.350027E-02			15	
p-Isopropyltoluene	1.243997	4.758068	13.511	2.693563E-02			15	
Methylene chloride	0.2168724	8.428011	4.8335	0.1010171			15	
Methyl Acetate	0.1035201	11.29133	4.699889	0.2067483			15	
Methylcyclohexane	0.1499832	9.202679	8.883111	3.057022E-02			15	
Naphthalene	0.9149282	7.60523	15.75289	1.969426E-02			15	
Methyl Methacrylate	0.1448001	8.412517	8.682889	4.802117E-02			15	
4-Methyl-2-pentanone	0.1267146	8.123145	9.221778	3.968653E-02			15	
Methyl t-Butyl Ether	0.4253933	9.427374	5.487	6.647796E-02			15	
n-Propylbenzene	2.070466	5.075536	12.62011	2.411476E-02			15	
Styrene	1.924134	6.123119	11.78633	0.0361033			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	kirtland_023	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1229002		Instrument:	MS-VOA4	
Matrix:	Water		Calibration Dates:	8/16/11 10:01	8/16/11 13:47

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.4765921	7.244244	12.13478	3.381826E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4637096	8.415579	11.20789	0.0394568			15	
tert-Butyl alcohol	1.397231E-02	13.17544	4.493333	0.1672152			15	
Tetrachloroethene	0.6566482	4.85799	10.51289	0.0391751			15	
Toluene	1.437624	6.229328	9.778222	3.393386E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.423201	7.91311	16.04033	1.353914E-02			15	
1,2,4-Trichlorobenzene	0.5127504	6.071195	15.59778	2.461357E-02			15	
1,1,2-Trichloroethane	0.4387015	7.861565	9.929111	4.611406E-02			15	
1,1,1-Trichloroethane	0.262971	11.74316	7.383444	5.639212E-02			15	
Tetrahydrofuran	3.135825E-02	12.94675	7.028375	5.329981E-02			15	
Trichloroethene	0.2353264	8.611764	8.508111	4.484945E-02			15	
Trichlorofluoromethane	0.2780621	10.99483	3.558778	9.994573E-02			15	
1,2,3-Trichloropropane	0.189917	14.04118	12.26167	3.097179E-02			15	
1,3,5-Trimethylbenzene	1.551444	6.003742	12.79833	2.713179E-02			15	
1,2,4-Trimethylbenzene	1.601946	3.60541	13.16889	3.201066E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1943975	9.569462	4.434222	0.1523799			15	
Vinyl chloride	0.1376198	8.262594	2.454778	0.1575583			CCC (20)	
m,p-Xylene	1.916489	5.358445	11.42556	2.946135E-02			15	
o-Xylene	2.016979	5.185108	11.81678	4.590072E-02			15	
Vinyl acetate	0.2879363	11.53617	5.937333	7.379793E-02			15	
Xylenes (total)	1.949986	4.873858	0	0			15	
Dibromofluoromethane	0.3026546	4.869217	6.994222	4.414058E-02			15	
1,2-Dichloroethane-d4	6.424239E-02	5.178117	7.487333	5.902665E-02			15	
Toluene-d8	2.688003	5.344191	9.702889	3.424184E-02			15	
tert-Amyl alcohol	8.123476E-03	11.22889	7.185875	7.092554E-02			15	
tert-Amyl ethyl ether	0.3262617	13.46127	8.818667	4.124662E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1195002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	07/08/11 12:44
Sequence:	1G19304	Injection Date:	07/08/11
Lab Sample ID:	1G19304-ICV1	Injection Time:	16:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	50.00	49.24	0.8768157	0.8634008		-1.5	20
Bromobenzene	A	50.00	49.38	0.6668538	0.6585419		-1.2	20
Bromochloromethane	A	50.00	50.56	0.118355	0.1196903		1.1	20
Bromodichloromethane	A	50.00	52.49	0.3124801	0.3280289		5.0	20
Bromoform	A	50.00	50.71	0.3546153	0.3596276	0.1	1.4	20
Bromomethane	A	50.00	48.70	0.1609344	0.1567482		-2.6	20
n-Butylbenzene	A	50.00	52.59	1.360543	1.430994		5.2	20
sec-Butylbenzene	A	50.00	52.06	1.986439	2.068205		4.1	20
tert-Butylbenzene	A	50.00	49.78	1.481931	1.475533		-0.4	20
Carbon disulfide	A	50.00	50.82	0.7719104	0.7846213		1.6	20
Carbon tetrachloride	A	50.00	54.10	0.2166144	0.2343906		8.2	20
Chlorobenzene	A	50.00	48.60	1.190854	1.157475	0.3	-2.8	20
Chloroethane	A	50.00	48.41	0.1358005	0.1314827		-3.2	20
Chloroform	A	50.00	48.23	0.4338516	0.4184735		-3.5	20
Chloromethane	A	50.00	48.80	0.2676241	0.2612197	0.1	-2.4	20
2-Chlorotoluene	A	50.00	49.12	1.799004	1.767389		-1.8	20
4-Chlorotoluene	A	50.00	49.75	2.06292	2.052673		-0.5	20
Dibromochloromethane	A	50.00	44.09	0.5018898	0.4425375		-11.8	20
1,2-Dibromo-3-chloropropane	A	50.00	55.74	0.1228377	0.1369322		11.5	20
1,2-Dibromoethane (EDB)	A	50.00	48.68	0.5215653	0.507777		-2.6	20
Dibromomethane	A	50.00	49.38	0.1720389	0.1699204		-1.2	20
1,2-Dichlorobenzene	A	50.00	47.80	1.018357	0.9735485		-4.4	20
1,3-Dichlorobenzene	A	50.00	51.51	1.00432	1.034634		3.0	20
1,4-Dichlorobenzene	A	50.00	47.84	1.055332	1.009836		-4.3	20
Dichlorodifluoromethane	A	50.00	55.68	0.2308271	0.2570339		11.4	20
1,1-Dichloroethane	A	50.00	50.31	0.4514117	0.4542069	0.1	0.6	20
1,2-Dichloroethane	A	50.00	50.33	0.3029894	0.3049992		0.7	20
1,1-Dichloroethene	A	50.00	57.38	0.1870399	0.2146448		14.8	20
cis-1,2-Dichloroethene	A	50.00	49.63	0.2553761	0.2534843		-0.7	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1195002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	07/08/11 12:44
Sequence:	1G19304	Injection Date:	07/08/11
Lab Sample ID:	1G19304-ICV1	Injection Time:	16:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	50.00	52.67	0.2161992	0.2277274		5.3	20
1,2-Dichloropropane	A	50.00	47.14	0.2705653	0.2550962		-5.7	20
1,3-Dichloropropane	A	50.00	48.70	0.8726924	0.8500232		-2.6	20
2,2-Dichloropropane	A	50.00	49.82	0.2934111	0.2923779		-0.4	20
1,1-Dichloropropene	A	50.00	51.70	0.3018755	0.3121455		3.4	20
cis-1,3-Dichloropropene	A	50.00	49.08	0.3914653	0.3842388		-1.8	20
trans-1,3-Dichloropropene	A	50.00	53.68	0.7529119	0.8083021		7.4	20
Ethylbenzene	A	50.00	47.61	2.064361	1.965682		-4.8	20
Isopropylbenzene	A	50.00	52.45	1.489084	1.562038		4.9	20
p-Isopropyltoluene	A	50.00	53.90	1.355112	1.460905		7.8	20
Methylene chloride	A	50.00	47.47	0.2887482	0.274122		-5.1	20
Naphthalene	A	50.00	56.99	0.882647	1.006075		14.0	20
Methyl t-Butyl Ether	A	50.00	47.89	0.6187643	0.5926993		-4.2	20
n-Propylbenzene	A	50.00	50.64	2.780836	2.816593		1.3	20
Styrene	A	50.00	49.98	1.263008	1.262465		-0.04	20
1,1,2,2-Tetrachloroethane	A	50.00	47.33	0.7965121	0.7539342	0.3	-5.3	20
1,1,1,2-Tetrachloroethane	A	50.00	48.74	0.412827	0.4024046		-2.5	20
Tetrachloroethene	A	50.00	50.57	0.4520268	0.4571735		1.1	20
Toluene	A	50.00	48.54	1.139158	1.105983		-2.9	20
1,2,3-Trichlorobenzene	A	50.00	54.68	0.4706599	0.5147446		9.4	20
1,2,4-Trichlorobenzene	A	50.00	52.12	0.5123127	0.5340226		4.2	20
1,1,2-Trichloroethane	A	50.00	45.93	0.4610956	0.4235819		-8.1	20
1,1,1-Trichloroethane	A	50.00	51.77	0.2939587	0.3043788		3.5	20
Trichloroethene	A	50.00	52.88	0.2332774	0.2467362		5.8	20
Trichlorofluoromethane	A	50.00	52.31	0.3080679	0.3223095		4.6	20
1,2,3-Trichloropropane	A	50.00	47.28	0.1483521	0.1402867		-5.4	20
1,3,5-Trimethylbenzene	A	50.00	50.67	1.642819	1.664957		1.3	20
1,2,4-Trimethylbenzene	A	50.00	50.83	1.586171	1.612443		1.7	20
Vinyl chloride	A	50.00	47.64	0.145463	0.138586		-4.7	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1195002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	07/08/11 12:44
Sequence:	1G19304	Injection Date:	07/08/11
Lab Sample ID:	1G19304-ICV1	Injection Time:	16:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
m,p-Xylene	A	100.0	98.25	1.473477	1.447626		-1.8	20
o-Xylene	A	50.00	47.48	1.609147	1.528206		-5.0	20
Bromofluorobenzene	A	30.00	33.08	0.8125796	0.8958827		10.3	20
Dibromofluoromethane	A	30.00	31.79	0.2777307	0.2943197		6.0	20
1,2-Dichloroethane-d4	A	30.00	33.04	6.228947E-02	6.859232E-02		10.1	20
Toluene-d8	A	30.00	33.30	1.935421	2.14833		11.0	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1195002
Lab File ID:	SEQ-ICV2.D	Calibration Date:	07/08/11 12:44
Sequence:	1G19304	Injection Date:	07/08/11
Lab Sample ID:	1G19304-ICV2	Injection Time:	16:56

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Hexachlorobutadiene	A	100.0	117.9	0.2607974	0.3073833		17.9	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1195002
Lab File ID:	SEQ-ICV3.D	Calibration Date:	07/08/11 12:44
Sequence:	1G19304	Injection Date:	07/08/11
Lab Sample ID:	1G19304-ICV3	Injection Time:	21:08

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	100.0	99.05	6.709974E-02	6.646215E-02		-1.0	20
2-Butanone	A	100.0	104.2	0.1043114	0.1087101		4.2	20
2-Hexanone	A	100.0	109.4	0.3167243	0.3464595		9.4	20
4-Methyl-2-pentanone	A	100.0	107.5	0.1998899	0.2148384		7.5	20
Bromofluorobenzene	A	30.00	31.63	0.8125796	0.8567231		5.4	20
Dibromofluoromethane	A	30.00	31.76	0.2777307	0.2940554		5.9	20
1,2-Dichloroethane-d4	A	30.00	31.55	6.228947E-02	6.550192E-02		5.2	20
Toluene-d8	A	30.00	32.53	1.935421	2.0984		8.4	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	0715ICV2.D	Calibration Date:	07/15/11 07:34
Sequence:	1G19702	Injection Date:	07/15/11
Lab Sample ID:	1G19702-ICV2	Injection Time:	12:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	100.0	101.7	0.9042844	0.9200314		1.7	20
Bromobenzene	A	100.0	105.7	0.649784	0.6869916		5.7	20
Bromochloromethane	A	100.0	103.7	0.135596	0.1405509		3.7	20
Bromodichloromethane	A	100.0	111.2	0.3693912	0.4109406		11.2	20
Bromoform	L	100.0	94.72	0.4457817	0.5601173	0.1	-5.3	20
Bromomethane	L	100.0	98.22	0.1432738	0.1708864		-1.8	20
n-Butylbenzene	A	100.0	108.1	1.63338	1.764917		8.1	20
sec-Butylbenzene	A	100.0	108.4	1.945018	2.107875		8.4	20
tert-Butylbenzene	A	100.0	105.7	1.637174	1.730076		5.7	20
Carbon disulfide	A	100.0	110.1	0.4975247	0.5480012		10.1	20
Carbon tetrachloride	A	100.0	108.2	0.3996617	0.4325231		8.2	20
Chlorobenzene	A	100.0	106.7	1.298758	1.385604	0.3	6.7	20
Chloroethane	A	100.0	107.0	0.1141797	0.1221963		7.0	20
Chloroform	A	100.0	100.2	0.519736	0.5209313		0.2	20
Chloromethane	A	100.0	95.69	0.2182924	0.2088829	0.1	-4.3	20
2-Chlorotoluene	A	100.0	107.0	1.702465	1.821056		7.0	20
4-Chlorotoluene	A	100.0	107.2	1.990602	2.13381		7.2	20
Dibromochloromethane	L	100.0	95.86	0.5980214	0.7134088		-4.1	20
1,2-Dibromo-3-chloropropane	L	100.0	93.99	0.1228865	0.1508638		-6.0	20
1,2-Dibromoethane (EDB)	A	100.0	110.2	0.5085674	0.5606116		10.2	20
Dibromomethane	A	100.0	104.5	0.180141	0.1882927		4.5	20
1,2-Dichlorobenzene	A	100.0	105.7	1.078607	1.139931		5.7	20
1,3-Dichlorobenzene	A	100.0	107.9	1.101378	1.187846		7.9	20
1,4-Dichlorobenzene	A	100.0	105.7	1.14648	1.211705		5.7	20
Dichlorodifluoromethane	A	100.0	105.3	0.3068391	0.3232371		5.3	20
1,1-Dichloroethane	A	100.0	104.3	0.431906	0.4504416	0.1	4.3	20
1,2-Dichloroethane	A	100.0	104.3	0.4264077	0.4447132		4.3	20
1,1-Dichloroethene	A	100.0	105.7	0.1492329	0.157756		5.7	20
cis-1,2-Dichloroethene	A	100.0	102.2	0.2503875	0.2559942		2.2	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	0715ICV2.D	Calibration Date:	07/15/11 07:34
Sequence:	1G19702	Injection Date:	07/15/11
Lab Sample ID:	1G19702-ICV2	Injection Time:	12:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	100.0	98.42	0.2240218	0.2204815		-1.6	20
1,2-Dichloropropane	A	100.0	103.9	0.216359	0.2248706		3.9	20
1,3-Dichloropropane	A	100.0	108.7	0.8502119	0.9243262		8.7	20
2,2-Dichloropropane	A	100.0	98.79	0.4364498	0.4311686		-1.2	20
1,1-Dichloropropene	A	100.0	102.6	0.3553169	0.3643881		2.6	20
cis-1,3-Dichloropropene	A	100.0	107.1	0.411869	0.4410133		7.1	20
trans-1,3-Dichloropropene	A	100.0	111.9	0.8172756	0.9146172		11.9	20
Ethylbenzene	A	100.0	107.4	2.419758	2.599898		7.4	20
Hexachlorobutadiene	A	100.0	110.3	0.3828814	0.4223726		10.3	20
Isopropylbenzene	A	100.0	109.0	1.787967	1.948852		9.0	20
p-Isopropyltoluene	A	100.0	106.8	1.658073	1.770082		6.8	20
Methylene chloride	A	100.0	103.1	0.1860977	0.1918073		3.1	20
Naphthalene	A	100.0	113.3	1.369554	1.552153		13.3	20
Methyl t-Butyl Ether	A	100.0	103.7	0.750083	0.7778079		3.7	20
n-Propylbenzene	A	100.0	107.4	2.615418	2.809331		7.4	20
Styrene	A	100.0	108.2	1.325255	1.433605		8.2	20
1,1,2,2-Tetrachloroethane	A	100.0	108.7	0.5949751	0.6468653	0.3	8.7	20
1,1,1,2-Tetrachloroethane	L	100.0	98.57	0.5474485	0.6248012		-1.4	20
Tetrachloroethene	A	100.0	106.3	0.5708118	0.6069258		6.3	20
Toluene	A	100.0	103.3	1.135262	1.172271		3.3	20
1,2,3-Trichlorobenzene	A	100.0	111.8	0.6340517	0.7087267		11.8	20
1,2,4-Trichlorobenzene	A	100.0	111.4	0.6888209	0.7671985		11.4	20
1,1,2-Trichloroethane	A	100.0	108.1	0.3952658	0.4272343		8.1	20
1,1,1-Trichloroethane	A	100.0	105.8	0.4415644	0.4671973		5.8	20
Trichloroethene	A	100.0	103.3	0.2563099	0.2647816		3.3	20
Trichlorofluoromethane	A	100.0	108.3	0.4264743	0.4620172		8.3	20
1,2,3-Trichloropropane	A	100.0	109.1	0.1829839	0.1996483		9.1	20
1,3,5-Trimethylbenzene	A	100.0	109.3	1.744294	1.905883		9.3	20
1,2,4-Trimethylbenzene	A	100.0	108.8	1.745256	1.8989		8.8	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	0715ICV2.D	Calibration Date:	07/15/11 07:34
Sequence:	1G19702	Injection Date:	07/15/11
Lab Sample ID:	1G19702-ICV2	Injection Time:	12:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	100.0	106.5	0.1553111	0.1653436		6.5	20
m,p-Xylene	A	200.0	212.0	1.862007	1.973776		6.0	20
o-Xylene	A	100.0	107.8	1.985624	2.140637		7.8	20
Bromofluorobenzene	A	30.00	34.25	0.8344153	0.9525504		14.2	20
Dibromofluoromethane	A	30.00	30.70	0.3254106	0.3329621		2.3	20
1,2-Dichloroethane-d4	A	30.00	29.22	6.267093E-02	6.104631E-02		-2.6	20
Toluene-d8	A	30.00	33.98	1.912359	2.166365		13.3	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	0715ICV3.D	Calibration Date:	07/15/11 07:34
Sequence:	1G19702	Injection Date:	07/15/11
Lab Sample ID:	1G19702-ICV3	Injection Time:	16:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	100.0	97.68	8.655942E-02	8.455462E-02		-2.3	20
2-Butanone	A	100.0	98.59	0.130893	0.1290504		-1.4	20
2-Hexanone	A	100.0	99.43	0.3835157	0.3813258		-0.6	20
4-Methyl-2-pentanone	A	100.0	99.61	0.2576867	0.2566723		-0.4	20
Bromofluorobenzene	A	30.00	31.52	0.8344153	0.8768167		5.1	20
Dibromofluoromethane	A	30.00	31.08	0.3254106	0.3371173		3.6	20
1,2-Dichloroethane-d4	A	30.00	30.35	6.267093E-02	6.340863E-02		1.2	20
Toluene-d8	A	30.00	31.38	1.912359	2.000274		4.6	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	08/16/11 10:01
Sequence:	1H22902	Injection Date:	08/16/11
Lab Sample ID:	1H22902-ICV1	Injection Time:	14:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	L	100.0	98.71	0.0575418	5.316704E-02		-1.3	20
Benzene	A	50.00	53.96	0.5617921	0.6063276		7.9	20
Bromobenzene	A	50.00	52.57	0.6787183	0.7135491		5.1	20
Bromochloromethane	A	50.00	52.20	0.1100621	0.1149077		4.4	20
Bromodichloromethane	A	50.00	50.32	0.2747333	0.2764884		0.6	20
Bromoform	A	50.00	52.06	0.5489907	0.5716013	0.1	4.1	20
Bromomethane	A	50.00	48.26	0.1624106	0.1567505		-3.5	20
n-Butylbenzene	A	50.00	50.81	1.091296	1.109061		1.6	20
2-Butanone	A	100.0	103.4	6.628659E-02	6.851206E-02		3.4	20
sec-Butylbenzene	A	50.00	50.45	1.745914	1.761471		0.9	20
tert-Butylbenzene	A	50.00	53.32	1.239993	1.322425		6.6	20
Carbon disulfide	A	50.00	45.83	0.3963281	0.3632617		-8.3	20
Carbon tetrachloride	A	50.00	50.61	0.1967035	0.1990854		1.2	20
Chlorobenzene	A	50.00	47.19	1.789098	1.688522	0.3	-5.6	20
Chloroethane	L	50.00	50.58	6.618182E-02	7.347878E-02		1.2	20
Chloroform	A	50.00	49.32	0.3657383	0.3607433		-1.4	20
Chloromethane	A	50.00	42.73	0.1379611	0.1179008	0.1	-14.5	20
2-Chlorotoluene	A	50.00	54.50	1.416661	1.544131		9.0	20
4-Chlorotoluene	A	50.00	53.30	1.670036	1.780117		6.6	20
Dibromochloromethane	A	50.00	50.52	0.5962943	0.6025268		1.0	20
1,2-Dibromo-3-chloropropane	A	50.00	50.87	0.130454	0.1327162		1.7	20
1,2-Dibromoethane (EDB)	A	50.00	50.74	0.7842657	0.7959137		1.5	20
Dibromomethane	A	50.00	51.06	0.1670466	0.1705836		2.1	20
1,2-Dichlorobenzene	A	50.00	52.89	0.9132796	0.9660562		5.8	20
1,3-Dichlorobenzene	A	50.00	51.66	0.933043	0.9640874		3.3	20
1,4-Dichlorobenzene	A	50.00	52.84	0.9629043	1.017672		5.7	20
1,1-Dichloroethane	A	50.00	56.55	0.2268701	0.256599	0.1	13.1	20
1,2-Dichloroethane	A	50.00	52.27	0.267094	0.279226		4.5	20
1,1-Dichloroethene	A	50.00	47.72	0.1984207	0.1893773		-4.6	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	08/16/11 10:01
Sequence:	1H22902	Injection Date:	08/16/11
Lab Sample ID:	1H22902-ICV1	Injection Time:	14:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
cis-1,2-Dichloroethene	A	50.00	52.51	0.2557099	0.2685659		5.0	20
trans-1,2-Dichloroethene	A	50.00	49.52	0.2297347	0.2275228		-1.0	20
1,2-Dichloropropane	A	50.00	55.97	0.1055341	0.1181415		11.9	20
1,3-Dichloropropane	A	50.00	53.71	0.702035	0.7541909		7.4	20
2,2-Dichloropropane	A	50.00	48.40	0.2311142	0.2237417		-3.2	20
1,1-Dichloropropene	A	50.00	52.20	0.1957866	0.204418		4.4	20
cis-1,3-Dichloropropene	A	50.00	54.69	0.2482491	0.271537		9.4	20
trans-1,3-Dichloropropene	A	50.00	46.24	0.8209591	0.7592461		-7.5	20
Ethylbenzene	A	50.00	50.56	2.499288	2.527363		1.1	20
Hexachlorobutadiene	A	50.00	56.46	0.1319488	0.1489939		12.9	20
2-Hexanone	A	100.0	103.7	0.2701311	0.2801868		3.7	20
Isopropylbenzene	A	50.00	47.55	2.094953	1.992431		-4.9	20
p-Isopropyltoluene	A	50.00	49.17	1.243997	1.223463		-1.7	20
Methylene chloride	A	50.00	50.49	0.2168724	0.2189876		1.0	20
Naphthalene	A	50.00	51.62	0.9149282	0.944605		3.2	20
4-Methyl-2-pentanone	A	100.0	106.3	0.1267146	0.1347505		6.3	20
Methyl t-Butyl Ether	A	50.00	52.94	0.4253933	0.4504423		5.9	20
n-Propylbenzene	A	50.00	53.59	2.070466	2.219243		7.2	20
Styrene	A	50.00	50.75	1.924134	1.952997		1.5	20
1,1,2,2-Tetrachloroethane	A	50.00	54.02	0.4765921	0.514945	0.3	8.0	20
1,1,1,2-Tetrachloroethane	A	50.00	48.98	0.4637096	0.4542102		-2.0	20
Tetrachloroethene	A	50.00	48.89	0.6566482	0.6421208		-2.2	20
Toluene	A	50.00	49.50	1.437624	1.4233		-1.0	20
1,2,3-Trichlorobenzene	A	50.00	52.69	0.423201	0.445949		5.4	20
1,2,4-Trichlorobenzene	A	50.00	51.79	0.5127504	0.531075		3.6	20
1,1,2-Trichloroethane	A	50.00	51.41	0.4387015	0.4510501		2.8	20
1,1,1-Trichloroethane	A	50.00	53.31	0.262971	0.2803799		6.6	20
Trichloroethene	A	50.00	50.30	0.2353264	0.2367572		0.6	20
Trichlorofluoromethane	A	50.00	49.28	0.2780621	0.2740406		-1.4	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	08/16/11 10:01
Sequence:	1H22902	Injection Date:	08/16/11
Lab Sample ID:	1H22902-ICV1	Injection Time:	14:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2,3-Trichloropropane	A	50.00	52.05	0.189917	0.1977073		4.1	20
1,3,5-Trimethylbenzene	A	50.00	54.38	1.551444	1.687369		8.8	20
1,2,4-Trimethylbenzene	A	50.00	52.62	1.601946	1.685742		5.2	20
Vinyl chloride	A	50.00	49.86	0.1376198	0.1372388		-0.3	20
m,p-Xylene	A	100.0	101.5	1.916489	1.944543		1.5	20
o-Xylene	A	50.00	51.51	2.016979	2.077905		3.0	20
Bromofluorobenzene	A	30.00	32.13	1.084841	1.161882		7.1	20
Dibromofluoromethane	A	30.00	32.13	0.3026546	0.324095		7.1	20
1,2-Dichloroethane-d4	A	30.00	30.56	6.424239E-02	6.544706E-02		1.9	20
Toluene-d8	A	30.00	30.55	2.688003	2.73718		1.8	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	SEQ-ICV2.D	Calibration Date:	08/16/11 10:01
Sequence:	1H22902	Injection Date:	08/16/11
Lab Sample ID:	1H22902-ICV2	Injection Time:	15:12

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Dichlorodifluoromethane	A	100.0	84.42	0.1987127	0.1677522		-15.6	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	0813CCV1.D	Calibration Date:	07/15/11 07:34
Sequence:	1H22602	Injection Date:	08/13/11
Lab Sample ID:	1H22602-CCV1	Injection Time:	06:58

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	191.4	8.655942E-02	8.281989E-02		-4.3	20
Benzene	A	100.0	100.5	0.9042844	0.9091951		0.5	20
Bromobenzene	A	100.0	106.2	0.649784	0.6898591		6.2	20
Bromochloromethane	A	100.0	104.0	0.135596	0.1410991		4.1	20
Bromodichloromethane	A	100.0	109.9	0.3693912	0.4059894		9.9	20
Bromoform	L	100.0	95.21	0.4457817	0.563108	0.1	-4.8	20
Bromomethane	L	100.0	61.91	0.1432738	0.1064564		-38.1	20 *
n-Butylbenzene	A	100.0	114.6	1.63338	1.872225		14.6	20
2-Butanone	A	200.0	218.5	0.130893	0.1430038		9.3	20
sec-Butylbenzene	A	100.0	110.6	1.945018	2.151087		10.6	20
tert-Butylbenzene	A	100.0	107.5	1.637174	1.759581		7.5	20
Carbon disulfide	A	100.0	126.9	0.4975247	0.6315523		26.9	20 *
Carbon tetrachloride	A	100.0	103.3	0.3996617	0.4127594		3.3	20
Chlorobenzene	A	100.0	111.2	1.298758	1.444664	0.3	11.2	20
Chloroethane	A	100.0	113.6	0.1141797	0.129694		13.6	20
Chloroform	A	100.0	96.42	0.519736	0.5011319		-3.6	20
Chloromethane	A	100.0	85.35	0.2182924	0.1863222	0.1	-14.6	20
2-Chlorotoluene	A	100.0	111.6	1.702465	1.899775		11.6	20
4-Chlorotoluene	A	100.0	110.4	1.990602	2.196793		10.4	20
Dibromochloromethane	L	100.0	102.5	0.5980214	0.7643168		2.5	20
1,2-Dibromo-3-chloropropane	L	100.0	93.07	0.1228865	0.1493459		-6.9	20
1,2-Dibromoethane (EDB)	A	100.0	111.4	0.5085674	0.566333		11.4	20
Dibromomethane	A	100.0	100.5	0.180141	0.1809943		0.5	20
1,2-Dichlorobenzene	A	100.0	108.0	1.078607	1.165337		8.0	20
1,3-Dichlorobenzene	A	100.0	111.0	1.101378	1.22199		11.0	20
1,4-Dichlorobenzene	A	100.0	109.4	1.14648	1.254463		9.4	20
Dichlorodifluoromethane	A	100.0	105.0	0.3068391	0.3220449		5.0	20
1,1-Dichloroethane	A	100.0	105.0	0.431906	0.4536268	0.1	5.0	20
1,2-Dichloroethane	A	100.0	100.9	0.4264077	0.4303615		0.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	0813CCV1.D	Calibration Date:	07/15/11 07:34
Sequence:	1H22602	Injection Date:	08/13/11
Lab Sample ID:	1H22602-CCV1	Injection Time:	06:58

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	111.2	0.1492329	0.1659999		11.2	20
cis-1,2-Dichloroethene	A	100.0	103.2	0.2503875	0.25839		3.2	20
trans-1,2-Dichloroethene	A	100.0	102.1	0.2240218	0.2287421		2.1	20
1,2-Dichloropropane	A	100.0	99.40	0.216359	0.2150652		-0.6	20
1,3-Dichloropropane	A	100.0	117.0	0.8502119	0.9944718		17.0	20
2,2-Dichloropropane	A	100.0	104.8	0.4364498	0.4573896		4.8	20
1,1-Dichloropropene	A	100.0	101.2	0.3553169	0.3595065		1.2	20
cis-1,3-Dichloropropene	A	100.0	103.8	0.411869	0.4276479		3.8	20
trans-1,3-Dichloropropene	A	100.0	126.8	0.8172756	1.036113		26.8	20 *
Ethylbenzene	A	100.0	110.6	2.419758	2.675206		10.6	20
Hexachlorobutadiene	A	100.0	111.4	0.3828814	0.426706		11.4	20
2-Hexanone	A	200.0	249.3	0.3835157	0.4781		24.7	20 *
Isopropylbenzene	A	100.0	114.2	1.787967	2.041537		14.2	20
p-Isopropyltoluene	A	100.0	115.2	1.658073	1.909557		15.2	20
Methylene chloride	A	100.0	106.7	0.1860977	0.1985199		6.7	20
Naphthalene	A	100.0	107.6	1.369554	1.473924		7.6	20
4-Methyl-2-pentanone	A	200.0	208.6	0.2576867	0.2687345		4.3	20
Methyl t-Butyl Ether	A	100.0	102.5	0.750083	0.7690863		2.5	20
n-Propylbenzene	A	100.0	109.8	2.615418	2.871012		9.8	20
Styrene	A	100.0	111.7	1.325255	1.479961		11.7	20
1,1,2,2-Tetrachloroethane	A	100.0	110.3	0.5949751	0.6560845	0.3	10.3	20
1,1,1,2-Tetrachloroethane	L	100.0	102.2	0.5474485	0.6480819		2.2	20
Tetrachloroethene	A	100.0	111.3	0.5708118	0.6354822		11.3	20
Toluene	A	100.0	107.8	1.135262	1.223905		7.8	20
1,2,3-Trichlorobenzene	A	100.0	108.2	0.6340517	0.6859869		8.2	20
1,2,4-Trichlorobenzene	A	100.0	111.3	0.6888209	0.7668707		11.3	20
1,1,2-Trichloroethane	A	100.0	113.5	0.3952658	0.4486904		13.5	20
1,1,1-Trichloroethane	A	100.0	98.86	0.4415644	0.4365506		-1.1	20
Trichloroethene	A	100.0	98.37	0.2563099	0.2521417		-1.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	0813CCV1.D	Calibration Date:	07/15/11 07:34
Sequence:	1H22602	Injection Date:	08/13/11
Lab Sample ID:	1H22602-CCV1	Injection Time:	06:58

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	108.1	0.4264743	0.461014		8.1	20
1,2,3-Trichloropropane	A	100.0	110.3	0.1829839	0.2019187		10.3	20
1,3,5-Trimethylbenzene	A	100.0	110.1	1.744294	1.920608		10.1	20
1,2,4-Trimethylbenzene	A	100.0	108.9	1.745256	1.900412		8.9	20
Vinyl chloride	A	100.0	102.2	0.1553111	0.1587116		2.2	20
m,p-Xylene	A	200.0	213.0	1.862007	1.982676		6.5	20
o-Xylene	A	100.0	112.2	1.985624	2.228013		12.2	20
Bromofluorobenzene	A	30.00	34.08	0.8344153	0.9478817		13.6	20
Dibromofluoromethane	A	30.00	29.02	0.3254106	0.3148308		-3.3	20
1,2-Dichloroethane-d4	A	30.00	28.87	6.267093E-02	6.030269E-02		-3.8	20
Toluene-d8	A	30.00	35.48	1.912359	2.261623		18.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1195002
Lab File ID:	0814CCV1.D	Calibration Date:	07/08/11 12:44
Sequence:	1H22802	Injection Date:	08/14/11
Lab Sample ID:	1H22802-CCV1	Injection Time:	08:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	294.5	6.709974E-02	0.0988158		47.3	20 *
Benzene	A	100.0	114.5	0.8768157	1.003691		14.5	20
Bromobenzene	A	100.0	98.25	0.6668538	0.6551875		-1.7	20
Bromochloromethane	A	100.0	101.0	0.118355	0.119545		1.0	20
Bromodichloromethane	A	100.0	121.6	0.3124801	0.3798771		21.6	20 *
Bromoform	A	100.0	86.46	0.3546153	0.3065878	0.1	-13.5	20
Bromomethane	A	100.0	100.9	0.1609344	0.1623661		0.9	20
n-Butylbenzene	A	100.0	117.1	1.360543	1.593387		17.1	20
2-Butanone	A	200.0	360.7	0.1043114	0.1881439		80.4	20 *
sec-Butylbenzene	A	100.0	117.8	1.986439	2.341152		17.9	20
tert-Butylbenzene	A	100.0	108.7	1.481931	1.611507		8.7	20
Carbon disulfide	A	100.0	122.9	0.7719104	0.9488805		22.9	20 *
Carbon tetrachloride	A	100.0	128.7	0.2166144	0.2787479		28.7	20 *
Chlorobenzene	A	100.0	95.08	1.190854	1.132257	0.3	-4.9	20
Chloroethane	A	100.0	127.7	0.1358005	0.1734385		27.7	20 *
Chloroform	A	100.0	109.8	0.4338516	0.4764143		9.8	20
Chloromethane	A	100.0	141.6	0.2676241	0.3790114	0.1	41.6	20 *
2-Chlorotoluene	A	100.0	115.5	1.799004	2.078465		15.5	20
4-Chlorotoluene	A	100.0	111.0	2.06292	2.289538		11.0	20
Dibromochloromethane	A	100.0	99.16	0.5018898	0.4976973		-0.8	20
1,2-Dibromo-3-chloropropane	A	100.0	106.0	0.1228377	0.1302598		6.0	20
1,2-Dibromoethane (EDB)	A	100.0	96.84	0.5215653	0.5051097		-3.2	20
Dibromomethane	A	100.0	109.3	0.1720389	0.1881229		9.3	20
1,2-Dichlorobenzene	A	100.0	99.06	1.018357	1.008772		-0.9	20
1,3-Dichlorobenzene	A	100.0	105.0	1.00432	1.05439		5.0	20
1,4-Dichlorobenzene	A	100.0	96.93	1.055332	1.022895		-3.1	20
Dichlorodifluoromethane	A	100.0	133.1	0.2308271	0.307339		33.1	20 *
1,1-Dichloroethane	A	100.0	124.8	0.4514117	0.5635707	0.1	24.8	20 *
1,2-Dichloroethane	A	100.0	129.6	0.3029894	0.3926838		29.6	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1195002
Lab File ID:	0814CCV1.D	Calibration Date:	07/08/11 12:44
Sequence:	1H22802	Injection Date:	08/14/11
Lab Sample ID:	1H22802-CCV1	Injection Time:	08:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	115.1	0.1870399	0.2152894		15.1	20
cis-1,2-Dichloroethene	A	100.0	108.2	0.2553761	0.2762679		8.2	20
trans-1,2-Dichloroethene	A	100.0	114.1	0.2161992	0.2466705		14.1	20
1,2-Dichloropropane	A	100.0	119.4	0.2705653	0.3231061		19.4	20
1,3-Dichloropropane	A	100.0	97.44	0.8726924	0.8503129		-2.6	20
2,2-Dichloropropane	A	100.0	136.5	0.2934111	0.4005588		36.5	20 *
1,1-Dichloropropene	A	100.0	110.6	0.3018755	0.3338997		10.6	20
cis-1,3-Dichloropropene	A	100.0	116.2	0.3914653	0.4547647		16.2	20
trans-1,3-Dichloropropene	A	100.0	112.3	0.7529119	0.8453051		12.3	20
Ethylbenzene	A	100.0	100.2	2.064361	2.068654		0.2	20
Hexachlorobutadiene	A	100.0	110.5	0.2607974	0.2881831		10.5	20
2-Hexanone	A	200.0	275.0	0.3167243	0.4355304		37.5	20 *
Isopropylbenzene	A	100.0	106.1	1.489084	1.580451		6.1	20
p-Isopropyltoluene	A	100.0	114.3	1.355112	1.549243		14.3	20
Methylene chloride	A	100.0	98.53	0.2887482	0.2845151		-1.5	20
Naphthalene	A	100.0	96.05	0.882647	0.8478148		-3.9	20
4-Methyl-2-pentanone	A	200.0	298.9	0.1998899	0.2987284		49.4	20 *
Methyl t-Butyl Ether	A	100.0	118.2	0.6187643	0.7314688		18.2	20
n-Propylbenzene	A	100.0	113.5	2.780836	3.156096		13.5	20
Styrene	A	100.0	98.48	1.263008	1.24378		-1.5	20
1,1,2,2-Tetrachloroethane	A	100.0	115.6	0.7965121	0.9211308	0.3	15.6	20
1,1,1,2-Tetrachloroethane	A	100.0	95.00	0.412827	0.3922075		-5.0	20
Tetrachloroethene	A	100.0	85.27	0.4520268	0.3854255		-14.7	20
Toluene	A	100.0	99.34	1.139158	1.131622		-0.7	20
1,2,3-Trichlorobenzene	A	100.0	79.95	0.4706599	0.3762751		-20.1	20 *
1,2,4-Trichlorobenzene	A	100.0	83.51	0.5123127	0.4278215		-16.5	20
1,1,2-Trichloroethane	A	100.0	92.17	0.4610956	0.4250082		-7.8	20
1,1,1-Trichloroethane	A	100.0	121.8	0.2939587	0.358151		21.8	20 *
Trichloroethene	A	100.0	112.7	0.2332774	0.2629568		12.7	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1195002
Lab File ID:	0814CCV1.D	Calibration Date:	07/08/11 12:44
Sequence:	1H22802	Injection Date:	08/14/11
Lab Sample ID:	1H22802-CCV1	Injection Time:	08:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	128.3	0.3080679	0.3952899		28.3	20 *
1,2,3-Trichloropropane	A	100.0	93.80	0.1483521	0.1391592		-6.2	20
1,3,5-Trimethylbenzene	A	100.0	107.3	1.642819	1.762237		7.3	20
1,2,4-Trimethylbenzene	A	100.0	105.4	1.586171	1.671574		5.4	20
Vinyl chloride	A	100.0	97.18	0.145463	0.1413591		-2.8	20
m,p-Xylene	A	200.0	197.4	1.473477	1.45398		-1.3	20
o-Xylene	A	100.0	96.78	1.609147	1.557271		-3.2	20
Bromofluorobenzene	A	30.00	34.11	0.8125796	0.9238619		13.7	20
Dibromofluoromethane	A	30.00	33.52	0.2777307	0.310298		11.7	20
1,2-Dichloroethane-d4	A	30.00	29.16	6.228947E-02	6.053682E-02		-2.8	20
Toluene-d8	A	30.00	30.70	1.935421	1.980932		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

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	814CCV1.D	Calibration Date:	07/15/11 07:34
Sequence:	1H22908	Injection Date:	08/14/11
Lab Sample ID:	1H22908-CCV1	Injection Time:	18:50

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	187.6	8.655942E-02	0.0811803		-6.2	20
Benzene	A	100.0	103.6	0.9042844	0.9369749		3.6	20
Bromobenzene	A	100.0	106.4	0.649784	0.6912708		6.4	20
Bromochloromethane	A	100.0	106.9	0.135596	0.1449415		6.9	20
Bromodichloromethane	A	100.0	112.4	0.3693912	0.4152476		12.4	20
Bromoform	L	100.0	91.87	0.4457817	0.5427464	0.1	-8.1	20
Bromomethane	L	100.0	60.57	0.1432738	0.1040791		-39.4	20 *
n-Butylbenzene	A	100.0	112.8	1.63338	1.842638		12.8	20
2-Butanone	A	200.0	218.0	0.130893	0.14271		9.0	20
sec-Butylbenzene	A	100.0	112.2	1.945018	2.182222		12.2	20
tert-Butylbenzene	A	100.0	110.0	1.637174	1.801352		10.0	20
Carbon disulfide	A	100.0	131.3	0.4975247	0.6534129		31.3	20 *
Carbon tetrachloride	A	100.0	105.1	0.3996617	0.4199093		5.1	20
Chlorobenzene	A	100.0	107.2	1.298758	1.392089	0.3	7.2	20
Chloroethane	A	100.0	109.6	0.1141797	0.1251399		9.6	20
Chloroform	A	100.0	100.1	0.519736	0.5203673		0.1	20
Chloromethane	A	100.0	85.92	0.2182924	0.1875552	0.1	-14.1	20
2-Chlorotoluene	A	100.0	110.2	1.702465	1.87651		10.2	20
4-Chlorotoluene	A	100.0	109.8	1.990602	2.185716		9.8	20
Dibromochloromethane	L	100.0	100.4	0.5980214	0.747735		0.4	20
1,2-Dibromo-3-chloropropane	L	100.0	91.73	0.1228865	0.1471352		-8.3	20
1,2-Dibromoethane (EDB)	A	100.0	111.6	0.5085674	0.5673739		11.6	20
Dibromomethane	A	100.0	102.5	0.180141	0.1845779		2.5	20
1,2-Dichlorobenzene	A	100.0	107.3	1.078607	1.156936		7.3	20
1,3-Dichlorobenzene	A	100.0	107.7	1.101378	1.186171		7.7	20
1,4-Dichlorobenzene	A	100.0	105.5	1.14648	1.209779		5.5	20
Dichlorodifluoromethane	A	100.0	108.2	0.3068391	0.3321775		8.3	20
1,1-Dichloroethane	A	100.0	108.1	0.431906	0.4668201	0.1	8.1	20
1,2-Dichloroethane	A	100.0	107.2	0.4264077	0.4572997		7.2	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	814CCV1.D	Calibration Date:	07/15/11 07:34
Sequence:	1H22908	Injection Date:	08/14/11
Lab Sample ID:	1H22908-CCV1	Injection Time:	18:50

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	115.1	0.1492329	0.1717147		15.1	20
cis-1,2-Dichloroethene	A	100.0	105.6	0.2503875	0.2643829		5.6	20
trans-1,2-Dichloroethene	A	100.0	103.4	0.2240218	0.2316499		3.4	20
1,2-Dichloropropane	A	100.0	105.7	0.216359	0.22873		5.7	20
1,3-Dichloropropane	A	100.0	116.1	0.8502119	0.9870619		16.1	20
2,2-Dichloropropane	A	100.0	93.62	0.4364498	0.4086259		-6.4	20
1,1-Dichloropropene	A	100.0	104.8	0.3553169	0.3724394		4.8	20
cis-1,3-Dichloropropene	A	100.0	106.0	0.411869	0.4365966		6.0	20
trans-1,3-Dichloropropene	A	100.0	125.7	0.8172756	1.027003		25.7	20 *
Ethylbenzene	A	100.0	108.8	2.419758	2.63201		8.8	20
Hexachlorobutadiene	A	100.0	105.8	0.3828814	0.4053165		5.9	20
2-Hexanone	A	200.0	241.3	0.3835157	0.4626952		20.6	20 *
Isopropylbenzene	A	100.0	113.8	1.787967	2.034597		13.8	20
p-Isopropyltoluene	A	100.0	113.9	1.658073	1.888766		13.9	20
Methylene chloride	A	100.0	110.4	0.1860977	0.2054733		10.4	20
Naphthalene	A	100.0	112.8	1.369554	1.544366		12.8	20
4-Methyl-2-pentanone	A	200.0	207.6	0.2576867	0.2674449		3.8	20
Methyl t-Butyl Ether	A	100.0	105.1	0.750083	0.7883709		5.1	20
n-Propylbenzene	A	100.0	109.4	2.615418	2.86214		9.4	20
Styrene	A	100.0	108.6	1.325255	1.439473		8.6	20
1,1,2,2-Tetrachloroethane	A	100.0	111.8	0.5949751	0.6650491	0.3	11.8	20
1,1,1,2-Tetrachloroethane	L	100.0	98.58	0.5474485	0.6248547		-1.4	20
Tetrachloroethene	A	100.0	102.9	0.5708118	0.5872878		2.9	20
Toluene	A	100.0	108.9	1.135262	1.236385		8.9	20
1,2,3-Trichlorobenzene	A	100.0	108.8	0.6340517	0.6899229		8.8	20
1,2,4-Trichlorobenzene	A	100.0	110.8	0.6888209	0.7629894		10.8	20
1,1,2-Trichloroethane	A	100.0	113.0	0.3952658	0.4466915		13.0	20
1,1,1-Trichloroethane	A	100.0	101.8	0.4415644	0.4495557		1.8	20
Trichloroethene	A	100.0	101.9	0.2563099	0.2612673		1.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	814CCV1.D	Calibration Date:	07/15/11 07:34
Sequence:	1H22908	Injection Date:	08/14/11
Lab Sample ID:	1H22908-CCV1	Injection Time:	18:50

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	109.9	0.4264743	0.4688138		9.9	20
1,2,3-Trichloropropane	A	100.0	109.5	0.1829839	0.2004477		9.5	20
1,3,5-Trimethylbenzene	A	100.0	110.1	1.744294	1.92088		10.1	20
1,2,4-Trimethylbenzene	A	100.0	111.4	1.745256	1.944928		11.4	20
Vinyl chloride	A	100.0	107.2	0.1553111	0.1665683		7.2	20
m,p-Xylene	A	200.0	209.4	1.862007	1.949541		4.7	20
o-Xylene	A	100.0	108.4	1.985624	2.151451		8.4	20
Bromofluorobenzene	A	30.00	34.17	0.8344153	0.9505203		13.9	20
Dibromofluoromethane	A	30.00	30.15	0.3254106	0.327054		0.5	20
1,2-Dichloroethane-d4	A	30.00	29.72	6.267093E-02	6.208555E-02		-0.9	20
Toluene-d8	A	30.00	34.46	1.912359	2.196852		14.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	0813CCV2.D	Calibration Date:	07/15/11 07:34
Sequence:	1H23006	Injection Date:	08/13/11
Lab Sample ID:	1H23006-CCV1	Injection Time:	18:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	176.6	8.655942E-02	7.644708E-02		-11.7	20
Benzene	A	100.0	106.1	0.9042844	0.9597743		6.1	20
Bromobenzene	A	100.0	104.4	0.649784	0.6785504		4.4	20
Bromochloromethane	A	100.0	105.4	0.135596	0.1428561		5.4	20
Bromodichloromethane	A	100.0	112.4	0.3693912	0.4153186		12.4	20
Bromoform	L	100.0	90.60	0.4457817	0.5350253	0.1	-9.4	20
Bromomethane	L	100.0	53.54	0.1432738	9.160125E-02		-46.5	20 *
n-Butylbenzene	A	100.0	108.2	1.63338	1.766782		8.2	20
2-Butanone	A	200.0	226.0	0.130893	0.1478827		13.0	20
sec-Butylbenzene	A	100.0	107.0	1.945018	2.08159		7.0	20
tert-Butylbenzene	A	100.0	106.2	1.637174	1.738145		6.2	20
Carbon disulfide	A	100.0	127.2	0.4975247	0.6327592		27.2	20 *
Carbon tetrachloride	A	100.0	101.1	0.3996617	0.4040591		1.1	20
Chlorobenzene	A	100.0	108.2	1.298758	1.405421	0.3	8.2	20
Chloroethane	A	100.0	95.04	0.1141797	0.1085227		-5.0	20
Chloroform	A	100.0	100.3	0.519736	0.5213659		0.3	20
Chloromethane	A	100.0	69.10	0.2182924	0.1508323	0.1	-30.9	20 *
2-Chlorotoluene	A	100.0	105.6	1.702465	1.797435		5.6	20
4-Chlorotoluene	A	100.0	108.4	1.990602	2.158845		8.5	20
Dibromochloromethane	L	100.0	98.52	0.5980214	0.7336309		-1.5	20
1,2-Dibromo-3-chloropropane	L	100.0	91.15	0.1228865	0.1461782		-8.8	20
1,2-Dibromoethane (EDB)	A	100.0	110.4	0.5085674	0.561304		10.4	20
Dibromomethane	A	100.0	103.7	0.180141	0.1868124		3.7	20
1,2-Dichlorobenzene	A	100.0	105.0	1.078607	1.132513		5.0	20
1,3-Dichlorobenzene	A	100.0	106.0	1.101378	1.168039		6.1	20
1,4-Dichlorobenzene	A	100.0	103.6	1.14648	1.187851		3.6	20
Dichlorodifluoromethane	A	100.0	103.1	0.3068391	0.3162555		3.1	20
1,1-Dichloroethane	A	100.0	108.3	0.431906	0.4679195	0.1	8.3	20
1,2-Dichloroethane	A	100.0	104.1	0.4264077	0.4439771		4.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	0813CCV2.D	Calibration Date:	07/15/11 07:34
Sequence:	1H23006	Injection Date:	08/13/11
Lab Sample ID:	1H23006-CCV1	Injection Time:	18:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	106.2	0.1492329	0.1584783		6.2	20
cis-1,2-Dichloroethene	A	100.0	105.7	0.2503875	0.2647056		5.7	20
trans-1,2-Dichloroethene	A	100.0	104.8	0.2240218	0.2348374		4.8	20
1,2-Dichloropropane	A	100.0	108.4	0.216359	0.2345077		8.4	20
1,3-Dichloropropane	A	100.0	116.4	0.8502119	0.9895647		16.4	20
2,2-Dichloropropane	A	100.0	86.96	0.4364498	0.3795329		-13.0	20
1,1-Dichloropropene	A	100.0	101.9	0.3553169	0.3621553		1.9	20
cis-1,3-Dichloropropene	A	100.0	106.9	0.411869	0.4404114		6.9	20
trans-1,3-Dichloropropene	A	100.0	122.2	0.8172756	0.9983988		22.2	20 *
Ethylbenzene	A	100.0	105.3	2.419758	2.548202		5.3	20
Hexachlorobutadiene	A	100.0	99.46	0.3828814	0.380813		-0.5	20
2-Hexanone	A	200.0	242.6	0.3835157	0.4651426		21.3	20 *
Isopropylbenzene	A	100.0	109.6	1.787967	1.960563		9.7	20
p-Isopropyltoluene	A	100.0	109.4	1.658073	1.813142		9.4	20
Methylene chloride	A	100.0	105.6	0.1860977	0.1965108		5.6	20
Naphthalene	A	100.0	108.0	1.369554	1.479028		8.0	20
4-Methyl-2-pentanone	A	200.0	213.1	0.2576867	0.2745292		6.5	20
Methyl t-Butyl Ether	A	100.0	105.7	0.750083	0.7928032		5.7	20
n-Propylbenzene	A	100.0	108.3	2.615418	2.831504		8.3	20
Styrene	A	100.0	108.3	1.325255	1.434959		8.3	20
1,1,2,2-Tetrachloroethane	A	100.0	110.2	0.5949751	0.6559634	0.3	10.3	20
1,1,1,2-Tetrachloroethane	L	100.0	98.57	0.5474485	0.6248007		-1.4	20
Tetrachloroethene	A	100.0	100.2	0.5708118	0.5719074		0.2	20
Toluene	A	100.0	108.4	1.135262	1.23012		8.4	20
1,2,3-Trichlorobenzene	A	100.0	105.2	0.6340517	0.6669524		5.2	20
1,2,4-Trichlorobenzene	A	100.0	106.7	0.6888209	0.7348822		6.7	20
1,1,2-Trichloroethane	A	100.0	111.7	0.3952658	0.4415058		11.7	20
1,1,1-Trichloroethane	A	100.0	99.23	0.4415644	0.4381536		-0.8	20
Trichloroethene	A	100.0	101.7	0.2563099	0.2606412		1.7	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	0813CCV2.D	Calibration Date:	07/15/11 07:34
Sequence:	1H23006	Injection Date:	08/13/11
Lab Sample ID:	1H23006-CCV1	Injection Time:	18:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	102.8	0.4264743	0.4382428		2.8	20
1,2,3-Trichloropropane	A	100.0	107.6	0.1829839	0.1969864		7.7	20
1,3,5-Trimethylbenzene	A	100.0	106.5	1.744294	1.857004		6.5	20
1,2,4-Trimethylbenzene	A	100.0	108.7	1.745256	1.896864		8.7	20
Vinyl chloride	A	100.0	97.19	0.1553111	0.1509424		-2.8	20
m,p-Xylene	A	200.0	205.5	1.862007	1.913286		2.8	20
o-Xylene	A	100.0	106.6	1.985624	2.116943		6.6	20
Bromofluorobenzene	A	30.00	33.66	0.8344153	0.9363781		12.2	20
Dibromofluoromethane	A	30.00	30.05	0.3254106	0.326005		0.2	20
1,2-Dichloroethane-d4	A	30.00	29.63	6.267093E-02	6.190451E-02		-1.2	20
Toluene-d8	A	30.00	34.47	1.912359	2.197522		14.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	813CCV2X.D	Calibration Date:	07/15/11 07:34
Sequence:	1H23006	Injection Date:	08/14/11
Lab Sample ID:	1H23006-CCV2	Injection Time:	06:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	183.6	8.655942E-02	7.944952E-02		-8.2	20
Benzene	A	100.0	102.8	0.9042844	0.9297043		2.8	20
Bromobenzene	A	100.0	104.8	0.649784	0.6807535		4.8	20
Bromochloromethane	A	100.0	104.7	0.135596	0.1419462		4.7	20
Bromodichloromethane	A	100.0	111.5	0.3693912	0.4118857		11.5	20
Bromoform	L	100.0	92.18	0.4457817	0.5446614	0.1	-7.8	20
Bromomethane	L	100.0	37.53	0.1432738	6.318891E-02		-62.5	20 *
n-Butylbenzene	A	100.0	113.1	1.63338	1.84714		13.1	20
2-Butanone	A	200.0	212.9	0.130893	0.1393315		6.4	20
sec-Butylbenzene	A	100.0	111.0	1.945018	2.159046		11.0	20
tert-Butylbenzene	A	100.0	107.8	1.637174	1.764184		7.8	20
Carbon disulfide	A	100.0	126.6	0.4975247	0.6298883		26.6	20 *
Carbon tetrachloride	A	100.0	105.4	0.3996617	0.4214526		5.5	20
Chlorobenzene	A	100.0	109.1	1.298758	1.416611	0.3	9.1	20
Chloroethane	A	100.0	108.6	0.1141797	0.1240577		8.7	20
Chloroform	A	100.0	99.92	0.519736	0.5193009		-0.08	20
Chloromethane	A	100.0	79.04	0.2182924	0.1725476	0.1	-21.0	20 *
2-Chlorotoluene	A	100.0	109.7	1.702465	1.868347		9.7	20
4-Chlorotoluene	A	100.0	110.6	1.990602	2.201971		10.6	20
Dibromochloromethane	L	100.0	101.8	0.5980214	0.7585925		1.8	20
1,2-Dibromo-3-chloropropane	L	100.0	88.40	0.1228865	0.1416286		-11.6	20
1,2-Dibromoethane (EDB)	A	100.0	108.6	0.5085674	0.552493		8.6	20
Dibromomethane	A	100.0	101.5	0.180141	0.1828334		1.5	20
1,2-Dichlorobenzene	A	100.0	106.8	1.078607	1.152492		6.9	20
1,3-Dichlorobenzene	A	100.0	108.6	1.101378	1.196401		8.6	20
1,4-Dichlorobenzene	A	100.0	107.7	1.14648	1.235089		7.7	20
Dichlorodifluoromethane	A	100.0	109.8	0.3068391	0.336757		9.8	20
1,1-Dichloroethane	A	100.0	105.8	0.431906	0.4571624	0.1	5.8	20
1,2-Dichloroethane	A	100.0	104.2	0.4264077	0.4443726		4.2	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	813CCV2X.D	Calibration Date:	07/15/11 07:34
Sequence:	1H23006	Injection Date:	08/14/11
Lab Sample ID:	1H23006-CCV2	Injection Time:	06:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	108.2	0.1492329	0.1614191		8.2	20
cis-1,2-Dichloroethene	A	100.0	104.7	0.2503875	0.2622698		4.7	20
trans-1,2-Dichloroethene	A	100.0	109.0	0.2240218	0.244291		9.0	20
1,2-Dichloropropane	A	100.0	103.0	0.216359	0.2229		3.0	20
1,3-Dichloropropane	A	100.0	118.9	0.8502119	1.010696		18.9	20
2,2-Dichloropropane	A	100.0	103.5	0.4364498	0.4516738		3.5	20
1,1-Dichloropropene	A	100.0	104.1	0.3553169	0.3698196		4.1	20
cis-1,3-Dichloropropene	A	100.0	106.1	0.411869	0.436983		6.1	20
trans-1,3-Dichloropropene	A	100.0	127.1	0.8172756	1.038457		27.1	20 *
Ethylbenzene	A	100.0	109.0	2.419758	2.636947		9.0	20
Hexachlorobutadiene	A	100.0	108.7	0.3828814	0.4163548		8.7	20
2-Hexanone	A	200.0	241.9	0.3835157	0.46395		21.0	20 *
Isopropylbenzene	A	100.0	114.0	1.787967	2.037654		14.0	20
p-Isopropyltoluene	A	100.0	114.2	1.658073	1.89289		14.2	20
Methylene chloride	A	100.0	105.0	0.1860977	0.1954405		5.0	20
Naphthalene	A	100.0	102.8	1.369554	1.407673		2.8	20
4-Methyl-2-pentanone	A	200.0	203.8	0.2576867	0.2625444		1.9	20
Methyl t-Butyl Ether	A	100.0	106.1	0.750083	0.7955628		6.1	20
n-Propylbenzene	A	100.0	110.6	2.615418	2.891455		10.6	20
Styrene	A	100.0	110.3	1.325255	1.462268		10.3	20
1,1,2,2-Tetrachloroethane	A	100.0	108.6	0.5949751	0.6460488	0.3	8.6	20
1,1,1,2-Tetrachloroethane	L	100.0	100.9	0.5474485	0.6401088		0.9	20
Tetrachloroethene	A	100.0	110.5	0.5708118	0.6310272		10.5	20
Toluene	A	100.0	109.0	1.135262	1.237142		9.0	20
1,2,3-Trichlorobenzene	A	100.0	104.3	0.6340517	0.6614597		4.3	20
1,2,4-Trichlorobenzene	A	100.0	108.5	0.6888209	0.7471765		8.5	20
1,1,2-Trichloroethane	A	100.0	113.2	0.3952658	0.4475077		13.2	20
1,1,1-Trichloroethane	A	100.0	103.2	0.4415644	0.455919		3.3	20
Trichloroethene	A	100.0	99.00	0.2563099	0.2537427		-1.0	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1197002
Lab File ID:	813CCV2X.D	Calibration Date:	07/15/11 07:34
Sequence:	1H23006	Injection Date:	08/14/11
Lab Sample ID:	1H23006-CCV2	Injection Time:	06:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	106.9	0.4264743	0.4561083		6.9	20
1,2,3-Trichloropropane	A	100.0	109.6	0.1829839	0.2005316		9.6	20
1,3,5-Trimethylbenzene	A	100.0	108.4	1.744294	1.891196		8.4	20
1,2,4-Trimethylbenzene	A	100.0	111.3	1.745256	1.94226		11.3	20
Vinyl chloride	A	100.0	98.82	0.1553111	0.1534873		-1.2	20
m,p-Xylene	A	200.0	213.5	1.862007	1.987894		6.8	20
o-Xylene	A	100.0	111.3	1.985624	2.209452		11.3	20
Bromofluorobenzene	A	30.00	34.38	0.8344153	0.9561997		14.6	20
Dibromofluoromethane	A	30.00	29.74	0.3254106	0.3226348		-0.9	20
1,2-Dichloroethane-d4	A	30.00	29.47	6.267093E-02	6.156899E-02		-1.8	20
Toluene-d8	A	30.00	35.18	1.912359	2.242322		17.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	0820CCV1.D	Calibration Date:	08/16/11 10:01
Sequence:	1H23204	Injection Date:	08/20/11
Lab Sample ID:	1H23204-CCV1	Injection Time:	11:23

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	229.6	0.0575418	6.238341E-02		14.8	20
Benzene	A	100.0	117.8	0.5617921	0.6621003		17.9	20
Bromobenzene	A	100.0	101.5	0.6787183	0.6888954		1.5	20
Bromochloromethane	A	100.0	95.07	0.1100621	0.1046406		-4.9	20
Bromodichloromethane	A	100.0	104.1	0.2747333	0.2859219		4.1	20
Bromoform	A	100.0	99.81	0.5489907	0.5479488	0.1	-0.2	20
Bromomethane	A	100.0	110.7	0.1624106	0.1797496		10.7	20
n-Butylbenzene	A	100.0	121.0	1.091296	1.320007		21.0	20 *
2-Butanone	A	200.0	231.0	6.628659E-02	7.657026E-02		15.5	20
sec-Butylbenzene	A	100.0	112.3	1.745914	1.960096		12.3	20
tert-Butylbenzene	A	100.0	108.6	1.239993	1.346215		8.6	20
Carbon disulfide	A	100.0	135.7	0.3963281	0.5378952		35.7	20 *
Carbon tetrachloride	A	100.0	119.1	0.1967035	0.2342638		19.1	20
Chlorobenzene	A	100.0	91.86	1.789098	1.643443	0.3	-8.1	20
Chloroethane	L	100.0	121.6	6.618182E-02	8.933648E-02		21.6	20 *
Chloroform	A	100.0	102.1	0.3657383	0.3732849		2.1	20
Chloromethane	A	100.0	121.8	0.1379611	0.1680503	0.1	21.8	20 *
2-Chlorotoluene	A	100.0	110.4	1.416661	1.564359		10.4	20
4-Chlorotoluene	A	100.0	109.7	1.670036	1.83245		9.7	20
Dibromochloromethane	A	100.0	96.40	0.5962943	0.5748162		-3.6	20
1,2-Dibromo-3-chloropropane	A	100.0	101.9	0.130454	0.132903		1.9	20
1,2-Dibromoethane (EDB)	A	100.0	93.80	0.7842657	0.7356823		-6.2	20
Dibromomethane	A	100.0	101.8	0.1670466	0.1700713		1.8	20
1,2-Dichlorobenzene	A	100.0	97.97	0.9132796	0.8947726		-2.0	20
1,3-Dichlorobenzene	A	100.0	101.1	0.933043	0.9431742		1.1	20
1,4-Dichlorobenzene	A	100.0	100.8	0.9629043	0.9704795		0.8	20
Dichlorodifluoromethane	A	100.0	138.3	0.1987127	0.27487		38.3	20 *
1,1-Dichloroethane	A	100.0	122.2	0.2268701	0.2772778	0.1	22.2	20 *
1,2-Dichloroethane	A	100.0	100.5	0.267094	0.2683653		0.5	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	0820CCV1.D	Calibration Date:	08/16/11 10:01
Sequence:	1H23204	Injection Date:	08/20/11
Lab Sample ID:	1H23204-CCV1	Injection Time:	11:23

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	118.1	0.1984207	0.2343956		18.1	20
cis-1,2-Dichloroethene	A	100.0	103.8	0.2557099	0.2654561		3.8	20
trans-1,2-Dichloroethene	A	100.0	106.8	0.2297347	0.2454864		6.9	20
1,2-Dichloropropane	A	100.0	119.8	0.1055341	0.1264878		19.9	20
1,3-Dichloropropane	A	100.0	109.0	0.702035	0.7654019		9.0	20
2,2-Dichloropropane	A	100.0	125.6	0.2311142	0.2903015		25.6	20 *
1,1-Dichloropropene	A	100.0	125.3	0.1957866	0.2454043		25.3	20 *
cis-1,3-Dichloropropene	A	100.0	112.4	0.2482491	0.2790396		12.4	20
trans-1,3-Dichloropropene	A	100.0	106.5	0.8209591	0.8744243		6.5	20
Ethylbenzene	A	100.0	103.5	2.499288	2.586687		3.5	20
Hexachlorobutadiene	A	100.0	136.1	0.1319488	0.1795485		36.1	20 *
2-Hexanone	A	200.0	225.5	0.2701311	0.3046212		12.8	20
Isopropylbenzene	A	100.0	102.9	2.094953	2.156169		2.9	20
p-Isopropyltoluene	A	100.0	109.3	1.243997	1.360113		9.3	20
Methylene chloride	A	100.0	103.0	0.2168724	0.2233538		3.0	20
Naphthalene	A	100.0	100.6	0.9149282	0.9199894		0.6	20
4-Methyl-2-pentanone	A	200.0	225.0	0.1267146	0.1425345		12.5	20
Methyl t-Butyl Ether	A	100.0	106.1	0.4253933	0.4515245		6.1	20
n-Propylbenzene	A	100.0	119.8	2.070466	2.480065		19.8	20
Styrene	A	100.0	99.63	1.924134	1.917107		-0.4	20
1,1,2,2-Tetrachloroethane	A	100.0	112.0	0.4765921	0.5335549	0.3	12.0	20
1,1,1,2-Tetrachloroethane	A	100.0	91.18	0.4637096	0.4228074		-8.8	20
Tetrachloroethene	A	100.0	104.0	0.6566482	0.6832836		4.1	20
Toluene	A	100.0	103.1	1.437624	1.481826		3.1	20
1,2,3-Trichlorobenzene	A	100.0	113.4	0.423201	0.4798389		13.4	20
1,2,4-Trichlorobenzene	A	100.0	107.7	0.5127504	0.5524479		7.7	20
1,1,2-Trichloroethane	A	100.0	103.3	0.4387015	0.4531733		3.3	20
1,1,1-Trichloroethane	A	100.0	115.7	0.262971	0.3042254		15.7	20
Trichloroethene	A	100.0	107.2	0.2353264	0.2522534		7.2	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1229002
Lab File ID:	0820CCV1.D	Calibration Date:	08/16/11 10:01
Sequence:	1H23204	Injection Date:	08/20/11
Lab Sample ID:	1H23204-CCV1	Injection Time:	11:23

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	131.0	0.2780621	0.3643096		31.0	20 *
1,2,3-Trichloropropane	A	100.0	98.98	0.189917	0.1879742		-1.0	20
1,3,5-Trimethylbenzene	A	100.0	108.5	1.551444	1.68371		8.5	20
1,2,4-Trimethylbenzene	A	100.0	105.8	1.601946	1.694218		5.8	20
Vinyl chloride	A	100.0	138.8	0.1376198	0.1910758		38.8	20 *
m,p-Xylene	A	200.0	204.2	1.916489	1.956559		2.1	20
o-Xylene	A	100.0	103.7	2.016979	2.091074		3.7	20
Bromofluorobenzene	A	30.00	30.77	1.084841	1.112554		2.6	20
Dibromofluoromethane	A	30.00	30.20	0.3026546	0.3046514		0.7	20
1,2-Dichloroethane-d4	A	30.00	30.80	6.424239E-02	6.595422E-02		2.7	20
Toluene-d8	A	30.00	30.76	2.688003	2.756329		2.5	20

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

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H13001-BLK1 File ID: 0813BLK1.D

Sampled: Prepared: Analyzed: 08/13/11 08:43

Solids: Preparation: 5030B Dilution:

Batch: 1H13001 Sequence: 1H22602 Calibration: 1197002 Instrument: MS-VOA6

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

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H13001-BLK1 File ID: 0813BLK1.D

Sampled: Prepared: Analyzed: 08/13/11 08:43

Solids: Preparation: 5030B Dilution:

Batch: 1H13001 Sequence: 1H22602 Calibration: 1197002 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.38	105	75 - 120	
Dibromofluoromethane	30.00	30.72	102	85 - 115	
1,2-Dichloroethane-d4	30.00	31.00	103	70 - 120	
Toluene-d8	30.00	31.04	103	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H13001-BS1 File ID: 0813LCS1.D

Sampled: Prepared: Analyzed: 08/13/11 07:25

Solids: Preparation: 5030B Dilution:

Batch: 1H13001 Sequence: 1H22602 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	103	2.50	5.00	10.0	
71-43-2	Benzene	55.0	0.250	0.500	1.00	
108-86-1	Bromobenzene	55.7	0.250	0.500	1.00	
74-97-5	Bromochloromethane	56.0	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	60.1	0.250	0.500	1.00	
75-25-2	Bromoform	45.6	0.250	0.500	1.00	
74-83-9	Bromomethane	29.0	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	57.0	0.250	0.500	1.00	
78-93-3	2-Butanone	117	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	56.2	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	55.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	61.5	0.250	0.500	1.00	X
56-23-5	Carbon tetrachloride	56.0	0.250	0.500	1.00	
108-90-7	Chlorobenzene	55.2	0.250	0.500	1.00	
75-00-3	Chloroethane	56.3	0.500	1.00	2.00	
67-66-3	Chloroform	52.9	0.250	0.500	1.00	
74-87-3	Chloromethane	41.9	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	56.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	56.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	50.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	47.0	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	55.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	55.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	56.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	53.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	50.6	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	56.1	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	56.5	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	61.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	54.8	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	58.0	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	55.3	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	55.6	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	55.9	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	55.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	56.1	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	64.1	0.250	0.500	1.00	X
100-41-4	Ethylbenzene	54.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	57.0	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H13001-BS1 File ID: 0813LCS1.D

Sampled: Prepared: Analyzed: 08/13/11 07:25

Solids: Preparation: 5030B Dilution:

Batch: 1H13001 Sequence: 1H22602 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	120	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	56.9	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	57.9	0.250	0.500	1.00	
75-09-2	Methylene chloride	56.3	0.500	1.00	2.00	
91-20-3	Naphthalene	53.3	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	113	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	54.3	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	57.1	0.250	0.500	1.00	
100-42-5	Styrene	56.1	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	56.4	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	49.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	53.5	0.250	0.500	1.00	
108-88-3	Toluene	55.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	54.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	56.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	54.9	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	54.4	0.250	0.500	1.00	
79-01-6	Trichloroethene	53.2	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.0	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	53.3	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	56.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	56.7	0.250	0.500	1.00	
75-01-4	Vinyl chloride	54.0	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	107	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	32.03	107	75 - 120	
Dibromofluoromethane	30.00	31.74	106	85 - 115	
1,2-Dichloroethane-d4	30.00	31.52	105	70 - 120	
Toluene-d8	30.00	32.63	109	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H13002-BLK1 File ID: 0813BLK2.D

Sampled: Prepared: Analyzed: 08/13/11 20:16

Solids: Preparation: 5030B Dilution:

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	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	X, U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.276	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H13002-BLK1 File ID: 0813BLK2.D

Sampled: Prepared: Analyzed: 08/13/11 20:16

Solids: Preparation: 5030B Dilution:

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.91	103	75 - 120	
Dibromofluoromethane	30.00	30.72	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.66	102	70 - 120	
Toluene-d8	30.00	31.74	106	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H13002-BLK2 File ID: 813BLK2X.D

Sampled: Prepared: Analyzed: 08/14/11 08:36

Solids: Preparation: 5030B Dilution:

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

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

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H13002-BLK2 File ID: 813BLK2X.D

Sampled: Prepared: Analyzed: 08/14/11 08:36

Solids: Preparation: 5030B Dilution:

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.77	99.2	75 - 120	
Dibromofluoromethane	30.00	30.79	103	85 - 115	
1,2-Dichloroethane-d4	30.00	31.41	105	70 - 120	
Toluene-d8	30.00	29.66	98.9	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H13002-BS1 File ID: 0813LCS2.D

Sampled: Prepared: Analyzed: 08/13/11 18:58

Solids: Preparation: 5030B Dilution:

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	97.9	2.50	5.00	10.0	
71-43-2	Benzene	54.5	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.9	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	59.0	0.250	0.500	1.00	
75-25-2	Bromoform	44.4	0.250	0.500	1.00	
74-83-9	Bromomethane	28.8	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	54.4	0.250	0.500	1.00	
78-93-3	2-Butanone	113	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	54.5	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.7	0.250	0.500	1.00	
75-15-0	Carbon disulfide	56.7	0.250	0.500	1.00	X
56-23-5	Carbon tetrachloride	52.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	55.3	0.250	0.500	1.00	
75-00-3	Chloroethane	54.9	0.500	1.00	2.00	
67-66-3	Chloroform	50.5	0.250	0.500	1.00	
74-87-3	Chloromethane	39.4	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	55.1	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	54.8	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	48.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	44.2	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.7	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.0	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	54.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	53.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	47.1	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	55.7	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	55.1	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	59.2	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	53.6	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	53.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	54.7	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	55.9	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	44.9	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	54.0	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	54.3	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	62.2	0.250	0.500	1.00	X
100-41-4	Ethylbenzene	53.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	53.0	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H13002-BS1 File ID: 0813LCS2.D

Sampled: Prepared: Analyzed: 08/13/11 18:58

Solids: Preparation: 5030B Dilution:

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	120	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	56.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	57.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.6	0.500	1.00	2.00	
91-20-3	Naphthalene	53.9	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	112	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	51.9	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	55.2	0.250	0.500	1.00	
100-42-5	Styrene	57.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	55.4	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	49.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.2	0.250	0.500	1.00	
108-88-3	Toluene	55.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	52.8	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	53.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	54.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	51.5	0.250	0.500	1.00	
79-01-6	Trichloroethene	53.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.2	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	52.6	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.8	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	56.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	51.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	108	0.500	1.00	2.00	
95-47-6	o-Xylene	54.1	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.46	108	75 - 120	
Dibromofluoromethane	30.00	31.30	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.13	100	70 - 120	
Toluene-d8	30.00	32.35	108	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H13002-BS2 File ID: 813LCS2X.D

Sampled: Prepared: Analyzed: 08/14/11 07:18

Solids: Preparation: 5030B Dilution:

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	94.0	2.50	5.00	10.0	
71-43-2	Benzene	53.0	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	58.3	0.250	0.500	1.00	
75-25-2	Bromoform	42.0	0.250	0.500	1.00	
74-83-9	Bromomethane	21.4	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	55.1	0.250	0.500	1.00	
78-93-3	2-Butanone	106	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	54.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	59.6	0.250	0.500	1.00	X
56-23-5	Carbon tetrachloride	52.4	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.8	0.250	0.500	1.00	
75-00-3	Chloroethane	54.8	0.500	1.00	2.00	
67-66-3	Chloroform	51.0	0.250	0.500	1.00	
74-87-3	Chloromethane	36.7	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	55.1	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	54.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	46.9	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	42.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	51.9	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.5	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	54.4	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	52.4	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	47.4	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	55.2	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	54.3	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	57.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	53.5	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	54.6	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	53.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	52.8	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	52.6	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	54.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	61.7	0.250	0.500	1.00	X
100-41-4	Ethylbenzene	52.4	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	54.6	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H13002-BS2 File ID: 813LCS2X.D

Sampled: Prepared: Analyzed: 08/14/11 07:18

Solids: Preparation: 5030B Dilution:

Batch: 1H13002 Sequence: 1H23006 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	106	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	53.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	56.4	0.250	0.500	1.00	
75-09-2	Methylene chloride	56.4	0.500	1.00	2.00	
91-20-3	Naphthalene	49.6	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	104	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	51.1	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	54.8	0.250	0.500	1.00	
100-42-5	Styrene	54.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	52.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	47.6	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	50.4	0.250	0.500	1.00	
108-88-3	Toluene	53.8	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	50.7	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	52.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	51.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	51.8	0.250	0.500	1.00	
79-01-6	Trichloroethene	51.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	53.7	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	50.3	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	56.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride	50.5	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	105	0.500	1.00	2.00	
95-47-6	o-Xylene	52.3	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.26	108	75 - 120	
Dibromofluoromethane	30.00	31.58	105	85 - 115	
1,2-Dichloroethane-d4	30.00	29.48	98.3	70 - 120	
Toluene-d8	30.00	31.90	106	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H14001-BLK1 File ID: 814BLK1.D

Sampled: Prepared: Analyzed: 08/14/11 20:35

Solids: Preparation: 5030B Dilution:

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	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	X, U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.270	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H14001-BLK1 File ID: 814BLK1.D

Sampled: Prepared: Analyzed: 08/14/11 20:35

Solids: Preparation: 5030B Dilution:

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.60	105	75 - 120	
Dibromofluoromethane	30.00	31.66	106	85 - 115	
1,2-Dichloroethane-d4	30.00	31.74	106	70 - 120	
Toluene-d8	30.00	31.08	104	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H14001-BS1 File ID: 814LCS1.D

Sampled: Prepared: Analyzed: 08/14/11 19:17

Solids: Preparation: 5030B Dilution:

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	98.5	2.50	5.00	10.0	
71-43-2	Benzene	54.8	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.7	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.2	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	59.2	0.250	0.500	1.00	
75-25-2	Bromoform	43.4	0.250	0.500	1.00	
74-83-9	Bromomethane	26.0	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	53.5	0.250	0.500	1.00	
78-93-3	2-Butanone	109	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	55.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	55.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	56.6	0.250	0.500	1.00	X
56-23-5	Carbon tetrachloride	54.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	54.9	0.250	0.500	1.00	
75-00-3	Chloroethane	54.7	0.500	1.00	2.00	
67-66-3	Chloroform	52.1	0.250	0.500	1.00	
74-87-3	Chloromethane	38.0	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	54.7	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	54.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	47.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	42.6	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.1	0.250	0.500	1.00	
74-95-3	Dibromomethane	55.5	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.6	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	53.3	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	48.3	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	56.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	55.8	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	56.6	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	53.7	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	59.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	55.1	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	53.8	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	54.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	54.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	61.3	0.250	0.500	1.00	X
100-41-4	Ethylbenzene	53.4	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	52.7	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H14001-BS1 File ID: 814LCS1.D

Sampled: Prepared: Analyzed: 08/14/11 19:17

Solids: Preparation: 5030B Dilution:

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	112	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	56.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	56.3	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.2	0.500	1.00	2.00	
91-20-3	Naphthalene	51.3	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	109	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	54.0	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	55.0	0.250	0.500	1.00	
100-42-5	Styrene	55.1	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	53.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	48.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	50.8	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	51.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	51.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	53.3	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	53.3	0.250	0.500	1.00	
79-01-6	Trichloroethene	53.6	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	56.3	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	50.5	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.4	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	56.2	0.250	0.500	1.00	
75-01-4	Vinyl chloride	54.2	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	106	0.500	1.00	2.00	
95-47-6	o-Xylene	53.9	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.46	108	75 - 120	
Dibromofluoromethane	30.00	31.52	105	85 - 115	
1,2-Dichloroethane-d4	30.00	29.63	98.8	70 - 120	
Toluene-d8	30.00	32.47	108	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H14001-MS1 File ID: 0813801M.D

Sampled: Prepared: Analyzed: 08/15/11 04:09

Solids: Preparation: 5030B Dilution:

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	110	2.50	5.00	10.0	
71-43-2	Benzene	56.1	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.7	0.250	0.500	1.00	
74-97-5	Bromochloromethane	56.3	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	60.2	0.250	0.500	1.00	
75-25-2	Bromoform	43.6	0.250	0.500	1.00	
74-83-9	Bromomethane	15.8	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	53.0	0.250	0.500	1.00	
78-93-3	2-Butanone	118	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	55.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	56.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	62.9	0.250	0.500	1.00	X
56-23-5	Carbon tetrachloride	57.4	0.250	0.500	1.00	
108-90-7	Chlorobenzene	55.2	0.250	0.500	1.00	
75-00-3	Chloroethane	60.0	0.500	1.00	2.00	
67-66-3	Chloroform	53.9	0.250	0.500	1.00	
74-87-3	Chloromethane	41.9	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	54.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	55.6	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	47.7	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	43.6	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	56.7	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.2	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	54.0	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	52.5	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	50.3	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	57.9	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	57.7	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	63.0	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	55.8	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	58.6	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	56.7	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	55.1	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	43.1	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	58.2	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.9	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	60.8	0.250	0.500	1.00	X
100-41-4	Ethylbenzene	54.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	50.6	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H14001-MS1 File ID: 0813801M.D

Sampled: Prepared: Analyzed: 08/15/11 04:09

Solids: Preparation: 5030B Dilution:

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	117	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	55.0	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	57.8	0.250	0.500	1.00	
75-09-2	Methylene chloride	58.5	0.500	1.00	2.00	
91-20-3	Naphthalene	50.3	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	115	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	54.5	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	56.0	0.250	0.500	1.00	
100-42-5	Styrene	54.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	55.6	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	49.6	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.2	0.250	0.500	1.00	
108-88-3	Toluene	55.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.7	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.3	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	55.2	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	55.4	0.250	0.500	1.00	
79-01-6	Trichloroethene	55.5	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	60.0	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	52.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	55.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	57.4	0.250	0.500	1.00	
75-01-4	Vinyl chloride	53.1	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	107	0.500	1.00	2.00	
95-47-6	o-Xylene	53.1	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.69	106	75 - 120	
Dibromofluoromethane	30.00	32.15	107	85 - 115	
1,2-Dichloroethane-d4	30.00	30.21	101	70 - 120	
Toluene-d8	30.00	31.87	106	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H14001-MSD1 File ID: 0813801S.D

Sampled: Prepared: Analyzed: 08/15/11 04:35

Solids: Preparation: 5030B Dilution:

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	109	2.50	5.00	10.0	
71-43-2	Benzene	54.1	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	56.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	60.0	0.250	0.500	1.00	
75-25-2	Bromoform	44.2	0.250	0.500	1.00	
74-83-9	Bromomethane	18.4	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	51.0	0.250	0.500	1.00	
78-93-3	2-Butanone	117	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	53.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	60.6	0.250	0.500	1.00	X
56-23-5	Carbon tetrachloride	56.0	0.250	0.500	1.00	
108-90-7	Chlorobenzene	54.0	0.250	0.500	1.00	
75-00-3	Chloroethane	50.1	0.500	1.00	2.00	
67-66-3	Chloroform	52.6	0.250	0.500	1.00	
74-87-3	Chloromethane	33.5	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	55.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	55.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	48.8	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	43.7	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	57.5	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	53.9	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.6	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	47.4	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	56.6	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	57.3	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	61.0	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	53.7	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	56.6	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	54.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	55.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	40.1	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	55.5	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	62.2	0.250	0.500	1.00	X
100-41-4	Ethylbenzene	53.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	50.4	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H14001-MSD1 File ID: 0813801S.D

Sampled: Prepared: Analyzed: 08/15/11 04:35

Solids: Preparation: 5030B Dilution:

Batch: 1H14001 Sequence: 1H22908 Calibration: 1197002 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	120	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	55.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	55.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	56.9	0.500	1.00	2.00	
91-20-3	Naphthalene	51.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	115	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	54.8	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	54.1	0.250	0.500	1.00	
100-42-5	Styrene	54.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	56.1	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	48.6	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	50.7	0.250	0.500	1.00	
108-88-3	Toluene	55.0	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	50.7	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	54.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	54.3	0.250	0.500	1.00	
79-01-6	Trichloroethene	53.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	56.8	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	54.3	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	55.7	0.250	0.500	1.00	
75-01-4	Vinyl chloride	51.7	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	105	0.500	1.00	2.00	
95-47-6	o-Xylene	53.8	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.60	109	75 - 120	
Dibromofluoromethane	30.00	31.50	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.03	100	70 - 120	
Toluene-d8	30.00	32.34	108	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H14002-BLK1 File ID: 0814BLK1.D

Sampled: Prepared: Analyzed: 08/14/11 10:24

Solids: Preparation: 5030B Dilution:

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

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

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H14002-BLK1 File ID: 0814BLK1.D

Sampled: Prepared: Analyzed: 08/14/11 10:24

Solids: Preparation: 5030B Dilution:

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	Q, X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	Q, X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	Y, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, 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	32.32	108	75 - 120	
Dibromofluoromethane	30.00	33.17	111	85 - 115	
1,2-Dichloroethane-d4	30.00	29.31	97.7	70 - 120	
Toluene-d8	30.00	29.24	97.5	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H14002-BS1 File ID: 0814LCS1.D

Sampled: Prepared: Analyzed: 08/14/11 09:11

Solids: Preparation: 5030B Dilution:

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	144	2.50	5.00	10.0	X
71-43-2	Benzene	58.5	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.8	0.250	0.500	1.00	
74-97-5	Bromochloromethane	50.9	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	61.9	0.250	0.500	1.00	X
75-25-2	Bromoform	42.3	0.250	0.500	1.00	
74-83-9	Bromomethane	47.7	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	55.7	0.250	0.500	1.00	
78-93-3	2-Butanone	174	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	58.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.5	0.250	0.500	1.00	
75-15-0	Carbon disulfide	58.5	0.250	0.500	1.00	X
56-23-5	Carbon tetrachloride	64.2	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	48.1	0.250	0.500	1.00	
75-00-3	Chloroethane	61.8	0.500	1.00	2.00	X
67-66-3	Chloroform	55.8	0.250	0.500	1.00	
74-87-3	Chloromethane	68.0	0.250	0.500	1.00	X
95-49-8	2-Chlorotoluene	59.1	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	57.4	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	50.3	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	53.7	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	47.5	0.250	0.500	1.00	
74-95-3	Dibromomethane	55.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.2	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	53.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	48.4	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	58.2	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	62.9	0.250	0.500	1.00	X
107-06-2	1,2-Dichloroethane	66.3	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	59.2	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	53.7	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	57.6	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	60.3	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	63.8	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	62.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	57.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	58.3	0.250	0.500	1.00	
100-41-4	Ethylbenzene	50.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	52.7	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H14002-BS1 File ID: 0814LCS1.D

Sampled: Prepared: Analyzed: 08/14/11 09:11

Solids: Preparation: 5030B Dilution:

Batch: 1H14002 Sequence: 1H22802 Calibration: 1195002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	139	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	52.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	55.8	0.250	0.500	1.00	
75-09-2	Methylene chloride	50.0	0.500	1.00	2.00	
91-20-3	Naphthalene	46.3	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	157	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	57.3	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	58.2	0.250	0.500	1.00	
100-42-5	Styrene	49.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	60.0	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	47.6	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	41.8	0.250	0.500	1.00	
108-88-3	Toluene	49.4	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	39.3	0.250	0.500	1.00	Y
120-82-1	1,2,4-Trichlorobenzene	39.3	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	45.6	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	60.1	0.250	0.500	1.00	X
79-01-6	Trichloroethene	56.6	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	62.3	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	45.5	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.4	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.7	0.250	0.500	1.00	
75-01-4	Vinyl chloride	37.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	101	0.500	1.00	2.00	
95-47-6	o-Xylene	48.4	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.63	109	75 - 120	
Dibromofluoromethane	30.00	33.33	111	85 - 115	
1,2-Dichloroethane-d4	30.00	29.70	99.0	70 - 120	
Toluene-d8	30.00	30.55	102	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H20001-BLK1 File ID: 0820BLK1.D

Sampled: Prepared: Analyzed: 08/20/11 13:23

Solids: Preparation: 5030B Dilution:

Batch: 1H20001 Sequence: 1H23204 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	Q, 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	X, U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	X, 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	X, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	X, 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	X, 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	Q, X, U

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H20001-BLK1 File ID: 0820BLK1.D

Sampled: Prepared: Analyzed: 08/20/11 13:23

Solids: Preparation: 5030B Dilution:

Batch: 1H20001 Sequence: 1H23204 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, 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	X, 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	31.07	104	75 - 120	
Dibromofluoromethane	30.00	28.80	96.0	85 - 115	
1,2-Dichloroethane-d4	30.00	28.39	94.6	70 - 120	
Toluene-d8	30.00	29.73	99.1	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H20001-BS1 File ID: 0820LS1.D

Sampled: Prepared: Analyzed: 08/20/11 12:01

Solids: Preparation: 5030B Dilution:

Batch: 1H20001 Sequence: 1H23204 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	151	2.50	5.00	10.0	
71-43-2	Benzene	58.8	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	47.8	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	50.8	0.250	0.500	1.00	
75-25-2	Bromoform	49.8	0.250	0.500	1.00	
74-83-9	Bromomethane	53.3	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	62.9	0.250	0.500	1.00	X
78-93-3	2-Butanone	132	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	59.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	55.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	56.2	0.250	0.500	1.00	X
56-23-5	Carbon tetrachloride	58.4	0.250	0.500	1.00	
108-90-7	Chlorobenzene	46.9	0.250	0.500	1.00	
75-00-3	Chloroethane	64.0	0.500	1.00	2.00	X
67-66-3	Chloroform	50.9	0.250	0.500	1.00	
74-87-3	Chloromethane	49.6	0.250	0.500	1.00	X
95-49-8	2-Chlorotoluene	60.7	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	58.0	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	45.8	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	50.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	46.9	0.250	0.500	1.00	
74-95-3	Dibromomethane	52.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.0	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.9	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	53.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	53.5	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	61.3	0.250	0.500	1.00	X
107-06-2	1,2-Dichloroethane	50.9	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	53.6	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	53.5	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.1	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	61.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	55.2	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	59.7	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	61.1	0.250	0.500	1.00	X
10061-01-5	cis-1,3-Dichloropropene	58.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	48.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	52.8	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	75.5	0.250	0.500	1.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H20001-BS1 File ID: 0820LS1.D

Sampled: Prepared: Analyzed: 08/20/11 12:01

Solids: Preparation: 5030B Dilution:

Batch: 1H20001 Sequence: 1H23204 Calibration: 1229002 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	127	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	48.1	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	52.5	0.500	1.00	2.00	
91-20-3	Naphthalene	53.3	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	117	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	54.7	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	62.5	0.250	0.500	1.00	
100-42-5	Styrene	48.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	59.1	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	46.1	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	52.3	0.250	0.500	1.00	
108-88-3	Toluene	52.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	60.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	55.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	53.9	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	57.3	0.250	0.500	1.00	
79-01-6	Trichloroethene	53.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	59.2	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	47.1	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	58.1	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	55.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	60.7	0.250	0.500	1.00	X
108-38-3/106-42-	m,p-Xylene	103	0.500	1.00	2.00	
95-47-6	o-Xylene	50.9	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.27	104	75 - 120	
Dibromofluoromethane	30.00	29.47	98.2	85 - 115	
1,2-Dichloroethane-d4	30.00	29.96	99.9	70 - 120	
Toluene-d8	30.00	30.46	102	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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
GW0155-R	08/08/11 11:33	08/09/11 09:00	08/13/11 00:00	N/A	14.00	08/13/11 13:38	5.05	14.00	
GW0156-R	08/08/11 11:54	08/09/11 09:00	08/13/11 00:00	N/A	14.00	08/13/11 14:04	5.05	14.00	
GW0176	08/08/11 14:51	08/09/11 09:00	08/13/11 00:00	N/A	14.00	08/13/11 14:31	4.94	14.00	
GW8023-RB	08/08/11 08:41	08/09/11 09:00	08/13/11 00:00	N/A	14.00	08/13/11 10:04	5.02	14.00	
GW8089-TB	08/08/11 08:00	08/09/11 09:00	08/13/11 00:00	N/A	14.00	08/13/11 20:43	5.49	14.00	
GW0162	08/09/11 12:47	08/10/11 09:00	08/14/11 00:00	N/A	14.00	08/14/11 13:57	5.01	14.00	
GW0244	08/08/11 15:46	08/10/11 09:00	08/14/11 00:00	N/A	14.00	08/14/11 14:24	5.90	14.00	
GW8090-TB	08/09/11 08:00	08/10/11 09:00	08/14/11 00:00	N/A	14.00	08/14/11 09:30	5.02	14.00	
GW0160	08/10/11 10:46	08/11/11 09:00	08/14/11 00:00	N/A	14.00	08/14/11 22:22	4.44	14.00	
GW0191	08/10/11 12:32	08/11/11 09:00	08/14/11 00:00	N/A	14.00	08/14/11 22:49	4.39	14.00	
GW8091-TB	08/10/11 08:00	08/11/11 09:00	08/14/11 00:00	N/A	14.00	08/14/11 21:02	4.50	14.00	
GW0161	08/10/11 14:55	08/12/11 09:00	08/14/11 00:00	N/A	14.00	08/14/11 12:30	3.86	14.00	
GW0177	08/11/11 14:20	08/12/11 09:00	08/14/11 00:00	N/A	14.00	08/14/11 12:55	2.90	14.00	
GW0178	08/11/11 11:36	08/12/11 09:00	08/14/11 00:00	N/A	14.00	08/14/11 13:20	3.03	14.00	
GW0180	08/11/11 11:46	08/12/11 09:00	08/14/11 00:00	N/A	14.00	08/14/11 13:45	3.04	14.00	
GW0181	08/11/11 11:46	08/12/11 09:00	08/14/11 00:00	N/A	14.00	08/14/11 14:10	3.06	14.00	
GW8092-TB	08/11/11 08:00	08/12/11 09:00	08/14/11 00:00	N/A	14.00	08/14/11 10:49	3.08	14.00	
GW0179	08/12/11 11:17	08/13/11 09:15	08/20/11 00:00	N/A	14.00	08/20/11 15:16	8.12	14.00	
GW8093-TB	08/12/11 08:00	08/13/11 09:15	08/20/11 00:00	N/A	14.00	08/20/11 13:51	8.20	14.00	

Data for SW8270C Forms

ANALYSIS DATA SHEET

GW0155-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-01	File ID:	0811001.D
Sampled:	08/08/11 11:33	Prepared:	08/11/11 11:15	Analyzed:	08/23/11 13:45
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H10018 Sequence: 1H23537 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	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	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	X, Q, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	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

GW0155-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-01	File ID:	0811001.D
Sampled:	08/08/11 11:33	Prepared:	08/11/11 11:15	Analyzed:	08/23/11 13:45
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H10018 Sequence: 1H23537 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	1.87	1.25	2.50	5.00	X, Q, J, B
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
108-39-4/106	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	30.43	60.9	50 - 110	
2-Fluorophenol	100.0	34.23	34.2	20 - 110	
Nitrobenzene-d5	50.00	32.53	65.1	40 - 110	
Phenol-d6	100.0	19.53	19.5	0 - 110	
Terphenyl-d14	50.00	57.40	115	50 - 135	
2,4,6-Tribromophenol	100.0	85.02	85.0	40 - 125	

ANALYSIS DATA SHEET

GW0156-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-03	File ID:	0811003.D
Sampled:	08/08/11 11:54	Prepared:	08/11/11 11:15	Analyzed:	08/23/11 14:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H10018 Sequence: 1H23537 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	24.5	49.0	U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	X, Q, U
105-60-2	Caprolactam		1.23	2.45	4.90	Q, U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		12.3	24.5	49.0	X, U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	X, U

ANALYSIS DATA SHEET

GW0156-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-03	File ID:	0811003.D
Sampled:	08/08/11 11:54	Prepared:	08/11/11 11:15	Analyzed:	08/23/11 14:27
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H10018 Sequence: 1H23537 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.23	2.45	4.90	X, Q, U
206-44-0	Fluoranthene		1.23	2.45	4.90	U
86-73-7	Fluorene		1.23	2.45	4.90	U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	U
77-47-4	Hexachlorocyclopentadiene		1.23	2.45	4.90	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	U
85-01-8	Phenanthrene		1.23	2.45	4.90	U
108-95-2	Phenol		1.23	2.45	4.90	U
129-00-0	Pyrene		1.23	2.45	4.90	U
88-06-2	2,4,6-Trichlorophenol		1.23	2.45	4.90	U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	32.22	65.7	50 - 110	
2-Fluorophenol	98.04	36.23	37.0	20 - 110	
Nitrobenzene-d5	49.02	34.69	70.8	40 - 110	
Phenol-d6	98.04	20.66	21.1	0 - 110	
Terphenyl-d14	49.02	54.94	112	50 - 135	
2,4,6-Tribromophenol	98.04	84.27	86.0	40 - 125	

ANALYSIS DATA SHEET

GW0176

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-05	File ID:	0811005.D
Sampled:	08/08/11 14:51	Prepared:	08/11/11 11:15	Analyzed:	08/23/11 15:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H10018 Sequence: 1H23537 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	24.5	49.0	U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	X, Q, U
105-60-2	Caprolactam		1.23	2.45	4.90	Q, U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		12.3	24.5	49.0	X, U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	X, U

ANALYSIS DATA SHEET

GW0176

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-05	File ID:	0811005.D
Sampled:	08/08/11 14:51	Prepared:	08/11/11 11:15	Analyzed:	08/23/11 15:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H10018 Sequence: 1H23537 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.23	2.45	4.90	X, Q, U
206-44-0	Fluoranthene		1.23	2.45	4.90	U
86-73-7	Fluorene		1.23	2.45	4.90	U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	U
77-47-4	Hexachlorocyclopentadiene		1.23	2.45	4.90	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	U
85-01-8	Phenanthrene		1.23	2.45	4.90	U
108-95-2	Phenol		1.23	2.45	4.90	U
129-00-0	Pyrene		1.23	2.45	4.90	U
88-06-2	2,4,6-Trichlorophenol		1.23	2.45	4.90	U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	36.95	75.4	50 - 110	
2-Fluorophenol	98.04	37.56	38.3	20 - 110	
Nitrobenzene-d5	49.02	37.57	76.6	40 - 110	
Phenol-d6	98.04	21.24	21.7	0 - 110	
Terphenyl-d14	49.02	52.77	108	50 - 135	
2,4,6-Tribromophenol	98.04	86.19	87.9	40 - 125	

ANALYSIS DATA SHEET

GW8023-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-07	File ID:	0811007.D
Sampled:	08/08/11 08:41	Prepared:	08/11/11 11:15	Analyzed:	08/24/11 05:58
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H10018 Sequence: 1H23612 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.17	2.34	4.67	U
208-96-8	Acenaphthylene		1.17	2.34	4.67	U
98-86-2	Acetophenone		1.17	2.34	4.67	U
120-12-7	Anthracene		1.17	2.34	4.67	U
1912-24-9	Atrazine		1.17	2.34	4.67	U
100-52-7	Benzaldehyde		1.17	2.34	4.67	U
92-87-5	Benzidine		11.7	23.4	46.7	X, U
56-55-3	Benzo(a)anthracene		1.17	2.34	4.67	U
50-32-8	Benzo(a)pyrene		1.17	2.34	4.67	U
205-99-2	Benzo(b)fluoranthene		1.17	2.34	4.67	X, U
191-24-2	Benzo(g,h,i)perylene		1.17	2.34	4.67	U
65-85-0	Benzoic acid		11.7	23.4	46.7	U
207-08-9	Benzo(k)fluoranthene		1.17	2.34	4.67	U
92-52-4	1,1-Biphenyl		1.17	2.34	4.67	U
101-55-3	4-Bromophenyl-phenylether		1.17	2.34	4.67	U
85-68-7	Butylbenzylphthalate		1.17	2.34	4.67	X, Q, U
105-60-2	Caprolactam		1.17	2.34	4.67	Q, U
86-74-8	Carbazole		1.17	2.34	4.67	U
59-50-7	4-Chloro-3-methylphenol		1.17	2.34	4.67	U
106-47-8	4-Chloroaniline		1.17	2.34	4.67	U
111-91-1	Bis(2-chloroethoxy)methane		1.17	2.34	4.67	U
111-44-4	Bis(2-chloroethyl)ether		1.17	2.34	4.67	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.17	2.34	4.67	U
91-58-7	2-Chloronaphthalene		1.17	2.34	4.67	X, U
95-57-8	2-Chlorophenol		1.17	2.34	4.67	U
7005-72-3	4-Chlorophenyl phenyl ether		1.17	2.34	4.67	U
218-01-9	Chrysene		1.17	2.34	4.67	U
53-70-3	Dibenz(a,h)anthracene		1.17	2.34	4.67	U
132-64-9	Dibenzofuran		1.17	2.34	4.67	U
84-74-2	Di-n-butylphthalate		1.17	2.34	4.67	U
91-94-1	3,3'-Dichlorobenzidine		1.17	2.34	4.67	U
120-83-2	2,4-Dichlorophenol		1.17	2.34	4.67	U
84-66-2	Diethylphthalate		1.17	2.34	4.67	U
105-67-9	2,4-Dimethylphenol		4.67	9.35	18.7	U
131-11-3	Dimethyl phthalate		1.17	2.34	4.67	U
534-52-1	4,6-Dinitro-2-methylphenol		4.67	9.35	18.7	U
51-28-5	2,4-Dinitrophenol		11.7	23.4	46.7	X, U
121-14-2	2,4-Dinitrotoluene		1.17	2.34	4.67	U
606-20-2	2,6-Dinitrotoluene		1.17	2.34	4.67	U
117-84-0	Di-n-octylphthalate		1.17	2.34	4.67	X, U

ANALYSIS DATA SHEET

GW8023-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-07	File ID:	0811007.D
Sampled:	08/08/11 08:41	Prepared:	08/11/11 11:15	Analyzed:	08/24/11 05:58
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H10018 Sequence: 1H23612 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.17	2.34	4.67	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.76	1.17	2.34	4.67	X, Q, J
206-44-0	Fluoranthene		1.17	2.34	4.67	U
86-73-7	Fluorene		1.17	2.34	4.67	U
118-74-1	Hexachlorobenzene		1.17	2.34	4.67	U
87-68-3	Hexachlorobutadiene		1.17	2.34	4.67	U
77-47-4	Hexachlorocyclopentadiene		1.17	2.34	4.67	U
67-72-1	Hexachloroethane		1.17	2.34	4.67	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.17	2.34	4.67	U
78-59-1	Isophorone		1.17	2.34	4.67	U
90-12-0	1-Methylnaphthalene		1.17	2.34	4.67	U
91-57-6	2-Methylnaphthalene		1.17	2.34	4.67	U
95-48-7	2-Methylphenol		1.17	2.34	4.67	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.17	2.34	4.67	U
100-01-6	4-Nitroaniline		4.67	9.35	18.7	U
99-09-2	3-Nitroaniline		4.67	9.35	18.7	U
88-74-4	2-Nitroaniline		4.67	9.35	18.7	U
98-95-3	Nitrobenzene		1.17	2.34	4.67	U
100-02-7	4-Nitrophenol		4.67	9.35	18.7	U
88-75-5	2-Nitrophenol		1.17	2.34	4.67	U
86-30-6	N-Nitrosodiphenylamine		1.17	2.34	4.67	U
621-64-7	N-Nitroso-di-n-propylamine		1.17	2.34	4.67	U
87-86-5	Pentachlorophenol		4.67	9.35	18.7	U
85-01-8	Phenanthrene		1.17	2.34	4.67	U
108-95-2	Phenol		1.17	2.34	4.67	U
129-00-0	Pyrene		1.17	2.34	4.67	U
88-06-2	2,4,6-Trichlorophenol		1.17	2.34	4.67	U
95-95-4	2,4,5-Trichlorophenol		1.17	2.34	4.67	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	28.80	61.6	50 - 110	
2-Fluorophenol	93.46	31.21	33.4	20 - 110	
Nitrobenzene-d5	46.73	31.79	68.0	40 - 110	
Phenol-d6	93.46	16.48	17.6	0 - 110	
Terphenyl-d14	46.73	52.84	113	50 - 135	
2,4,6-Tribromophenol	93.46	77.89	83.3	40 - 125	

ANALYSIS DATA SHEET

GW0162

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-01	File ID:	0812601.D
Sampled:	08/09/11 12:47	Prepared:	08/11/11 11:15	Analyzed:	08/25/11 20:45
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H10018 Sequence: 1H23813 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.30	2.60	5.21	U
208-96-8	Acenaphthylene		1.30	2.60	5.21	U
98-86-2	Acetophenone		1.30	2.60	5.21	U
120-12-7	Anthracene		1.30	2.60	5.21	U
1912-24-9	Atrazine		1.30	2.60	5.21	U
100-52-7	Benzaldehyde		1.30	2.60	5.21	U
92-87-5	Benzidine		13.0	26.0	52.1	X, U
56-55-3	Benzo(a)anthracene		1.30	2.60	5.21	U
50-32-8	Benzo(a)pyrene		1.30	2.60	5.21	U
205-99-2	Benzo(b)fluoranthene		1.30	2.60	5.21	X, U
191-24-2	Benzo(g,h,i)perylene		1.30	2.60	5.21	U
65-85-0	Benzoic acid		13.0	26.0	52.1	U
207-08-9	Benzo(k)fluoranthene		1.30	2.60	5.21	U
92-52-4	1,1-Biphenyl		1.30	2.60	5.21	U
101-55-3	4-Bromophenyl-phenylether		1.30	2.60	5.21	U
85-68-7	Butylbenzylphthalate		1.30	2.60	5.21	X, Q, U
105-60-2	Caprolactam		1.30	2.60	5.21	Q, U
86-74-8	Carbazole		1.30	2.60	5.21	U
59-50-7	4-Chloro-3-methylphenol		1.30	2.60	5.21	U
106-47-8	4-Chloroaniline		1.30	2.60	5.21	U
111-91-1	Bis(2-chloroethoxy)methane		1.30	2.60	5.21	U
111-44-4	Bis(2-chloroethyl)ether		1.30	2.60	5.21	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.30	2.60	5.21	U
91-58-7	2-Chloronaphthalene		1.30	2.60	5.21	U
95-57-8	2-Chlorophenol		1.30	2.60	5.21	U
7005-72-3	4-Chlorophenyl phenyl ether		1.30	2.60	5.21	U
218-01-9	Chrysene		1.30	2.60	5.21	U
53-70-3	Dibenz(a,h)anthracene		1.30	2.60	5.21	U
132-64-9	Dibenzofuran		1.30	2.60	5.21	U
84-74-2	Di-n-butylphthalate		1.30	2.60	5.21	U
91-94-1	3,3'-Dichlorobenzidine		1.30	2.60	5.21	X, U
120-83-2	2,4-Dichlorophenol		1.30	2.60	5.21	U
84-66-2	Diethylphthalate		1.30	2.60	5.21	U
105-67-9	2,4-Dimethylphenol		5.21	10.4	20.8	U
131-11-3	Dimethyl phthalate		1.30	2.60	5.21	U
534-52-1	4,6-Dinitro-2-methylphenol		5.21	10.4	20.8	U
51-28-5	2,4-Dinitrophenol		13.0	26.0	52.1	X, U
121-14-2	2,4-Dinitrotoluene		1.30	2.60	5.21	U
606-20-2	2,6-Dinitrotoluene		1.30	2.60	5.21	U
117-84-0	Di-n-octylphthalate		1.30	2.60	5.21	X, U

ANALYSIS DATA SHEET

GW0162

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-01	File ID:	0812601.D
Sampled:	08/09/11 12:47	Prepared:	08/11/11 11:15	Analyzed:	08/25/11 20:45
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H10018 Sequence: 1H23813 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.30	2.60	5.21	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.30	2.60	5.21	X, Q, U
206-44-0	Fluoranthene		1.30	2.60	5.21	U
86-73-7	Fluorene		1.30	2.60	5.21	U
118-74-1	Hexachlorobenzene		1.30	2.60	5.21	U
87-68-3	Hexachlorobutadiene		1.30	2.60	5.21	U
77-47-4	Hexachlorocyclopentadiene		1.30	2.60	5.21	U
67-72-1	Hexachloroethane		1.30	2.60	5.21	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.30	2.60	5.21	U
78-59-1	Isophorone		1.30	2.60	5.21	U
90-12-0	1-Methylnaphthalene		1.30	2.60	5.21	U
91-57-6	2-Methylnaphthalene		1.30	2.60	5.21	U
95-48-7	2-Methylphenol		1.30	2.60	5.21	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.30	2.60	5.21	U
100-01-6	4-Nitroaniline		5.21	10.4	20.8	U
99-09-2	3-Nitroaniline		5.21	10.4	20.8	U
88-74-4	2-Nitroaniline		5.21	10.4	20.8	U
98-95-3	Nitrobenzene		1.30	2.60	5.21	U
100-02-7	4-Nitrophenol		5.21	10.4	20.8	U
88-75-5	2-Nitrophenol		1.30	2.60	5.21	U
86-30-6	N-Nitrosodiphenylamine		1.30	2.60	5.21	U
621-64-7	N-Nitroso-di-n-propylamine		1.30	2.60	5.21	U
87-86-5	Pentachlorophenol		5.21	10.4	20.8	U
85-01-8	Phenanthrene		1.30	2.60	5.21	U
108-95-2	Phenol		1.30	2.60	5.21	U
129-00-0	Pyrene		1.30	2.60	5.21	U
88-06-2	2,4,6-Trichlorophenol		1.30	2.60	5.21	U
95-95-4	2,4,5-Trichlorophenol		1.30	2.60	5.21	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	52.08	38.65	74.2	50 - 110	
2-Fluorophenol	104.2	36.33	34.9	20 - 110	
Nitrobenzene-d5	52.08	36.16	69.4	40 - 110	
Phenol-d6	104.2	19.12	18.4	0 - 110	
Terphenyl-d14	52.08	53.52	103	50 - 135	
2,4,6-Tribromophenol	104.2	83.02	79.7	40 - 125	

ANALYSIS DATA SHEET

GW0244

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-03	File ID:	0812603.D
Sampled:	08/08/11 15:46	Prepared:	08/11/11 11:15	Analyzed:	08/25/11 21:25
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H10018 Sequence: 1H23813 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	U
92-87-5	Benzidine		12.3	24.5	49.0	X, U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	X, U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	X, Q, U
105-60-2	Caprolactam		1.23	2.45	4.90	Q, U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	X, U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	U
51-28-5	2,4-Dinitrophenol		12.3	24.5	49.0	X, U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	X, U

ANALYSIS DATA SHEET

GW0244

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-03	File ID:	0812603.D
Sampled:	08/08/11 15:46	Prepared:	08/11/11 11:15	Analyzed:	08/25/11 21:25
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H10018 Sequence: 1H23813 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.23	2.45	4.90	X, Q, U
206-44-0	Fluoranthene		1.23	2.45	4.90	U
86-73-7	Fluorene		1.23	2.45	4.90	U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	U
77-47-4	Hexachlorocyclopentadiene		1.23	2.45	4.90	U
67-72-1	Hexachloroethane		1.23	2.45	4.90	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	U
85-01-8	Phenanthrene		1.23	2.45	4.90	U
108-95-2	Phenol		1.23	2.45	4.90	U
129-00-0	Pyrene		1.23	2.45	4.90	U
88-06-2	2,4,6-Trichlorophenol		1.23	2.45	4.90	U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	37.28	76.0	50 - 110	
2-Fluorophenol	98.04	34.78	35.5	20 - 110	
Nitrobenzene-d5	49.02	34.56	70.5	40 - 110	
Phenol-d6	98.04	18.74	19.1	0 - 110	
Terphenyl-d14	49.02	48.45	98.8	50 - 135	
2,4,6-Tribromophenol	98.04	76.97	78.5	40 - 125	

ANALYSIS DATA SHEET

GW0160

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-01	File ID:	0813801.D
Sampled:	08/10/11 10:46	Prepared:	08/15/11 13:17	Analyzed:	08/29/11 19:19
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1H24204 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	U
98-86-2	Acetophenone		1.18	2.36	4.72	N, U
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	N, Q, U
100-52-7	Benzaldehyde		1.18	2.36	4.72	N, U
92-87-5	Benzidine		11.8	23.6	47.2	X, U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	Q, U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	23.6	47.2	Y, U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	N, Q, X, U
105-60-2	Caprolactam		1.18	2.36	4.72	N, Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	N, Q, U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	N, U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	N, U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	N, Y, U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	N, U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	N, U
84-66-2	Diethylphthalate		1.18	2.36	4.72	N, U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	N, U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	Q, N, U
51-28-5	2,4-Dinitrophenol		11.8	23.6	47.2	X, Q, U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	N, U
606-20-2	2,6-Dinitrotoluene		1.18	2.36	4.72	N, U
117-84-0	Di-n-octylphthalate		1.18	2.36	4.72	X, Q, U

ANALYSIS DATA SHEET

GW0160

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-01	File ID:	0813801.D
Sampled:	08/10/11 10:46	Prepared:	08/15/11 13:17	Analyzed:	08/29/11 19:19
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1H24204 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.18	2.36	4.72	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	N, Q, U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	N, U
90-12-0	1-Methylnaphthalene		1.18	2.36	4.72	U
91-57-6	2-Methylnaphthalene		1.18	2.36	4.72	U
95-48-7	2-Methylphenol		1.18	2.36	4.72	N, Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.18	2.36	4.72	N, U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	N, U
98-95-3	Nitrobenzene		1.18	2.36	4.72	N, U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	N, U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	N, Q, U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	U
621-64-7	N-Nitroso-di-n-propylamine		1.18	2.36	4.72	N, U
87-86-5	Pentachlorophenol		4.72	9.43	18.9	Q, N, U
85-01-8	Phenanthrene		1.18	2.36	4.72	U
108-95-2	Phenol		1.18	2.36	4.72	N, U
129-00-0	Pyrene		1.18	2.36	4.72	U
88-06-2	2,4,6-Trichlorophenol		1.18	2.36	4.72	Q, N, U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	N, Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	22.22	47.1	50 - 110	*
2-Fluorophenol	94.34	17.41	18.5	20 - 110	*
Nitrobenzene-d5	47.17	29.37	62.3	40 - 110	
Phenol-d6	94.34	8.418	8.92	0 - 110	
Terphenyl-d14	47.17	47.71	101	50 - 135	
2,4,6-Tribromophenol	94.34	67.03	71.1	40 - 125	

ANALYSIS DATA SHEET

GW0191

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-02	File ID:	0813802.D
Sampled:	08/10/11 12:32	Prepared:	08/15/11 10:46	Analyzed:	08/26/11 00:11
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12004 Sequence: 1H23813 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	U
98-86-2	Acetophenone		1.18	2.36	4.72	U
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	Q, U
100-52-7	Benzaldehyde		1.18	2.36	4.72	U
92-87-5	Benzidine		11.8	23.6	47.2	X, U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	X, U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	23.6	47.2	Y, U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	X, Q, U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	X, U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	U
51-28-5	2,4-Dinitrophenol		11.8	23.6	47.2	X, U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	U
606-20-2	2,6-Dinitrotoluene		1.18	2.36	4.72	U
117-84-0	Di-n-octylphthalate		1.18	2.36	4.72	X, U

ANALYSIS DATA SHEET

GW0191

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-02	File ID:	0813802.D
Sampled:	08/10/11 12:32	Prepared:	08/15/11 10:46	Analyzed:	08/26/11 00:11
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12004 Sequence: 1H23813 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.18	2.36	4.72	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.66	1.18	2.36	4.72	X, Q, J
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	Q, U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	Q, U
67-72-1	Hexachloroethane		1.18	2.36	4.72	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	U
90-12-0	1-Methylnaphthalene		1.18	2.36	4.72	U
91-57-6	2-Methylnaphthalene		1.18	2.36	4.72	U
95-48-7	2-Methylphenol		1.18	2.36	4.72	Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.18	2.36	4.72	U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	U
621-64-7	N-Nitroso-di-n-propylamine		1.18	2.36	4.72	U
87-86-5	Pentachlorophenol		4.72	9.43	18.9	Q, U
85-01-8	Phenanthrene		1.18	2.36	4.72	U
108-95-2	Phenol		1.18	2.36	4.72	U
129-00-0	Pyrene		1.18	2.36	4.72	U
88-06-2	2,4,6-Trichlorophenol		1.18	2.36	4.72	Q, U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	24.66	52.3	50 - 110	
2-Fluorophenol	94.34	28.33	30.0	20 - 110	
Nitrobenzene-d5	47.17	30.84	65.4	40 - 110	
Phenol-d6	94.34	15.50	16.4	0 - 110	
Terphenyl-d14	47.17	51.06	108	50 - 135	
2,4,6-Tribromophenol	94.34	75.14	79.6	40 - 125	

ANALYSIS DATA SHEET

GW0161

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-01	File ID:	0815201.D
Sampled:	08/10/11 14:55	Prepared:	08/15/11 13:17	Analyzed:	08/29/11 13:53
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1H24204 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		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	Q, 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	Q, 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	Y, U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	Q, X, 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	Q, 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	Y, 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	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	Q, U
51-28-5	2,4-Dinitrophenol		12.0	24.0	48.1	X, Q, 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	X, Q, U

ANALYSIS DATA SHEET

GW0161

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-01	File ID:	0815201.D
Sampled:	08/10/11 14:55	Prepared:	08/15/11 13:17	Analyzed:	08/29/11 13:53
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1H24204 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	Q, 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	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	Q, U
108-39-4/106	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	U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	Q, U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	Q, 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	Q, U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	23.97	49.9	50 - 110	*
2-Fluorophenol	96.15	29.92	31.1	20 - 110	
Nitrobenzene-d5	48.08	28.44	59.1	40 - 110	
Phenol-d6	96.15	16.15	16.8	0 - 110	
Terphenyl-d14	48.08	47.84	99.5	50 - 135	
2,4,6-Tribromophenol	96.15	70.18	73.0	40 - 125	

ANALYSIS DATA SHEET

GW0177

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-03	File ID:	0815203.D
Sampled:	08/11/11 14:20	Prepared:	08/15/11 13:17	Analyzed:	08/29/11 14:35
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1H24204 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		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	Q, 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	Q, 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	Y, U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	Q, X, 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	Q, 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	Y, 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	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	Q, U
51-28-5	2,4-Dinitrophenol		12.0	24.0	48.1	Q, 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	X, Q, U

ANALYSIS DATA SHEET

GW0177

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-03	File ID:	0815203.D
Sampled:	08/11/11 14:20	Prepared:	08/15/11 13:17	Analyzed:	08/29/11 14:35
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1H24204 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	Q, 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	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	Q, U
108-39-4/106	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	U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	Q, U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	Q, 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	Q, U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	16.02	33.3	50 - 110	*
2-Fluorophenol	96.15	21.69	22.6	20 - 110	
Nitrobenzene-d5	48.08	22.81	47.4	40 - 110	
Phenol-d6	96.15	11.89	12.4	0 - 110	
Terphenyl-d14	48.08	48.48	101	50 - 135	
2,4,6-Tribromophenol	96.15	66.15	68.8	40 - 125	

ANALYSIS DATA SHEET

GW0178

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-05	File ID:	0815205.D
Sampled:	08/11/11 11:36	Prepared:	08/15/11 13:17	Analyzed:	08/31/11 02:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1H24307 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	U
98-86-2	Acetophenone		1.18	2.36	4.72	U
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	Q, U
100-52-7	Benzaldehyde		1.18	2.36	4.72	U
92-87-5	Benzidine		11.8	23.6	47.2	U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	Q, U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	X, U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	23.6	47.2	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	Q, X, U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	Q, U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	X, U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	Q, U
51-28-5	2,4-Dinitrophenol		11.8	23.6	47.2	X, Q, U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	U
606-20-2	2,6-Dinitrotoluene		1.18	2.36	4.72	U
117-84-0	Di-n-octylphthalate		1.18	2.36	4.72	Q, X, U

ANALYSIS DATA SHEET

GW0178

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-05	File ID:	0815205.D
Sampled:	08/11/11 11:36	Prepared:	08/15/11 13:17	Analyzed:	08/31/11 02:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1H24307 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.18	2.36	4.72	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	Q, X, U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	U
90-12-0	1-Methylnaphthalene		1.18	2.36	4.72	U
91-57-6	2-Methylnaphthalene		1.18	2.36	4.72	U
95-48-7	2-Methylphenol		1.18	2.36	4.72	Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.18	2.36	4.72	U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	Q, U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	U
621-64-7	N-Nitroso-di-n-propylamine		1.18	2.36	4.72	U
87-86-5	Pentachlorophenol		4.72	9.43	18.9	Q, U
85-01-8	Phenanthrene		1.18	2.36	4.72	U
108-95-2	Phenol		1.18	2.36	4.72	U
129-00-0	Pyrene		1.18	2.36	4.72	U
88-06-2	2,4,6-Trichlorophenol		1.18	2.36	4.72	Q, U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	23.06	48.9	50 - 110	*
2-Fluorophenol	94.34	29.88	31.7	20 - 110	
Nitrobenzene-d5	47.17	29.09	61.7	40 - 110	
Phenol-d6	94.34	15.76	16.7	0 - 110	
Terphenyl-d14	47.17	51.11	108	50 - 135	
2,4,6-Tribromophenol	94.34	71.53	75.8	40 - 125	

ANALYSIS DATA SHEET

GW0180

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-07	File ID:	0815207.D
Sampled:	08/11/11 11:46	Prepared:	08/15/11 13:17	Analyzed:	08/31/11 02:49
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1H24307 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	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	Q, 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	Q, X, 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	Q, U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
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	Q, U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, Q, 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, Q, U

ANALYSIS DATA SHEET

GW0180

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-07	File ID:	0815207.D
Sampled:	08/11/11 11:46	Prepared:	08/15/11 13:17	Analyzed:	08/31/11 02:49
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1H24307 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	Q, X, 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	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	Q, U
108-39-4/106	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	Q, 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	Q, 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	Q, U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	25.21	50.4	50 - 110	
2-Fluorophenol	100.0	28.50	28.5	20 - 110	
Nitrobenzene-d5	50.00	30.91	61.8	40 - 110	
Phenol-d6	100.0	15.56	15.6	0 - 110	
Terphenyl-d14	50.00	50.92	102	50 - 135	
2,4,6-Tribromophenol	100.0	70.80	70.8	40 - 125	

ANALYSIS DATA SHEET

GW0181

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-09	File ID:	0815209.D
Sampled:	08/11/11 11:46	Prepared:	08/15/11 13:17	Analyzed:	08/29/11 16:39
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1H24204 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.17	2.34	4.67	U
208-96-8	Acenaphthylene		1.17	2.34	4.67	U
98-86-2	Acetophenone		1.17	2.34	4.67	U
120-12-7	Anthracene		1.17	2.34	4.67	U
1912-24-9	Atrazine		1.17	2.34	4.67	Q, U
100-52-7	Benzaldehyde		1.17	2.34	4.67	U
92-87-5	Benzidine		11.7	23.4	46.7	X, U
56-55-3	Benzo(a)anthracene		1.17	2.34	4.67	Q, U
50-32-8	Benzo(a)pyrene		1.17	2.34	4.67	U
205-99-2	Benzo(b)fluoranthene		1.17	2.34	4.67	U
191-24-2	Benzo(g,h,i)perylene		1.17	2.34	4.67	U
65-85-0	Benzoic acid		11.7	23.4	46.7	Y, U
207-08-9	Benzo(k)fluoranthene		1.17	2.34	4.67	U
92-52-4	1,1-Biphenyl		1.17	2.34	4.67	U
101-55-3	4-Bromophenyl-phenylether		1.17	2.34	4.67	U
85-68-7	Butylbenzylphthalate		1.17	2.34	4.67	X, Q, U
105-60-2	Caprolactam		1.17	2.34	4.67	Q, U
86-74-8	Carbazole		1.17	2.34	4.67	U
59-50-7	4-Chloro-3-methylphenol		1.17	2.34	4.67	Q, U
106-47-8	4-Chloroaniline		1.17	2.34	4.67	U
111-91-1	Bis(2-chloroethoxy)methane		1.17	2.34	4.67	U
111-44-4	Bis(2-chloroethyl)ether		1.17	2.34	4.67	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.17	2.34	4.67	Y, U
91-58-7	2-Chloronaphthalene		1.17	2.34	4.67	U
95-57-8	2-Chlorophenol		1.17	2.34	4.67	U
7005-72-3	4-Chlorophenyl phenyl ether		1.17	2.34	4.67	U
218-01-9	Chrysene		1.17	2.34	4.67	U
53-70-3	Dibenz(a,h)anthracene		1.17	2.34	4.67	U
132-64-9	Dibenzofuran		1.17	2.34	4.67	U
84-74-2	Di-n-butylphthalate		1.17	2.34	4.67	U
91-94-1	3,3'-Dichlorobenzidine		1.17	2.34	4.67	U
120-83-2	2,4-Dichlorophenol		1.17	2.34	4.67	U
84-66-2	Diethylphthalate		1.17	2.34	4.67	U
105-67-9	2,4-Dimethylphenol		4.67	9.35	18.7	U
131-11-3	Dimethyl phthalate		1.17	2.34	4.67	U
534-52-1	4,6-Dinitro-2-methylphenol		4.67	9.35	18.7	Q, U
51-28-5	2,4-Dinitrophenol		11.7	23.4	46.7	X, Q, U
121-14-2	2,4-Dinitrotoluene		1.17	2.34	4.67	U
606-20-2	2,6-Dinitrotoluene		1.17	2.34	4.67	U
117-84-0	Di-n-octylphthalate		1.17	2.34	4.67	X, Q, U

ANALYSIS DATA SHEET

GW0181

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-09	File ID:	0815209.D
Sampled:	08/11/11 11:46	Prepared:	08/15/11 13:17	Analyzed:	08/29/11 16:39
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1H24204 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.17	2.34	4.67	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.17	2.34	4.67	Q, U
206-44-0	Fluoranthene		1.17	2.34	4.67	U
86-73-7	Fluorene		1.17	2.34	4.67	U
118-74-1	Hexachlorobenzene		1.17	2.34	4.67	U
87-68-3	Hexachlorobutadiene		1.17	2.34	4.67	U
77-47-4	Hexachlorocyclopentadiene		1.17	2.34	4.67	U
67-72-1	Hexachloroethane		1.17	2.34	4.67	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.17	2.34	4.67	U
78-59-1	Isophorone		1.17	2.34	4.67	U
90-12-0	1-Methylnaphthalene		1.17	2.34	4.67	U
91-57-6	2-Methylnaphthalene		1.17	2.34	4.67	U
95-48-7	2-Methylphenol		1.17	2.34	4.67	Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.17	2.34	4.67	U
100-01-6	4-Nitroaniline		4.67	9.35	18.7	U
99-09-2	3-Nitroaniline		4.67	9.35	18.7	U
88-74-4	2-Nitroaniline		4.67	9.35	18.7	U
98-95-3	Nitrobenzene		1.17	2.34	4.67	U
100-02-7	4-Nitrophenol		4.67	9.35	18.7	U
88-75-5	2-Nitrophenol		1.17	2.34	4.67	Q, U
86-30-6	N-Nitrosodiphenylamine		1.17	2.34	4.67	U
621-64-7	N-Nitroso-di-n-propylamine		1.17	2.34	4.67	U
87-86-5	Pentachlorophenol		4.67	9.35	18.7	Q, U
85-01-8	Phenanthrene		1.17	2.34	4.67	U
108-95-2	Phenol		1.17	2.34	4.67	U
129-00-0	Pyrene		1.17	2.34	4.67	U
88-06-2	2,4,6-Trichlorophenol		1.17	2.34	4.67	Q, U
95-95-4	2,4,5-Trichlorophenol		1.17	2.34	4.67	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	22.11	47.3	50 - 110	*
2-Fluorophenol	93.46	25.09	26.8	20 - 110	
Nitrobenzene-d5	46.73	27.13	58.1	40 - 110	
Phenol-d6	93.46	15.23	16.3	0 - 110	
Terphenyl-d14	46.73	42.16	90.2	50 - 135	
2,4,6-Tribromophenol	93.46	45.17	48.3	40 - 125	

ANALYSIS DATA SHEET

GW0179

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108166-01	File ID:	0816601.D
Sampled:	08/12/11 11:17	Prepared:	08/15/11 13:17	Analyzed:	09/02/11 06:16
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1I24513 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		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	Q, 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	Q, 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	X, U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	Q, X, 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	Q, 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	Q, U
51-28-5	2,4-Dinitrophenol		12.0	24.0	48.1	Q, 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	X, Q, U

ANALYSIS DATA SHEET

GW0179

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108166-01	File ID:	0816601.D
Sampled:	08/12/11 11:17	Prepared:	08/15/11 13:17	Analyzed:	09/02/11 06:16
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H15007 Sequence: 1I24513 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	Q, X, 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	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	Q, U
108-39-4/106	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	U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	Q, U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	Q, 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	Q, U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	23.10	48.1	50 - 110	*
2-Fluorophenol	96.15	20.84	21.7	20 - 110	
Nitrobenzene-d5	48.08	26.34	54.8	40 - 110	
Phenol-d6	96.15	14.16	14.7	0 - 110	
Terphenyl-d14	48.08	38.27	79.6	50 - 135	
2,4,6-Tribromophenol	96.15	32.45	33.7	40 - 125	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23205	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H23205-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 08/19/11 16:24		
2-Fluorobiphenyl	50.00	106	80 - 120	10.768	10.768	0.0000	+/-0.500	
2-Fluorophenol	100.0	101	80 - 120	6.164	6.164	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	89.9	80 - 120	8.498	8.498	0.0000	+/-0.500	
Phenol-d6	100.0	95.7	80 - 120	7.301	7.301	0.0000	+/-0.500	
Terphenyl-d14	50.00	110	80 - 120	15.993	15.993	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	89.3	80 - 120	12.611	12.611	0.0000	+/-0.500	
Blank (1H12004-BLK1) ug/L				Lab File ID: H12004B1.D		Analyzed: 08/19/11 19:08		
2-Fluorobiphenyl	50.00	39.5	50 - 110	10.751	10.768	-0.0170	+/-0.500	*
2-Fluorophenol	100.0	24.1	20 - 110	6.151	6.164	-0.0130	+/-0.500	
Nitrobenzene-d5	50.00	50.3	40 - 110	8.48	8.498	-0.0180	+/-0.500	
Phenol-d6	100.0	14.3	0 - 110	7.273	7.301	-0.0280	+/-0.500	
Terphenyl-d14	50.00	94.8	50 - 135	15.98	15.993	-0.0130	+/-0.500	
2,4,6-Tribromophenol	100.0	56.9	40 - 125	12.599	12.611	-0.0120	+/-0.500	
LCS (1H12004-BS1) ug/L				Lab File ID: H12004L1.D		Analyzed: 08/19/11 22:29		
2-Fluorobiphenyl	50.00	61.1	50 - 110	10.76	10.768	-0.0080	+/-0.500	
2-Fluorophenol	100.0	32.2	20 - 110	6.15	6.164	-0.0140	+/-0.500	
Nitrobenzene-d5	50.00	70.6	40 - 110	8.49	8.498	-0.0080	+/-0.500	
Phenol-d6	100.0	19.4	0 - 110	7.283	7.301	-0.0180	+/-0.500	
Terphenyl-d14	50.00	111	50 - 135	15.99	15.993	-0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	66.7	40 - 125	12.609	12.611	-0.0020	+/-0.500	
LCS Dup (1H12004-BSD1) ug/L				Lab File ID: H12004L2.D		Analyzed: 08/19/11 23:10		
2-Fluorobiphenyl	50.00	52.2	50 - 110	10.755	10.768	-0.0130	+/-0.500	
2-Fluorophenol	100.0	30.1	20 - 110	6.145	6.164	-0.0190	+/-0.500	
Nitrobenzene-d5	50.00	60.1	40 - 110	8.485	8.498	-0.0130	+/-0.500	
Phenol-d6	100.0	18.6	0 - 110	7.278	7.301	-0.0230	+/-0.500	
Terphenyl-d14	50.00	101	50 - 135	15.98	15.993	-0.0130	+/-0.500	
2,4,6-Tribromophenol	100.0	48.9	40 - 125	12.604	12.611	-0.0070	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23536	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H23536-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 08/22/11 17:02		
2-Fluorobiphenyl	50.00	107	80 - 120	10.675	10.675	0.0000	+/-0.500	
2-Fluorophenol	100.0	100	80 - 120	6.059	6.059	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	90.3	80 - 120	8.405	8.405	0.0000	+/-0.500	
Phenol-d6	100.0	95.9	80 - 120	7.197	7.197	0.0000	+/-0.500	
Terphenyl-d14	50.00	109	80 - 120	15.873	15.873	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	91.0	80 - 120	12.518	12.518	0.0000	+/-0.500	
Blank (1H10018-BLK1) ug/L				Lab File ID: H10018B1.D		Analyzed: 08/22/11 21:44		
2-Fluorobiphenyl	50.00	66.5	50 - 110	10.659	10.675	-0.0160	+/-0.500	
2-Fluorophenol	100.0	35.6	20 - 110	6.044	6.059	-0.0150	+/-0.500	
Nitrobenzene-d5	50.00	71.3	40 - 110	8.389	8.405	-0.0160	+/-0.500	
Phenol-d6	100.0	21.5	0 - 110	7.171	7.197	-0.0260	+/-0.500	
Terphenyl-d14	50.00	104	50 - 135	15.862	15.873	-0.0110	+/-0.500	
2,4,6-Tribromophenol	100.0	78.7	40 - 125	12.502	12.518	-0.0160	+/-0.500	
LCS (1H10018-BS1) ug/L				Lab File ID: H10018L1.D		Analyzed: 08/22/11 22:24		
2-Fluorobiphenyl	50.00	71.4	50 - 110	10.675	10.675	0.0000	+/-0.500	
2-Fluorophenol	100.0	40.7	20 - 110	6.059	6.059	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	73.6	40 - 110	8.404	8.405	-0.0010	+/-0.500	
Phenol-d6	100.0	24.1	0 - 110	7.192	7.197	-0.0050	+/-0.500	
Terphenyl-d14	50.00	110	50 - 135	15.873	15.873	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	71.2	40 - 125	12.518	12.518	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23537	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H23537-CCV1) ug/mL				Lab File ID: SEQ-CCV3.D		Analyzed: 08/23/11 04:56		
2-Fluorobiphenyl	50.00	105	80 - 120	10.667	10.667	0.0000	+/-0.500	
2-Fluorophenol	100.0	95.6	80 - 120	6.052	6.052	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	90.1	80 - 120	8.397	8.397	0.0000	+/-0.500	
Phenol-d6	100.0	96.9	80 - 120	7.195	7.195	0.0000	+/-0.500	
Terphenyl-d14	50.00	112	80 - 120	15.865	15.865	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	90.7	80 - 120	12.51	12.51	0.0000	+/-0.500	
GW0155-R (1108110-01) ug/L				Lab File ID: 0811001.D		Analyzed: 08/23/11 13:45		
2-Fluorobiphenyl	50.00	60.9	50 - 110	10.673	10.667	0.0060	+/-0.500	
2-Fluorophenol	100.0	34.2	20 - 110	6.057	6.052	0.0050	+/-0.500	
Nitrobenzene-d5	50.00	65.1	40 - 110	8.397	8.397	0.0000	+/-0.500	
Phenol-d6	100.0	19.5	0 - 110	7.184	7.195	-0.0110	+/-0.500	
Terphenyl-d14	50.00	115	50 - 135	15.876	15.865	0.0110	+/-0.500	
2,4,6-Tribromophenol	100.0	85.0	40 - 125	12.51	12.51	0.0000	+/-0.500	
GW0156-R (1108110-03) ug/L				Lab File ID: 0811003.D		Analyzed: 08/23/11 14:27		
2-Fluorobiphenyl	49.02	65.7	50 - 110	10.67	10.667	0.0030	+/-0.500	
2-Fluorophenol	98.04	37.0	20 - 110	6.054	6.052	0.0020	+/-0.500	
Nitrobenzene-d5	49.02	70.8	40 - 110	8.394	8.397	-0.0030	+/-0.500	
Phenol-d6	98.04	21.1	0 - 110	7.182	7.195	-0.0130	+/-0.500	
Terphenyl-d14	49.02	112	50 - 135	15.873	15.865	0.0080	+/-0.500	
2,4,6-Tribromophenol	98.04	86.0	40 - 125	12.513	12.51	0.0030	+/-0.500	
GW0176 (1108110-05) ug/L				Lab File ID: 0811005.D		Analyzed: 08/23/11 15:09		
2-Fluorobiphenyl	49.02	75.4	50 - 110	10.669	10.667	0.0020	+/-0.500	
2-Fluorophenol	98.04	38.3	20 - 110	6.054	6.052	0.0020	+/-0.500	
Nitrobenzene-d5	49.02	76.6	40 - 110	8.399	8.397	0.0020	+/-0.500	
Phenol-d6	98.04	21.7	0 - 110	7.181	7.195	-0.0140	+/-0.500	
Terphenyl-d14	49.02	108	50 - 135	15.872	15.865	0.0070	+/-0.500	
2,4,6-Tribromophenol	98.04	87.9	40 - 125	12.512	12.51	0.0020	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23612	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H23612-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 08/23/11 20:05		
2-Fluorobiphenyl	50.00	106	80 - 120	10.641	10.641	0.0000	+/-0.500	
2-Fluorophenol	100.0	104	80 - 120	6.031	6.031	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	92.9	80 - 120	8.37	8.37	0.0000	+/-0.500	
Phenol-d6	100.0	98.4	80 - 120	7.168	7.168	0.0000	+/-0.500	
Terphenyl-d14	50.00	111	80 - 120	15.828	15.828	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	91.2	80 - 120	12.484	12.484	0.0000	+/-0.500	
GW8023-RB (1108110-07) ug/L				Lab File ID: 0811007.D		Analyzed: 08/24/11 05:58		
2-Fluorobiphenyl	46.73	61.6	50 - 110	10.634	10.641	-0.0070	+/-0.500	
2-Fluorophenol	93.46	33.4	20 - 110	6.018	6.031	-0.0130	+/-0.500	
Nitrobenzene-d5	46.73	68.0	40 - 110	8.358	8.37	-0.0120	+/-0.500	
Phenol-d6	93.46	17.6	0 - 110	7.145	7.168	-0.0230	+/-0.500	
Terphenyl-d14	46.73	113	50 - 135	15.821	15.828	-0.0070	+/-0.500	
2,4,6-Tribromophenol	93.46	83.3	40 - 125	12.471	12.484	-0.0130	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23813	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H23813-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 08/25/11 16:21		
2-Fluorobiphenyl	50.00	109	80 - 120	10.601	10.601	0.0000	+/-0.500	
2-Fluorophenol	100.0	100	80 - 120	5.986	5.986	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	94.1	80 - 120	8.331	8.331	0.0000	+/-0.500	
Phenol-d6	100.0	96.7	80 - 120	7.129	7.129	0.0000	+/-0.500	
Terphenyl-d14	50.00	111	80 - 120	15.783	15.783	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	92.8	80 - 120	12.444	12.444	0.0000	+/-0.500	
GW0162 (1108126-01) ug/L				Lab File ID: 0812601.D		Analyzed: 08/25/11 20:45		
2-Fluorobiphenyl	52.08	74.2	50 - 110	10.602	10.601	0.0010	+/-0.500	
2-Fluorophenol	104.2	34.9	20 - 110	5.981	5.986	-0.0050	+/-0.500	
Nitrobenzene-d5	52.08	69.4	40 - 110	8.321	8.331	-0.0100	+/-0.500	
Phenol-d6	104.2	18.4	0 - 110	7.109	7.129	-0.0200	+/-0.500	
Terphenyl-d14	52.08	103	50 - 135	15.784	15.783	0.0010	+/-0.500	
2,4,6-Tribromophenol	104.2	79.7	40 - 125	12.435	12.444	-0.0090	+/-0.500	
GW0244 (1108126-03) ug/L				Lab File ID: 0812603.D		Analyzed: 08/25/11 21:25		
2-Fluorobiphenyl	49.02	76.0	50 - 110	10.599	10.601	-0.0020	+/-0.500	
2-Fluorophenol	98.04	35.5	20 - 110	5.978	5.986	-0.0080	+/-0.500	
Nitrobenzene-d5	49.02	70.5	40 - 110	8.323	8.331	-0.0080	+/-0.500	
Phenol-d6	98.04	19.1	0 - 110	7.105	7.129	-0.0240	+/-0.500	
Terphenyl-d14	49.02	98.8	50 - 135	15.781	15.783	-0.0020	+/-0.500	
2,4,6-Tribromophenol	98.04	78.5	40 - 125	12.436	12.444	-0.0080	+/-0.500	
GW0191 (1108138-02) ug/L				Lab File ID: 0813802.D		Analyzed: 08/26/11 00:11		
2-Fluorobiphenyl	47.17	52.3	50 - 110	10.603	10.601	0.0020	+/-0.500	
2-Fluorophenol	94.34	30.0	20 - 110	5.982	5.986	-0.0040	+/-0.500	
Nitrobenzene-d5	47.17	65.4	40 - 110	8.327	8.331	-0.0040	+/-0.500	
Phenol-d6	94.34	16.4	0 - 110	7.109	7.129	-0.0200	+/-0.500	
Terphenyl-d14	47.17	108	50 - 135	15.784	15.783	0.0010	+/-0.500	
2,4,6-Tribromophenol	94.34	79.6	40 - 125	12.44	12.444	-0.0040	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24204	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H24204-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 08/29/11 09:47		
2-Fluorobiphenyl	50.00	110	80 - 120	10.522	10.522	0.0000	+/-0.500	
2-Fluorophenol	100.0	101	80 - 120	5.896	5.896	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	91.7	80 - 120	8.246	8.246	0.0000	+/-0.500	
Phenol-d6	100.0	96.8	80 - 120	7.039	7.039	0.0000	+/-0.500	
Terphenyl-d14	50.00	109	80 - 120	15.677	15.677	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	92.5	80 - 120	12.36	12.36	0.0000	+/-0.500	
GW0161 (1108152-01) ug/L				Lab File ID: 0815201.D		Analyzed: 08/29/11 13:53		
2-Fluorobiphenyl	48.08	49.9	50 - 110	10.516	10.522	-0.0060	+/-0.500	*
2-Fluorophenol	96.15	31.1	20 - 110	5.895	5.896	-0.0010	+/-0.500	
Nitrobenzene-d5	48.08	59.1	40 - 110	8.241	8.246	-0.0050	+/-0.500	
Phenol-d6	96.15	16.8	0 - 110	7.028	7.039	-0.0110	+/-0.500	
Terphenyl-d14	48.08	99.5	50 - 135	15.677	15.677	0.0000	+/-0.500	
2,4,6-Tribromophenol	96.15	73.0	40 - 125	12.354	12.36	-0.0060	+/-0.500	
GW0177 (1108152-03) ug/L				Lab File ID: 0815203.D		Analyzed: 08/29/11 14:35		
2-Fluorobiphenyl	48.08	33.3	50 - 110	10.513	10.522	-0.0090	+/-0.500	*
2-Fluorophenol	96.15	22.6	20 - 110	5.892	5.896	-0.0040	+/-0.500	
Nitrobenzene-d5	48.08	47.4	40 - 110	8.232	8.246	-0.0140	+/-0.500	
Phenol-d6	96.15	12.4	0 - 110	7.025	7.039	-0.0140	+/-0.500	
Terphenyl-d14	48.08	101	50 - 135	15.668	15.677	-0.0090	+/-0.500	
2,4,6-Tribromophenol	96.15	68.8	40 - 125	12.346	12.36	-0.0140	+/-0.500	
GW0181 (1108152-09) ug/L				Lab File ID: 0815209.D		Analyzed: 08/29/11 16:39		
2-Fluorobiphenyl	46.73	47.3	50 - 110	10.522	10.522	0.0000	+/-0.500	*
2-Fluorophenol	93.46	26.8	20 - 110	5.901	5.896	0.0050	+/-0.500	
Nitrobenzene-d5	46.73	58.1	40 - 110	8.246	8.246	0.0000	+/-0.500	
Phenol-d6	93.46	16.3	0 - 110	7.033	7.039	-0.0060	+/-0.500	
Terphenyl-d14	46.73	90.2	50 - 135	15.677	15.677	0.0000	+/-0.500	
2,4,6-Tribromophenol	93.46	48.3	40 - 125	12.354	12.36	-0.0060	+/-0.500	
GW0160 (1108138-01) ug/L				Lab File ID: 0813801.D		Analyzed: 08/29/11 19:19		
2-Fluorobiphenyl	47.17	47.1	50 - 110	10.519	10.522	-0.0030	+/-0.500	*
2-Fluorophenol	94.34	18.5	20 - 110	5.893	5.896	-0.0030	+/-0.500	*
Nitrobenzene-d5	47.17	62.3	40 - 110	8.238	8.246	-0.0080	+/-0.500	
Phenol-d6	94.34	8.92	0 - 110	7.031	7.039	-0.0080	+/-0.500	
Terphenyl-d14	47.17	101	50 - 135	15.674	15.677	-0.0030	+/-0.500	
2,4,6-Tribromophenol	94.34	71.1	40 - 125	12.352	12.36	-0.0080	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24204	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Matrix Spike (1H15007-MS1) ug/L				Lab File ID: 0813801M.D		Analyzed: 08/29/11 19:59		
2-Fluorobiphenyl	55.56	74.0	50 - 110	10.517	10.522	-0.0050	+/-0.500	
2-Fluorophenol	111.1	32.4	20 - 110	5.891	5.896	-0.0050	+/-0.500	
Nitrobenzene-d5	55.56	70.8	40 - 110	8.241	8.246	-0.0050	+/-0.500	
Phenol-d6	111.1	19.7	0 - 110	7.028	7.039	-0.0110	+/-0.500	
Terphenyl-d14	55.56	98.1	50 - 135	15.672	15.677	-0.0050	+/-0.500	
2,4,6-Tribromophenol	111.1	78.4	40 - 125	12.354	12.36	-0.0060	+/-0.500	
Matrix Spike Dup (1H15007-MSD1) ug/L				Lab File ID: 0813801S.D		Analyzed: 08/29/11 20:38		
2-Fluorobiphenyl	49.02	62.4	50 - 110	10.516	10.522	-0.0060	+/-0.500	
2-Fluorophenol	98.04	27.1	20 - 110	5.895	5.896	-0.0010	+/-0.500	
Nitrobenzene-d5	49.02	58.3	40 - 110	8.24	8.246	-0.0060	+/-0.500	
Phenol-d6	98.04	16.9	0 - 110	7.028	7.039	-0.0110	+/-0.500	
Terphenyl-d14	49.02	82.9	50 - 135	15.671	15.677	-0.0060	+/-0.500	
2,4,6-Tribromophenol	98.04	47.7	40 - 125	12.349	12.36	-0.0110	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24307	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H24307-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 08/30/11 18:52		
2-Fluorobiphenyl	50.00	108	80 - 120	10.507	10.507	0.0000	+/-0.500	
2-Fluorophenol	100.0	103	80 - 120	5.892	5.892	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	94.8	80 - 120	8.237	8.237	0.0000	+/-0.500	
Phenol-d6	100.0	95.9	80 - 120	7.04	7.04	0.0000	+/-0.500	
Terphenyl-d14	50.00	112	80 - 120	15.655	15.655	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	88.0	80 - 120	12.349	12.349	0.0000	+/-0.500	
Blank (1H15007-BLK1) ug/L				Lab File ID: H15007B1.D		Analyzed: 08/30/11 20:51		
2-Fluorobiphenyl	50.00	41.0	50 - 110	10.482	10.507	-0.0250	+/-0.500	*
2-Fluorophenol	100.0	27.0	20 - 110	5.862	5.892	-0.0300	+/-0.500	
Nitrobenzene-d5	50.00	53.3	40 - 110	8.207	8.237	-0.0300	+/-0.500	
Phenol-d6	100.0	16.3	0 - 110	6.994	7.04	-0.0460	+/-0.500	
Terphenyl-d14	50.00	86.7	50 - 135	15.631	15.655	-0.0240	+/-0.500	
2,4,6-Tribromophenol	100.0	44.4	40 - 125	12.314	12.349	-0.0350	+/-0.500	
LCS (1H15007-BS1) ug/L				Lab File ID: H15007L1.D		Analyzed: 08/30/11 22:10		
2-Fluorobiphenyl	50.00	42.9	50 - 110	10.486	10.507	-0.0210	+/-0.500	*
2-Fluorophenol	100.0	27.0	20 - 110	5.861	5.892	-0.0310	+/-0.500	
Nitrobenzene-d5	50.00	51.7	40 - 110	8.211	8.237	-0.0260	+/-0.500	
Phenol-d6	100.0	17.4	0 - 110	6.998	7.04	-0.0420	+/-0.500	
Terphenyl-d14	50.00	96.2	50 - 135	15.629	15.655	-0.0260	+/-0.500	
2,4,6-Tribromophenol	100.0	43.5	40 - 125	12.318	12.349	-0.0310	+/-0.500	
LCS Dup (1H15007-BSD1) ug/L				Lab File ID: H15007L2.D		Analyzed: 08/30/11 22:49		
2-Fluorobiphenyl	50.00	45.8	50 - 110	10.494	10.507	-0.0130	+/-0.500	*
2-Fluorophenol	100.0	30.6	20 - 110	5.874	5.892	-0.0180	+/-0.500	
Nitrobenzene-d5	50.00	60.8	40 - 110	8.219	8.237	-0.0180	+/-0.500	
Phenol-d6	100.0	18.6	0 - 110	7.012	7.04	-0.0280	+/-0.500	
Terphenyl-d14	50.00	115	50 - 135	15.643	15.655	-0.0120	+/-0.500	
2,4,6-Tribromophenol	100.0	64.4	40 - 125	12.332	12.349	-0.0170	+/-0.500	
GW0178 (1108152-05) ug/L				Lab File ID: 0815205.D		Analyzed: 08/31/11 02:09		
2-Fluorobiphenyl	47.17	48.9	50 - 110	10.481	10.507	-0.0260	+/-0.500	*
2-Fluorophenol	94.34	31.7	20 - 110	5.861	5.892	-0.0310	+/-0.500	
Nitrobenzene-d5	47.17	61.7	40 - 110	8.206	8.237	-0.0310	+/-0.500	
Phenol-d6	94.34	16.7	0 - 110	6.994	7.04	-0.0460	+/-0.500	
Terphenyl-d14	47.17	108	50 - 135	15.636	15.655	-0.0190	+/-0.500	
2,4,6-Tribromophenol	94.34	75.8	40 - 125	12.319	12.349	-0.0300	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24307	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0180 (1108152-07) ug/L				Lab File ID: 0815207.D		Analyzed: 08/31/11 02:49		
2-Fluorobiphenyl	50.00	50.4	50 - 110	10.485	10.507	-0.0220	+/-0.500	
2-Fluorophenol	100.0	28.5	20 - 110	5.865	5.892	-0.0270	+/-0.500	
Nitrobenzene-d5	50.00	61.8	40 - 110	8.21	8.237	-0.0270	+/-0.500	
Phenol-d6	100.0	15.6	0 - 110	7.003	7.04	-0.0370	+/-0.500	
Terphenyl-d14	50.00	102	50 - 135	15.639	15.655	-0.0160	+/-0.500	
2,4,6-Tribromophenol	100.0	70.8	40 - 125	12.328	12.349	-0.0210	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I24513	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I24513-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 09/01/11 23:11		
2-Fluorobiphenyl	50.00	107	80 - 120	10.437	10.437	0.0000	+/-0.500	
2-Fluorophenol	100.0	101	80 - 120	5.828	5.828	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	92.6	80 - 120	8.167	8.167	0.0000	+/-0.500	
Phenol-d6	100.0	94.8	80 - 120	6.976	6.976	0.0000	+/-0.500	
Terphenyl-d14	50.00	115	80 - 120	15.57	15.57	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	91.7	80 - 120	12.28	12.28	0.0000	+/-0.500	
GW0179 (1108166-01) ug/L				Lab File ID: 0816601.D		Analyzed: 09/02/11 06:16		
2-Fluorobiphenyl	48.08	48.1	50 - 110	10.423	10.437	-0.0140	+/-0.500	*
2-Fluorophenol	96.15	21.7	20 - 110	5.808	5.828	-0.0200	+/-0.500	
Nitrobenzene-d5	48.08	54.8	40 - 110	8.142	8.167	-0.0250	+/-0.500	
Phenol-d6	96.15	14.7	0 - 110	6.94	6.976	-0.0360	+/-0.500	
Terphenyl-d14	48.08	79.6	50 - 135	15.55	15.57	-0.0200	+/-0.500	
2,4,6-Tribromophenol	96.15	33.7	40 - 125	12.255	12.28	-0.0250	+/-0.500	*

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H10018	Laboratory ID:	1H10018-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	45.58	91.2	45 - 110
Acenaphthylene	50.00	42.89	85.8	50 - 105
Acetophenone	50.00	43.30	86.6	50 - 110
Anthracene	50.00	48.43	96.9	55 - 110
Atrazine	50.00	42.47	84.9	70 - 115
Benzaldehyde	50.00	43.80	87.6	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	51.70	103	55 - 110
Benzo(a)pyrene	50.00	49.63	99.3	55 - 110
Benzo(b)fluoranthene	50.00	53.16	106	45 - 120
Benzo(g,h,i)perylene	50.00	47.83	95.7	40 - 125
Benzoic acid	50.00	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	51.55	103	45 - 125
1,1-Biphenyl	50.00	46.88	93.8	50 - 110
4-Bromophenyl-phenylether	50.00	45.53	91.1	50 - 115
Butylbenzylphthalate	**50.00**	**67.45**	**135**	**45 - 115**
Caprolactam	**50.00**	**6.548**	**13.1**	**20 - 110**
Carbazole	50.00	47.48	95.0	50 - 115
4-Chloro-3-methylphenol	50.00	28.83	57.7	45 - 110
4-Chloroaniline	50.00	29.25	58.5	15 - 110
Bis(2-chloroethoxy)methane	50.00	42.85	85.7	45 - 105
Bis(2-chloroethyl)ether	50.00	41.83	83.7	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	49.76	99.5	25 - 130
2-Chloronaphthalene	50.00	45.28	90.6	50 - 105
2-Chlorophenol	50.00	29.60	59.2	35 - 105
4-Chlorophenyl phenyl ether	50.00	47.05	94.1	50 - 110
Chrysene	50.00	51.42	103	55 - 110
Dibenz(a,h)anthracene	50.00	48.89	97.8	40 - 125
Dibenzofuran	50.00	48.98	98.0	55 - 105
Di-n-butylphthalate	50.00	53.66	107	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H10018	Laboratory ID:	1H10018-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	39.44	78.9	20 - 110
2,4-Dichlorophenol	50.00	30.73	61.5	40 - 110
Diethylphthalate	50.00	50.26	101	40 - 120
2,4-Dimethylphenol	50.00	26.59	53.2	30 - 110
Dimethyl phthalate	50.00	45.50	91.0	25 - 125
4,6-Dinitro-2-methylphenol	50.00	42.09	84.2	40 - 130
2,4-Dinitrophenol	50.00	35.47	70.9	15 - 140
2,4-Dinitrotoluene	50.00	48.27	96.5	50 - 120
2,6-Dinitrotoluene	50.00	47.49	95.0	50 - 115
Di-n-octylphthalate	50.00	66.65	133	35 - 135
1,2-Diphenylhydrazine	50.00	42.32	84.6	55 - 115
Bis(2-ethylhexyl)phthalate	**50.00**	**69.94**	**140**	**40 - 125**
Fluoranthene	50.00	45.81	91.6	55 - 115
Fluorene	50.00	46.13	92.3	50 - 110
Hexachlorobenzene	50.00	43.37	86.7	50 - 110
Hexachlorobutadiene	50.00	23.50	47.0	25 - 105
Hexachlorocyclopentadiene	50.00	24.25	48.5	10 - 110
Hexachloroethane	50.00	20.28	40.6	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	50.31	101	45 - 125
Isophorone	50.00	38.42	76.8	50 - 110
1-Methylnaphthalene	50.00	39.70	79.4	30 - 115
2-Methylnaphthalene	50.00	39.93	79.9	45 - 105
2-Methylphenol	50.00	25.38	50.8	40 - 110
3-Methylphenol/4-Methylphenol	50.00	23.74	47.5	30 - 110
4-Nitroaniline	50.00	41.08	82.2	35 - 120
3-Nitroaniline	50.00	34.05	68.1	20 - 125
2-Nitroaniline	50.00	40.70	81.4	50 - 115
Nitrobenzene	50.00	37.79	75.6	30 - 110
4-Nitrophenol	50.00	10.57	21.1	0 - 125
2-Nitrophenol	50.00	34.38	68.8	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H10018	Laboratory ID:	1H10018-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	40.43	80.9	50 - 110
N-Nitroso-di-n-propylamine	50.00	41.05	82.1	35 - 130
Pentachlorophenol	50.00	40.54	81.1	40 - 115
Phenanthrene	50.00	49.41	98.8	50 - 115
Phenol	50.00	12.04	24.1	0 - 115
Pyrene	50.00	56.86	114	50 - 130
2,4,6-Trichlorophenol	50.00	33.54	67.1	50 - 115
2,4,5-Trichlorophenol	50.00	32.55	65.1	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12004	Laboratory ID:	1H12004-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	43.51	87.0	45 - 110
Acenaphthylene	50.00	42.37	84.7	50 - 105
Acetophenone	50.00	41.67	83.3	50 - 110
Anthracene	50.00	49.58	99.2	55 - 110
Atrazine	50.00	41.21	82.4	70 - 115
Benzaldehyde	50.00	43.05	86.1	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	53.04	106	55 - 110
Benzo(a)pyrene	50.00	51.47	103	55 - 110
Benzo(b)fluoranthene	50.00	54.72	109	45 - 120
Benzo(g,h,i)perylene	50.00	51.44	103	40 - 125
Benzoic acid	50.00	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	51.29	103	45 - 125
1,1-Biphenyl	50.00	48.03	96.1	50 - 110
4-Bromophenyl-phenylether	50.00	45.73	91.5	50 - 115
Butylbenzylphthalate	**50.00**	**69.45**	**139**	**45 - 115**
Caprolactam	**50.00**	**7.318**	**14.6**	**20 - 110**
Carbazole	50.00	49.82	99.6	50 - 115
4-Chloro-3-methylphenol	50.00	25.00	50.0	45 - 110
4-Chloroaniline	50.00	28.13	56.3	15 - 110
Bis(2-chloroethoxy)methane	50.00	42.06	84.1	45 - 105
Bis(2-chloroethyl)ether	50.00	40.85	81.7	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	50.96	102	25 - 130
2-Chloronaphthalene	50.00	41.31	82.6	50 - 105
2-Chlorophenol	50.00	24.41	48.8	35 - 105
4-Chlorophenyl phenyl ether	50.00	47.00	94.0	50 - 110
Chrysene	50.00	53.33	107	55 - 110
Dibenz(a,h)anthracene	50.00	52.53	105	40 - 125
Dibenzofuran	50.00	47.34	94.7	55 - 105
Di-n-butylphthalate	50.00	54.24	108	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12004	Laboratory ID:	1H12004-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	42.90	85.8	20 - 110
2,4-Dichlorophenol	50.00	26.59	53.2	40 - 110
Diethylphthalate	50.00	50.48	101	40 - 120
2,4-Dimethylphenol	50.00	26.39	52.8	30 - 110
Dimethyl phthalate	50.00	43.52	87.0	25 - 125
4,6-Dinitro-2-methylphenol	50.00	40.16	80.3	40 - 130
2,4-Dinitrophenol	50.00	34.37	68.7	15 - 140
2,4-Dinitrotoluene	50.00	49.48	99.0	50 - 120
2,6-Dinitrotoluene	50.00	48.11	96.2	50 - 115
Di-n-octylphthalate	50.00	67.18	134	35 - 135
1,2-Diphenylhydrazine	50.00	42.32	84.6	55 - 115
Bis(2-ethylhexyl)phthalate	**50.00**	**70.35**	**141**	**40 - 125**
Fluoranthene	50.00	46.79	93.6	55 - 115
Fluorene	50.00	45.73	91.5	50 - 110
Hexachlorobenzene	50.00	43.55	87.1	50 - 110
Hexachlorobutadiene	50.00	12.84	25.7	25 - 105
Hexachlorocyclopentadiene	50.00	14.92	29.8	10 - 110
Hexachloroethane	**50.00**	**12.54**	**25.1**	**30 - 95**
Indeno(1,2,3-cd)pyrene	50.00	55.77	112	45 - 125
Isophorone	50.00	38.52	77.0	50 - 110
1-Methylnaphthalene	50.00	36.01	72.0	30 - 115
2-Methylnaphthalene	50.00	35.37	70.7	45 - 105
2-Methylphenol	50.00	21.10	42.2	40 - 110
3-Methylphenol/4-Methylphenol	50.00	19.82	39.6	30 - 110
4-Nitroaniline	50.00	39.53	79.1	35 - 120
3-Nitroaniline	50.00	32.29	64.6	20 - 125
2-Nitroaniline	50.00	39.28	78.6	50 - 115
Nitrobenzene	50.00	38.40	76.8	30 - 110
4-Nitrophenol	50.00	9.795	19.6	0 - 125
2-Nitrophenol	50.00	31.10	62.2	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12004	Laboratory ID:	1H12004-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	41.61	83.2	50 - 110
N-Nitroso-di-n-propylamine	50.00	39.65	79.3	35 - 130
Pentachlorophenol	50.00	40.29	80.6	40 - 115
Phenanthrene	50.00	50.21	100	50 - 115
Phenol	50.00	10.06	20.1	0 - 115
Pyrene	50.00	57.48	115	50 - 130
2,4,6-Trichlorophenol	50.00	30.32	60.6	50 - 115
2,4,5-Trichlorophenol	50.00	29.69	59.4	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	39.33	78.7	10.1	30	45 - 110
Acenaphthylene	50.00	37.01	74.0	13.5	30	50 - 105
Acetophenone	50.00	34.86	69.7	17.8	30	50 - 110
Anthracene	50.00	48.12	96.2	2.99	30	55 - 110
Atrazine	**50.00**	**33.36**	**66.7 ***	**21.0**	**30**	**70 - 115**
Benzaldehyde	50.00	36.36	72.7	16.9	30	10 - 180
Benzidine	50.00	50.0 U	0		30	0 - 200
Benzo(a)anthracene	50.00	51.57	103	2.80	30	55 - 110
Benzo(a)pyrene	50.00	49.09	98.2	4.73	30	55 - 110
Benzo(b)fluoranthene	50.00	51.94	104	5.22	30	45 - 120
Benzo(g,h,i)perylene	50.00	47.20	94.4	8.59	30	40 - 125
Benzoic acid	50.00	50.0 U	0		30	0 - 125
Benzo(k)fluoranthene	50.00	49.91	99.8	2.73	30	45 - 125
1,1-Biphenyl	50.00	41.16	82.3	15.4	30	50 - 110
4-Bromophenyl-phenylether	50.00	43.75	87.5	4.41	30	50 - 115
Butylbenzylphthalate	**50.00**	**66.13**	**132 ***	**4.91**	**30**	**45 - 115**
Caprolactam	**50.00**	**6.962**	**13.9 ***	**4.98**	**30**	**20 - 110**
Carbazole	50.00	44.12	88.2	12.1	30	50 - 115
4-Chloro-3-methylphenol	50.00	22.73	45.5	9.50	30	45 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12004	Laboratory ID:	1H12004-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	23.12	46.2	19.6	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	35.88	71.8	15.9	30	45 - 105
Bis(2-chloroethyl)ether	50.00	34.68	69.4	16.3	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	41.91	83.8	19.5	30	25 - 130
2-Chloronaphthalene	50.00	36.12	72.2	13.4	30	50 - 105
2-Chlorophenol	50.00	22.05	44.1	10.1	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	44.20	88.4	6.15	30	50 - 110
Chrysene	50.00	51.48	103	3.52	30	55 - 110
Dibenz(a,h)anthracene	50.00	50.42	101	4.10	30	40 - 125
Dibenzofuran	50.00	43.28	86.6	8.94	30	55 - 105
Di-n-butylphthalate	50.00	51.17	102	5.83	30	55 - 115
3,3'-Dichlorobenzidine	50.00	36.91	73.8	15.0	30	20 - 110
2,4-Dichlorophenol	50.00	23.12	46.2	13.9	30	40 - 110
Diethylphthalate	50.00	40.43	80.9	22.1	30	40 - 120
2,4-Dimethylphenol	50.00	22.52	45.0	15.8	30	30 - 110
Dimethyl phthalate	50.00	35.33	70.7	20.8	30	25 - 125
4,6-Dinitro-2-methylphenol	50.00	31.40	62.8	24.5	30	40 - 130
2,4-Dinitrophenol	50.00	29.52	59.0	15.2	30	15 - 140
2,4-Dinitrotoluene	50.00	42.45	84.9	15.3	30	50 - 120
2,6-Dinitrotoluene	50.00	41.38	82.8	15.0	30	50 - 115
Di-n-octylphthalate	50.00	64.67	129	3.81	30	35 - 135
1,2-Diphenylhydrazine	50.00	38.75	77.5	8.82	30	55 - 115
Bis(2-ethylhexyl)phthalate	**50.00**	**68.77**	**138 ***	**2.28**	**30**	**40 - 125**
Fluoranthene	50.00	45.34	90.7	3.16	30	55 - 115
Fluorene	50.00	42.58	85.2	7.14	30	50 - 110
Hexachlorobenzene	50.00	42.92	85.8	1.48	30	50 - 110
Hexachlorobutadiene	**50.00**	**7.521**	**15.0 ***	**52.2 ***	**30**	**25 - 105**
Hexachlorocyclopentadiene	50.00	10.72	21.4	32.7 *	30	10 - 110
Hexachloroethane	**50.00**	**7.513**	**15.0 ***	**50.1 ***	**30**	**30 - 95**
Indeno(1,2,3-cd)pyrene	50.00	51.90	104	7.19	30	45 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12004	Laboratory ID:	1H12004-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	32.21	64.4	17.9	30	50 - 110
1-Methylnaphthalene	50.00	30.25	60.5	17.4	30	30 - 115
2-Methylnaphthalene	50.00	29.48	59.0	18.2	30	45 - 105
2-Methylphenol	**50.00**	**19.46**	**38.9 ***	**8.09**	**30**	**40 - 110**
3-Methylphenol/4-Methylphenol	50.00	17.91	35.8	10.1	30	30 - 110
4-Nitroaniline	50.00	36.09	72.2	9.09	30	35 - 120
3-Nitroaniline	50.00	29.52	59.0	8.94	30	20 - 125
2-Nitroaniline	50.00	35.10	70.2	11.3	30	50 - 115
Nitrobenzene	50.00	32.97	65.9	15.2	30	30 - 110
4-Nitrophenol	50.00	9.109	18.2	7.26	30	0 - 125
2-Nitrophenol	50.00	25.72	51.4	18.9	30	40 - 115
N-Nitrosodiphenylamine	50.00	35.61	71.2	15.5	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	33.22	66.4	17.6	30	35 - 130
Pentachlorophenol	50.00	29.46	58.9	31.1 *	30	40 - 115
Phenanthrene	50.00	48.08	96.2	4.32	30	50 - 115
Phenol	50.00	9.579	19.2	4.87	30	0 - 115
Pyrene	50.00	56.22	112	2.22	30	50 - 130
2,4,6-Trichlorophenol	**50.00**	**24.00**	**48.0 ***	**23.3**	**30**	**50 - 115**
2,4,5-Trichlorophenol	**50.00**	**23.76**	**47.5 ***	**22.2**	**30**	**50 - 110**

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H15007	Laboratory ID:	1H15007-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	40.29	80.6	45 - 110
Acenaphthylene	50.00	35.50	71.0	50 - 105
Acetophenone	50.00	32.70	65.4	50 - 110
Anthracene	50.00	47.29	94.6	55 - 110
Atrazine	**50.00**	**28.49**	**57.0**	**70 - 115**
Benzaldehyde	50.00	34.07	68.1	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	52.78	106	55 - 110
Benzo(a)pyrene	50.00	51.61	103	55 - 110
Benzo(b)fluoranthene	50.00	54.23	108	45 - 120
Benzo(g,h,i)perylene	50.00	51.04	102	40 - 125
Benzoic acid	50.00	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	53.55	107	45 - 125
1,1-Biphenyl	50.00	37.46	74.9	50 - 110
4-Bromophenyl-phenylether	50.00	45.57	91.1	50 - 115
Butylbenzylphthalate	**50.00**	**66.71**	**133**	**45 - 115**
Caprolactam	**50.00**	**4.806**	**9.61**	**20 - 110**
Carbazole	50.00	40.35	80.7	50 - 115
4-Chloro-3-methylphenol	**50.00**	**22.25**	**44.5**	**45 - 110**
4-Chloroaniline	50.00	13.87	27.7	15 - 110
Bis(2-chloroethoxy)methane	50.00	33.54	67.1	45 - 105
Bis(2-chloroethyl)ether	50.00	33.38	66.8	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	33.22	66.4	25 - 130
2-Chloronaphthalene	50.00	38.99	78.0	50 - 105
2-Chlorophenol	50.00	19.84	39.7	35 - 105
4-Chlorophenyl phenyl ether	50.00	45.63	91.3	50 - 110
Chrysene	50.00	51.06	102	55 - 110
Dibenz(a,h)anthracene	50.00	52.17	104	40 - 125
Dibenzofuran	50.00	43.96	87.9	55 - 105
Di-n-butylphthalate	50.00	52.89	106	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H15007	Laboratory ID:	1H15007-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	30.60	61.2	20 - 110
2,4-Dichlorophenol	50.00	21.28	42.6	40 - 110
Diethylphthalate	50.00	41.89	83.8	40 - 120
2,4-Dimethylphenol	50.00	21.22	42.4	30 - 110
Dimethyl phthalate	50.00	37.08	74.2	25 - 125
4,6-Dinitro-2-methylphenol	50.00	20.09	40.2	40 - 130
2,4-Dinitrophenol	**50.00**	**50.0 U**	**0**	**15 - 140**
2,4-Dinitrotoluene	50.00	38.10	76.2	50 - 120
2,6-Dinitrotoluene	50.00	34.90	69.8	50 - 115
Di-n-octylphthalate	**50.00**	**68.65**	**137**	**35 - 135**
1,2-Diphenylhydrazine	50.00	40.05	80.1	55 - 115
Bis(2-ethylhexyl)phthalate	**50.00**	**67.88**	**136**	**40 - 125**
Fluoranthene	50.00	45.13	90.3	55 - 115
Fluorene	50.00	43.22	86.4	50 - 110
Hexachlorobenzene	50.00	45.38	90.8	50 - 110
Hexachlorobutadiene	50.00	16.30	32.6	25 - 105
Hexachlorocyclopentadiene	50.00	15.80	31.6	10 - 110
Hexachloroethane	**50.00**	**12.95**	**25.9**	**30 - 95**
Indeno(1,2,3-cd)pyrene	50.00	55.20	110	45 - 125
Isophorone	50.00	29.04	58.1	50 - 110
1-Methylnaphthalene	50.00	30.95	61.9	30 - 115
2-Methylnaphthalene	50.00	30.93	61.9	45 - 105
2-Methylphenol	**50.00**	**18.11**	**36.2**	**40 - 110**
3-Methylphenol/4-Methylphenol	50.00	16.93	33.9	30 - 110
4-Nitroaniline	50.00	32.53	65.1	35 - 120
3-Nitroaniline	50.00	22.29	44.6	20 - 125
2-Nitroaniline	50.00	31.74	63.5	50 - 115
Nitrobenzene	50.00	31.59	63.2	30 - 110
4-Nitrophenol	50.00	8.061	16.1	0 - 125
2-Nitrophenol	50.00	20.92	41.8	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H15007	Laboratory ID:	1H15007-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	31.72	63.4	50 - 110
N-Nitroso-di-n-propylamine	50.00	32.28	64.6	35 - 130
Pentachlorophenol	50.00	27.93	55.9	40 - 115
Phenanthrene	50.00	48.73	97.5	50 - 115
Phenol	50.00	9.434	18.9	0 - 115
Pyrene	50.00	54.34	109	50 - 130
2,4,6-Trichlorophenol	**50.00**	**24.34**	**48.7**	**50 - 115**
2,4,5-Trichlorophenol	**50.00**	**22.45**	**44.9**	**50 - 110**

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	46.88	93.8	15.1	30	45 - 110
Acenaphthylene	50.00	43.28	86.6	19.8	30	50 - 105
Acetophenone	50.00	39.44	78.9	18.7	30	50 - 110
Anthracene	50.00	49.94	99.9	5.44	30	55 - 110
Atrazine	50.00	35.18	70.4	21.0	30	70 - 115
Benzaldehyde	50.00	39.46	78.9	14.7	30	10 - 180
Benzidine	50.00	50.0 U	0		30	0 - 200
Benzo(a)anthracene	**50.00**	**55.83**	**112 ***	**5.62**	**30**	**55 - 110**
Benzo(a)pyrene	50.00	54.00	108	4.53	30	55 - 110
Benzo(b)fluoranthene	50.00	58.35	117	7.31	30	45 - 120
Benzo(g,h,i)perylene	50.00	53.37	107	4.45	30	40 - 125
Benzoic acid	50.00	50.0 U	0		30	0 - 125
Benzo(k)fluoranthene	50.00	55.28	111	3.18	30	45 - 125
1,1-Biphenyl	50.00	48.68	97.4	26.1	30	50 - 110
4-Bromophenyl-phenylether	50.00	48.84	97.7	6.92	30	50 - 115
Butylbenzylphthalate	**50.00**	**71.34**	**143 ***	**6.70**	**30**	**45 - 115**
Caprolactam	**50.00**	**5.953**	**11.9 ***	**21.3**	**30**	**20 - 110**
Carbazole	50.00	48.47	96.9	18.3	30	50 - 115
4-Chloro-3-methylphenol	50.00	26.10	52.2	15.9	30	45 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H15007	Laboratory ID:	1H15007-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	14.44	28.9	4.07	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	40.41	80.8	18.6	30	45 - 105
Bis(2-chloroethyl)ether	50.00	38.35	76.7	13.8	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	42.33	84.7	24.1	30	25 - 130
2-Chloronaphthalene	50.00	46.31	92.6	17.2	30	50 - 105
2-Chlorophenol	50.00	23.97	47.9	18.9	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	49.44	98.9	8.01	30	50 - 110
Chrysene	50.00	53.48	107	4.63	30	55 - 110
Dibenz(a,h)anthracene	50.00	55.23	110	5.70	30	40 - 125
Dibenzofuran	50.00	50.30	101	13.4	30	55 - 105
Di-n-butylphthalate	50.00	56.89	114	7.28	30	55 - 115
3,3'-Dichlorobenzidine	50.00	37.40	74.8	20.0	30	20 - 110
2,4-Dichlorophenol	50.00	26.03	52.1	20.1	30	40 - 110
Diethylphthalate	50.00	55.00	110	27.1	30	40 - 120
2,4-Dimethylphenol	50.00	24.76	49.5	15.4	30	30 - 110
Dimethyl phthalate	50.00	48.01	96.0	25.7	30	25 - 125
4,6-Dinitro-2-methylphenol	50.00	31.26	62.5	43.5 *	30	40 - 130
2,4-Dinitrophenol	50.00	19.49	39.0		30	15 - 140
2,4-Dinitrotoluene	50.00	46.98	94.0	20.9	30	50 - 120
2,6-Dinitrotoluene	50.00	45.98	92.0	27.4	30	50 - 115
Di-n-octylphthalate	**50.00**	**72.15**	**144 ***	**4.98**	**30**	**35 - 135**
1,2-Diphenylhydrazine	50.00	46.57	93.1	15.1	30	55 - 115
Bis(2-ethylhexyl)phthalate	**50.00**	**71.19**	**142 ***	**4.76**	**30**	**40 - 125**
Fluoranthene	50.00	47.31	94.6	4.71	30	55 - 115
Fluorene	50.00	47.83	95.7	10.1	30	50 - 110
Hexachlorobenzene	50.00	47.54	95.1	4.65	30	50 - 110
Hexachlorobutadiene	50.00	19.24	38.5	16.6	30	25 - 105
Hexachlorocyclopentadiene	50.00	19.51	39.0	21.0	30	10 - 110
Hexachloroethane	50.00	16.24	32.5	22.5	30	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	55.82	112	1.11	30	45 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H15007	Laboratory ID:	1H15007-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	35.99	72.0	21.4	30	50 - 110
1-Methylnaphthalene	50.00	37.54	75.1	19.3	30	30 - 115
2-Methylnaphthalene	50.00	37.32	74.6	18.7	30	45 - 105
2-Methylphenol	50.00	20.60	41.2	12.8	30	40 - 110
3-Methylphenol/4-Methylphenol	50.00	19.31	38.6	13.1	30	30 - 110
4-Nitroaniline	50.00	35.05	70.1	7.44	30	35 - 120
3-Nitroaniline	50.00	23.58	47.2	5.66	30	20 - 125
2-Nitroaniline	50.00	37.39	74.8	16.3	30	50 - 115
Nitrobenzene	50.00	37.93	75.9	18.2	30	30 - 110
4-Nitrophenol	50.00	9.490	19.0	16.3	30	0 - 125
2-Nitrophenol	50.00	28.86	57.7	31.9 *	30	40 - 115
N-Nitrosodiphenylamine	50.00	39.09	78.2	20.8	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	39.48	79.0	20.1	30	35 - 130
Pentachlorophenol	50.00	38.25	76.5	31.2 *	30	40 - 115
Phenanthrene	50.00	51.81	104	6.12	30	50 - 115
Phenol	50.00	10.19	20.4	7.69	30	0 - 115
Pyrene	50.00	57.71	115	6.00	30	50 - 130
2,4,6-Trichlorophenol	50.00	30.79	61.6	23.4	30	50 - 115
2,4,5-Trichlorophenol	50.00	29.81	59.6	28.2	30	50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H15007

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acenaphthene	55.56	ND	52.45	94.4		45 - 110
Acenaphthylene	55.56	ND	49.22	88.6		50 - 105
Acetophenone	55.56	ND	47.11	84.8		50 - 110
Anthracene	55.56	ND	54.37	97.9		55 - 110
Atrazine	55.56	ND	42.12	75.8		70 - 115
Benzaldehyde	55.56	ND	47.51	85.5		10 - 180
Benzidine	55.56	ND	55.6 U	0		0 - 200
Benzo(a)anthracene	55.56	ND	56.71	102		55 - 110
Benzo(a)pyrene	55.56	ND	55.76	100		55 - 110
Benzo(b)fluoranthene	55.56	ND	60.09	108		45 - 120
Benzo(g,h,i)perylene	55.56	ND	56.07	101		40 - 125
Benzoic acid	55.56	ND	55.6 U	0		0 - 125
Benzo(k)fluoranthene	55.56	ND	57.36	103		45 - 125
1,1-Biphenyl	55.56	ND	54.56	98.2		50 - 110
4-Bromophenyl-phenylether	55.56	ND	53.88	97.0		50 - 115
Butylbenzylphthalate	55.56	ND	71.60	129	*	45 - 115
Caprolactam	55.56	ND	6.917	12.5	*	20 - 110
Carbazole	55.56	ND	54.31	97.8		50 - 115
4-Chloro-3-methylphenol	55.56	ND	32.29	58.1		45 - 110
4-Chloroaniline	55.56	ND	17.44	31.4		15 - 110
Bis(2-chloroethoxy)methane	55.56	ND	46.51	83.7		45 - 105
Bis(2-chloroethyl)ether	55.56	ND	43.54	78.4		35 - 110
2,2'-Oxybis-1-chloropropane	55.56	ND	39.26	70.7		25 - 130
2-Chloronaphthalene	55.56	ND	51.78	93.2		50 - 105
2-Chlorophenol	55.56	ND	29.47	53.0		35 - 105
4-Chlorophenyl phenyl ether	55.56	ND	54.93	98.9		50 - 110
Chrysene	55.56	ND	55.37	99.7		55 - 110
Dibenz(a,h)anthracene	55.56	ND	56.94	102		40 - 125
Dibenzofuran	55.56	ND	56.72	102		55 - 105
Di-n-butylphthalate	55.56	ND	60.46	109		55 - 115
3,3'-Dichlorobenzidine	55.56	ND	38.31	69.0		20 - 110
2,4-Dichlorophenol	55.56	ND	35.43	63.8		40 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H15007

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Diethylphthalate	55.56	ND	60.83	109		40 - 120
2,4-Dimethylphenol	55.56	ND	31.77	57.2		30 - 110
Dimethyl phthalate	55.56	ND	56.89	102		25 - 125
4,6-Dinitro-2-methylphenol	55.56	ND	50.20	90.4		40 - 130
2,4-Dinitrophenol	55.56	ND	38.78	69.8		15 - 140
2,4-Dinitrotoluene	55.56	ND	56.61	102		50 - 120
2,6-Dinitrotoluene	55.56	ND	55.03	99.0		50 - 115
Di-n-octylphthalate	55.56	ND	72.58	131		35 - 135
1,2-Diphenylhydrazine	55.56	ND	47.55	85.6		55 - 115
Bis(2-ethylhexyl)phthalate	55.56	ND	71.43	129	*	40 - 125
Fluoranthene	55.56	ND	50.69	91.2		55 - 115
Fluorene	55.56	ND	53.61	96.5		50 - 110
Hexachlorobenzene	55.56	ND	51.32	92.4		50 - 110
Hexachlorobutadiene	55.56	ND	28.68	51.6		25 - 105
Hexachlorocyclopentadiene	55.56	ND	27.98	50.4		10 - 110
Hexachloroethane	55.56	ND	22.45	40.4		30 - 95
Indeno(1,2,3-cd)pyrene	55.56	ND	59.30	107		45 - 125
Isophorone	55.56	ND	43.06	77.5		50 - 110
1-Methylnaphthalene	55.56	ND	45.42	81.8		30 - 115
2-Methylnaphthalene	55.56	ND	44.89	80.8		45 - 105
2-Methylphenol	55.56	ND	25.37	45.7		40 - 110
3-Methylphenol/4-Methylphenol	55.56	ND	23.71	42.7		30 - 110
4-Nitroaniline	55.56	ND	41.92	75.5		35 - 120
3-Nitroaniline	55.56	ND	26.66	48.0		20 - 125
2-Nitroaniline	55.56	ND	41.90	75.4		50 - 115
Nitrobenzene	55.56	ND	43.06	77.5		30 - 110
4-Nitrophenol	55.56	ND	10.97	19.7		0 - 125
2-Nitrophenol	55.56	ND	41.79	75.2		40 - 115
N-Nitrosodiphenylamine	55.56	ND	44.89	80.8		50 - 110
N-Nitroso-di-n-propylamine	55.56	ND	44.63	80.3		35 - 130
Pentachlorophenol	55.56	ND	47.71	85.9		40 - 115
Phenanthrene	55.56	ND	55.98	101		50 - 115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H15007

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Phenol	55.56	ND	11.84	21.3		0 - 115
Pyrene	55.56	ND	59.56	107		50 - 130
2,4,6-Trichlorophenol	55.56	ND	42.91	77.2		50 - 115
2,4,5-Trichlorophenol	55.56	ND	41.69	75.0		50 - 110

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H15007

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	49.02	43.75	89.3	18.1		30	45 - 110
Acenaphthylene	49.02	40.39	82.4	19.7		30	50 - 105
Acetophenone	49.02	32.11	65.5	37.9	*	30	50 - 110
Anthracene	49.02	46.78	95.4	15.0		30	55 - 110
Atrazine	49.02	29.31	59.8	35.8	* *	30	70 - 115
Benzaldehyde	49.02	33.51	68.4	34.6	*	30	10 - 180
Benzidine	49.02	49.0 U	0			30	0 - 200
Benzo(a)anthracene	49.02	47.98	97.9	16.7		30	55 - 110
Benzo(a)pyrene	49.02	48.42	98.8	14.1		30	55 - 110
Benzo(b)fluoranthene	49.02	51.52	105	15.3		30	45 - 120
Benzo(g,h,i)perylene	49.02	47.92	97.7	15.7		30	40 - 125
Benzoic acid	49.02	49.0 U	0			30	0 - 125
Benzo(k)fluoranthene	49.02	49.20	100	15.3		30	45 - 125
1,1-Biphenyl	49.02	41.66	85.0	26.8		30	50 - 110
4-Bromophenyl-phenylether	49.02	45.34	92.5	17.2		30	50 - 115
Butylbenzylphthalate	49.02	58.70	120	19.8	*	30	45 - 115
Caprolactam	49.02	4.512	9.20	42.1	* *	30	20 - 110
Carbazole	49.02	43.55	88.8	22.0		30	50 - 115
4-Chloro-3-methylphenol	49.02	21.63	44.1	39.5	* *	30	45 - 110
4-Chloroaniline	49.02	14.18	28.9	20.6		30	15 - 110
Bis(2-chloroethoxy)methane	49.02	31.92	65.1	37.2	*	30	45 - 105
Bis(2-chloroethyl)ether	49.02	30.99	63.2	33.7	*	30	35 - 110
2,2'-Oxybis-1-chloropropane	49.02	27.47	56.0	35.3	*	30	25 - 130
2-Chloronaphthalene	49.02	44.06	89.9	16.1		30	50 - 105
2-Chlorophenol	49.02	19.29	39.4	41.8	*	30	35 - 105
4-Chlorophenyl phenyl ether	49.02	46.38	94.6	16.9		30	50 - 110
Chrysene	49.02	47.11	96.1	16.1		30	55 - 110
Dibenz(a,h)anthracene	49.02	48.74	99.4	15.5		30	40 - 125
Dibenzofuran	49.02	47.74	97.4	17.2		30	55 - 105
Di-n-butylphthalate	49.02	51.23	105	16.5		30	55 - 115
3,3'-Dichlorobenzidine	49.02	31.53	64.3	19.4		30	20 - 110
2,4-Dichlorophenol	49.02	21.02	42.9	51.1	*	30	40 - 110
Diethylphthalate	49.02	44.78	91.3	30.4	*	30	40 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H15007

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2,4-Dimethylphenol	49.02	21.26	43.4	39.6	*	30	30 - 110
Dimethyl phthalate	49.02	39.74	81.1	35.5	*	30	25 - 125
4,6-Dinitro-2-methylphenol	49.02	22.33	45.6	76.8	*	30	40 - 130
2,4-Dinitrophenol	49.02	12.91	26.3	100	*	30	15 - 140
2,4-Dinitrotoluene	49.02	41.31	84.3	31.3	*	30	50 - 120
2,6-Dinitrotoluene	49.02	38.81	79.2	34.6	*	30	50 - 115
Di-n-octylphthalate	49.02	60.90	124	17.5		30	35 - 135
1,2-Diphenylhydrazine	49.02	39.04	79.6	19.7		30	55 - 115
Bis(2-ethylhexyl)phthalate	49.02	58.80	120	19.4		30	40 - 125
Fluoranthene	49.02	44.07	89.9	14.0		30	55 - 115
Fluorene	49.02	45.05	91.9	17.3		30	50 - 110
Hexachlorobenzene	49.02	44.29	90.4	14.7		30	50 - 110
Hexachlorobutadiene	49.02	25.87	52.8	10.3		30	25 - 105
Hexachlorocyclopentadiene	49.02	22.28	45.5	22.7		30	10 - 110
Hexachloroethane	49.02	19.94	40.7	11.8		30	30 - 95
Indeno(1,2,3-cd)pyrene	49.02	49.51	101	18.0		30	45 - 125
Isophorone	49.02	29.75	60.7	36.6	*	30	50 - 110
1-Methylnaphthalene	49.02	37.74	77.0	18.5		30	30 - 115
2-Methylnaphthalene	49.02	37.61	76.7	17.7		30	45 - 105
2-Methylphenol	49.02	17.42	35.5	37.2	* *	30	40 - 110
3-Methylphenol/4-Methylphenol	49.02	15.93	32.5	39.2	*	30	30 - 110
4-Nitroaniline	49.02	32.05	65.4	26.7		30	35 - 120
3-Nitroaniline	49.02	22.93	46.8	15.0		30	20 - 125
2-Nitroaniline	49.02	30.33	61.9	32.0	*	30	50 - 115
Nitrobenzene	49.02	30.90	63.0	32.9	*	30	30 - 110
4-Nitrophenol	49.02	6.488	13.2	51.3	*	30	0 - 125
2-Nitrophenol	49.02	23.60	48.2	55.6	*	30	40 - 115
N-Nitrosodiphenylamine	49.02	35.43	72.3	23.6		30	50 - 110
N-Nitroso-di-n-propylamine	49.02	30.32	61.8	38.2	*	30	35 - 130
Pentachlorophenol	49.02	23.88	48.7	66.6	*	30	40 - 115
Phenanthrene	49.02	48.42	98.8	14.5		30	50 - 115
Phenol	49.02	8.632	17.6	31.4	*	30	0 - 115
Pyrene	49.02	50.82	104	15.8		30	50 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8270C

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H15007

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
2,4,6-Trichlorophenol	49.02	23.11	47.2	60.0	* *	30	50 - 115
2,4,5-Trichlorophenol	49.02	22.07	45.0	61.5	* *	30	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H10018 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0155-R	1108110-01	08/11/11 11:15	1,000.00	1.00
GW0156-R	1108110-03	08/11/11 11:15	1,020.00	1.00
GW0176	1108110-05	08/11/11 11:15	1,020.00	1.00
GW8023-RB	1108110-07	08/11/11 11:15	1,070.00	1.00
GW0162	1108126-01	08/11/11 11:15	960.00	1.00
GW0244	1108126-03	08/11/11 11:15	1,020.00	1.00
Blank	1H10018-BLK1	08/11/11 11:55	1,000.00	1.00
LCS	1H10018-BS1	08/11/11 11:55	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H12004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0191	1108138-02	08/15/11 10:46	1,060.00	1.00
Blank	1H12004-BLK1	08/15/11 10:46	1,000.00	1.00
LCS	1H12004-BS1	08/15/11 10:46	1,000.00	1.00
LCS Dup	1H12004-BSD1	08/15/11 10:46	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H15007 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0160	1108138-01	08/15/11 13:17	1,060.00	1.00
GW0161	1108152-01	08/15/11 13:17	1,040.00	1.00
GW0177	1108152-03	08/15/11 13:17	1,040.00	1.00
GW0178	1108152-05	08/15/11 13:17	1,060.00	1.00
GW0180	1108152-07	08/15/11 13:17	1,000.00	1.00
GW0181	1108152-09	08/15/11 13:17	1,070.00	1.00
GW0179	1108166-01	08/15/11 13:17	1,040.00	1.00
Blank	1H15007-BLK1	08/15/11 13:17	1,000.00	1.00
LCS	1H15007-BS1	08/15/11 13:17	1,000.00	1.00
LCS Dup	1H15007-BSD1	08/15/11 13:17	1,000.00	1.00
GW0160	1H15007-MS1	08/15/11 13:17	900.00	1.00
GW0160	1H15007-MSD1	08/15/11 13:17	1,020.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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_023
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_023
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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/19/11
Instrument ID:	MS-BNA3	Injection Time:	15:54
Sequence:	1H23205	Lab Sample ID:	1H23205-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54.3	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	49.5	PASS
70	Less than 2% of 69	0.498	PASS
127	40 - 60% of 198	55.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.46	PASS
275	10 - 30% of 198	21.8	PASS
365	1 - 200% of 198	2.02	PASS
441	0.001 - 100% of 443	76	PASS
442	40 - 200% of 198	57.9	PASS
443	17 - 23% of 442	20.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/22/11
Instrument ID:	MS-BNA3	Injection Time:	16:29
Sequence:	1H23536	Lab Sample ID:	1H23536-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54.4	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	51	PASS
70	Less than 2% of 69	0.651	PASS
127	40 - 60% of 198	56.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.6	PASS
275	10 - 30% of 198	20.6	PASS
365	1 - 200% of 198	1.38	PASS
441	0.001 - 100% of 443	66.8	PASS
442	40 - 200% of 198	48.4	PASS
443	17 - 23% of 442	21.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	08/23/11
Instrument ID:	MS-BNA3	Injection Time:	04:28
Sequence:	1H23537	Lab Sample ID:	1H23537-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.2	PASS
68	Less than 2% of 69	1.95	PASS
69	Less than 200% of 198	49.5	PASS
70	Less than 2% of 69	0.461	PASS
127	40 - 60% of 198	53.2	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.49	PASS
275	10 - 30% of 198	20.5	PASS
365	1 - 200% of 198	1.69	PASS
441	0.001 - 100% of 443	73.6	PASS
442	40 - 200% of 198	58.3	PASS
443	17 - 23% of 442	18.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/23/11
Instrument ID:	MS-BNA3	Injection Time:	19:38
Sequence:	1H23612	Lab Sample ID:	1H23612-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	49.9	PASS
70	Less than 2% of 69	0.404	PASS
127	40 - 60% of 198	57.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.8	PASS
275	10 - 30% of 198	21.3	PASS
365	1 - 200% of 198	2.27	PASS
441	0.001 - 100% of 443	71.8	PASS
442	40 - 200% of 198	61.3	PASS
443	17 - 23% of 442	20.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/25/11
Instrument ID:	MS-BNA3	Injection Time:	15:50
Sequence:	1H23813	Lab Sample ID:	1H23813-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	50.5	PASS
70	Less than 2% of 69	0.799	PASS
127	40 - 60% of 198	55.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.97	PASS
275	10 - 30% of 198	21.6	PASS
365	1 - 200% of 198	2.01	PASS
441	0.001 - 100% of 443	69.2	PASS
442	40 - 200% of 198	59	PASS
443	17 - 23% of 442	20.6	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/29/11
Instrument ID:	MS-BNA3	Injection Time:	09:18
Sequence:	1H24204	Lab Sample ID:	1H24204-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	47.2	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	50.2	PASS
70	Less than 2% of 69	0.592	PASS
127	40 - 60% of 198	55.2	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.47	PASS
275	10 - 30% of 198	21.6	PASS
365	1 - 200% of 198	1.67	PASS
441	0.001 - 100% of 443	81.2	PASS
442	40 - 200% of 198	50.1	PASS
443	17 - 23% of 442	19.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	08/30/11
Instrument ID:	MS-BNA3	Injection Time:	18:23
Sequence:	1H24307	Lab Sample ID:	1H24307-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	55.3	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	57.8	PASS
70	Less than 2% of 69	0.75	PASS
127	40 - 60% of 198	56.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.72	PASS
275	10 - 30% of 198	23.3	PASS
365	1 - 200% of 198	1.96	PASS
441	0.001 - 100% of 443	91.7	PASS
442	40 - 200% of 198	51.2	PASS
443	17 - 23% of 442	17.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/01/11
Instrument ID:	MS-BNA3	Injection Time:	22:41
Sequence:	1I24513	Lab Sample ID:	1I24513-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54.8	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	56.6	PASS
70	Less than 2% of 69	0.441	PASS
127	40 - 60% of 198	59	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.45	PASS
275	10 - 30% of 198	20.3	PASS
365	1 - 200% of 198	1.6	PASS
441	0.001 - 100% of 443	66.8	PASS
442	40 - 200% of 198	46.5	PASS
443	17 - 23% of 442	21	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23205	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23205-TUN1	SEQ-TUN1.D	08/19/11 15:54
Calibration Check	1H23205-CCV1	SEQ-CCV1.D	08/19/11 16:24
Calibration Check	1H23205-CCV2	SEQ-CCV2.D	08/19/11 17:05
Blank	1H12004-BLK1	H12004B1.D	08/19/11 19:08
LCS	1H12004-BS1	H12004L1.D	08/19/11 22:29
LCS Dup	1H12004-BSD1	H12004L2.D	08/19/11 23:10

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23536	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23536-TUN1	SEQ-TUN1.D	08/22/11 16:29
Calibration Check	1H23536-CCV1	SEQ-CCV1.D	08/22/11 17:02
Calibration Check	1H23536-CCV2	SEQ-CCV2.D	08/22/11 17:43
Blank	1H10018-BLK1	H10018B1.D	08/22/11 21:44
LCS	1H10018-BS1	H10018L1.D	08/22/11 22:24

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23537	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23537-TUN1	SEQ-TUN2.D	08/23/11 04:28
Calibration Check	1H23537-CCV1	SEQ-CCV3.D	08/23/11 04:56
Calibration Check	1H23537-CCV2	SEQ-CCV4.D	08/23/11 05:35
GW0155-R	1108110-01	0811001.D	08/23/11 13:45
GW0156-R	1108110-03	0811003.D	08/23/11 14:27
GW0176	1108110-05	0811005.D	08/23/11 15:09

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23612	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23612-TUN1	SEQ-TUN1.D	08/23/11 19:38
Calibration Check	1H23612-CCV1	SEQ-CCV1.D	08/23/11 20:05
Calibration Check	1H23612-CCV2	SEQ-CCV2.D	08/23/11 20:54
GW8023-RB	1108110-07	0811007.D	08/24/11 05:58

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23813	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23813-TUN1	SEQ-TUN1.D	08/25/11 15:50
Calibration Check	1H23813-CCV1	SEQ-CCV1.D	08/25/11 16:21
Calibration Check	1H23813-CCV2	SEQ-CCV2.D	08/25/11 17:19
GW0162	1108126-01	0812601.D	08/25/11 20:45
GW0244	1108126-03	0812603.D	08/25/11 21:25
GW0191	1108138-02	0813802.D	08/26/11 00:11

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24204	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H24204-TUN1	SEQ-TUN1.D	08/29/11 09:18
Calibration Check	1H24204-CCV1	SEQ-CCV1.D	08/29/11 09:47
GW0161	1108152-01	0815201.D	08/29/11 13:53
GW0177	1108152-03	0815203.D	08/29/11 14:35
GW0181	1108152-09	0815209.D	08/29/11 16:39
GW0160	1108138-01	0813801.D	08/29/11 19:19
GW0160	1H15007-MS1	0813801M.D	08/29/11 19:59
GW0160	1H15007-MSD1	0813801S.D	08/29/11 20:38

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24307	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H24307-TUN1	SEQ-TUN1.D	08/30/11 18:23
Calibration Check	1H24307-CCV1	SEQ-CCV1.D	08/30/11 18:52
Calibration Check	1H24307-CCV2	SEQ-CCV2.D	08/30/11 19:32
Blank	1H15007-BLK1	H15007B1.D	08/30/11 20:51
LCS	1H15007-BS1	H15007L1.D	08/30/11 22:10
LCS Dup	1H15007-BSD1	H15007L2.D	08/30/11 22:49
GW0178	1108152-05	0815205.D	08/31/11 02:09
GW0180	1108152-07	0815207.D	08/31/11 02:49

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I24513	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I24513-TUN1	SEQ-TUN1.D	09/01/11 22:41
Calibration Check	1I24513-CCV1	SEQ-CCV1.D	09/01/11 23:11
Calibration Check	1I24513-CCV2	SEQ-CCV2.D	09/01/11 23:55
GW0179	1108166-01	0816601.D	09/02/11 06:16

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23205	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H23205-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 08/19/11 16:24			
1,4-Dichlorobenzene-d4	540746	7.788	473419	6.389	114	50 - 200	1.3990	+/-0.50	
Naphthalene-d8	1937210	9.417	1697246	8.029	114	50 - 200	1.3880	+/-0.50	
Acenaphthene-d10	1089460	11.629	970176	10.251	112	50 - 200	1.3780	+/-0.50	
Phenanthrene-d10	1801150	13.536	1609148	12.094	112	50 - 200	1.4420	+/-0.50	
Chrysene-d12	1566662	18.023	1722869	16.261	91	50 - 200	1.7620	+/-0.50	
Perylene-d12	1569599	21.047	1702026	19.012	92	50 - 200	2.0350	+/-0.50	
Calibration Check (1H23205-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 08/19/11 17:05			
1,4-Dichlorobenzene-d4	717812	7.78	540746	7.788	133	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	2603108	9.409	1937210	9.417	134	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1451481	11.621	1089460	11.629	133	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	2413287	13.522	1801150	13.536	134	50 - 200	-0.0140	+/-0.50	
Chrysene-d12	2166739	18.004	1566662	18.023	138	50 - 200	-0.0190	+/-0.50	
Perylene-d12	2155930	21.028	1569599	21.047	137	50 - 200	-0.0190	+/-0.50	
Blank (1H12004-BLK1)			Lab File ID: H12004B1.D			Analyzed: 08/19/11 19:08			
1,4-Dichlorobenzene-d4	760381	7.78	540746	7.788	141	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	2793069	9.404	1937210	9.417	144	50 - 200	-0.0130	+/-0.50	
Acenaphthene-d10	1588695	11.616	1089460	11.629	146	50 - 200	-0.0130	+/-0.50	
Phenanthrene-d10	2574185	13.518	1801150	13.536	143	50 - 200	-0.0180	+/-0.50	
Chrysene-d12	2346629	18	1566662	18.023	150	50 - 200	-0.0230	+/-0.50	
Perylene-d12	2384116	21.029	1569599	21.047	152	50 - 200	-0.0180	+/-0.50	
LCS (1H12004-BS1)			Lab File ID: H12004L1.D			Analyzed: 08/19/11 22:29			
1,4-Dichlorobenzene-d4	767943	7.78	540746	7.788	142	50 - 200	-0.0080	+/-0.50	
Naphthalene-d8	2772807	9.414	1937210	9.417	143	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	1567950	11.626	1089460	11.629	144	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	2532771	13.528	1801150	13.536	141	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	2244697	18.026	1566662	18.023	143	50 - 200	0.0030	+/-0.50	
Perylene-d12	2254551	21.055	1569599	21.047	144	50 - 200	0.0080	+/-0.50	
LCS Dup (1H12004-BSD1)			Lab File ID: H12004L2.D			Analyzed: 08/19/11 23:10			
1,4-Dichlorobenzene-d4	764592	7.774	540746	7.788	141	50 - 200	-0.0140	+/-0.50	
Naphthalene-d8	2726005	9.409	1937210	9.417	141	50 - 200	-0.0080	+/-0.50	
Acenaphthene-d10	1540921	11.621	1089460	11.629	141	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	2496515	13.523	1801150	13.536	139	50 - 200	-0.0130	+/-0.50	
Chrysene-d12	2185678	18.015	1566662	18.023	140	50 - 200	-0.0080	+/-0.50	
Perylene-d12	2168437	21.039	1569599	21.047	138	50 - 200	-0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23536	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H23536-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 08/22/11 17:02			
1,4-Dichlorobenzene-d4	434870	7.694	473419	6.389	92	50 - 200	1.3050	+/-0.50	
Naphthalene-d8	1585086	9.329	1697246	8.029	93	50 - 200	1.3000	+/-0.50	
Acenaphthene-d10	900282	11.54	970176	10.251	93	50 - 200	1.2890	+/-0.50	
Phenanthrene-d10	1485461	13.432	1609148	12.094	92	50 - 200	1.3380	+/-0.50	
Chrysene-d12	1307981	17.892	1722869	16.261	76	50 - 200	1.6310	+/-0.50	
Perylene-d12	1347602	20.878	1702026	19.012	79	50 - 200	1.8660	+/-0.50	
Calibration Check (1H23536-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 08/22/11 17:43			
1,4-Dichlorobenzene-d4	566065	7.684	434870	7.694	130	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	2261227	9.313	1585086	9.329	143	50 - 200	-0.0160	+/-0.50	
Acenaphthene-d10	1315574	11.525	900282	11.54	146	50 - 200	-0.0150	+/-0.50	
Phenanthrene-d10	2215817	13.422	1485461	13.432	149	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	1967270	17.872	1307981	17.892	150	50 - 200	-0.0200	+/-0.50	
Perylene-d12	1828166	20.858	1347602	20.878	136	50 - 200	-0.0200	+/-0.50	
Blank (1H10018-BLK1)			Lab File ID: H10018B1.D			Analyzed: 08/22/11 21:44			
1,4-Dichlorobenzene-d4	625165	7.684	434870	7.694	144	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	2377934	9.313	1585086	9.329	150	50 - 200	-0.0160	+/-0.50	
Acenaphthene-d10	1368504	11.525	900282	11.54	152	50 - 200	-0.0150	+/-0.50	
Phenanthrene-d10	2150758	13.416	1485461	13.432	145	50 - 200	-0.0160	+/-0.50	
Chrysene-d12	1943841	17.871	1307981	17.892	149	50 - 200	-0.0210	+/-0.50	
Perylene-d12	1988923	20.857	1347602	20.878	148	50 - 200	-0.0210	+/-0.50	
LCS (1H10018-BS1)			Lab File ID: H10018L1.D			Analyzed: 08/22/11 22:24			
1,4-Dichlorobenzene-d4	603546	7.694	434870	7.694	139	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2227748	9.328	1585086	9.329	141	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1265353	11.535	900282	11.54	141	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	2047394	13.431	1485461	13.432	138	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1795929	17.897	1307981	17.892	137	50 - 200	0.0050	+/-0.50	
Perylene-d12	1764524	20.884	1347602	20.878	131	50 - 200	0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23537	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H23537-CCV1)			Lab File ID: SEQ-CCV3.D			Analyzed: 08/23/11 04:56			
1,4-Dichlorobenzene-d4	574900	7.686	473419	6.389	121	50 - 200	1.2970	+/-0.50	
Naphthalene-d8	2176864	9.316	1697246	8.029	128	50 - 200	1.2870	+/-0.50	
Acenaphthene-d10	1244911	11.533	970176	10.251	128	50 - 200	1.2820	+/-0.50	
Phenanthrene-d10	2042588	13.424	1609148	12.094	127	50 - 200	1.3300	+/-0.50	
Chrysene-d12	1707547	17.884	1722869	16.261	99	50 - 200	1.6230	+/-0.50	
Perylene-d12	1654126	20.871	1702026	19.012	97	50 - 200	1.8590	+/-0.50	
Calibration Check (1H23537-CCV2)			Lab File ID: SEQ-CCV4.D			Analyzed: 08/23/11 05:35			
1,4-Dichlorobenzene-d4	565237	7.686	574900	7.686	98	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2131497	9.315	2176864	9.316	98	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1200162	11.527	1244911	11.533	96	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	2001380	13.423	2042588	13.424	98	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1735153	17.879	1707547	17.884	102	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1688386	20.865	1654126	20.871	102	50 - 200	-0.0060	+/-0.50	
GW0155-R (1108110-01)			Lab File ID: 0811001.D			Analyzed: 08/23/11 13:45			
1,4-Dichlorobenzene-d4	568177	7.692	574900	7.686	99	50 - 200	0.0060	+/-0.50	
Naphthalene-d8	2104048	9.321	2176864	9.316	97	50 - 200	0.0050	+/-0.50	
Acenaphthene-d10	1221491	11.533	1244911	11.533	98	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1938073	13.429	2042588	13.424	95	50 - 200	0.0050	+/-0.50	
Chrysene-d12	1676252	17.879	1707547	17.884	98	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1649204	20.871	1654126	20.871	100	50 - 200	0.0000	+/-0.50	
GW0156-R (1108110-03)			Lab File ID: 0811003.D			Analyzed: 08/23/11 14:27			
1,4-Dichlorobenzene-d4	450964	7.695	574900	7.686	78	50 - 200	0.0090	+/-0.50	
Naphthalene-d8	1690243	9.319	2176864	9.316	78	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	996746	11.53	1244911	11.533	80	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1608240	13.427	2042588	13.424	79	50 - 200	0.0030	+/-0.50	
Chrysene-d12	1492881	17.882	1707547	17.884	87	50 - 200	-0.0020	+/-0.50	
Perylene-d12	1484862	20.868	1654126	20.871	90	50 - 200	-0.0030	+/-0.50	
GW0176 (1108110-05)			Lab File ID: 0811005.D			Analyzed: 08/23/11 15:09			
1,4-Dichlorobenzene-d4	607089	7.694	574900	7.686	106	50 - 200	0.0080	+/-0.50	
Naphthalene-d8	2241928	9.323	2176864	9.316	103	50 - 200	0.0070	+/-0.50	
Acenaphthene-d10	1301750	11.535	1244911	11.533	105	50 - 200	0.0020	+/-0.50	
Phenanthrene-d10	2086599	13.426	2042588	13.424	102	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1931242	17.881	1707547	17.884	113	50 - 200	-0.0030	+/-0.50	
Perylene-d12	1937544	20.873	1654126	20.871	117	50 - 200	0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23612	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H23612-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 08/23/11 20:05			
1,4-Dichlorobenzene-d4	614892	7.66	473419	6.389	130	50 - 200	1.2710	+/-0.50	
Naphthalene-d8	2227083	9.289	1697246	8.029	131	50 - 200	1.2600	+/-0.50	
Acenaphthene-d10	1277256	11.501	970176	10.251	132	50 - 200	1.2500	+/-0.50	
Phenanthrene-d10	2110258	13.392	1609148	12.094	131	50 - 200	1.2980	+/-0.50	
Chrysene-d12	1850672	17.847	1722869	16.261	107	50 - 200	1.5860	+/-0.50	
Perylene-d12	1803205	20.812	1702026	19.012	106	50 - 200	1.8000	+/-0.50	
Calibration Check (1H23612-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 08/23/11 20:54			
1,4-Dichlorobenzene-d4	790077	7.656	614892	7.66	128	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	2879822	9.285	2227083	9.289	129	50 - 200	-0.0040	+/-0.50	
Acenaphthene-d10	1592970	11.497	1277256	11.501	125	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	2645412	13.388	2110258	13.392	125	50 - 200	-0.0040	+/-0.50	
Chrysene-d12	2392948	17.833	1850672	17.847	129	50 - 200	-0.0140	+/-0.50	
Perylene-d12	2350586	20.803	1803205	20.812	130	50 - 200	-0.0090	+/-0.50	
GW8023-RB (1108110-07)			Lab File ID: 0811007.D			Analyzed: 08/24/11 05:58			
1,4-Dichlorobenzene-d4	538137	7.653	614892	7.66	88	50 - 200	-0.0070	+/-0.50	
Naphthalene-d8	1977438	9.282	2227083	9.289	89	50 - 200	-0.0070	+/-0.50	
Acenaphthene-d10	1144572	11.494	1277256	11.501	90	50 - 200	-0.0070	+/-0.50	
Phenanthrene-d10	1822797	13.38	2110258	13.392	86	50 - 200	-0.0120	+/-0.50	
Chrysene-d12	1667045	17.824	1850672	17.847	90	50 - 200	-0.0230	+/-0.50	
Perylene-d12	1648914	20.794	1803205	20.812	91	50 - 200	-0.0180	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23813	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H23813-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 08/25/11 16:21			
1,4-Dichlorobenzene-d4	464607	7.621	473419	6.389	98	50 - 200	1.2320	+/-0.50	
Naphthalene-d8	1663765	9.25	1697246	8.029	98	50 - 200	1.2210	+/-0.50	
Acenaphthene-d10	932065	11.462	970176	10.251	96	50 - 200	1.2110	+/-0.50	
Phenanthrene-d10	1551511	13.353	1609148	12.094	96	50 - 200	1.2590	+/-0.50	
Chrysene-d12	1373882	17.797	1722869	16.261	80	50 - 200	1.5360	+/-0.50	
Perylene-d12	1333341	20.752	1702026	19.012	78	50 - 200	1.7400	+/-0.50	
Calibration Check (1H23813-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 08/25/11 17:19			
1,4-Dichlorobenzene-d4	531012	7.621	464607	7.621	114	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1934259	9.25	1663765	9.25	116	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1088800	11.467	932065	11.462	117	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	1818125	13.358	1551511	13.353	117	50 - 200	0.0050	+/-0.50	
Chrysene-d12	1614988	17.792	1373882	17.797	118	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1598759	20.757	1333341	20.752	120	50 - 200	0.0050	+/-0.50	
GW0162 (1108126-01)			Lab File ID: 0812601.D			Analyzed: 08/25/11 20:45			
1,4-Dichlorobenzene-d4	245922	7.621	464607	7.621	53	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	890001	9.251	1663765	9.25	53	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	511031	11.457	932065	11.462	55	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	836663	13.348	1551511	13.353	54	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	755884	17.777	1373882	17.797	55	50 - 200	-0.0200	+/-0.50	
Perylene-d12	767505	20.736	1333341	20.752	58	50 - 200	-0.0160	+/-0.50	
GW0244 (1108126-03)			Lab File ID: 0812603.D			Analyzed: 08/25/11 21:25			
1,4-Dichlorobenzene-d4	528677	7.618	464607	7.621	114	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1957726	9.247	1663765	9.25	118	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	1124110	11.459	932065	11.462	121	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1808930	13.345	1551511	13.353	117	50 - 200	-0.0080	+/-0.50	
Chrysene-d12	1657518	17.779	1373882	17.797	121	50 - 200	-0.0180	+/-0.50	
Perylene-d12	1664723	20.743	1333341	20.752	125	50 - 200	-0.0090	+/-0.50	
GW0191 (1108138-02)			Lab File ID: 0813802.D			Analyzed: 08/26/11 00:11			
1,4-Dichlorobenzene-d4	364272	7.622	464607	7.621	78	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	1356510	9.251	1663765	9.25	82	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	777311	11.463	932065	11.462	83	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	1278652	13.348	1551511	13.353	82	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1132474	17.782	1373882	17.797	82	50 - 200	-0.0150	+/-0.50	
Perylene-d12	1118972	20.742	1333341	20.752	84	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24204	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H24204-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 08/29/11 09:47			
1,4-Dichlorobenzene-d4	297004	7.536	473419	6.389	63	50 - 200	1.1470	+/-0.50	
Naphthalene-d8	1086223	9.165	1697246	8.029	64	50 - 200	1.1360	+/-0.50	
Acenaphthene-d10	604467	11.377	970176	10.251	62	50 - 200	1.1260	+/-0.50	
Phenanthrene-d10	1010959	13.257	1609148	12.094	63	50 - 200	1.1630	+/-0.50	
Chrysene-d12	941187	17.67	1722869	16.261	55	50 - 200	1.4090	+/-0.50	
Perylene-d12	898978	20.587	1702026	19.012	53	50 - 200	1.5750	+/-0.50	
GW0161 (1108152-01)			Lab File ID: 0815201.D			Analyzed: 08/29/11 13:53			
1,4-Dichlorobenzene-d4	423417	7.535	297004	7.536	143	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	1617168	9.165	1086223	9.165	149	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	949592	11.376	604467	11.377	157	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	1559279	13.257	1010959	13.257	154	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1482458	17.664	941187	17.67	158	50 - 200	-0.0060	+/-0.50	
Perylene-d12	1500043	20.592	898978	20.587	167	50 - 200	0.0050	+/-0.50	
GW0177 (1108152-03)			Lab File ID: 0815203.D			Analyzed: 08/29/11 14:35			
1,4-Dichlorobenzene-d4	377208	7.532	297004	7.536	127	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	1368881	9.156	1086223	9.165	126	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	808903	11.368	604467	11.377	134	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1311470	13.248	1010959	13.257	130	50 - 200	-0.0090	+/-0.50	
Chrysene-d12	1254906	17.656	941187	17.67	133	50 - 200	-0.0140	+/-0.50	
Perylene-d12	1268655	20.583	898978	20.587	141	50 - 200	-0.0040	+/-0.50	
GW0181 (1108152-09)			Lab File ID: 0815209.D			Analyzed: 08/29/11 16:39			
1,4-Dichlorobenzene-d4	337092	7.541	297004	7.536	113	50 - 200	0.0050	+/-0.50	
Naphthalene-d8	1262376	9.17	1086223	9.165	116	50 - 200	0.0050	+/-0.50	
Acenaphthene-d10	730989	11.382	604467	11.377	121	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	1234606	13.257	1010959	13.257	122	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1185636	17.67	941187	17.67	126	50 - 200	0.0000	+/-0.50	
Perylene-d12	1152265	20.597	898978	20.587	128	50 - 200	0.0100	+/-0.50	
GW0160 (1108138-01)			Lab File ID: 0813801.D			Analyzed: 08/29/11 19:19			
1,4-Dichlorobenzene-d4	538659	7.533	297004	7.536	181	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	2024388	9.162	1086223	9.165	186	50 - 200	-0.0030	+/-0.50	
Acenaphthene-d10	1184282	11.374	604467	11.377	196	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1941211	13.254	1010959	13.257	192	50 - 200	-0.0030	+/-0.50	
Chrysene-d12	1768327	17.662	941187	17.67	188	50 - 200	-0.0080	+/-0.50	
Perylene-d12	1734292	20.595	898978	20.587	193	50 - 200	0.0080	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24204	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (1H15007-MS1)			Lab File ID: 0813801M.D			Analyzed: 08/29/11 19:59			
1,4-Dichlorobenzene-d4	433961	7.531	297004	7.536	146	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	1595961	9.16	1086223	9.165	147	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	908504	11.372	604467	11.377	150	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1528557	13.252	1010959	13.257	151	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1418990	17.665	941187	17.67	151	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1341889	20.587	898978	20.587	149	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (1H15007-MSD1)			Lab File ID: 0813801S.D			Analyzed: 08/29/11 20:38			
1,4-Dichlorobenzene-d4	182435	7.535	297004	7.536	61	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	663994	9.165	1086223	9.165	61	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	381697	11.371	604467	11.377	63	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	635761	13.251	1010959	13.257	63	50 - 200	-0.0060	+/-0.50	
Chrysene-d12	604210	17.659	941187	17.67	64	50 - 200	-0.0110	+/-0.50	
Perylene-d12	571660	20.581	898978	20.587	64	50 - 200	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24307	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H24307-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 08/30/11 18:52			
1,4-Dichlorobenzene-d4	922135	7.521	473419	6.389	195	50 - 200	1.1320	+/-0.50	
Naphthalene-d8	3188219	9.155	1697246	8.029	188	50 - 200	1.1260	+/-0.50	
Acenaphthene-d10	1734206	11.367	970176	10.251	179	50 - 200	1.1160	+/-0.50	
Phenanthrene-d10	2771764	13.247	1609148	12.094	172	50 - 200	1.1530	+/-0.50	
Chrysene-d12	2481880	17.658	1722869	16.261	144	50 - 200	1.3970	+/-0.50	
Perylene-d12	2402012	20.575	1702026	19.012	141	50 - 200	1.5630	+/-0.50	
Calibration Check (1H24307-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 08/30/11 19:32			
1,4-Dichlorobenzene-d4	734730	7.502	922135	7.521	80	50 - 200	-0.0190	+/-0.50	
Naphthalene-d8	2699194	9.131	3188219	9.155	85	50 - 200	-0.0240	+/-0.50	
Acenaphthene-d10	1438128	11.342	1734206	11.367	83	50 - 200	-0.0250	+/-0.50	
Phenanthrene-d10	2340773	13.222	2771764	13.247	84	50 - 200	-0.0250	+/-0.50	
Chrysene-d12	2097832	17.618	2481880	17.658	85	50 - 200	-0.0400	+/-0.50	
Perylene-d12	2111857	20.534	2402012	20.575	88	50 - 200	-0.0410	+/-0.50	
Blank (1H15007-BLK1)			Lab File ID: H15007B1.D			Analyzed: 08/30/11 20:51			
1,4-Dichlorobenzene-d4	927747	7.502	922135	7.521	101	50 - 200	-0.0190	+/-0.50	
Naphthalene-d8	3357573	9.131	3188219	9.155	105	50 - 200	-0.0240	+/-0.50	
Acenaphthene-d10	1892995	11.342	1734206	11.367	109	50 - 200	-0.0250	+/-0.50	
Phenanthrene-d10	2988355	13.217	2771764	13.247	108	50 - 200	-0.0300	+/-0.50	
Chrysene-d12	2806413	17.612	2481880	17.658	113	50 - 200	-0.0460	+/-0.50	
Perylene-d12	2820180	20.534	2402012	20.575	117	50 - 200	-0.0410	+/-0.50	
LCS (1H15007-BS1)			Lab File ID: H15007L1.D			Analyzed: 08/30/11 22:10			
1,4-Dichlorobenzene-d4	566090	7.5	922135	7.521	61	50 - 200	-0.0210	+/-0.50	
Naphthalene-d8	2034827	9.135	3188219	9.155	64	50 - 200	-0.0200	+/-0.50	
Acenaphthene-d10	1129131	11.341	1734206	11.367	65	50 - 200	-0.0260	+/-0.50	
Phenanthrene-d10	1874865	13.221	2771764	13.247	68	50 - 200	-0.0260	+/-0.50	
Chrysene-d12	1684722	17.622	2481880	17.658	68	50 - 200	-0.0360	+/-0.50	
Perylene-d12	1605139	20.532	2402012	20.575	67	50 - 200	-0.0430	+/-0.50	
LCS Dup (1H15007-BSD1)			Lab File ID: H15007L2.D			Analyzed: 08/30/11 22:49			
1,4-Dichlorobenzene-d4	698158	7.514	922135	7.521	76	50 - 200	-0.0070	+/-0.50	
Naphthalene-d8	2501713	9.143	3188219	9.155	78	50 - 200	-0.0120	+/-0.50	
Acenaphthene-d10	1366800	11.354	1734206	11.367	79	50 - 200	-0.0130	+/-0.50	
Phenanthrene-d10	2246647	13.234	2771764	13.247	81	50 - 200	-0.0130	+/-0.50	
Chrysene-d12	1997331	17.641	2481880	17.658	80	50 - 200	-0.0170	+/-0.50	
Perylene-d12	1904910	20.557	2402012	20.575	79	50 - 200	-0.0180	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24307	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0178 (1108152-05)			Lab File ID: 0815205.D			Analyzed: 08/31/11 02:09			
1,4-Dichlorobenzene-d4	706149	7.501	922135	7.521	77	50 - 200	-0.0200	+/-0.50	
Naphthalene-d8	2603253	9.13	3188219	9.155	82	50 - 200	-0.0250	+/-0.50	
Acenaphthene-d10	1490039	11.341	1734206	11.367	86	50 - 200	-0.0260	+/-0.50	
Phenanthrene-d10	2344031	13.216	2771764	13.247	85	50 - 200	-0.0310	+/-0.50	
Chrysene-d12	2083448	17.617	2481880	17.658	84	50 - 200	-0.0410	+/-0.50	
Perylene-d12	2034566	20.539	2402012	20.575	85	50 - 200	-0.0360	+/-0.50	
GW0180 (1108152-07)			Lab File ID: 0815207.D			Analyzed: 08/31/11 02:49			
1,4-Dichlorobenzene-d4	724956	7.505	922135	7.521	79	50 - 200	-0.0160	+/-0.50	
Naphthalene-d8	2689371	9.134	3188219	9.155	84	50 - 200	-0.0210	+/-0.50	
Acenaphthene-d10	1513832	11.345	1734206	11.367	87	50 - 200	-0.0220	+/-0.50	
Phenanthrene-d10	2433034	13.225	2771764	13.247	88	50 - 200	-0.0220	+/-0.50	
Chrysene-d12	2237762	17.626	2481880	17.658	90	50 - 200	-0.0320	+/-0.50	
Perylene-d12	2144927	20.542	2402012	20.575	89	50 - 200	-0.0330	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I24513	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I24513-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 09/01/11 23:11			
1,4-Dichlorobenzene-d4	517703	7.457	473419	6.389	109	50 - 200	1.0680	+/-0.50	
Naphthalene-d8	1885919	9.086	1697246	8.029	111	50 - 200	1.0570	+/-0.50	
Acenaphthene-d10	1048868	11.297	970176	10.251	108	50 - 200	1.0460	+/-0.50	
Phenanthrene-d10	1731963	13.172	1609148	12.094	108	50 - 200	1.0780	+/-0.50	
Chrysene-d12	1510682	17.562	1722869	16.261	88	50 - 200	1.3010	+/-0.50	
Perylene-d12	1402143	20.451	1702026	19.012	82	50 - 200	1.4390	+/-0.50	
Calibration Check (1I24513-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 09/01/11 23:55			
1,4-Dichlorobenzene-d4	721626	7.438	517703	7.457	139	50 - 200	-0.0190	+/-0.50	
Naphthalene-d8	2668181	9.067	1885919	9.086	141	50 - 200	-0.0190	+/-0.50	
Acenaphthene-d10	1491392	11.278	1048868	11.297	142	50 - 200	-0.0190	+/-0.50	
Phenanthrene-d10	2477101	13.153	1731963	13.172	143	50 - 200	-0.0190	+/-0.50	
Chrysene-d12	2231239	17.527	1510682	17.562	148	50 - 200	-0.0350	+/-0.50	
Perylene-d12	2127763	20.422	1402143	20.451	152	50 - 200	-0.0290	+/-0.50	
GW0179 (1108166-01)			Lab File ID: 0816601.D			Analyzed: 09/02/11 06:16			
1,4-Dichlorobenzene-d4	568143	7.437	517703	7.457	110	50 - 200	-0.0200	+/-0.50	
Naphthalene-d8	2087581	9.066	1885919	9.086	111	50 - 200	-0.0200	+/-0.50	
Acenaphthene-d10	1198111	11.277	1048868	11.297	114	50 - 200	-0.0200	+/-0.50	
Phenanthrene-d10	1917098	13.147	1731963	13.172	111	50 - 200	-0.0250	+/-0.50	
Chrysene-d12	1796839	17.526	1510682	17.562	119	50 - 200	-0.0360	+/-0.50	
Perylene-d12	1764445	20.421	1402143	20.451	126	50 - 200	-0.0300	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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_023
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_023
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_023
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_023
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_023
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_023
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_023
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_023
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_023	
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_023		
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_023	
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_023
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_023
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_023
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_023
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_023
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_023
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_023
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:	1H23205	Injection Date:	08/19/11
Lab Sample ID:	1H23205-CCV1	Injection Time:	16:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	51.16	1.110356	1.136074		2.3	20	
Acenaphthylene	A	50.00	53.14	1.725208	1.83358		6.3	20	
Acetophenone	A	50.00	50.15	1.801986	1.807288		0.3	20	
Anthracene	A	50.00	51.02	1.092671	1.114992		2.0	20	
Benzidine	A	50.00	61.90	0.641297	0.7938866		23.8	20	*
Benzo(a)anthracene	A	50.00	52.98	1.119297	1.185975		6.0	20	
Benzo(a)pyrene	A	50.00	52.94	1.045862	1.107329		5.9	20	
Benzo(b)fluoranthene	A	50.00	58.25	1.093698	1.274096		16.5	20	
Benzo(g,h,i)perylene	A	50.00	50.57	1.033139	1.044864		1.1	20	
Benzoic acid	A	50.00	48.90	0.2679395	0.2620532		-2.2	20	
Benzo(k)fluoranthene	A	50.00	51.03	1.107729	1.130485		2.1	20	
1,1-Biphenyl	A	50.00	50.65	1.444453	1.463155		1.3	20	
4-Bromophenyl-phenylether	A	50.00	44.07	0.2284778	0.2013642		-11.9	20	
Butylbenzylphthalate	A	50.00	61.55	0.5129818	0.631447		23.1	20	*
Caprolactam	A	50.00	50.65	0.1128421	0.1143038		1.3	20	
Carbazole	A	50.00	50.28	1.044381	1.05013		0.6	20	
4-Chloro-3-methylphenol	A	50.00	49.34	0.3113523	0.3072481		-1.3	20	
4-Chloroaniline	A	50.00	54.01	0.4225325	0.4564259		8.0	20	
Bis(2-chloroethoxy)methane	A	50.00	46.82	0.4269873	0.3998365		-6.4	20	
Bis(2-chloroethyl)ether	A	50.00	49.33	1.297842	1.280402		-1.3	20	
2,2'-Oxybis-1-chloropropane	A	50.00	54.40	1.947114	2.118345		8.8	20	
2-Chloronaphthalene	A	50.00	58.28	1.087766	1.267935		16.6	20	
2-Chlorophenol	A	50.00	52.96	1.315004	1.392975		5.9	20	
4-Chlorophenyl phenyl ether	A	50.00	48.58	0.6233489	0.605591		-2.8	20	
Chrysene	A	50.00	52.58	1.047865	1.101897		5.2	20	
Dibenz(a,h)anthracene	A	50.00	51.58	1.004478	1.036247		3.2	20	
Dibenzofuran	A	50.00	52.03	1.535116	1.597555		4.1	20	
Di-n-butylphthalate	A	50.00	51.37	1.182012	1.214385		2.7	20	
3,3'-Dichlorobenzidine	A	50.00	59.06	0.4067228	0.4804186		18.1	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H23205	Injection Date:	08/19/11
Lab Sample ID:	1H23205-CCV1	Injection Time:	16:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	49.93	0.3046728	0.3042441		-0.1	20
Diethylphthalate	A	50.00	50.64	1.194731	1.210052		1.3	20
2,4-Dimethylphenol	A	50.00	50.01	0.3636609	0.3637495		0.02	20
Dimethyl phthalate	A	50.00	50.32	1.244441	1.252302		0.6	20
4,6-Dinitro-2-methylphenol	A	50.00	54.48	0.1454148	0.158453		9.0	20
2,4-Dinitrophenol	A	50.00	54.28	0.1854397	0.20131	0.05	8.6	20
2,4-Dinitrotoluene	A	50.00	51.84	0.3929838	0.4074092		3.7	20
2,6-Dinitrotoluene	A	50.00	51.28	0.2991862	0.3068375		2.6	20
Di-n-octylphthalate	A	50.00	61.64	1.204345	1.484813		23.3	20 *
1,2-Diphenylhydrazine	A	50.00	41.94	0.8507103	0.7136179		-16.1	20
Bis(2-ethylhexyl)phthalate	A	50.00	63.26	0.6793074	0.8594497		26.5	20 *
Fluoranthene	A	50.00	47.56	1.233837	1.173691		-4.9	20
Fluorene	A	50.00	50.12	1.337519	1.340853		0.2	20
Hexachlorobenzene	A	50.00	43.83	0.244362	0.21422		-12.3	20
Hexachlorobutadiene	A	50.00	42.52	0.1868569	0.1589189		-15.0	20
Hexachlorocyclopentadiene	A	50.00	41.95	0.374975	0.3146058	0.05	-16.1	20
Hexachloroethane	A	50.00	48.16	0.5464632	0.5263129		-3.7	20
Indeno(1,2,3-cd)pyrene	A	50.00	52.30	1.038008	1.085849		4.6	20
Isophorone	A	50.00	44.78	0.7442763	0.6666044		-10.4	20
1-Methylnaphthalene	A	50.00	49.18	0.5872691	0.5776972		-1.6	20
2-Methylnaphthalene	A	50.00	49.51	0.5974192	0.5916063		-1.0	20
2-Methylphenol	A	50.00	52.21	1.208635	1.261997		4.4	20
3-Methylphenol/4-Methylphenol	A	50.00	52.53	1.268409	1.332685		5.1	20
4-Nitroaniline	A	50.00	55.74	0.3272887	0.3648347		11.5	20
3-Nitroaniline	A	50.00	53.14	0.3230815	0.3433554		6.3	20
2-Nitroaniline	A	50.00	47.46	0.3700237	0.3512536		-5.1	20
Nitrobenzene	A	50.00	44.13	0.4107927	0.3625945		-11.7	20
4-Nitrophenol	A	50.00	45.78	0.2721678	0.249206	0.05	-8.4	20
2-Nitrophenol	A	50.00	53.07	0.1941449	0.206051		6.1	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H23205	Injection Date:	08/19/11
Lab Sample ID:	1H23205-CCV1	Injection Time:	16:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	50.74	0.6728889	0.6828442		1.5	20
N-Nitroso-di-n-propylamine	A	50.00	42.84	1.033966	0.8858222	0.05	-14.3	20
Pentachlorophenol	A	50.00	44.93	0.1623094	0.1458499		-10.1	20
Phenanthrene	A	50.00	50.68	1.075866	1.090591		1.4	20
Phenol	A	50.00	49.70	1.687698	1.677724		-0.6	20
Pyrene	A	50.00	57.83	1.163766	1.345993		15.7	20
2,4,6-Trichlorophenol	A	50.00	47.70	0.382004	0.3644117		-4.6	20
2,4,5-Trichlorophenol	A	50.00	47.61	0.4142645	0.3944912		-4.8	20
2-Fluorobiphenyl	A	50.00	53.20	1.265417	1.346359		6.4	20
2-Fluorophenol	A	100.0	101.1	1.142171	1.154251		1.1	20
Nitrobenzene-d5	A	50.00	44.95	0.4075494	0.3663471		-10.1	20
Phenol-d6	A	100.0	95.68	1.572986	1.504965		-4.3	20
Terphenyl-d14	A	50.00	54.90	0.7462196	0.8193926		9.8	20
2,4,6-Tribromophenol	A	100.0	89.31	0.109869	9.812264E-02		-10.7	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_023
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:	1H23205	Injection Date:	08/19/11
Lab Sample ID:	1H23205-CCV2	Injection Time:	17:05

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	46.65	0.2344682	0.2187725		-6.7	20
Benzaldehyde	A	50.00	51.15	1.010105	1.033406		2.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H23536	Injection Date:	08/22/11
Lab Sample ID:	1H23536-CCV1	Injection Time:	17:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	51.61	1.110356	1.146038		3.2	20	
Acenaphthylene	A	50.00	52.83	1.725208	1.822873		5.7	20	
Acetophenone	A	50.00	50.85	1.801986	1.832608		1.7	20	
Anthracene	A	50.00	51.24	1.092671	1.119794		2.5	20	
Benzidine	A	50.00	59.11	0.641297	0.7580954		18.2	20	
Benzo(a)anthracene	A	50.00	53.34	1.119297	1.193975		6.7	20	
Benzo(a)pyrene	A	50.00	52.65	1.045862	1.101348		5.3	20	
Benzo(b)fluoranthene	A	50.00	56.98	1.093698	1.246509		14.0	20	
Benzo(g,h,i)perylene	A	50.00	46.28	1.033139	0.9562764		-7.4	20	
Benzoic acid	A	50.00	45.47	0.2679395	0.2436572		-9.1	20	
Benzo(k)fluoranthene	A	50.00	52.44	1.107729	1.161757		4.9	20	
1,1-Biphenyl	A	50.00	50.82	1.444453	1.468061		1.6	20	
4-Bromophenyl-phenylether	A	50.00	44.12	0.2284778	0.2016193		-11.8	20	
Butylbenzylphthalate	A	50.00	61.77	0.5129818	0.6336991		23.5	20	*
Caprolactam	A	50.00	49.82	0.1128421	0.1124401		-0.4	20	
Carbazole	A	50.00	48.76	1.044381	1.018427		-2.5	20	
4-Chloro-3-methylphenol	A	50.00	49.54	0.3113523	0.3084592		-0.9	20	
4-Chloroaniline	A	50.00	52.90	0.4225325	0.447041		5.8	20	
Bis(2-chloroethoxy)methane	A	50.00	46.70	0.4269873	0.3988018		-6.6	20	
Bis(2-chloroethyl)ether	A	50.00	49.15	1.297842	1.275817		-1.7	20	
2,2'-Oxybis-1-chloropropane	A	50.00	55.43	1.947114	2.15862		10.9	20	
2-Chloronaphthalene	A	50.00	56.34	1.087766	1.225612		12.7	20	
2-Chlorophenol	A	50.00	52.61	1.315004	1.383593		5.2	20	
4-Chlorophenyl phenyl ether	A	50.00	48.86	0.6233489	0.6091354		-2.3	20	
Chrysene	A	50.00	52.13	1.047865	1.092514		4.3	20	
Dibenz(a,h)anthracene	A	50.00	48.00	1.004478	0.9643625		-4.0	20	
Dibenzofuran	A	50.00	51.98	1.535116	1.596079		4.0	20	
Di-n-butylphthalate	A	50.00	52.28	1.182012	1.235855		4.6	20	
3,3'-Dichlorobenzidine	A	50.00	57.40	0.4067228	0.4669083		14.8	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H23536	Injection Date:	08/22/11
Lab Sample ID:	1H23536-CCV1	Injection Time:	17:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	49.77	0.3046728	0.3032567		-0.5	20
Diethylphthalate	A	50.00	51.21	1.194731	1.223729		2.4	20
2,4-Dimethylphenol	A	50.00	50.12	0.3636609	0.3645329		0.2	20
Dimethyl phthalate	A	50.00	50.17	1.244441	1.248662		0.3	20
4,6-Dinitro-2-methylphenol	A	50.00	52.19	0.1454148	0.1517794		4.4	20
2,4-Dinitrophenol	A	50.00	52.81	0.1854397	0.1958613	0.05	5.6	20
2,4-Dinitrotoluene	A	50.00	51.36	0.3929838	0.4036486		2.7	20
2,6-Dinitrotoluene	A	50.00	51.53	0.2991862	0.3083301		3.1	20
Di-n-octylphthalate	A	50.00	60.46	1.204345	1.456374		20.9	20 *
1,2-Diphenylhydrazine	A	50.00	42.97	0.8507103	0.731161		-14.1	20
Bis(2-ethylhexyl)phthalate	A	50.00	63.15	0.6793074	0.8579366		26.3	20 *
Fluoranthene	A	50.00	48.05	1.233837	1.185824		-3.9	20
Fluorene	A	50.00	50.44	1.337519	1.34921		0.9	20
Hexachlorobenzene	A	50.00	44.74	0.244362	0.2186661		-10.5	20
Hexachlorobutadiene	A	50.00	42.71	0.1868569	0.1596234		-14.6	20
Hexachlorocyclopentadiene	A	50.00	42.60	0.374975	0.3195123	0.05	-14.8	20
Hexachloroethane	A	50.00	48.75	0.5464632	0.5327753		-2.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	49.49	1.038008	1.027413		-1.0	20
Isophorone	A	50.00	44.92	0.7442763	0.6687228		-10.2	20
1-Methylnaphthalene	A	50.00	49.67	0.5872691	0.5833818		-0.7	20
2-Methylnaphthalene	A	50.00	49.50	0.5974192	0.5915066		-1.0	20
2-Methylphenol	A	50.00	52.86	1.208635	1.277907		5.7	20
3-Methylphenol/4-Methylphenol	A	50.00	53.22	1.268409	1.350226		6.5	20
4-Nitroaniline	A	50.00	52.50	0.3272887	0.3436221		5.0	20
3-Nitroaniline	A	50.00	51.49	0.3230815	0.3326949		3.0	20
2-Nitroaniline	A	50.00	46.98	0.3700237	0.3476608		-6.0	20
Nitrobenzene	A	50.00	44.16	0.4107927	0.3627775		-11.7	20
4-Nitrophenol	A	50.00	43.36	0.2721678	0.2360523	0.05	-13.3	20
2-Nitrophenol	A	50.00	51.92	0.1941449	0.2016057		3.8	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H23536	Injection Date:	08/22/11
Lab Sample ID:	1H23536-CCV1	Injection Time:	17:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	51.31	0.6728889	0.6905687		2.6	20
N-Nitroso-di-n-propylamine	A	50.00	44.30	1.033966	0.9160292	0.05	-11.4	20
Pentachlorophenol	A	50.00	44.23	0.1623094	0.1435923		-11.5	20
Phenanthrene	A	50.00	51.48	1.075866	1.107755		3.0	20
Phenol	A	50.00	49.36	1.687698	1.666061		-1.3	20
Pyrene	A	50.00	57.24	1.163766	1.332184		14.5	20
2,4,6-Trichlorophenol	A	50.00	47.23	0.382004	0.360838		-5.5	20
2,4,5-Trichlorophenol	A	50.00	46.38	0.4142645	0.3842565		-7.2	20
2-Fluorobiphenyl	A	50.00	53.34	1.265417	1.349925		6.7	20
2-Fluorophenol	A	100.0	100.1	1.142171	1.143063		0.08	20
Nitrobenzene-d5	A	50.00	45.13	0.4075494	0.3678922		-9.7	20
Phenol-d6	A	100.0	95.86	1.572986	1.50788		-4.1	20
Terphenyl-d14	A	50.00	54.65	0.7462196	0.8156357		9.3	20
2,4,6-Tribromophenol	A	100.0	90.97	0.109869	9.995066E-02		-9.0	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_023
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:	1H23536	Injection Date:	08/22/11
Lab Sample ID:	1H23536-CCV2	Injection Time:	17:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	45.74	0.2344682	0.2145094		-8.5	20
Benzaldehyde	A	50.00	57.84	1.010105	1.168553		15.7	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV3.D	Calibration Date:	04/29/11 00:00
Sequence:	1H23537	Injection Date:	08/23/11
Lab Sample ID:	1H23537-CCV1	Injection Time:	04:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	50.72	1.110356	1.126461		1.5	20
Acenaphthylene	A	50.00	52.32	1.725208	1.80545		4.7	20
Acetophenone	A	50.00	53.03	1.801986	1.91105		6.1	20
Anthracene	A	50.00	50.34	1.092671	1.100042		0.7	20
Benzidine	A	50.00	58.87	0.641297	0.7551211		17.7	20
Benzo(a)anthracene	A	50.00	52.98	1.119297	1.186019		6.0	20
Benzo(a)pyrene	A	50.00	52.60	1.045862	1.100338		5.2	20
Benzo(b)fluoranthene	A	50.00	57.51	1.093698	1.257943		15.0	20
Benzo(g,h,i)perylene	A	50.00	45.59	1.033139	0.942068		-8.8	20
Benzoic acid	A	50.00	51.46	0.2679395	0.2757934		2.9	20
Benzo(k)fluoranthene	A	50.00	51.92	1.107729	1.150165		3.8	20
1,1-Biphenyl	A	50.00	50.00	1.444453	1.444424		-0.002	20
4-Bromophenyl-phenylether	A	50.00	44.03	0.2284778	0.2012032		-11.9	20
Butylbenzylphthalate	A	50.00	62.59	0.5129818	0.6421656		25.2	20 *
Caprolactam	A	50.00	50.86	0.1128421	0.1147783		1.7	20
Carbazole	A	50.00	48.34	1.044381	1.009819		-3.3	20
4-Chloro-3-methylphenol	A	50.00	49.71	0.3113523	0.3095708		-0.6	20
4-Chloroaniline	A	50.00	54.32	0.4225325	0.4590306		8.6	20
Bis(2-chloroethoxy)methane	A	50.00	47.31	0.4269873	0.4040396		-5.4	20
Bis(2-chloroethyl)ether	A	50.00	50.25	1.297842	1.304444		0.5	20
2,2'-Oxybis-1-chloropropane	A	50.00	57.59	1.947114	2.242794		15.2	20
2-Chloronaphthalene	A	50.00	56.43	1.087766	1.227757		12.9	20
2-Chlorophenol	A	50.00	53.29	1.315004	1.401659		6.6	20
4-Chlorophenyl phenyl ether	A	50.00	48.61	0.6233489	0.6060751		-2.8	20
Chrysene	A	50.00	52.31	1.047865	1.096335		4.6	20
Dibenz(a,h)anthracene	A	50.00	45.85	1.004478	0.9210878		-8.3	20
Dibenzofuran	A	50.00	51.26	1.535116	1.573984		2.5	20
Di-n-butylphthalate	A	50.00	51.31	1.182012	1.21306		2.6	20
3,3'-Dichlorobenzidine	A	50.00	59.03	0.4067228	0.4802103		18.1	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV3.D	Calibration Date:	04/29/11 00:00
Sequence:	1H23537	Injection Date:	08/23/11
Lab Sample ID:	1H23537-CCV1	Injection Time:	04:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	49.71	0.3046728	0.3029084		-0.6	20
Diethylphthalate	A	50.00	50.33	1.194731	1.202588		0.7	20
2,4-Dimethylphenol	A	50.00	50.12	0.3636609	0.3645233		0.2	20
Dimethyl phthalate	A	50.00	49.67	1.244441	1.236272		-0.7	20
4,6-Dinitro-2-methylphenol	A	50.00	53.55	0.1454148	0.1557495		7.1	20
2,4-Dinitrophenol	A	50.00	52.58	0.1854397	0.1949993	0.05	5.2	20
2,4-Dinitrotoluene	A	50.00	51.31	0.3929838	0.4032892		2.6	20
2,6-Dinitrotoluene	A	50.00	51.33	0.2991862	0.3071403		2.7	20
Di-n-octylphthalate	A	50.00	64.01	1.204345	1.541854		28.0	20 *
1,2-Diphenylhydrazine	A	50.00	42.31	0.8507103	0.7198417		-15.4	20
Bis(2-ethylhexyl)phthalate	A	50.00	64.94	0.6793074	0.8823422		29.9	20 *
Fluoranthene	A	50.00	47.03	1.233837	1.16064		-5.9	20
Fluorene	A	50.00	49.60	1.337519	1.326878		-0.8	20
Hexachlorobenzene	A	50.00	44.29	0.244362	0.2164583		-11.4	20
Hexachlorobutadiene	A	50.00	43.13	0.1868569	0.1611731		-13.7	20
Hexachlorocyclopentadiene	A	50.00	41.83	0.374975	0.3136803	0.05	-16.3	20
Hexachloroethane	A	50.00	49.20	0.5464632	0.537784		-1.6	20
Indeno(1,2,3-cd)pyrene	A	50.00	48.86	1.038008	1.014336		-2.3	20
Isophorone	A	50.00	45.46	0.7442763	0.6767519		-9.1	20
1-Methylnaphthalene	A	50.00	49.98	0.5872691	0.5869985		-0.05	20
2-Methylnaphthalene	A	50.00	49.82	0.5974192	0.5952232		-0.4	20
2-Methylphenol	A	50.00	54.40	1.208635	1.315039		8.8	20
3-Methylphenol/4-Methylphenol	A	50.00	54.64	1.268409	1.386051		9.3	20
4-Nitroaniline	A	50.00	51.15	0.3272887	0.3348063		2.3	20
3-Nitroaniline	A	50.00	52.22	0.3230815	0.337432		4.4	20
2-Nitroaniline	A	50.00	48.10	0.3700237	0.355949		-3.8	20
Nitrobenzene	A	50.00	44.26	0.4107927	0.3636354		-11.5	20
4-Nitrophenol	A	50.00	44.65	0.2721678	0.2430728	0.05	-10.7	20
2-Nitrophenol	A	50.00	52.85	0.1941449	0.2051968		5.7	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV3.D	Calibration Date:	04/29/11 00:00
Sequence:	1H23537	Injection Date:	08/23/11
Lab Sample ID:	1H23537-CCV1	Injection Time:	04:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	50.36	0.6728889	0.6777081		0.7	20
N-Nitroso-di-n-propylamine	A	50.00	46.10	1.033966	0.953251	0.05	-7.8	20
Pentachlorophenol	A	50.00	45.00	0.1623094	0.1460868		-10.0	20
Phenanthrene	A	50.00	50.34	1.075866	1.083221		0.7	20
Phenol	A	50.00	49.96	1.687698	1.686261		-0.09	20
Pyrene	A	50.00	59.10	1.163766	1.375644		18.2	20
2,4,6-Trichlorophenol	A	50.00	47.20	0.382004	0.3606022		-5.6	20
2,4,5-Trichlorophenol	A	50.00	45.88	0.4142645	0.380112		-8.2	20
2-Fluorobiphenyl	A	50.00	52.64	1.265417	1.332162		5.3	20
2-Fluorophenol	A	100.0	95.59	1.142171	1.091767		-4.4	20
Nitrobenzene-d5	A	50.00	45.07	0.4075494	0.3673788		-9.9	20
Phenol-d6	A	100.0	96.87	1.572986	1.523762		-3.1	20
Terphenyl-d14	A	50.00	55.94	0.7462196	0.8348149		11.9	20
2,4,6-Tribromophenol	A	100.0	90.74	0.109869	9.969216E-02		-9.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV4.D	Calibration Date:	04/29/11 00:00
Sequence:	1H23537	Injection Date:	08/23/11
Lab Sample ID:	1H23537-CCV2	Injection Time:	05:35

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	44.90	0.2344682	0.2105659		-10.2	20
Benzaldehyde	A	50.00	55.22	1.010105	1.115467		10.4	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H23612	Injection Date:	08/23/11
Lab Sample ID:	1H23612-CCV1	Injection Time:	20:05

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	51.58	1.110356	1.145354		3.2	20
Acenaphthylene	A	50.00	53.46	1.725208	1.844621		6.9	20
Acetophenone	A	50.00	51.06	1.801986	1.840362		2.1	20
Anthracene	A	50.00	51.50	1.092671	1.125483		3.0	20
Benzidine	A	50.00	60.92	0.641297	0.7813529		21.8	20 *
Benzo(a)anthracene	A	50.00	53.97	1.119297	1.208239		7.9	20
Benzo(a)pyrene	A	50.00	54.26	1.045862	1.134936		8.5	20
Benzo(b)fluoranthene	A	50.00	60.93	1.093698	1.33279		21.9	20 *
Benzo(g,h,i)perylene	A	50.00	52.68	1.033139	1.088426		5.4	20
Benzoic acid	A	50.00	48.14	0.2679395	0.2579784		-3.7	20
Benzo(k)fluoranthene	A	50.00	52.02	1.107729	1.152405		4.0	20
1,1-Biphenyl	A	50.00	50.07	1.444453	1.446413		0.1	20
4-Bromophenyl-phenylether	A	50.00	44.47	0.2284778	0.2031941		-11.1	20
Butylbenzylphthalate	A	50.00	63.06	0.5129818	0.6469719		26.1	20 *
Caprolactam	A	50.00	49.88	0.1128421	0.1125821		-0.2	20
Carbazole	A	50.00	50.73	1.044381	1.059546		1.5	20
4-Chloro-3-methylphenol	A	50.00	50.80	0.3113523	0.3163112		1.6	20
4-Chloroaniline	A	50.00	55.23	0.4225325	0.4667041		10.5	20
Bis(2-chloroethoxy)methane	A	50.00	47.43	0.4269873	0.4050737		-5.1	20
Bis(2-chloroethyl)ether	A	50.00	50.15	1.297842	1.301852		0.3	20
2,2'-Oxybis-1-chloropropane	A	50.00	57.16	1.947114	2.225752		14.3	20
2-Chloronaphthalene	A	50.00	60.60	1.087766	1.318381		21.2	20 *
2-Chlorophenol	A	50.00	54.01	1.315004	1.420515		8.0	20
4-Chlorophenyl phenyl ether	A	50.00	49.32	0.6233489	0.6148568		-1.4	20
Chrysene	A	50.00	52.38	1.047865	1.097693		4.8	20
Dibenz(a,h)anthracene	A	50.00	51.97	1.004478	1.044014		3.9	20
Dibenzofuran	A	50.00	52.27	1.535116	1.604709		4.5	20
Di-n-butylphthalate	A	50.00	52.63	1.182012	1.244242		5.3	20
3,3'-Dichlorobenzidine	A	50.00	58.25	0.4067228	0.4738581		16.5	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H23612	Injection Date:	08/23/11
Lab Sample ID:	1H23612-CCV1	Injection Time:	20:05

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	50.90	0.3046728	0.3101578		1.8	20
Diethylphthalate	A	50.00	52.35	1.194731	1.250817		4.7	20
2,4-Dimethylphenol	A	50.00	51.60	0.3636609	0.3753006		3.2	20
Dimethyl phthalate	A	50.00	50.92	1.244441	1.267383		1.8	20
4,6-Dinitro-2-methylphenol	A	50.00	55.44	0.1454148	0.1612349		10.9	20
2,4-Dinitrophenol	A	50.00	55.72	0.1854397	0.2066624	0.05	11.4	20
2,4-Dinitrotoluene	A	50.00	53.11	0.3929838	0.4173998		6.2	20
2,6-Dinitrotoluene	A	50.00	52.65	0.2991862	0.3150397		5.3	20
Di-n-octylphthalate	A	50.00	64.35	1.204345	1.549997		28.7	20 *
1,2-Diphenylhydrazine	A	50.00	43.89	0.8507103	0.7467523		-12.2	20
Bis(2-ethylhexyl)phthalate	A	50.00	64.65	0.6793074	0.8783076		29.3	20 *
Fluoranthene	A	50.00	48.28	1.233837	1.191317		-3.4	20
Fluorene	A	50.00	50.57	1.337519	1.352811		1.1	20
Hexachlorobenzene	A	50.00	44.64	0.244362	0.218169		-10.7	20
Hexachlorobutadiene	A	50.00	44.58	0.1868569	0.1665845		-10.8	20
Hexachlorocyclopentadiene	A	50.00	44.78	0.374975	0.3358111	0.05	-10.4	20
Hexachloroethane	A	50.00	50.02	0.5464632	0.5466924		0.04	20
Indeno(1,2,3-cd)pyrene	A	50.00	55.13	1.038008	1.14451		10.3	20
Isophorone	A	50.00	45.86	0.7442763	0.6827004		-8.3	20
1-Methylnaphthalene	A	50.00	50.30	0.5872691	0.5907667		0.6	20
2-Methylnaphthalene	A	50.00	50.68	0.5974192	0.6055092		1.4	20
2-Methylphenol	A	50.00	53.22	1.208635	1.286577		6.4	20
3-Methylphenol/4-Methylphenol	A	50.00	53.97	1.268409	1.369207		7.9	20
4-Nitroaniline	A	50.00	56.34	0.3272887	0.3687574		12.7	20
3-Nitroaniline	A	50.00	53.50	0.3230815	0.3456867		7.0	20
2-Nitroaniline	A	50.00	49.60	0.3700237	0.3670412		-0.8	20
Nitrobenzene	A	50.00	46.16	0.4107927	0.3792836		-7.7	20
4-Nitrophenol	A	50.00	47.99	0.2721678	0.2612438	0.05	-4.0	20
2-Nitrophenol	A	50.00	54.01	0.1941449	0.2096964		8.0	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H23612	Injection Date:	08/23/11
Lab Sample ID:	1H23612-CCV1	Injection Time:	20:05

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	51.35	0.6728889	0.6910863		2.7	20
N-Nitroso-di-n-propylamine	A	50.00	45.12	1.033966	0.9329899	0.05	-9.8	20
Pentachlorophenol	A	50.00	47.08	0.1623094	0.152831		-5.8	20
Phenanthrene	A	50.00	51.81	1.075866	1.114784		3.6	20
Phenol	A	50.00	50.20	1.687698	1.694298		0.4	20
Pyrene	A	50.00	58.30	1.163766	1.356835		16.6	20
2,4,6-Trichlorophenol	A	50.00	48.32	0.382004	0.3691802		-3.4	20
2,4,5-Trichlorophenol	A	50.00	48.15	0.4142645	0.3989546		-3.7	20
2-Fluorobiphenyl	A	50.00	52.94	1.265417	1.339719		5.9	20
2-Fluorophenol	A	100.0	103.6	1.142171	1.182999		3.6	20
Nitrobenzene-d5	A	50.00	46.44	0.4075494	0.3785202		-7.1	20
Phenol-d6	A	100.0	98.41	1.572986	1.548049		-1.6	20
Terphenyl-d14	A	50.00	55.45	0.7462196	0.8275999		10.9	20
2,4,6-Tribromophenol	A	100.0	91.23	0.109869	0.1002334		-8.8	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_023
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:	1H23612	Injection Date:	08/23/11
Lab Sample ID:	1H23612-CCV2	Injection Time:	20:54

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	45.41	0.2344682	0.2129649		-9.2	20
Benzaldehyde	A	50.00	50.25	1.010105	1.015172		0.5	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_023
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:	1H23813	Injection Date:	08/25/11
Lab Sample ID:	1H23813-CCV1	Injection Time:	16:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	52.71	1.110356	1.170642		5.4	20
Acenaphthylene	A	50.00	54.20	1.725208	1.869975		8.4	20
Acetophenone	A	50.00	50.84	1.801986	1.832086		1.7	20
Anthracene	A	50.00	52.96	1.092671	1.15746		5.9	20
Benzidine	A	50.00	64.14	0.641297	0.8226069		28.3	20 *
Benzo(a)anthracene	A	50.00	54.26	1.119297	1.214675		8.5	20
Benzo(a)pyrene	A	50.00	54.40	1.045862	1.137989		8.8	20
Benzo(b)fluoranthene	A	50.00	60.49	1.093698	1.323225		21.0	20 *
Benzo(g,h,i)perylene	A	50.00	52.46	1.033139	1.083908		4.9	20
Benzoic acid	A	50.00	51.06	0.2679395	0.2736338		2.1	20
Benzo(k)fluoranthene	A	50.00	52.55	1.107729	1.164273		5.1	20
1,1-Biphenyl	A	50.00	51.28	1.444453	1.481374		2.6	20
4-Bromophenyl-phenylether	A	50.00	44.51	0.2284778	0.2033842		-11.0	20
Butylbenzylphthalate	A	50.00	62.33	0.5129818	0.6394517		24.7	20 *
Caprolactam	A	50.00	51.06	0.1128421	0.1152418		2.1	20
Carbazole	A	50.00	51.25	1.044381	1.070481		2.5	20
4-Chloro-3-methylphenol	A	50.00	51.22	0.3113523	0.3189749		2.4	20
4-Chloroaniline	A	50.00	52.64	0.4225325	0.44487		5.3	20
Bis(2-chloroethoxy)methane	A	50.00	47.34	0.4269873	0.4042715		-5.3	20
Bis(2-chloroethyl)ether	A	50.00	49.46	1.297842	1.283743		-1.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	54.80	1.947114	2.13389		9.6	20
2-Chloronaphthalene	A	50.00	58.74	1.087766	1.277877		17.5	20
2-Chlorophenol	A	50.00	53.78	1.315004	1.414358		7.6	20
4-Chlorophenyl phenyl ether	A	50.00	49.46	0.6233489	0.6165793		-1.1	20
Chrysene	A	50.00	52.85	1.047865	1.107586		5.7	20
Dibenz(a,h)anthracene	A	50.00	53.22	1.004478	1.069163		6.4	20
Dibenzofuran	A	50.00	52.94	1.535116	1.625493		5.9	20
Di-n-butylphthalate	A	50.00	53.06	1.182012	1.254412		6.1	20
3,3'-Dichlorobenzidine	A	50.00	60.74	0.4067228	0.4940943		21.5	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H23813	Injection Date:	08/25/11
Lab Sample ID:	1H23813-CCV1	Injection Time:	16:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	50.98	0.3046728	0.3106535		2.0	20
Diethylphthalate	A	50.00	52.58	1.194731	1.256283		5.2	20
2,4-Dimethylphenol	A	50.00	51.31	0.3636609	0.3731594		2.6	20
Dimethyl phthalate	A	50.00	51.99	1.244441	1.294062		4.0	20
4,6-Dinitro-2-methylphenol	A	50.00	54.46	0.1454148	0.1583824		8.9	20
2,4-Dinitrophenol	A	50.00	56.32	0.1854397	0.2088627	0.05	12.6	20
2,4-Dinitrotoluene	A	50.00	52.78	0.3929838	0.4148397		5.6	20
2,6-Dinitrotoluene	A	50.00	52.83	0.2991862	0.3161222		5.7	20
Di-n-octylphthalate	A	50.00	64.75	1.204345	1.559666		29.5	20 *
1,2-Diphenylhydrazine	A	50.00	44.07	0.8507103	0.7498502		-11.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	64.31	0.6793074	0.873781		28.6	20 *
Fluoranthene	A	50.00	49.05	1.233837	1.210393		-1.9	20
Fluorene	A	50.00	52.05	1.337519	1.392389		4.1	20
Hexachlorobenzene	A	50.00	45.12	0.244362	0.2204994		-9.8	20
Hexachlorobutadiene	A	50.00	43.78	0.1868569	0.1636289		-12.4	20
Hexachlorocyclopentadiene	A	50.00	45.11	0.374975	0.3382949	0.05	-9.8	20
Hexachloroethane	A	50.00	49.92	0.5464632	0.5456069		-0.2	20
Indeno(1,2,3-cd)pyrene	A	50.00	55.11	1.038008	1.144169		10.2	20
Isophorone	A	50.00	45.98	0.7442763	0.6843909		-8.0	20
1-Methylnaphthalene	A	50.00	50.29	0.5872691	0.590645		0.6	20
2-Methylnaphthalene	A	50.00	50.77	0.5974192	0.606602		1.5	20
2-Methylphenol	A	50.00	53.03	1.208635	1.281868		6.1	20
3-Methylphenol/4-Methylphenol	A	50.00	52.83	1.268409	1.340126		5.7	20
4-Nitroaniline	A	50.00	55.95	0.3272887	0.3662131		11.9	20
3-Nitroaniline	A	50.00	53.62	0.3230815	0.3464565		7.2	20
2-Nitroaniline	A	50.00	50.65	0.3700237	0.3748056		1.3	20
Nitrobenzene	A	50.00	45.85	0.4107927	0.3767253		-8.3	20
4-Nitrophenol	A	50.00	48.37	0.2721678	0.2633181	0.05	-3.3	20
2-Nitrophenol	A	50.00	53.34	0.1941449	0.2071023		6.7	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H23813	Injection Date:	08/25/11
Lab Sample ID:	1H23813-CCV1	Injection Time:	16:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	52.31	0.6728889	0.7039496		4.6	20
N-Nitroso-di-n-propylamine	A	50.00	45.56	1.033966	0.9420728	0.05	-8.9	20
Pentachlorophenol	A	50.00	47.22	0.1623094	0.1532792		-5.6	20
Phenanthrene	A	50.00	52.72	1.075866	1.134425		5.4	20
Phenol	A	50.00	50.40	1.687698	1.701102		0.8	20
Pyrene	A	50.00	58.68	1.163766	1.365725		17.4	20
2,4,6-Trichlorophenol	A	50.00	48.56	0.382004	0.3709698		-2.9	20
2,4,5-Trichlorophenol	A	50.00	48.94	0.4142645	0.4055185		-2.1	20
2-Fluorobiphenyl	A	50.00	54.61	1.265417	1.382075		9.2	20
2-Fluorophenol	A	100.0	100.4	1.142171	1.146712		0.4	20
Nitrobenzene-d5	A	50.00	47.03	0.4075494	0.3833152		-5.9	20
Phenol-d6	A	100.0	96.74	1.572986	1.521779		-3.3	20
Terphenyl-d14	A	50.00	55.53	0.7462196	0.8288118		11.1	20
2,4,6-Tribromophenol	A	100.0	92.81	0.109869	0.1019651		-7.2	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_023
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:	1H23813	Injection Date:	08/25/11
Lab Sample ID:	1H23813-CCV2	Injection Time:	17:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	45.53	0.2344682	0.2134885		-8.9	20
Benzaldehyde	A	50.00	52.59	1.010105	1.062513		5.2	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_023
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:	1H24204	Injection Date:	08/29/11
Lab Sample ID:	1H24204-CCV1	Injection Time:	09:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	53.06	1.110356	1.178284		6.1	20	
Acenaphthylene	A	50.00	54.69	1.725208	1.886928		9.4	20	
Acetophenone	A	50.00	49.83	1.801986	1.79596		-0.3	20	
Anthracene	A	50.00	51.79	1.092671	1.131699		3.6	20	
Atrazine	A	50.00	44.01	0.2344682	0.2063664		-12.0	20	
Benzaldehyde	A	50.00	40.87	1.010105	0.8256939		-18.3	20	
Benzidine	A	50.00	66.26	0.641297	0.8498409		32.5	20	*
Benzo(a)anthracene	A	50.00	53.50	1.119297	1.197593		7.0	20	
Benzo(a)pyrene	A	50.00	54.78	1.045862	1.145832		9.6	20	
Benzo(b)fluoranthene	A	50.00	58.52	1.093698	1.28013		17.0	20	
Benzo(g,h,i)perylene	A	50.00	51.80	1.033139	1.070309		3.6	20	
Benzoic acid	A	50.00	36.12	0.2679395	0.1935389		-27.8	20	*
Benzo(k)fluoranthene	A	50.00	55.78	1.107729	1.235689		11.6	20	
1,1-Biphenyl	A	50.00	50.89	1.444453	1.470257		1.8	20	
4-Bromophenyl-phenylether	A	50.00	47.44	0.2284778	0.2167661		-5.1	20	
Butylbenzylphthalate	A	50.00	60.24	0.5129818	0.6180451		20.5	20	*
Caprolactam	A	50.00	46.02	0.1128421	0.1038527		-8.0	20	
Carbazole	A	50.00	51.13	1.044381	1.067902		2.3	20	
4-Chloro-3-methylphenol	A	50.00	48.57	0.3113523	0.3024226		-2.9	20	
4-Chloroaniline	A	50.00	52.60	0.4225325	0.4444804		5.2	20	
Bis(2-chloroethoxy)methane	A	50.00	46.56	0.4269873	0.3976502		-6.9	20	
Bis(2-chloroethyl)ether	A	50.00	49.53	1.297842	1.285709		-0.9	20	
2,2'-Oxybis-1-chloropropane	A	50.00	39.52	1.947114	1.538834		-21.0	20	*
2-Chloronaphthalene	A	50.00	52.84	1.087766	1.149499		5.7	20	
2-Chlorophenol	A	50.00	50.87	1.315004	1.337913		1.7	20	
4-Chlorophenyl phenyl ether	A	50.00	49.99	0.6233489	0.623187		-0.03	20	
Chrysene	A	50.00	51.98	1.047865	1.089452		4.0	20	
Dibenz(a,h)anthracene	A	50.00	52.29	1.004478	1.050402		4.6	20	
Dibenzofuran	A	50.00	53.48	1.535116	1.642108		7.0	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H24204	Injection Date:	08/29/11
Lab Sample ID:	1H24204-CCV1	Injection Time:	09:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Di-n-butylphthalate	A	50.00	53.56	1.182012	1.266091		7.1	20	
3,3'-Dichlorobenzidine	A	50.00	59.15	0.4067228	0.481183		18.3	20	
2,4-Dichlorophenol	A	50.00	48.99	0.3046728	0.2985354		-2.0	20	
Diethylphthalate	A	50.00	53.55	1.194731	1.279466		7.1	20	
2,4-Dimethylphenol	A	50.00	49.13	0.3636609	0.3573476		-1.7	20	
Dimethyl phthalate	A	50.00	52.27	1.244441	1.300921		4.5	20	
4,6-Dinitro-2-methylphenol	A	50.00	46.94	0.1454148	0.136512		-6.1	20	
2,4-Dinitrophenol	A	50.00	40.59	0.1854397	0.1505419	0.05	-18.8	20	
2,4-Dinitrotoluene	A	50.00	54.05	0.3929838	0.4248159		8.1	20	
2,6-Dinitrotoluene	A	50.00	51.80	0.2991862	0.3099524		3.6	20	
Di-n-octylphthalate	A	50.00	62.35	1.204345	1.501758		24.7	20	*
1,2-Diphenylhydrazine	A	50.00	44.08	0.8507103	0.7499715		-11.8	20	
Bis(2-ethylhexyl)phthalate	A	50.00	59.93	0.6793074	0.8142152		19.9	20	
Fluoranthene	A	50.00	48.19	1.233837	1.189082		-3.6	20	
Fluorene	A	50.00	51.74	1.337519	1.384193		3.5	20	
Hexachlorobenzene	A	50.00	47.31	0.244362	0.231207		-5.4	20	
Hexachlorobutadiene	A	50.00	47.64	0.1868569	0.1780261		-4.7	20	
Hexachlorocyclopentadiene	A	50.00	44.51	0.374975	0.3338386	0.05	-11.0	20	
Hexachloroethane	A	50.00	48.54	0.5464632	0.5304844		-2.9	20	
Indeno(1,2,3-cd)pyrene	A	50.00	55.04	1.038008	1.142674		10.1	20	
Isophorone	A	50.00	44.93	0.7442763	0.6687629		-10.1	20	
1-Methylnaphthalene	A	50.00	49.47	0.5872691	0.5809916		-1.1	20	
2-Methylnaphthalene	A	50.00	50.14	0.5974192	0.5990637		0.3	20	
2-Methylphenol	A	50.00	50.68	1.208635	1.225023		1.4	20	
3-Methylphenol/4-Methylphenol	A	50.00	50.43	1.268409	1.279226		0.9	20	
4-Nitroaniline	A	50.00	55.43	0.3272887	0.3628612		10.9	20	
3-Nitroaniline	A	50.00	53.10	0.3230815	0.3431294		6.2	20	
2-Nitroaniline	A	50.00	52.69	0.3700237	0.3899118		5.4	20	
Nitrobenzene	A	50.00	45.77	0.4107927	0.3760068		-8.5	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H24204	Injection Date:	08/29/11
Lab Sample ID:	1H24204-CCV1	Injection Time:	09:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	43.36	0.2721678	0.236044	0.05	-13.3	20
2-Nitrophenol	A	50.00	51.15	0.1941449	0.198592		2.3	20
N-Nitrosodiphenylamine	A	50.00	51.92	0.6728889	0.6986879		3.8	20
N-Nitroso-di-n-propylamine	A	50.00	45.06	1.033966	0.9318339	0.05	-9.9	20
Pentachlorophenol	A	50.00	44.19	0.1623094	0.14344		-11.6	20
Phenanthrene	A	50.00	52.68	1.075866	1.133539		5.4	20
Phenol	A	50.00	49.30	1.687698	1.663988		-1.4	20
Pyrene	A	50.00	55.03	1.163766	1.280809		10.1	20
2,4,6-Trichlorophenol	A	50.00	49.14	0.382004	0.3754038		-1.7	20
2,4,5-Trichlorophenol	A	50.00	47.11	0.4142645	0.3902916		-5.8	20
2-Fluorobiphenyl	A	50.00	54.75	1.265417	1.385645		9.5	20
2-Fluorophenol	A	100.0	100.7	1.142171	1.149974		0.7	20
Nitrobenzene-d5	A	50.00	45.85	0.4075494	0.3737354		-8.3	20
Phenol-d6	A	100.0	96.80	1.572986	1.522598		-3.2	20
Terphenyl-d14	A	50.00	54.70	0.7462196	0.8163249		9.4	20
2,4,6-Tribromophenol	A	100.0	92.50	0.109869	0.1016342		-7.5	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_023
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:	1H24307	Injection Date:	08/30/11
Lab Sample ID:	1H24307-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	52.50	1.110356	1.165891		5.0	20
Acenaphthylene	A	50.00	53.64	1.725208	1.850638		7.3	20
Acetophenone	A	50.00	51.20	1.801986	1.845082		2.4	20
Anthracene	A	50.00	52.11	1.092671	1.138844		4.2	20
Benzidine	A	50.00	58.48	0.641297	0.7501214		17.0	20
Benzo(a)anthracene	A	50.00	55.98	1.119297	1.253098		12.0	20
Benzo(a)pyrene	A	50.00	56.17	1.045862	1.174873		12.3	20
Benzo(b)fluoranthene	A	50.00	63.88	1.093698	1.397383		27.8	20 *
Benzo(g,h,i)perylene	A	50.00	52.44	1.033139	1.083598		4.9	20
Benzoic acid	A	50.00	42.87	0.2679395	0.229724		-14.3	20
Benzo(k)fluoranthene	A	50.00	54.09	1.107729	1.198395		8.2	20
1,1-Biphenyl	A	50.00	50.54	1.444453	1.460029		1.1	20
4-Bromophenyl-phenylether	A	50.00	46.07	0.2284778	0.2105155		-7.9	20
Butylbenzylphthalate	A	50.00	64.48	0.5129818	0.6615195		29.0	20 *
Caprolactam	A	50.00	47.01	0.1128421	0.1061049		-6.0	20
Carbazole	A	50.00	50.67	1.044381	1.058369		1.3	20
4-Chloro-3-methylphenol	A	50.00	49.85	0.3113523	0.3104133		-0.3	20
4-Chloroaniline	A	50.00	53.38	0.4225325	0.4510699		6.8	20
Bis(2-chloroethoxy)methane	A	50.00	49.38	0.4269873	0.4217304		-1.2	20
Bis(2-chloroethyl)ether	A	50.00	54.28	1.297842	1.40898		8.6	20
2,2'-Oxybis-1-chloropropane	A	50.00	50.48	1.947114	1.965793		1.0	20
2-Chloronaphthalene	A	50.00	57.16	1.087766	1.243514		14.3	20
2-Chlorophenol	A	50.00	50.87	1.315004	1.337792		1.7	20
4-Chlorophenyl phenyl ether	A	50.00	48.67	0.6233489	0.6068216		-2.7	20
Chrysene	A	50.00	53.80	1.047865	1.127476		7.6	20
Dibenz(a,h)anthracene	A	50.00	53.25	1.004478	1.069753		6.5	20
Dibenzofuran	A	50.00	50.85	1.535116	1.561353		1.7	20
Di-n-butylphthalate	A	50.00	54.57	1.182012	1.289982		9.1	20
3,3'-Dichlorobenzidine	A	50.00	60.98	0.4067228	0.4960378		22.0	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H24307	Injection Date:	08/30/11
Lab Sample ID:	1H24307-CCV1	Injection Time:	18:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	49.80	0.3046728	0.303471		-0.4	20
Diethylphthalate	A	50.00	53.72	1.194731	1.283729		7.4	20
2,4-Dimethylphenol	A	50.00	50.52	0.3636609	0.3674433		1.0	20
Dimethyl phthalate	A	50.00	52.28	1.244441	1.301307		4.6	20
4,6-Dinitro-2-methylphenol	A	50.00	46.35	0.1454148	0.1348118		-7.3	20
2,4-Dinitrophenol	A	50.00	40.06	0.1854397	0.1485793	0.05	-19.9	20
2,4-Dinitrotoluene	A	50.00	52.80	0.3929838	0.415028		5.6	20
2,6-Dinitrotoluene	A	50.00	52.90	0.2991862	0.3165179		5.8	20
Di-n-octylphthalate	A	50.00	66.66	1.204345	1.605628		33.3	20 *
1,2-Diphenylhydrazine	A	50.00	47.16	0.8507103	0.8024236		-5.7	20
Bis(2-ethylhexyl)phthalate	A	50.00	66.43	0.6793074	0.9025626		32.9	20 *
Fluoranthene	A	50.00	48.24	1.233837	1.190352		-3.5	20
Fluorene	A	50.00	50.38	1.337519	1.34763		0.8	20
Hexachlorobenzene	A	50.00	47.18	0.244362	0.2305942		-5.6	20
Hexachlorobutadiene	A	50.00	46.77	0.1868569	0.1748013		-6.5	20
Hexachlorocyclopentadiene	A	50.00	46.59	0.374975	0.3494062	0.05	-6.8	20
Hexachloroethane	A	50.00	50.71	0.5464632	0.5541974		1.4	20
Indeno(1,2,3-cd)pyrene	A	50.00	57.90	1.038008	1.201966		15.8	20
Isophorone	A	50.00	46.39	0.7442763	0.6904961		-7.2	20
1-Methylnaphthalene	A	50.00	49.45	0.5872691	0.5807819		-1.1	20
2-Methylnaphthalene	A	50.00	49.90	0.5974192	0.5962025		-0.2	20
2-Methylphenol	A	50.00	49.30	1.208635	1.191794		-1.4	20
3-Methylphenol/4-Methylphenol	A	50.00	49.53	1.268409	1.256604		-0.9	20
4-Nitroaniline	A	50.00	55.12	0.3272887	0.3608042		10.2	20
3-Nitroaniline	A	50.00	53.64	0.3230815	0.3466255		7.3	20
2-Nitroaniline	A	50.00	48.87	0.3700237	0.3616599		-2.3	20
Nitrobenzene	A	50.00	48.60	0.4107927	0.3993294		-2.8	20
4-Nitrophenol	A	50.00	46.99	0.2721678	0.2557579	0.05	-6.0	20
2-Nitrophenol	A	50.00	48.26	0.1941449	0.1873879		-3.5	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H24307	Injection Date:	08/30/11
Lab Sample ID:	1H24307-CCV1	Injection Time:	18:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	52.07	0.6728889	0.7007457		4.1	20
N-Nitroso-di-n-propylamine	A	50.00	47.19	1.033966	0.9759048	0.05	-5.6	20
Pentachlorophenol	A	50.00	45.97	0.1623094	0.1492419		-8.1	20
Phenanthrene	A	50.00	52.14	1.075866	1.12182		4.3	20
Phenol	A	50.00	50.39	1.687698	1.700858		0.8	20
Pyrene	A	50.00	56.54	1.163766	1.316022		13.1	20
2,4,6-Trichlorophenol	A	50.00	49.32	0.382004	0.376835		-1.4	20
2,4,5-Trichlorophenol	A	50.00	49.34	0.4142645	0.4088317		-1.3	20
2-Fluorobiphenyl	A	50.00	53.90	1.265417	1.364123		7.8	20
2-Fluorophenol	A	100.0	103.2	1.142171	1.179113		3.2	20
Nitrobenzene-d5	A	50.00	47.39	0.4075494	0.3862799		-5.2	20
Phenol-d6	A	100.0	95.89	1.572986	1.508345		-4.1	20
Terphenyl-d14	A	50.00	55.99	0.7462196	0.8355991		12.0	20
2,4,6-Tribromophenol	A	100.0	87.99	0.109869	9.667288E-02		-12.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1H24307	Injection Date:	08/30/11
Lab Sample ID:	1H24307-CCV2	Injection Time:	19:32

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	46.42	0.2344682	0.2176922		-7.2	20
Benzaldehyde	A	50.00	54.20	1.010105	1.094886		8.4	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1I24513	Injection Date:	09/01/11
Lab Sample ID:	1I24513-CCV1	Injection Time:	23:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	51.52	1.110356	1.14403		3.0	20
Acenaphthylene	A	50.00	53.33	1.725208	1.839987		6.7	20
Acetophenone	A	50.00	51.50	1.801986	1.856111		3.0	20
Anthracene	A	50.00	50.85	1.092671	1.111241		1.7	20
Benzidine	A	50.00	60.91	0.641297	0.7811937		21.8	20 *
Benzo(a)anthracene	A	50.00	55.03	1.119297	1.231819		10.1	20
Benzo(a)pyrene	A	50.00	55.64	1.045862	1.163732		11.3	20
Benzo(b)fluoranthene	A	50.00	60.69	1.093698	1.327485		21.4	20 *
Benzo(g,h,i)perylene	A	50.00	51.53	1.033139	1.064739		3.1	20
Benzoic acid	A	50.00	40.67	0.2679395	0.2179415		-18.7	20
Benzo(k)fluoranthene	A	50.00	55.06	1.107729	1.219816		10.1	20
1,1-Biphenyl	A	50.00	49.45	1.444453	1.428529		-1.1	20
4-Bromophenyl-phenylether	A	50.00	46.15	0.2284778	0.210877		-7.7	20
Butylbenzylphthalate	A	50.00	64.53	0.5129818	0.6620819		29.1	20 *
Caprolactam	A	50.00	47.95	0.1128421	0.1082189		-4.1	20
Carbazole	A	50.00	50.21	1.044381	1.048858		0.4	20
4-Chloro-3-methylphenol	A	50.00	49.55	0.3113523	0.3085753		-0.9	20
4-Chloroaniline	A	50.00	52.33	0.4225325	0.4422506		4.7	20
Bis(2-chloroethoxy)methane	A	50.00	47.39	0.4269873	0.4046995		-5.2	20
Bis(2-chloroethyl)ether	A	50.00	50.89	1.297842	1.32091		1.8	20
2,2'-Oxybis-1-chloropropane	A	50.00	48.18	1.947114	1.876359		-3.6	20
2-Chloronaphthalene	A	50.00	54.12	1.087766	1.177412		8.2	20
2-Chlorophenol	A	50.00	51.88	1.315004	1.364566		3.8	20
4-Chlorophenyl phenyl ether	A	50.00	50.67	0.6233489	0.6317104		1.3	20
Chrysene	A	50.00	51.99	1.047865	1.089544		4.0	20
Dibenz(a,h)anthracene	A	50.00	53.34	1.004478	1.071524		6.7	20
Dibenzofuran	A	50.00	53.00	1.535116	1.627131		6.0	20
Di-n-butylphthalate	A	50.00	54.86	1.182012	1.2969		9.7	20
3,3'-Dichlorobenzidine	A	50.00	62.47	0.4067228	0.5081694		24.9	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1I24513	Injection Date:	09/01/11
Lab Sample ID:	1I24513-CCV1	Injection Time:	23:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	49.16	0.3046728	0.2995827		-1.7	20
Diethylphthalate	A	50.00	54.49	1.194731	1.302039		9.0	20
2,4-Dimethylphenol	A	50.00	49.91	0.3636609	0.3629976		-0.2	20
Dimethyl phthalate	A	50.00	51.90	1.244441	1.29165		3.8	20
4,6-Dinitro-2-methylphenol	A	50.00	51.78	0.1454148	0.1505894		3.6	20
2,4-Dinitrophenol	A	50.00	46.36	0.1854397	0.1719248	0.05	-7.3	20
2,4-Dinitrotoluene	A	50.00	53.93	0.3929838	0.4239046		7.9	20
2,6-Dinitrotoluene	A	50.00	52.61	0.2991862	0.314827		5.2	20
Di-n-octylphthalate	A	50.00	67.83	1.204345	1.633837		35.7	20 *
1,2-Diphenylhydrazine	A	50.00	45.50	0.8507103	0.7740877		-9.0	20
Bis(2-ethylhexyl)phthalate	A	50.00	64.59	0.6793074	0.8774914		29.2	20 *
Fluoranthene	A	50.00	47.72	1.233837	1.177546		-4.6	20
Fluorene	A	50.00	50.91	1.337519	1.36178		1.8	20
Hexachlorobenzene	A	50.00	47.82	0.244362	0.233732		-4.4	20
Hexachlorobutadiene	A	50.00	47.76	0.1868569	0.1784963		-4.5	20
Hexachlorocyclopentadiene	A	50.00	45.25	0.374975	0.339383	0.05	-9.5	20
Hexachloroethane	A	50.00	51.83	0.5464632	0.5664777		3.7	20
Indeno(1,2,3-cd)pyrene	A	50.00	53.46	1.038008	1.109786		6.9	20
Isophorone	A	50.00	44.57	0.7442763	0.6634762		-10.9	20
1-Methylnaphthalene	A	50.00	48.62	0.5872691	0.5711015		-2.8	20
2-Methylnaphthalene	A	50.00	49.44	0.5974192	0.5906688		-1.1	20
2-Methylphenol	A	50.00	50.65	1.208635	1.224344		1.3	20
3-Methylphenol/4-Methylphenol	A	50.00	50.96	1.268409	1.292716		1.9	20
4-Nitroaniline	A	50.00	56.70	0.3272887	0.3711544		13.4	20
3-Nitroaniline	A	50.00	53.54	0.3230815	0.3459349		7.1	20
2-Nitroaniline	A	50.00	49.29	0.3700237	0.3647971		-1.4	20
Nitrobenzene	A	50.00	47.19	0.4107927	0.3877257		-5.6	20
4-Nitrophenol	A	50.00	48.26	0.2721678	0.2627015	0.05	-3.5	20
2-Nitrophenol	A	50.00	51.35	0.1941449	0.1993787		2.7	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1I24513	Injection Date:	09/01/11
Lab Sample ID:	1I24513-CCV1	Injection Time:	23:11

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	51.72	0.6728889	0.6960167		3.4	20
N-Nitroso-di-n-propylamine	A	50.00	46.98	1.033966	0.9715424	0.05	-6.0	20
Pentachlorophenol	A	50.00	45.46	0.1623094	0.1475583		-9.1	20
Phenanthrene	A	50.00	51.60	1.075866	1.110377		3.2	20
Phenol	A	50.00	49.44	1.687698	1.668705		-1.1	20
Pyrene	A	50.00	57.13	1.163766	1.329686		14.3	20
2,4,6-Trichlorophenol	A	50.00	49.15	0.382004	0.375547		-1.7	20
2,4,5-Trichlorophenol	A	50.00	48.61	0.4142645	0.4027191		-2.8	20
2-Fluorobiphenyl	A	50.00	53.34	1.265417	1.350041		6.7	20
2-Fluorophenol	A	100.0	100.6	1.142171	1.149023		0.6	20
Nitrobenzene-d5	A	50.00	46.28	0.4075494	0.3772022		-7.4	20
Phenol-d6	A	100.0	94.78	1.572986	1.490868		-5.2	20
Terphenyl-d14	A	50.00	57.49	0.7462196	0.8579632		15.0	20
2,4,6-Tribromophenol	A	100.0	91.73	0.109869	0.100783		-8.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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:	1I24513	Injection Date:	09/01/11
Lab Sample ID:	1I24513-CCV2	Injection Time:	23:55

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	46.97	0.2344682	0.2202513		-6.1	20
Benzaldehyde	A	50.00	51.43	1.010105	1.039018		2.9	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_023

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

Matrix: Laboratory ID: 1H10018-BLK1 File ID: H10018B1.D

Sampled: Prepared: Analyzed: 08/22/11 21:44

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H10018 Sequence: 1H23536 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	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	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	Q, X, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	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

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H10018-BLK1 File ID: H10018B1.D

Sampled: Prepared: Analyzed: 08/22/11 21:44

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H10018 Sequence: 1H23536 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	1.42	1.25	2.50	5.00	Q, X, J
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
108-39-4/106	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	33.27	66.5	50 - 110	
2-Fluorophenol	100.0	35.60	35.6	20 - 110	
Nitrobenzene-d5	50.00	35.67	71.3	40 - 110	
Phenol-d6	100.0	21.54	21.5	0 - 110	
Terphenyl-d14	50.00	52.18	104	50 - 135	
2,4,6-Tribromophenol	100.0	78.69	78.7	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H10018-BS1 File ID: H10018L1.D

Sampled: Prepared: Analyzed: 08/22/11 22:24

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H10018 Sequence: 1H23536 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	45.58	1.25	2.50	5.00	
208-96-8	Acenaphthylene	42.89	1.25	2.50	5.00	
98-86-2	Acetophenone	43.30	1.25	2.50	5.00	
120-12-7	Anthracene	48.43	1.25	2.50	5.00	
1912-24-9	Atrazine	42.47	1.25	2.50	5.00	
100-52-7	Benzaldehyde	43.80	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene	51.70	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	49.63	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	53.16	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	47.83	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	51.55	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	46.88	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	45.53	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	67.45	1.25	2.50	5.00	X
105-60-2	Caprolactam	6.548	1.25	2.50	5.00	
86-74-8	Carbazole	47.48	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	28.83	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	29.25	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	42.85	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	41.83	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	49.76	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	45.28	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	29.60	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	47.05	1.25	2.50	5.00	
218-01-9	Chrysene	51.42	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	48.89	1.25	2.50	5.00	
132-64-9	Dibenzofuran	48.98	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	53.66	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	39.44	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	30.73	1.25	2.50	5.00	
84-66-2	Diethylphthalate	50.26	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	26.59	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	45.50	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	42.09	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	35.47	12.5	25.0	50.0	X, J
121-14-2	2,4-Dinitrotoluene	48.27	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	47.49	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	66.65	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H10018-BS1 File ID: H10018L1.D

Sampled: Prepared: Analyzed: 08/22/11 22:24

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H10018 Sequence: 1H23536 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	42.32	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	69.94	1.25	2.50	5.00	X, B
206-44-0	Fluoranthene	45.81	1.25	2.50	5.00	
86-73-7	Fluorene	46.13	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	43.37	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	23.50	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	24.25	1.25	2.50	5.00	
67-72-1	Hexachloroethane	20.28	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	50.31	1.25	2.50	5.00	
78-59-1	Isophorone	38.42	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	39.70	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	39.93	1.25	2.50	5.00	
95-48-7	2-Methylphenol	25.38	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	23.74	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	41.08	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	34.05	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	40.70	5.00	10.0	20.0	
98-95-3	Nitrobenzene	37.79	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	10.57	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	34.38	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	40.43	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	41.05	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	40.54	5.00	10.0	20.0	
85-01-8	Phenanthrene	49.41	1.25	2.50	5.00	
108-95-2	Phenol	12.04	1.25	2.50	5.00	
129-00-0	Pyrene	56.86	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	33.54	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	32.55	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	35.72	71.4	50 - 110	
2-Fluorophenol	100.0	40.74	40.7	20 - 110	
Nitrobenzene-d5	50.00	36.80	73.6	40 - 110	
Phenol-d6	100.0	24.10	24.1	0 - 110	
Terphenyl-d14	50.00	54.87	110	50 - 135	
2,4,6-Tribromophenol	100.0	71.22	71.2	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H12004-BLK1 File ID: H12004B1.D

Sampled: Prepared: Analyzed: 08/19/11 19:08

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H12004 Sequence: 1H23205 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	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	Q, X, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	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_023

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

Matrix: Laboratory ID: 1H12004-BLK1 File ID: H12004B1.D

Sampled: Prepared: Analyzed: 08/19/11 19:08

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H12004 Sequence: 1H23205 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	Q, X, U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	Q, U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	Q, U
67-72-1	Hexachloroethane		1.25	2.50	5.00	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	Q, U
108-39-4/106	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	Q, 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	Q, U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	19.77	39.5	50 - 110	
2-Fluorophenol	100.0	24.10	24.1	20 - 110	
Nitrobenzene-d5	50.00	25.14	50.3	40 - 110	
Phenol-d6	100.0	14.32	14.3	0 - 110	
Terphenyl-d14	50.00	47.42	94.8	50 - 135	
2,4,6-Tribromophenol	100.0	56.85	56.9	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H12004-BS1 File ID: H12004L1.D

Sampled: Prepared: Analyzed: 08/19/11 22:29

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H12004 Sequence: 1H23205 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	43.51	1.25	2.50	5.00	
208-96-8	Acenaphthylene	42.37	1.25	2.50	5.00	
98-86-2	Acetophenone	41.67	1.25	2.50	5.00	
120-12-7	Anthracene	49.58	1.25	2.50	5.00	
1912-24-9	Atrazine	41.21	1.25	2.50	5.00	
100-52-7	Benzaldehyde	43.05	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene	53.04	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	51.47	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	54.72	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	51.44	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	51.29	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	48.03	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	45.73	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	69.45	1.25	2.50	5.00	X
105-60-2	Caprolactam	7.318	1.25	2.50	5.00	
86-74-8	Carbazole	49.82	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	25.00	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	28.13	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	42.06	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	40.85	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	50.96	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	41.31	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	24.41	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	47.00	1.25	2.50	5.00	
218-01-9	Chrysene	53.33	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	52.53	1.25	2.50	5.00	
132-64-9	Dibenzofuran	47.34	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	54.24	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	42.90	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	26.59	1.25	2.50	5.00	
84-66-2	Diethylphthalate	50.48	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	26.39	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	43.52	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	40.16	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	34.37	12.5	25.0	50.0	X, J
121-14-2	2,4-Dinitrotoluene	49.48	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	48.11	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	67.18	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H12004-BS1 File ID: H12004L1.D

Sampled: Prepared: Analyzed: 08/19/11 22:29

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H12004 Sequence: 1H23205 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	42.32	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	70.35	1.25	2.50	5.00	X
206-44-0	Fluoranthene	46.79	1.25	2.50	5.00	
86-73-7	Fluorene	45.73	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	43.55	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	12.84	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	14.92	1.25	2.50	5.00	
67-72-1	Hexachloroethane	12.54	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	55.77	1.25	2.50	5.00	
78-59-1	Isophorone	38.52	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	36.01	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	35.37	1.25	2.50	5.00	
95-48-7	2-Methylphenol	21.10	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	19.82	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	39.53	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	32.29	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	39.28	5.00	10.0	20.0	
98-95-3	Nitrobenzene	38.40	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	9.795	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	31.10	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	41.61	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	39.65	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	40.29	5.00	10.0	20.0	
85-01-8	Phenanthrene	50.21	1.25	2.50	5.00	
108-95-2	Phenol	10.06	1.25	2.50	5.00	
129-00-0	Pyrene	57.48	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	30.32	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	29.69	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	30.54	61.1	50 - 110	
2-Fluorophenol	100.0	32.19	32.2	20 - 110	
Nitrobenzene-d5	50.00	35.29	70.6	40 - 110	
Phenol-d6	100.0	19.44	19.4	0 - 110	
Terphenyl-d14	50.00	55.26	111	50 - 135	
2,4,6-Tribromophenol	100.0	66.70	66.7	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H12004-BSD1 File ID: H12004L2.D

Sampled: Prepared: Analyzed: 08/19/11 23:10

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H12004 Sequence: 1H23205 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	39.33	1.25	2.50	5.00	
208-96-8	Acenaphthylene	37.01	1.25	2.50	5.00	
98-86-2	Acetophenone	34.86	1.25	2.50	5.00	
120-12-7	Anthracene	48.12	1.25	2.50	5.00	
1912-24-9	Atrazine	33.36	1.25	2.50	5.00	
100-52-7	Benzaldehyde	36.36	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene	51.57	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	49.09	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	51.94	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	47.20	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	49.91	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	41.16	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	43.75	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	66.13	1.25	2.50	5.00	X
105-60-2	Caprolactam	6.962	1.25	2.50	5.00	
86-74-8	Carbazole	44.12	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	22.73	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	23.12	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	35.88	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	34.68	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	41.91	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	36.12	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	22.05	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	44.20	1.25	2.50	5.00	
218-01-9	Chrysene	51.48	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	50.42	1.25	2.50	5.00	
132-64-9	Dibenzofuran	43.28	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	51.17	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	36.91	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	23.12	1.25	2.50	5.00	
84-66-2	Diethylphthalate	40.43	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	22.52	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	35.33	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	31.40	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	29.52	12.5	25.0	50.0	X, J
121-14-2	2,4-Dinitrotoluene	42.45	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	41.38	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	64.67	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H12004-BSD1 File ID: H12004L2.D

Sampled: Prepared: Analyzed: 08/19/11 23:10

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H12004 Sequence: 1H23205 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	38.75	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	68.77	1.25	2.50	5.00	X
206-44-0	Fluoranthene	45.34	1.25	2.50	5.00	
86-73-7	Fluorene	42.58	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	42.92	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	7.521	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	10.72	1.25	2.50	5.00	
67-72-1	Hexachloroethane	7.513	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	51.90	1.25	2.50	5.00	
78-59-1	Isophorone	32.21	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	30.25	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	29.48	1.25	2.50	5.00	
95-48-7	2-Methylphenol	19.46	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	17.91	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	36.09	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	29.52	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	35.10	5.00	10.0	20.0	
98-95-3	Nitrobenzene	32.97	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	9.109	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	25.72	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	35.61	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	33.22	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	29.46	5.00	10.0	20.0	
85-01-8	Phenanthrene	48.08	1.25	2.50	5.00	
108-95-2	Phenol	9.579	1.25	2.50	5.00	
129-00-0	Pyrene	56.22	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	24.00	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	23.76	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	26.09	52.2	50 - 110	
2-Fluorophenol	100.0	30.09	30.1	20 - 110	
Nitrobenzene-d5	50.00	30.03	60.1	40 - 110	
Phenol-d6	100.0	18.56	18.6	0 - 110	
Terphenyl-d14	50.00	50.73	101	50 - 135	
2,4,6-Tribromophenol	100.0	48.88	48.9	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H15007-BLK1 File ID: H15007B1.D

Sampled: Prepared: Analyzed: 08/30/11 20:51

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H15007 Sequence: 1H24307 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	Q, U
100-52-7	Benzaldehyde		1.25	2.50	5.00	U
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	Q, 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	Q, X, 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	Q, U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
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	Q, U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	Q, 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	Q, X, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H15007-BLK1 File ID: H15007B1.D

Sampled: Prepared: Analyzed: 08/30/11 20:51

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H15007 Sequence: 1H24307 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	Q, X, 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	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	Q, U
108-39-4/106	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	Q, 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	Q, 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	Q, U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	Q, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	20.51	41.0	50 - 110	
2-Fluorophenol	100.0	27.01	27.0	20 - 110	
Nitrobenzene-d5	50.00	26.63	53.3	40 - 110	
Phenol-d6	100.0	16.28	16.3	0 - 110	
Terphenyl-d14	50.00	43.37	86.7	50 - 135	
2,4,6-Tribromophenol	100.0	44.41	44.4	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H15007-BS1 File ID: H15007L1.D

Sampled: Prepared: Analyzed: 08/30/11 22:10

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H15007 Sequence: 1H24307 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	40.29	1.25	2.50	5.00	
208-96-8	Acenaphthylene	35.50	1.25	2.50	5.00	
98-86-2	Acetophenone	32.70	1.25	2.50	5.00	
120-12-7	Anthracene	47.29	1.25	2.50	5.00	
1912-24-9	Atrazine	28.49	1.25	2.50	5.00	
100-52-7	Benzaldehyde	34.07	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene	52.78	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	51.61	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	54.23	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	51.04	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	53.55	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	37.46	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	45.57	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	66.71	1.25	2.50	5.00	X
105-60-2	Caprolactam	4.806	1.25	2.50	5.00	J
86-74-8	Carbazole	40.35	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	22.25	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	13.87	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	33.54	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	33.38	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	33.22	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	38.99	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	19.84	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	45.63	1.25	2.50	5.00	
218-01-9	Chrysene	51.06	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	52.17	1.25	2.50	5.00	
132-64-9	Dibenzofuran	43.96	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	52.89	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	30.60	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	21.28	1.25	2.50	5.00	
84-66-2	Diethylphthalate	41.89	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	21.22	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	37.08	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	20.09	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene	38.10	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	34.90	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	68.65	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H15007-BS1 File ID: H15007L1.D

Sampled: Prepared: Analyzed: 08/30/11 22:10

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H15007 Sequence: 1H24307 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	40.05	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	67.88	1.25	2.50	5.00	X
206-44-0	Fluoranthene	45.13	1.25	2.50	5.00	
86-73-7	Fluorene	43.22	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	45.38	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	16.30	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	15.80	1.25	2.50	5.00	
67-72-1	Hexachloroethane	12.95	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	55.20	1.25	2.50	5.00	
78-59-1	Isophorone	29.04	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	30.95	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	30.93	1.25	2.50	5.00	
95-48-7	2-Methylphenol	18.11	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	16.93	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	32.53	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	22.29	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	31.74	5.00	10.0	20.0	
98-95-3	Nitrobenzene	31.59	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	8.061	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	20.92	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	31.72	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	32.28	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	27.93	5.00	10.0	20.0	
85-01-8	Phenanthrene	48.73	1.25	2.50	5.00	
108-95-2	Phenol	9.434	1.25	2.50	5.00	
129-00-0	Pyrene	54.34	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	24.34	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	22.45	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	21.46	42.9	50 - 110	
2-Fluorophenol	100.0	27.02	27.0	20 - 110	
Nitrobenzene-d5	50.00	25.85	51.7	40 - 110	
Phenol-d6	100.0	17.44	17.4	0 - 110	
Terphenyl-d14	50.00	48.08	96.2	50 - 135	
2,4,6-Tribromophenol	100.0	43.48	43.5	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H15007-BSD1 File ID: H15007L2.D

Sampled: Prepared: Analyzed: 08/30/11 22:49

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H15007 Sequence: 1H24307 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	46.88	1.25	2.50	5.00	
208-96-8	Acenaphthylene	43.28	1.25	2.50	5.00	
98-86-2	Acetophenone	39.44	1.25	2.50	5.00	
120-12-7	Anthracene	49.94	1.25	2.50	5.00	
1912-24-9	Atrazine	35.18	1.25	2.50	5.00	
100-52-7	Benzaldehyde	39.46	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	U
56-55-3	Benzo(a)anthracene	55.83	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	54.00	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	58.35	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	53.37	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	55.28	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	48.68	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	48.84	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	71.34	1.25	2.50	5.00	X
105-60-2	Caprolactam	5.953	1.25	2.50	5.00	
86-74-8	Carbazole	48.47	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	26.10	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	14.44	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	40.41	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	38.35	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	42.33	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	46.31	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	23.97	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	49.44	1.25	2.50	5.00	
218-01-9	Chrysene	53.48	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	55.23	1.25	2.50	5.00	
132-64-9	Dibenzofuran	50.30	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	56.89	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	37.40	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	26.03	1.25	2.50	5.00	
84-66-2	Diethylphthalate	55.00	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	24.76	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	48.01	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	31.26	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	19.49	12.5	25.0	50.0	X, J
121-14-2	2,4-Dinitrotoluene	46.98	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	45.98	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	72.15	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H15007-BSD1 File ID: H15007L2.D

Sampled: Prepared: Analyzed: 08/30/11 22:49

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H15007 Sequence: 1H24307 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	46.57	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	71.19	1.25	2.50	5.00	X
206-44-0	Fluoranthene	47.31	1.25	2.50	5.00	
86-73-7	Fluorene	47.83	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	47.54	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	19.24	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	19.51	1.25	2.50	5.00	
67-72-1	Hexachloroethane	16.24	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	55.82	1.25	2.50	5.00	
78-59-1	Isophorone	35.99	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	37.54	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	37.32	1.25	2.50	5.00	
95-48-7	2-Methylphenol	20.60	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	19.31	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	35.05	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	23.58	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	37.39	5.00	10.0	20.0	
98-95-3	Nitrobenzene	37.93	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	9.490	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	28.86	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	39.09	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	39.48	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	38.25	5.00	10.0	20.0	
85-01-8	Phenanthrene	51.81	1.25	2.50	5.00	
108-95-2	Phenol	10.19	1.25	2.50	5.00	
129-00-0	Pyrene	57.71	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	30.79	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	29.81	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	22.88	45.8	50 - 110	
2-Fluorophenol	100.0	30.62	30.6	20 - 110	
Nitrobenzene-d5	50.00	30.39	60.8	40 - 110	
Phenol-d6	100.0	18.64	18.6	0 - 110	
Terphenyl-d14	50.00	57.30	115	50 - 135	
2,4,6-Tribromophenol	100.0	64.43	64.4	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H15007-MS1 File ID: 0813801M.D

Sampled: Prepared: Analyzed: 08/29/11 19:59

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H15007 Sequence: 1H24204 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	52.45	1.39	2.78	5.56	
208-96-8	Acenaphthylene	49.22	1.39	2.78	5.56	
98-86-2	Acetophenone	47.11	1.39	2.78	5.56	
120-12-7	Anthracene	54.37	1.39	2.78	5.56	
1912-24-9	Atrazine	42.12	1.39	2.78	5.56	Q
100-52-7	Benzaldehyde	47.51	1.39	2.78	5.56	
92-87-5	Benzidine		13.9	27.8	55.6	X, U
56-55-3	Benzo(a)anthracene	56.71	1.39	2.78	5.56	Q
50-32-8	Benzo(a)pyrene	55.76	1.39	2.78	5.56	
205-99-2	Benzo(b)fluoranthene	60.09	1.39	2.78	5.56	
191-24-2	Benzo(g,h,i)perylene	56.07	1.39	2.78	5.56	
65-85-0	Benzoic acid		13.9	27.8	55.6	Y, U
207-08-9	Benzo(k)fluoranthene	57.36	1.39	2.78	5.56	
92-52-4	1,1-Biphenyl	54.56	1.39	2.78	5.56	
101-55-3	4-Bromophenyl-phenylether	53.88	1.39	2.78	5.56	
85-68-7	Butylbenzylphthalate	71.60	1.39	2.78	5.56	Q, X
105-60-2	Caprolactam	6.917	1.39	2.78	5.56	Q
86-74-8	Carbazole	54.31	1.39	2.78	5.56	
59-50-7	4-Chloro-3-methylphenol	32.29	1.39	2.78	5.56	Q
106-47-8	4-Chloroaniline	17.44	1.39	2.78	5.56	
111-91-1	Bis(2-chloroethoxy)methane	46.51	1.39	2.78	5.56	
111-44-4	Bis(2-chloroethyl)ether	43.54	1.39	2.78	5.56	
108-60-1	2,2'-Oxybis-1-chloropropane	39.26	1.39	2.78	5.56	Y
91-58-7	2-Chloronaphthalene	51.78	1.39	2.78	5.56	
95-57-8	2-Chlorophenol	29.47	1.39	2.78	5.56	
7005-72-3	4-Chlorophenyl phenyl ether	54.93	1.39	2.78	5.56	
218-01-9	Chrysene	55.37	1.39	2.78	5.56	
53-70-3	Dibenz(a,h)anthracene	56.94	1.39	2.78	5.56	
132-64-9	Dibenzofuran	56.72	1.39	2.78	5.56	
84-74-2	Di-n-butylphthalate	60.46	1.39	2.78	5.56	
91-94-1	3,3'-Dichlorobenzidine	38.31	1.39	2.78	5.56	
120-83-2	2,4-Dichlorophenol	35.43	1.39	2.78	5.56	
84-66-2	Diethylphthalate	60.83	1.39	2.78	5.56	
105-67-9	2,4-Dimethylphenol	31.77	5.56	11.1	22.2	
131-11-3	Dimethyl phthalate	56.89	1.39	2.78	5.56	
534-52-1	4,6-Dinitro-2-methylphenol	50.20	5.56	11.1	22.2	Q
51-28-5	2,4-Dinitrophenol	38.78	13.9	27.8	55.6	Q, X, J
121-14-2	2,4-Dinitrotoluene	56.61	1.39	2.78	5.56	
606-20-2	2,6-Dinitrotoluene	55.03	1.39	2.78	5.56	
117-84-0	Di-n-octylphthalate	72.58	1.39	2.78	5.56	Q, X

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H15007-MS1 File ID: 0813801M.D

Sampled: Prepared: Analyzed: 08/29/11 19:59

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H15007 Sequence: 1H24204 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	47.55	1.39	2.78	5.56	
117-81-7	Bis(2-ethylhexyl)phthalate	71.43	1.39	2.78	5.56	Q
206-44-0	Fluoranthene	50.69	1.39	2.78	5.56	
86-73-7	Fluorene	53.61	1.39	2.78	5.56	
118-74-1	Hexachlorobenzene	51.32	1.39	2.78	5.56	
87-68-3	Hexachlorobutadiene	28.68	1.39	2.78	5.56	
77-47-4	Hexachlorocyclopentadiene	27.98	1.39	2.78	5.56	
67-72-1	Hexachloroethane	22.45	1.39	2.78	5.56	Q
193-39-5	Indeno(1,2,3-cd)pyrene	59.30	1.39	2.78	5.56	
78-59-1	Isophorone	43.06	1.39	2.78	5.56	
90-12-0	1-Methylnaphthalene	45.42	1.39	2.78	5.56	
91-57-6	2-Methylnaphthalene	44.89	1.39	2.78	5.56	
95-48-7	2-Methylphenol	25.37	1.39	2.78	5.56	Q
108-39-4/106	3-Methylphenol/4-Methylphenol	23.71	1.39	2.78	5.56	
100-01-6	4-Nitroaniline	41.92	5.56	11.1	22.2	
99-09-2	3-Nitroaniline	26.66	5.56	11.1	22.2	
88-74-4	2-Nitroaniline	41.90	5.56	11.1	22.2	
98-95-3	Nitrobenzene	43.06	1.39	2.78	5.56	
100-02-7	4-Nitrophenol	10.97	5.56	11.1	22.2	J
88-75-5	2-Nitrophenol	41.79	1.39	2.78	5.56	Q
86-30-6	N-Nitrosodiphenylamine	44.89	1.39	2.78	5.56	
621-64-7	N-Nitroso-di-n-propylamine	44.63	1.39	2.78	5.56	
87-86-5	Pentachlorophenol	47.71	5.56	11.1	22.2	Q
85-01-8	Phenanthrene	55.98	1.39	2.78	5.56	
108-95-2	Phenol	11.84	1.39	2.78	5.56	
129-00-0	Pyrene	59.56	1.39	2.78	5.56	
88-06-2	2,4,6-Trichlorophenol	42.91	1.39	2.78	5.56	Q
95-95-4	2,4,5-Trichlorophenol	41.69	1.39	2.78	5.56	Q

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	55.56	41.09	74.0	50 - 110	
2-Fluorophenol	111.1	35.99	32.4	20 - 110	
Nitrobenzene-d5	55.56	39.35	70.8	40 - 110	
Phenol-d6	111.1	21.90	19.7	0 - 110	
Terphenyl-d14	55.56	54.47	98.1	50 - 135	
2,4,6-Tribromophenol	111.1	87.16	78.4	40 - 125	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H15007-MSD1 File ID: 0813801S.D

Sampled: Prepared: Analyzed: 08/29/11 20:38

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H15007 Sequence: 1H24204 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	43.75	1.23	2.45	4.90	
208-96-8	Acenaphthylene	40.39	1.23	2.45	4.90	
98-86-2	Acetophenone	32.11	1.23	2.45	4.90	
120-12-7	Anthracene	46.78	1.23	2.45	4.90	
1912-24-9	Atrazine	29.31	1.23	2.45	4.90	Q
100-52-7	Benzaldehyde	33.51	1.23	2.45	4.90	
92-87-5	Benzidine		12.3	24.5	49.0	X, U
56-55-3	Benzo(a)anthracene	47.98	1.23	2.45	4.90	Q
50-32-8	Benzo(a)pyrene	48.42	1.23	2.45	4.90	
205-99-2	Benzo(b)fluoranthene	51.52	1.23	2.45	4.90	
191-24-2	Benzo(g,h,i)perylene	47.92	1.23	2.45	4.90	
65-85-0	Benzoic acid		12.3	24.5	49.0	Y, U
207-08-9	Benzo(k)fluoranthene	49.20	1.23	2.45	4.90	
92-52-4	1,1-Biphenyl	41.66	1.23	2.45	4.90	
101-55-3	4-Bromophenyl-phenylether	45.34	1.23	2.45	4.90	
85-68-7	Butylbenzylphthalate	58.70	1.23	2.45	4.90	X, Q
105-60-2	Caprolactam	4.512	1.23	2.45	4.90	Q, J
86-74-8	Carbazole	43.55	1.23	2.45	4.90	
59-50-7	4-Chloro-3-methylphenol	21.63	1.23	2.45	4.90	Q
106-47-8	4-Chloroaniline	14.18	1.23	2.45	4.90	
111-91-1	Bis(2-chloroethoxy)methane	31.92	1.23	2.45	4.90	
111-44-4	Bis(2-chloroethyl)ether	30.99	1.23	2.45	4.90	
108-60-1	2,2'-Oxybis-1-chloropropane	27.47	1.23	2.45	4.90	Y
91-58-7	2-Chloronaphthalene	44.06	1.23	2.45	4.90	
95-57-8	2-Chlorophenol	19.29	1.23	2.45	4.90	
7005-72-3	4-Chlorophenyl phenyl ether	46.38	1.23	2.45	4.90	
218-01-9	Chrysene	47.11	1.23	2.45	4.90	
53-70-3	Dibenz(a,h)anthracene	48.74	1.23	2.45	4.90	
132-64-9	Dibenzofuran	47.74	1.23	2.45	4.90	
84-74-2	Di-n-butylphthalate	51.23	1.23	2.45	4.90	
91-94-1	3,3'-Dichlorobenzidine	31.53	1.23	2.45	4.90	
120-83-2	2,4-Dichlorophenol	21.02	1.23	2.45	4.90	
84-66-2	Diethylphthalate	44.78	1.23	2.45	4.90	
105-67-9	2,4-Dimethylphenol	21.26	4.90	9.80	19.6	
131-11-3	Dimethyl phthalate	39.74	1.23	2.45	4.90	
534-52-1	4,6-Dinitro-2-methylphenol	22.33	4.90	9.80	19.6	Q
51-28-5	2,4-Dinitrophenol	12.91	12.3	24.5	49.0	Q, X, J
121-14-2	2,4-Dinitrotoluene	41.31	1.23	2.45	4.90	
606-20-2	2,6-Dinitrotoluene	38.81	1.23	2.45	4.90	
117-84-0	Di-n-octylphthalate	60.90	1.23	2.45	4.90	Q, X

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Matrix: Laboratory ID: 1H15007-MSD1 File ID: 0813801S.D

Sampled: Prepared: Analyzed: 08/29/11 20:38

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H15007 Sequence: 1H24204 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	39.04	1.23	2.45	4.90	
117-81-7	Bis(2-ethylhexyl)phthalate	58.80	1.23	2.45	4.90	Q
206-44-0	Fluoranthene	44.07	1.23	2.45	4.90	
86-73-7	Fluorene	45.05	1.23	2.45	4.90	
118-74-1	Hexachlorobenzene	44.29	1.23	2.45	4.90	
87-68-3	Hexachlorobutadiene	25.87	1.23	2.45	4.90	
77-47-4	Hexachlorocyclopentadiene	22.28	1.23	2.45	4.90	
67-72-1	Hexachloroethane	19.94	1.23	2.45	4.90	Q
193-39-5	Indeno(1,2,3-cd)pyrene	49.51	1.23	2.45	4.90	
78-59-1	Isophorone	29.75	1.23	2.45	4.90	
90-12-0	1-Methylnaphthalene	37.74	1.23	2.45	4.90	
91-57-6	2-Methylnaphthalene	37.61	1.23	2.45	4.90	
95-48-7	2-Methylphenol	17.42	1.23	2.45	4.90	Q
108-39-4/106	3-Methylphenol/4-Methylphenol	15.93	1.23	2.45	4.90	
100-01-6	4-Nitroaniline	32.05	4.90	9.80	19.6	
99-09-2	3-Nitroaniline	22.93	4.90	9.80	19.6	
88-74-4	2-Nitroaniline	30.33	4.90	9.80	19.6	
98-95-3	Nitrobenzene	30.90	1.23	2.45	4.90	
100-02-7	4-Nitrophenol	6.488	4.90	9.80	19.6	J
88-75-5	2-Nitrophenol	23.60	1.23	2.45	4.90	Q
86-30-6	N-Nitrosodiphenylamine	35.43	1.23	2.45	4.90	
621-64-7	N-Nitroso-di-n-propylamine	30.32	1.23	2.45	4.90	
87-86-5	Pentachlorophenol	23.88	4.90	9.80	19.6	Q
85-01-8	Phenanthrene	48.42	1.23	2.45	4.90	
108-95-2	Phenol	8.632	1.23	2.45	4.90	
129-00-0	Pyrene	50.82	1.23	2.45	4.90	
88-06-2	2,4,6-Trichlorophenol	23.11	1.23	2.45	4.90	Q
95-95-4	2,4,5-Trichlorophenol	22.07	1.23	2.45	4.90	Q

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	30.57	62.4	50 - 110	
2-Fluorophenol	98.04	26.60	27.1	20 - 110	
Nitrobenzene-d5	49.02	28.60	58.3	40 - 110	
Phenol-d6	98.04	16.58	16.9	0 - 110	
Terphenyl-d14	49.02	40.61	82.9	50 - 135	
2,4,6-Tribromophenol	98.04	46.73	47.7	40 - 125	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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
GW0155-R	08/08/11 11:33	08/09/11 09:00	08/11/11 11:15	2.95	7.00	08/23/11 13:45	12.10	40.00	
GW0156-R	08/08/11 11:54	08/09/11 09:00	08/11/11 11:15	2.93	7.00	08/23/11 14:27	12.13	40.00	
GW0176	08/08/11 14:51	08/09/11 09:00	08/11/11 11:15	2.81	7.00	08/23/11 15:09	12.16	40.00	
GW8023-RB	08/08/11 08:41	08/09/11 09:00	08/11/11 11:15	3.07	7.00	08/24/11 05:58	12.78	40.00	
GW0162	08/09/11 12:47	08/10/11 09:00	08/11/11 11:15	1.89	7.00	08/25/11 20:45	14.40	40.00	
GW0244	08/08/11 15:46	08/10/11 09:00	08/11/11 11:15	2.77	7.00	08/25/11 21:25	14.42	40.00	
GW0160	08/10/11 10:46	08/11/11 09:00	08/15/11 13:17	5.06	7.00	08/29/11 19:19	14.25	40.00	
GW0191	08/10/11 12:32	08/11/11 09:00	08/15/11 10:46	4.88	7.00	08/26/11 00:11	10.56	40.00	
GW0161	08/10/11 14:55	08/12/11 09:00	08/15/11 13:17	4.89	7.00	08/29/11 13:53	14.03	40.00	
GW0177	08/11/11 14:20	08/12/11 09:00	08/15/11 13:17	3.91	7.00	08/29/11 14:35	14.05	40.00	
GW0178	08/11/11 11:36	08/12/11 09:00	08/15/11 13:17	4.03	7.00	08/31/11 02:09	15.54	40.00	
GW0180	08/11/11 11:46	08/12/11 09:00	08/15/11 13:17	4.02	7.00	08/31/11 02:49	15.56	40.00	
GW0181	08/11/11 11:46	08/12/11 09:00	08/15/11 13:17	4.02	7.00	08/29/11 16:39	14.14	40.00	
GW0179	08/12/11 11:17	08/13/11 09:15	08/15/11 13:17	3.04	7.00	09/02/11 06:16	17.71	40.00	

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23301	Instrument:	GL-GCVOA2
Calibration:	1233001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23301-CAL1	003F0301.D	08/16/11 13:16
Cal Standard	1H23301-CAL2	004F0401.D	08/16/11 13:56
Cal Standard	1H23301-CAL3	005F0501.D	08/16/11 14:36
Cal Standard	1H23301-CAL4	006F0601.D	08/16/11 15:16
Cal Standard	1H23301-CAL5	007F0701.D	08/16/11 15:56
Cal Standard	1H23301-CAL6	008F0801.D	08/16/11 16:36
Initial Cal Check	1H23301-ICV1	009F0901.D	08/16/11 17:16

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23302	Instrument:	GL-GCVOA2
Calibration:	1233001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H23302-CCV1	009F0901.D	08/16/11 17:16
LCS	1H12013-BS1	011F1101.D	08/16/11 18:35
Blank	1H12013-BLK1	012F1201.D	08/16/11 19:15
GW0155-R	1108110-01	021F2101.D	08/17/11 01:10
GW0156-R	1108110-03	022F2201.D	08/17/11 01:50
Calibration Check	1H23302-CCV2	025F2501.D	08/17/11 03:48
GW0176	1108110-05	026F2601.D	08/17/11 04:27
GW8023-RB	1108110-07	027F2701.D	08/17/11 05:07
GW0162	1108126-01	028F2801.D	08/17/11 05:46
GW0244	1108126-03	029F2901.D	08/17/11 06:25
GW0160	1108138-01	030F3001.D	08/17/11 07:05
GW0191	1108138-02	031F3101.D	08/17/11 07:45
GW0160	1H12013-MS2	032F3201.D	08/17/11 08:25
GW0160	1H12013-MSD2	033F3301.D	08/17/11 09:05
Calibration Check	1H23302-CCV3	034F3401.D	08/17/11 09:45

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24112	Instrument:	GL-GCVOA2
Calibration:	1233001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H24112-CCV1	003F0301.D	08/23/11 10:26
LCS	1H22928-BS1	004F0401.D	08/23/11 11:06
Blank	1H22928-BLK1	005F0501.D	08/23/11 11:45
GW0161	1108152-01	006F0601.D	08/23/11 12:25
GW0177	1108152-03	007F0701.D	08/23/11 13:05
GW0178	1108152-05	008F0801.D	08/23/11 13:46
GW0180	1108152-07	009F0901.D	08/23/11 14:26
GW0181	1108152-09	010F1001.D	08/23/11 15:07
GW0179	1108166-01	013F1301.D	08/23/11 17:09
Calibration Check	1H24112-CCV2	016F1601.D	08/23/11 19:08

ANALYSIS DATA SHEET

GW0155-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-01	File ID:	021F2101.D
Sampled:	08/08/11 11:33	Prepared:	08/12/11 10:03	Analyzed:	08/17/11 01:10
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H12013 Sequence: 1H23302 Calibration: 1233001 Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04840	96.8	50 - 150	

ANALYSIS DATA SHEET

GW0156-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-03	File ID:	022F2201.D
Sampled:	08/08/11 11:54	Prepared:	08/12/11 10:03	Analyzed:	08/17/11 01:50
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H12013 Sequence: 1H23302 Calibration: 1233001 Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04982	99.6	50 - 150	

ANALYSIS DATA SHEET

GW0176

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-05	File ID:	026F2601.D
Sampled:	08/08/11 14:51	Prepared:	08/12/11 10:03	Analyzed:	08/17/11 04:27
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H12013 Sequence: 1H23302 Calibration: 1233001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.0900	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04943	98.9	50 - 150	

ANALYSIS DATA SHEET

GW8023-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-07	File ID:	027F2701.D
Sampled:	08/08/11 08:41	Prepared:	08/12/11 10:03	Analyzed:	08/17/11 05:07
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H12013 Sequence: 1H23302 Calibration: 1233001 Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04769	95.4	50 - 150	

ANALYSIS DATA SHEET

GW0162

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-01	File ID:	028F2801.D
Sampled:	08/09/11 12:47	Prepared:	08/12/11 10:03	Analyzed:	08/17/11 05:46
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H12013 Sequence: 1H23302 Calibration: 1233001 Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04814	96.3	50 - 150	

ANALYSIS DATA SHEET

GW0244

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-03	File ID:	029F2901.D
Sampled:	08/08/11 15:46	Prepared:	08/12/11 10:03	Analyzed:	08/17/11 06:25
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H12013 Sequence: 1H23302 Calibration: 1233001 Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04843	96.9	50 - 150	

ANALYSIS DATA SHEET

GW0160

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-01	File ID:	030F3001.D
Sampled:	08/10/11 10:46	Prepared:	08/12/11 10:03	Analyzed:	08/17/11 07:05
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H12013 Sequence: 1H23302 Calibration: 1233001 Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04780	95.6	50 - 150	

ANALYSIS DATA SHEET

GW0191

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-02	File ID:	031F3101.D
Sampled:	08/10/11 12:32	Prepared:	08/12/11 10:03	Analyzed:	08/17/11 07:45
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H12013 Sequence: 1H23302 Calibration: 1233001 Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04911	98.2	50 - 150	

ANALYSIS DATA SHEET

GW0161

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-01	File ID:	006F0601.D
Sampled:	08/10/11 14:55	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 12:25
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H22928 Sequence: 1H24112 Calibration: 1233001 Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05477	110	50 - 150	

ANALYSIS DATA SHEET

GW0177

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-03	File ID:	007F0701.D
Sampled:	08/11/11 14:20	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 13:05
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H22928 Sequence: 1H24112 Calibration: 1233001 Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05416	108	50 - 150	

ANALYSIS DATA SHEET

GW0178

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-05	File ID:	008F0801.D
Sampled:	08/11/11 11:36	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 13:46
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H22928 Sequence: 1H24112 Calibration: 1233001 Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05236	105	50 - 150	

ANALYSIS DATA SHEET

GW0180

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-07	File ID:	009F0901.D
Sampled:	08/11/11 11:46	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 14:26
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H22928 Sequence: 1H24112 Calibration: 1233001 Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05410	108	50 - 150	

ANALYSIS DATA SHEET

GW0181

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-09	File ID:	010F1001.D
Sampled:	08/11/11 11:46	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 15:07
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H22928 Sequence: 1H24112 Calibration: 1233001 Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05465	109	50 - 150	

ANALYSIS DATA SHEET

GW0179

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108166-01	File ID:	013F1301.D
Sampled:	08/12/11 11:17	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 17:09
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1H22928 Sequence: 1H24112 Calibration: 1233001 Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05455	109	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12013	Laboratory ID:	1H12013-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	0.5444	109	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H22928	Laboratory ID:	1H22928-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	0.6493	130	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H12013

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	ND	0.5520	110		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5091	102	8.08		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H12013 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0155-R	1108110-01	08/12/11 10:03	5.00	5.00
GW0156-R	1108110-03	08/12/11 10:03	5.00	5.00
GW0176	1108110-05	08/12/11 10:03	5.00	5.00
GW8023-RB	1108110-07	08/12/11 10:03	5.00	5.00
GW0162	1108126-01	08/12/11 10:03	5.00	5.00
GW0244	1108126-03	08/12/11 10:03	5.00	5.00
GW0160	1108138-01	08/12/11 10:03	5.00	5.00
GW0191	1108138-02	08/12/11 10:03	5.00	5.00
Blank	1H12013-BLK1	08/12/11 10:03	5.00	5.00
LCS	1H12013-BS1	08/12/11 10:03	5.00	5.00
GW0160	1H12013-MS2	08/12/11 10:03	5.00	5.00
GW0160	1H12013-MSD2	08/12/11 10:03	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H22928 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0161	1108152-01	08/22/11 13:44	5.00	5.00
GW0177	1108152-03	08/22/11 13:44	5.00	5.00
GW0178	1108152-05	08/22/11 13:44	5.00	5.00
GW0180	1108152-07	08/22/11 13:44	5.00	5.00
GW0181	1108152-09	08/22/11 13:44	5.00	5.00
GW0179	1108166-01	08/22/11 13:44	5.00	5.00
Blank	1H22928-BLK1	08/22/11 13:44	5.00	5.00
LCS	1H22928-BS1	08/22/11 13:44	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23301	Instrument:	GL-GCVOA2
Calibration:	1233001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0439	GRO Cal 0.1 ppm	1H23301-CAL1	003F0301.D	08/16/11 13:16
11H0438	GRO Cal 0.2ppm	1H23301-CAL2	004F0401.D	08/16/11 13:56
11H0440	GRO Cal 0.5ppm	1H23301-CAL3	005F0501.D	08/16/11 14:36
11H0441	GRO Cal 1.0 ppm	1H23301-CAL4	006F0601.D	08/16/11 15:16
11H0442	GRO Cal 2.0 ppm	1H23301-CAL5	007F0701.D	08/16/11 15:56
11H0443	GRO Cal 5.0 ppm	1H23301-CAL6	008F0801.D	08/16/11 16:36

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1233001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	8/16/11 13:16	8/16/11 16:36

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	1626910	0.2	1395485	0.5	1453130	1	1371356	2	1370237	5	1369390
Bromofluorobenzene	0.055	1260073	0.06	1257550	0.05	1294820	0.07	1256957	0.15	1213507	0.25	1211468

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1233001	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	8/16/11 13:16	8/16/11 16:36

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	1431085	7.069476	8.137	1.136326E-02			20	
Bromofluorobenzene	1249062	2.538523	20.2325	1.879461E-02			20	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1233001
Lab File ID:	009F0901.D	Calibration Date:	08/16/11 13:16
Sequence:	1H23301	Injection Date:	08/16/11
Lab Sample ID:	1H23301-ICV1	Injection Time:	17:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5628	1431085	1610806		12.6	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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1233001
Lab File ID:	009F0901.D	Calibration Date:	08/16/11 13:16
Sequence:	1H23302	Injection Date:	08/16/11
Lab Sample ID:	1H23302-CCV1	Injection Time:	17:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5628	1431085	1610806		12.6	20
Bromofluorobenzene	A	0.05000	0.05192	1249062	1296960		3.8	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1233001
Lab File ID:	025F2501.D	Calibration Date:	08/16/11 13:16
Sequence:	1H23302	Injection Date:	08/17/11
Lab Sample ID:	1H23302-CCV2	Injection Time:	03:48

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4698	1431085	1344720		-6.0	20
Bromofluorobenzene	A	0.05000	0.05120	1249062	1279140		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

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1233001
Lab File ID:	034F3401.D	Calibration Date:	08/16/11 13:16
Sequence:	1H23302	Injection Date:	08/17/11
Lab Sample ID:	1H23302-CCV3	Injection Time:	09:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4742	1431085	1357138		-5.2	20
Bromofluorobenzene	A	0.05000	0.05101	1249062	1274360		2.0	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1233001
Lab File ID:	003F0301.D	Calibration Date:	08/16/11 13:16
Sequence:	1H24112	Injection Date:	08/23/11
Lab Sample ID:	1H24112-CCV1	Injection Time:	10:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5887	1431085	1684890		17.7	20
Bromofluorobenzene	A	0.05000	0.05656	1249062	1412860		13.1	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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1233001
Lab File ID:	016F1601.D	Calibration Date:	08/16/11 13:16
Sequence:	1H24112	Injection Date:	08/23/11
Lab Sample ID:	1H24112-CCV2	Injection Time:	19:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4806	1431085	1375566		-3.9	20
Bromofluorobenzene	A	0.05000	0.05608	1249062	1401080		12.2	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23302	Instrument:	GL-GCVOA2
		Calibration:	1233001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H23302-CCV1) ug/mL				Lab File ID: 009F0901.D		Analyzed: 08/16/11 17:16		
Bromofluorobenzene	0.05000	104	80 - 120	20.236	20.236	0.0000	+/-0.210	
LCS (1H12013-BS1) mg/L				Lab File ID: 011F1101.D		Analyzed: 08/16/11 18:35		
Bromofluorobenzene	0.05000	102	50 - 150	20.233	20.236	-0.0030	+/-0.210	
Blank (1H12013-BLK1) mg/L				Lab File ID: 012F1201.D		Analyzed: 08/16/11 19:15		
Bromofluorobenzene	0.05000	101	50 - 150	20.24	20.236	0.0040	+/-0.210	
GW0155-R (1108110-01) mg/L				Lab File ID: 021F2101.D		Analyzed: 08/17/11 01:10		
Bromofluorobenzene	0.05000	96.8	50 - 150	20.24	20.236	0.0040	+/-0.210	
GW0156-R (1108110-03) mg/L				Lab File ID: 022F2201.D		Analyzed: 08/17/11 01:50		
Bromofluorobenzene	0.05000	99.6	50 - 150	20.24	20.236	0.0040	+/-0.210	
Calibration Check (1H23302-CCV2) ug/mL				Lab File ID: 025F2501.D		Analyzed: 08/17/11 03:48		
Bromofluorobenzene	0.05000	102	80 - 120	20.243	20.236	0.0070	+/-0.210	
GW0176 (1108110-05) mg/L				Lab File ID: 026F2601.D		Analyzed: 08/17/11 04:27		
Bromofluorobenzene	0.05000	98.9	50 - 150	20.243	20.236	0.0070	+/-0.210	
GW8023-RB (1108110-07) mg/L				Lab File ID: 027F2701.D		Analyzed: 08/17/11 05:07		
Bromofluorobenzene	0.05000	95.4	50 - 150	20.246	20.236	0.0100	+/-0.210	
GW0162 (1108126-01) mg/L				Lab File ID: 028F2801.D		Analyzed: 08/17/11 05:46		
Bromofluorobenzene	0.05000	96.3	50 - 150	20.25	20.236	0.0140	+/-0.210	
GW0244 (1108126-03) mg/L				Lab File ID: 029F2901.D		Analyzed: 08/17/11 06:25		
Bromofluorobenzene	0.05000	96.9	50 - 150	20.246	20.236	0.0100	+/-0.210	
GW0160 (1108138-01) mg/L				Lab File ID: 030F3001.D		Analyzed: 08/17/11 07:05		
Bromofluorobenzene	0.05000	95.6	50 - 150	20.246	20.236	0.0100	+/-0.210	
GW0191 (1108138-02) mg/L				Lab File ID: 031F3101.D		Analyzed: 08/17/11 07:45		
Bromofluorobenzene	0.05000	98.2	50 - 150	20.243	20.236	0.0070	+/-0.210	
Matrix Spike (1H12013-MS2) mg/L				Lab File ID: 032F3201.D		Analyzed: 08/17/11 08:25		
Bromofluorobenzene	0.05000	102	50 - 150	20.243	20.236	0.0070	+/-0.210	
Matrix Spike Dup (1H12013-MSD2) mg/L				Lab File ID: 033F3301.D		Analyzed: 08/17/11 09:05		
Bromofluorobenzene	0.05000	99.9	50 - 150	20.246	20.236	0.0100	+/-0.210	
Calibration Check (1H23302-CCV3) ug/mL				Lab File ID: 034F3401.D		Analyzed: 08/17/11 09:45		
Bromofluorobenzene	0.05000	102	80 - 120	20.246	20.236	0.0100	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24112	Instrument:	GL-GCVOA2
		Calibration:	1233001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H24112-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 08/23/11 10:26		
Bromofluorobenzene	0.05000	113	80 - 120	20.25	20.25	0.0000	+/-0.210	
LCS (1H22928-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 08/23/11 11:06		
Bromofluorobenzene	0.05000	116	50 - 150	20.25	20.25	0.0000	+/-0.210	
Blank (1H22928-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 08/23/11 11:45		
Bromofluorobenzene	0.05000	109	50 - 150	20.25	20.25	0.0000	+/-0.210	
GW0161 (1108152-01) mg/L				Lab File ID: 006F0601.D		Analyzed: 08/23/11 12:25		
Bromofluorobenzene	0.05000	110	50 - 150	20.25	20.25	0.0000	+/-0.210	
GW0177 (1108152-03) mg/L				Lab File ID: 007F0701.D		Analyzed: 08/23/11 13:05		
Bromofluorobenzene	0.05000	108	50 - 150	20.246	20.25	-0.0040	+/-0.210	
GW0178 (1108152-05) mg/L				Lab File ID: 008F0801.D		Analyzed: 08/23/11 13:46		
Bromofluorobenzene	0.05000	105	50 - 150	20.246	20.25	-0.0040	+/-0.210	
GW0180 (1108152-07) mg/L				Lab File ID: 009F0901.D		Analyzed: 08/23/11 14:26		
Bromofluorobenzene	0.05000	108	50 - 150	20.246	20.25	-0.0040	+/-0.210	
GW0181 (1108152-09) mg/L				Lab File ID: 010F1001.D		Analyzed: 08/23/11 15:07		
Bromofluorobenzene	0.05000	109	50 - 150	20.243	20.25	-0.0070	+/-0.210	
GW0179 (1108166-01) mg/L				Lab File ID: 013F1301.D		Analyzed: 08/23/11 17:09		
Bromofluorobenzene	0.05000	109	50 - 150	20.243	20.25	-0.0070	+/-0.210	
Calibration Check (1H24112-CCV2) ug/mL				Lab File ID: 016F1601.D		Analyzed: 08/23/11 19:08		
Bromofluorobenzene	0.05000	112	80 - 120	20.253	20.25	0.0030	+/-0.210	

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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
GW0155-R	08/08/11 11:33	08/09/11 09:00	08/12/11 10:03	N/A	14.00	08/17/11 01:10	8.53	14.00	
GW0156-R	08/08/11 11:54	08/09/11 09:00	08/12/11 10:03	N/A	14.00	08/17/11 01:50	8.54	14.00	
GW0176	08/08/11 14:51	08/09/11 09:00	08/12/11 10:03	N/A	14.00	08/17/11 04:27	8.53	14.00	
GW8023-RB	08/08/11 08:41	08/09/11 09:00	08/12/11 10:03	N/A	14.00	08/17/11 05:07	8.81	14.00	
GW0162	08/09/11 12:47	08/10/11 09:00	08/12/11 10:03	N/A	14.00	08/17/11 05:46	7.67	14.00	
GW0244	08/08/11 15:46	08/10/11 09:00	08/12/11 10:03	N/A	14.00	08/17/11 06:25	8.57	14.00	
GW0160	08/10/11 10:46	08/11/11 09:00	08/12/11 10:03	N/A	14.00	08/17/11 07:05	6.80	14.00	
GW0191	08/10/11 12:32	08/11/11 09:00	08/12/11 10:03	N/A	14.00	08/17/11 07:45	6.76	14.00	
GW0161	08/10/11 14:55	08/12/11 09:00	08/22/11 13:44	N/A	14.00	08/23/11 12:25	12.85	14.00	
GW0177	08/11/11 14:20	08/12/11 09:00	08/22/11 13:44	N/A	14.00	08/23/11 13:05	11.91	14.00	
GW0178	08/11/11 11:36	08/12/11 09:00	08/22/11 13:44	N/A	14.00	08/23/11 13:46	12.05	14.00	
GW0180	08/11/11 11:46	08/12/11 09:00	08/22/11 13:44	N/A	14.00	08/23/11 14:26	12.07	14.00	
GW0181	08/11/11 11:46	08/12/11 09:00	08/22/11 13:44	N/A	14.00	08/23/11 15:07	12.10	14.00	
GW0179	08/12/11 11:17	08/13/11 09:15	08/22/11 13:44	N/A	14.00	08/23/11 17:09	11.20	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1H12013-BLK1
File ID: 012F1201.D
Sampled:
Prepared:
Analyzed: 08/16/11 19:15
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1H12013
Sequence: 1H23302
Calibration: 1233001
Instrument: GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05041	101	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1H12013-BS1
File ID: 011F1101.D
Sampled:
Prepared:
Analyzed: 08/16/11 18:35
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1H12013
Sequence: 1H23302
Calibration: 1233001
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5444	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05116	102	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H12013-MS2	File ID:	032F3201.D
Sampled:		Prepared:		Analyzed:	08/17/11 08:25
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1H12013	Sequence:	1H23302	Calibration:	1233001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5520	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05094	102	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	kirtland_023	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1H12013-MSD2	File ID:	033F3301.D
Sampled:		Prepared:		Analyzed:	08/17/11 09:05
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1H12013 Sequence: 1H23302 Calibration: 1233001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5091	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04995	99.9	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H22928-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	08/23/11 11:45
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1H22928	Sequence:	1H24112	Calibration:	1233001	Instrument:	GL-GCVOA2

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

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05436	109	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H22928-BS1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	08/23/11 11:06
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1H22928	Sequence:	1H24112	Calibration:	1233001	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.6493	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05816	116	50 - 150	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCVOA2

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

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H21510	Instrument:	GL-GCFID2
Calibration:	1215003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H21510-CAL6	003F0301.D	08/01/11 15:40
Cal Standard	1H21510-CAL5	004F0401.D	08/01/11 16:14
Cal Standard	1H21510-CAL4	005F0501.D	08/01/11 16:49
Cal Standard	1H21510-CAL3	006F0601.D	08/01/11 17:23
Cal Standard	1H21510-CAL2	007F0701.D	08/01/11 17:57
Cal Standard	1H21510-CAL1	008F0801.D	08/01/11 18:31
Initial Cal Check	1H21510-ICV1	009F0901.D	08/01/11 19:05

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22704	Instrument:	GL-GCFID2
Calibration:	1215003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H22704-CCV1	003F0301.D	08/11/11 15:03
Blank	1H09007-BLK1	004F0401.D	08/11/11 15:31
LCS	1H09007-BS1	005F0501.D	08/11/11 15:59
LCS Dup	1H09007-BSD1	006F0601.D	08/11/11 16:28
Calibration Check	1H22704-CCV2	014F1401.D	08/11/11 20:10
GW0155-R	1108110-01	016F1601.D	08/11/11 21:05
GW0156-R	1108110-03	017F1701.D	08/11/11 21:33
GW0176	1108110-05	018F1801.D	08/11/11 22:01
GW8023-RB	1108110-07	019F1901.D	08/11/11 22:28
Calibration Check	1H22704-CCV3	025F2501.D	08/12/11 01:15

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22812	Instrument:	GL-GCFID2
Calibration:	1215003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H22812-CCV1	003F0301.D	08/15/11 07:53
Calibration Check	1H22812-CCV3	023F2301.D	08/15/11 17:08
Blank	1H11011-BLK1	028F2801.D	08/15/11 19:26
LCS	1H11011-BS1	029F2901.D	08/15/11 19:54
LCS Dup	1H11011-BSD1	030F3001.D	08/15/11 20:21
GW0162	1108126-01	031F3101.D	08/15/11 20:49
GW0244	1108126-03	032F3201.D	08/15/11 21:17
Calibration Check	1H22812-CCV4	035F3501.D	08/15/11 22:39

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24310	Instrument:	GL-GCFID2
Calibration:	1243001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H24310-CAL1	003F0401.D	08/29/11 22:44
Cal Standard	1H24310-CAL2	004F0501.D	08/29/11 23:17
Cal Standard	1H24310-CAL3	005F0601.D	08/29/11 23:51
Cal Standard	1H24310-CAL4	006F0701.D	08/30/11 00:24
Cal Standard	1H24310-CAL5	007F0801.D	08/30/11 00:57
Cal Standard	1H24310-CAL6	008F0901.D	08/30/11 01:31
Initial Cal Check	1H24310-ICV1	009F1001.D	08/30/11 02:04

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I24405	Instrument:	GL-GCFID2
Calibration:	1243001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I24405-CCV1	010F1101.D	08/30/11 02:37
Blank	1H12029-BLK1	011F1201.D	08/30/11 03:11
LCS	1H12029-BS1	012F1301.D	08/30/11 03:44
LCS Dup	1H12029-BSD1	013F1401.D	08/30/11 04:17
GW0160	1108138-01	014F1501.D	08/30/11 04:50
GW0160	1H12029-MS1	015F1601.D	08/30/11 05:23
GW0160	1H12029-MSD1	016F1701.D	08/30/11 05:56
GW0191	1108138-02	017F1801.D	08/30/11 06:29
GW0161	1108152-01	018F1901.D	08/30/11 07:02
GW0177	1108152-03	019F2001.D	08/30/11 07:36
GW0178	1108152-05	020F2101.D	08/30/11 12:19
GW0180	1108152-07	021F2201.D	08/30/11 12:52
GW0181	1108152-09	022F2301.D	08/30/11 16:12
Calibration Check	1I24405-CCV2	023F2401.D	08/30/11 17:21
GW0179	1108166-01	026F2701.D	08/30/11 19:11
Calibration Check	1I24405-CCV3	027F2801.D	08/30/11 20:01

ANALYSIS DATA SHEET

GW0155-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-01	File ID:	016F1601.D
Sampled:	08/08/11 11:33	Prepared:	08/09/11 16:37	Analyzed:	08/11/11 21:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H09007 Sequence: 1H22704 Calibration: 1215003 Instrument: GL-GCFID2

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	0.01588	79.4	30 - 140	

ANALYSIS DATA SHEET

GW0156-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-03	File ID:	017F1701.D
Sampled:	08/08/11 11:54	Prepared:	08/09/11 16:37	Analyzed:	08/11/11 21:33
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H09007 Sequence: 1H22704 Calibration: 1215003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01165	61.7	30 - 140	

ANALYSIS DATA SHEET

GW0176

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-05	File ID:	018F1801.D
Sampled:	08/08/11 14:51	Prepared:	08/09/11 16:37	Analyzed:	08/11/11 22:01
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H09007 Sequence: 1H22704 Calibration: 1215003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01367	72.4	30 - 140	

ANALYSIS DATA SHEET

GW8023-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-07	File ID:	019F1901.D
Sampled:	08/08/11 08:41	Prepared:	08/09/11 16:37	Analyzed:	08/11/11 22:28
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H09007 Sequence: 1H22704 Calibration: 1215003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01035	53.8	30 - 140	

ANALYSIS DATA SHEET

GW0162

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-01	File ID:	031F3101.D
Sampled:	08/09/11 12:47	Prepared:	08/11/11 17:09	Analyzed:	08/15/11 20:49
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H11011 Sequence: 1H22812 Calibration: 1215003 Instrument: GL-GCFID2

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	0.01356	67.8	30 - 140	

ANALYSIS DATA SHEET

GW0244

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-03	File ID:	032F3201.D
Sampled:	08/08/11 15:46	Prepared:	08/11/11 17:09	Analyzed:	08/15/11 21:17
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H11011 Sequence: 1H22812 Calibration: 1215003 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.111	0.111	0.111	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02222	0.01541	69.3	30 - 140	

ANALYSIS DATA SHEET

GW0160

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-01	File ID:	014F1501.D
Sampled:	08/10/11 10:46	Prepared:	08/16/11 15:00	Analyzed:	08/30/11 04:50
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12029 Sequence: 1I24405 Calibration: 1243001 Instrument: GL-GCFID2

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, N, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.006364	33.7	30 - 140	Y

ANALYSIS DATA SHEET

GW0191

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-02	File ID:	017F1801.D
Sampled:	08/10/11 12:32	Prepared:	08/16/11 15:00	Analyzed:	08/30/11 06:29
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12029 Sequence: 1I24405 Calibration: 1243001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	Q, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.008135	42.3	30 - 140	Y

ANALYSIS DATA SHEET

GW0161

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-01	File ID:	018F1901.D
Sampled:	08/10/11 14:55	Prepared:	08/16/11 15:00	Analyzed:	08/30/11 07:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12029 Sequence: 1I24405 Calibration: 1243001 Instrument: GL-GCFID2

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	0.01129	59.8	30 - 140	Y

ANALYSIS DATA SHEET

GW0177

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-03	File ID:	019F2001.D
Sampled:	08/11/11 14:20	Prepared:	08/16/11 15:00	Analyzed:	08/30/11 07:36
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12029 Sequence: 1I24405 Calibration: 1243001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	Q, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01145	59.5	30 - 140	Y

ANALYSIS DATA SHEET

GW0178

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-05	File ID:	020F2101.D
Sampled:	08/11/11 11:36	Prepared:	08/16/11 15:00	Analyzed:	08/30/11 12:19
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12029 Sequence: 1I24405 Calibration: 1243001 Instrument: GL-GCFID2

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	0.01139	60.3	30 - 140	Y

ANALYSIS DATA SHEET

GW0180

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-07	File ID:	021F2201.D
Sampled:	08/11/11 11:46	Prepared:	08/16/11 15:00	Analyzed:	08/30/11 12:52
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12029 Sequence: 1I24405 Calibration: 1243001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	Q, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01038	54.0	30 - 140	Y

ANALYSIS DATA SHEET

GW0181

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-09	File ID:	022F2301.D
Sampled:	08/11/11 11:46	Prepared:	08/16/11 15:00	Analyzed:	08/30/11 16:12
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12029 Sequence: 1I24405 Calibration: 1243001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	Q, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01111	57.8	30 - 140	Y

ANALYSIS DATA SHEET

GW0179

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108166-01	File ID:	026F2701.D
Sampled:	08/12/11 11:17	Prepared:	08/16/11 15:00	Analyzed:	08/30/11 19:11
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12029 Sequence: 1I24405 Calibration: 1243001 Instrument: GL-GCFID2

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	0.01298	64.9	30 - 140	Y

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H09007	Laboratory ID:	1H09007-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	0.5540	55.4	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	0.5441	54.4	1.80	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H11011	Laboratory ID:	1H11011-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	0.6256	62.6	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	0.6333	63.3	1.23	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12029	Laboratory ID:	1H12029-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**	**0.2449**	**24.5**	**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**	**0.3617**	**36.2 ***	**38.5**	**50**	**50 - 150**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B DRO

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H12029

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Diesel Range Organics (C10-C28)	0.9804	ND	0.4203	42.9	*	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)	0.9615	0.4005	41.7	4.84	*	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H09007 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0155-R	1108110-01	08/09/11 16:37	1,000.00	1.00
GW0156-R	1108110-03	08/09/11 16:37	1,060.00	1.00
GW0176	1108110-05	08/09/11 16:37	1,060.00	1.00
GW8023-RB	1108110-07	08/09/11 16:37	1,040.00	1.00
Blank	1H09007-BLK1	08/09/11 16:37	1,000.00	1.00
LCS	1H09007-BS1	08/09/11 16:37	1,000.00	1.00
LCS Dup	1H09007-BSD1	08/09/11 16:37	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H11011 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0162	1108126-01	08/11/11 17:09	1,000.00	1.00
GW0244	1108126-03	08/11/11 17:09	900.00	1.00
Blank	1H11011-BLK1	08/11/11 17:09	1,000.00	1.00
LCS	1H11011-BS1	08/11/11 17:09	1,000.00	1.00
LCS Dup	1H11011-BSD1	08/11/11 17:09	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H12029 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0160	1108138-01	08/16/11 15:00	1,060.00	1.00
GW0191	1108138-02	08/16/11 15:00	1,040.00	1.00
GW0161	1108152-01	08/16/11 15:00	1,060.00	1.00
GW0177	1108152-03	08/16/11 15:00	1,040.00	1.00
GW0178	1108152-05	08/16/11 15:00	1,060.00	1.00
GW0180	1108152-07	08/16/11 15:00	1,040.00	1.00
GW0181	1108152-09	08/16/11 15:00	1,040.00	1.00
GW0179	1108166-01	08/16/11 15:00	1,000.00	1.00
Blank	1H12029-BLK1	08/16/11 15:00	1,000.00	1.00
LCS	1H12029-BS1	08/16/11 15:00	1,000.00	1.00
LCS Dup	1H12029-BSD1	08/16/11 15:00	1,000.00	1.00
GW0160	1H12029-MS1	08/16/11 15:00	1,020.00	1.00
GW0160	1H12029-MSD1	08/16/11 15:00	1,040.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H21510	Instrument:	GL-GCFID2
Calibration:	1215003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11G0729	DRO ICAL6@100ppm	1H21510-CAL6	003F0301.D	08/01/11 15:40
11G0728	DRO ICAL5@250ppm	1H21510-CAL5	004F0401.D	08/01/11 16:14
11G0727	DRO ICAL4@500ppm	1H21510-CAL4	005F0501.D	08/01/11 16:49
11G0726	DRO ICAL3@1000ppm	1H21510-CAL3	006F0601.D	08/01/11 17:23
11G0725	DRO ICAL2@2500ppm	1H21510-CAL2	007F0701.D	08/01/11 17:57
11G0724	DRO ICAL1@5000ppm	1H21510-CAL1	008F0801.D	08/01/11 18:31

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24310	Instrument:	GL-GCFID2
Calibration:	1243001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11H0604	DRO ICAL1@5000ppm	1H24310-CAL1	003F0401.D	08/29/11 22:44
11H0605	DRO ICAL2@2500ppm	1H24310-CAL2	004F0501.D	08/29/11 23:17
11H0606	DRO ICAL3@1000ppm	1H24310-CAL3	005F0601.D	08/29/11 23:51
11H0607	DRO ICAL4@500ppm	1H24310-CAL4	006F0701.D	08/30/11 00:24
11H0608	DRO ICAL5@250ppm	1H24310-CAL5	007F0801.D	08/30/11 00:57
11H0609	DRO ICAL6@100ppm	1H24310-CAL6	008F0901.D	08/30/11 01:31

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1215003	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	8/1/11_15:40	8/1/11_18:31

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)	5000	2274.896	2500	2507.639	1000	2530.785	500	2655.026	250	2640.648	100	2519.53
Diesel Range Organics (C8-C40)	5000		2500		1000		500		250		100	
o-Terphenyl	250	3079.06	125	3198.432	50	3080.72	25	3554.52	12.5	3522.88	5	3433.2
Diesel Range Organics (C8-C28)	5000		2500		1000		500		250		100	
Diesel Range Organics (C8-C34)	5000		2500		1000		500		250		100	

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1215003	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	8/1/11 15:40	8/1/11 18:31

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	2521.421	5.412449	4.293	2.029058E-02			20	
Diesel Range Organics (C8-C40)							20	
o-Terphenyl	3311.469	6.597064	7.975667	0.1597152			20	
Diesel Range Organics (C8-C28)							20	
Diesel Range Organics (C8-C34)							20	

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1243001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	8/29/11 22:44	8/30/11 1:31

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)	5000	2435.688	2500	2452.135	1000	2268.454	500	2208.11	250	2265.268	100	2072.25
o-Terphenyl	250	3399.52	125	3414.496	50	3279.02	25	3333.48	12.5	3573.68	5	3806.6

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1243001	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	8/29/11 22:44	8/30/11 1:31

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	2283.651	6.26872	6.427	2.266707E-02			20	
o-Terphenyl	3467.799	5.579431	11.37517	0.161701			20	

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1215003
Lab File ID:	009F0901.D	Calibration Date:	08/03/11 16:40
Sequence:	1H21510	Injection Date:	08/01/11
Lab Sample ID:	1H21510-ICV1	Injection Time:	19:05

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	500.0	556.9	2521.421	2808.408		11.4	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1243001
Lab File ID:	009F1001.D	Calibration Date:	08/29/11 22:44
Sequence:	1H24310	Injection Date:	08/30/11
Lab Sample ID:	1H24310-ICV1	Injection Time:	02:04

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	856.4	2283.651	1955.708		-14.4	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1215003
Lab File ID:	003F0301.D	Calibration Date:	08/03/11 16:40
Sequence:	1H22704	Injection Date:	08/11/11
Lab Sample ID:	1H22704-CCV1	Injection Time:	15:03

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	933.7	2521.421	2354.129		-6.6	20
o-Terphenyl	A	50.00	40.01	3311.469	2649.98		-20.0	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1215003
Lab File ID:	014F1401.D	Calibration Date:	08/03/11 16:40
Sequence:	1H22704	Injection Date:	08/11/11
Lab Sample ID:	1H22704-CCV2	Injection Time:	20:10

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	982.4	2521.421	2477.132		-1.8	20
o-Terphenyl	A	50.00	41.12	3311.469	2723.2		-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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1215003
Lab File ID:	025F2501.D	Calibration Date:	08/03/11 16:40
Sequence:	1H22704	Injection Date:	08/12/11
Lab Sample ID:	1H22704-CCV3	Injection Time:	01:15

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	989.5	2521.421	2494.927		-1.1	20
o-Terphenyl	A	50.00	40.40	3311.469	2675.84		-19.2	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1215003
Lab File ID:	003F0301.D	Calibration Date:	08/03/11 16:40
Sequence:	1H22812	Injection Date:	08/15/11
Lab Sample ID:	1H22812-CCV1	Injection Time:	07:53

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	988.6	2521.421	2492.69		-1.1	20
o-Terphenyl	A	50.00	40.80	3311.469	2701.92		-18.4	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1215003
Lab File ID:	023F2301.D	Calibration Date:	08/03/11 16:40
Sequence:	1H22812	Injection Date:	08/15/11
Lab Sample ID:	1H22812-CCV3	Injection Time:	17:08

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1015	2521.421	2559.023		1.5	20
o-Terphenyl	A	50.00	42.36	3311.469	2805.66		-15.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1215003
Lab File ID:	035F3501.D	Calibration Date:	08/03/11 16:40
Sequence:	1H22812	Injection Date:	08/15/11
Lab Sample ID:	1H22812-CCV4	Injection Time:	22:39

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1002	2521.421	2527.009		0.2	20
o-Terphenyl	A	50.00	42.69	3311.469	2827.32		-14.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1243001
Lab File ID:	010F1101.D	Calibration Date:	08/29/11 22:44
Sequence:	1I24405	Injection Date:	08/30/11
Lab Sample ID:	1I24405-CCV1	Injection Time:	02:37

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	801.3	2283.651	1829.825		-19.9	20
o-Terphenyl	A	50.00	34.50	3467.799	2392.86		-31.0	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 DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1243001
Lab File ID:	023F2401.D	Calibration Date:	08/29/11 22:44
Sequence:	1I24405	Injection Date:	08/30/11
Lab Sample ID:	1I24405-CCV2	Injection Time:	17:21

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	891.6	2283.651	2036.078		-10.8	20
o-Terphenyl	A	50.00	33.15	3467.799	2299.38		-33.7	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1243001
Lab File ID:	027F2801.D	Calibration Date:	08/29/11 22:44
Sequence:	1I24405	Injection Date:	08/30/11
Lab Sample ID:	1I24405-CCV3	Injection Time:	20:01

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	861.9	2283.651	1968.298		-13.8	20
o-Terphenyl	A	50.00	34.93	3467.799	2422.42		-30.1	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

Laboratory:

Client:

Sequence:

SDG:

Project:

Instrument:

Calibration:

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22704	Instrument:	GL-GCFID2
		Calibration:	1215003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H22704-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 08/11/11 15:03		
o-Terphenyl	50.00	80.0	80 - 120	7.97	7.97	0.0000	+/-0.050	
Blank (1H09007-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 08/11/11 15:31		
o-Terphenyl	0.02000	47.0	30 - 140	7.973	7.97	0.0030	+/-0.050	
LCS (1H09007-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 08/11/11 15:59		
o-Terphenyl	0.02000	63.8	30 - 140	7.963	7.97	-0.0070	+/-0.050	
LCS Dup (1H09007-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 08/11/11 16:28		
o-Terphenyl	0.02000	61.5	30 - 140	7.96	7.97	-0.0100	+/-0.050	
Calibration Check (1H22704-CCV2) mg/L				Lab File ID: 014F1401.D		Analyzed: 08/11/11 20:10		
o-Terphenyl	50.00	82.2	80 - 120	7.95	7.97	-0.0200	+/-0.050	
GW0155-R (1108110-01) mg/L				Lab File ID: 016F1601.D		Analyzed: 08/11/11 21:05		
o-Terphenyl	0.02000	79.4	30 - 140	7.95	7.97	-0.0200	+/-0.050	
GW0156-R (1108110-03) mg/L				Lab File ID: 017F1701.D		Analyzed: 08/11/11 21:33		
o-Terphenyl	0.01887	61.7	30 - 140	7.96	7.97	-0.0100	+/-0.050	
GW0176 (1108110-05) mg/L				Lab File ID: 018F1801.D		Analyzed: 08/11/11 22:01		
o-Terphenyl	0.01887	72.4	30 - 140	7.953	7.97	-0.0170	+/-0.050	
GW8023-RB (1108110-07) mg/L				Lab File ID: 019F1901.D		Analyzed: 08/11/11 22:28		
o-Terphenyl	0.01923	53.8	30 - 140	7.953	7.97	-0.0170	+/-0.050	
Calibration Check (1H22704-CCV3) mg/L				Lab File ID: 025F2501.D		Analyzed: 08/12/11 01:15		
o-Terphenyl	50.00	80.8	80 - 120	7.94	7.97	-0.0300	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22812	Instrument:	GL-GCFID2
		Calibration:	1215003

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H22812-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 08/15/11 07:53		
o-Terphenyl	50.00	81.6	80 - 120	7.946	7.946	0.0000	+/-0.050	
Calibration Check (1H22812-CCV3) mg/L				Lab File ID: 023F2301.D		Analyzed: 08/15/11 17:08		
o-Terphenyl	50.00	84.7	80 - 120	7.95	7.946	0.0040	+/-0.050	
Blank (1H11011-BLK1) mg/L				Lab File ID: 028F2801.D		Analyzed: 08/15/11 19:26		
o-Terphenyl	0.02000	70.3	30 - 140	7.95	7.946	0.0040	+/-0.050	
LCS (1H11011-BS1) mg/L				Lab File ID: 029F2901.D		Analyzed: 08/15/11 19:54		
o-Terphenyl	0.02000	71.5	30 - 140	7.94	7.946	-0.0060	+/-0.050	
LCS Dup (1H11011-BSD1) mg/L				Lab File ID: 030F3001.D		Analyzed: 08/15/11 20:21		
o-Terphenyl	0.02000	71.7	30 - 140	7.943	7.946	-0.0030	+/-0.050	
GW0162 (1108126-01) mg/L				Lab File ID: 031F3101.D		Analyzed: 08/15/11 20:49		
o-Terphenyl	0.02000	67.8	30 - 140	7.95	7.946	0.0040	+/-0.050	
GW0244 (1108126-03) mg/L				Lab File ID: 032F3201.D		Analyzed: 08/15/11 21:17		
o-Terphenyl	0.02222	69.3	30 - 140	7.946	7.946	0.0000	+/-0.050	
Calibration Check (1H22812-CCV4) mg/L				Lab File ID: 035F3501.D		Analyzed: 08/15/11 22:39		
o-Terphenyl	50.00	85.4	80 - 120	7.936	7.946	-0.0100	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

Laboratory:

SDG:

Client:

Project:

Sequence:

Instrument:

Calibration:

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I24405	Instrument:	GL-GCFID2
		Calibration:	1243001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I24405-CCV1) mg/L				Lab File ID: 010F1101.D		Analyzed: 08/30/11 02:37		
o-Terphenyl	50.00	69.0	80 - 120	11.376	11.376	0.0000	+/-0.050	*
Blank (1H12029-BLK1) mg/L				Lab File ID: 011F1201.D		Analyzed: 08/30/11 03:11		
o-Terphenyl	0.02000	54.9	30 - 140	11.37	11.376	-0.0060	+/-0.050	
LCS (1H12029-BS1) mg/L				Lab File ID: 012F1301.D		Analyzed: 08/30/11 03:44		
o-Terphenyl	0.02000	34.2	30 - 140	11.366	11.376	-0.0100	+/-0.050	
LCS Dup (1H12029-BSD1) mg/L				Lab File ID: 013F1401.D		Analyzed: 08/30/11 04:17		
o-Terphenyl	0.02000	42.3	30 - 140	11.383	11.376	0.0070	+/-0.050	
GW0160 (1108138-01) mg/L				Lab File ID: 014F1501.D		Analyzed: 08/30/11 04:50		
o-Terphenyl	0.01887	33.7	30 - 140	11.393	11.376	0.0170	+/-0.050	
Matrix Spike (1H12029-MS1) mg/L				Lab File ID: 015F1601.D		Analyzed: 08/30/11 05:23		
o-Terphenyl	0.01961	43.6	30 - 140	11.396	11.376	0.0200	+/-0.050	
Matrix Spike Dup (1H12029-MSD1) mg/L				Lab File ID: 016F1701.D		Analyzed: 08/30/11 05:56		
o-Terphenyl	0.01923	43.2	30 - 140	11.386	11.376	0.0100	+/-0.050	
GW0191 (1108138-02) mg/L				Lab File ID: 017F1801.D		Analyzed: 08/30/11 06:29		
o-Terphenyl	0.01923	42.3	30 - 140	11.39	11.376	0.0140	+/-0.050	
GW0161 (1108152-01) mg/L				Lab File ID: 018F1901.D		Analyzed: 08/30/11 07:02		
o-Terphenyl	0.01887	59.8	30 - 140	11.406	11.376	0.0300	+/-0.050	
GW0177 (1108152-03) mg/L				Lab File ID: 019F2001.D		Analyzed: 08/30/11 07:36		
o-Terphenyl	0.01923	59.5	30 - 140	11.416	11.376	0.0400	+/-0.050	
GW0178 (1108152-05) mg/L				Lab File ID: 020F2101.D		Analyzed: 08/30/11 12:19		
o-Terphenyl	0.01887	60.3	30 - 140	11.573	11.376	0.1970	+/-0.050	*
GW0180 (1108152-07) mg/L				Lab File ID: 021F2201.D		Analyzed: 08/30/11 12:52		
o-Terphenyl	0.01923	54.0	30 - 140	11.46	11.376	0.0840	+/-0.050	*
GW0181 (1108152-09) mg/L				Lab File ID: 022F2301.D		Analyzed: 08/30/11 16:12		
o-Terphenyl	0.01923	57.8	30 - 140	11.576	11.376	0.2000	+/-0.050	*
Calibration Check (1I24405-CCV2) mg/L				Lab File ID: 023F2401.D		Analyzed: 08/30/11 17:21		
o-Terphenyl	50.00	66.3	80 - 120	11.536	11.376	0.1600	+/-0.050	*
GW0179 (1108166-01) mg/L				Lab File ID: 026F2701.D		Analyzed: 08/30/11 19:11		
o-Terphenyl	0.02000	64.9	30 - 140	11.413	11.376	0.0370	+/-0.050	
Calibration Check (1I24405-CCV3) mg/L				Lab File ID: 027F2801.D		Analyzed: 08/30/11 20:01		
o-Terphenyl	50.00	69.9	80 - 120	11.483	11.376	0.1070	+/-0.050	*

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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
GW0155-R	08/08/11 11:33	08/09/11 09:00	08/09/11 16:37	1.17	7.00	08/11/11 21:05	2.19	40.00	
GW0156-R	08/08/11 11:54	08/09/11 09:00	08/09/11 16:37	1.15	7.00	08/11/11 21:33	2.21	40.00	
GW0176	08/08/11 14:51	08/09/11 09:00	08/09/11 16:37	1.03	7.00	08/11/11 22:01	2.22	40.00	
GW8023-RB	08/08/11 08:41	08/09/11 09:00	08/09/11 16:37	1.29	7.00	08/11/11 22:28	2.24	40.00	
GW0162	08/09/11 12:47	08/10/11 09:00	08/11/11 17:09	2.14	7.00	08/15/11 20:49	4.15	40.00	
GW0244	08/08/11 15:46	08/10/11 09:00	08/11/11 17:09	3.02	7.00	08/15/11 21:17	4.17	40.00	
GW0160	08/10/11 10:46	08/11/11 09:00	08/16/11 15:00	6.13	7.00	08/30/11 04:50	13.58	40.00	
GW0191	08/10/11 12:32	08/11/11 09:00	08/16/11 15:00	6.06	7.00	08/30/11 06:29	13.65	40.00	
GW0161	08/10/11 14:55	08/12/11 09:00	08/16/11 15:00	5.96	7.00	08/30/11 07:02	13.67	40.00	
GW0177	08/11/11 14:20	08/12/11 09:00	08/16/11 15:00	4.99	7.00	08/30/11 07:36	13.69	40.00	
GW0178	08/11/11 11:36	08/12/11 09:00	08/16/11 15:00	5.10	7.00	08/30/11 12:19	13.89	40.00	
GW0180	08/11/11 11:46	08/12/11 09:00	08/16/11 15:00	5.09	7.00	08/30/11 12:52	13.91	40.00	
GW0181	08/11/11 11:46	08/12/11 09:00	08/16/11 15:00	5.09	7.00	08/30/11 16:12	14.05	40.00	
GW0179	08/12/11 11:17	08/13/11 09:15	08/16/11 15:00	4.11	7.00	08/30/11 19:11	14.17	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H09007-BLK1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	08/11/11 15:31
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1H09007	Sequence:	1H22704	Calibration:	1215003	Instrument:	GL-GCFID2

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	0.009404	47.0	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H09007-BS1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	08/11/11 15:59
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1H09007	Sequence:	1H22704	Calibration:	1215003	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5540	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01276	63.8	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H09007-BSD1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	08/11/11 16:28
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1H09007	Sequence:	1H22704	Calibration:	1215003	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5441	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01231	61.5	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H11011-BLK1	File ID:	028F2801.D
Sampled:		Prepared:		Analyzed:	08/15/11 19:26
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1H11011	Sequence:	1H22812	Calibration:	1215003	Instrument:	GL-GCFID2

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	0.01407	70.3	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H11011-BS1	File ID:	029F2901.D
Sampled:		Prepared:		Analyzed:	08/15/11 19:54
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1H11011	Sequence:	1H22812	Calibration:	1215003	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6256	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01431	71.5	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H11011-BSD1	File ID:	030F3001.D
Sampled:		Prepared:		Analyzed:	08/15/11 20:21
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1H11011	Sequence:	1H22812	Calibration:	1215003	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6333	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01433	71.7	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H12029-BLK1	File ID:	011F1201.D
Sampled:		Prepared:		Analyzed:	08/30/11 03:11
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1H12029	Sequence:	1I24405	Calibration:	1243001	Instrument:	GL-GCFID2

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	0.01098	54.9	30 - 140	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H12029-BS1	File ID:	012F1301.D
Sampled:		Prepared:		Analyzed:	08/30/11 03:44
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1H12029	Sequence:	1I24405	Calibration:	1243001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.2449	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.006833	34.2	30 - 140	Y

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H12029-BSD1	File ID:	013F1401.D
Sampled:		Prepared:		Analyzed:	08/30/11 04:17
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1H12029	Sequence:	1I24405	Calibration:	1243001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.3617	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.008461	42.3	30 - 140	Y

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H12029-MS1	File ID:	015F1601.D
Sampled:		Prepared:		Analyzed:	08/30/11 05:23
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1H12029	Sequence:	1I24405	Calibration:	1243001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.4203	0.0980	0.0980	0.0980	Q

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.008557	43.6	30 - 140	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	kirtland_023	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1H12029-MSD1	File ID:	016F1701.D
Sampled:		Prepared:		Analyzed:	08/30/11 05:56
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1H12029 Sequence: 1I24405 Calibration: 1243001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.4005	0.0962	0.0962	0.0962	Q

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.008304	43.2	30 - 140	Y

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCFID2

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

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H21706	Instrument:	GL-ECD2
Calibration:	1217001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H21706-CAL1	002R0101.D	07/24/11 05:47
Cal Standard	1H21706-CAL1	002F0101.D	07/24/11 05:47
Cal Standard	1H21706-CAL2	003R0101.D	07/24/11 06:08
Cal Standard	1H21706-CAL2	003F0101.D	07/24/11 06:08
Cal Standard	1H21706-CAL3	004R0101.D	07/24/11 06:29
Cal Standard	1H21706-CAL3	004F0101.D	07/24/11 06:29
Cal Standard	1H21706-CAL4	005R0101.D	07/24/11 06:50
Cal Standard	1H21706-CAL4	005F0101.D	07/24/11 06:50
Cal Standard	1H21706-CAL5	006R0101.D	07/24/11 07:11
Cal Standard	1H21706-CAL5	006F0101.D	07/24/11 07:11
Cal Standard	1H21706-CAL6	007R0101.D	07/24/11 07:33
Cal Standard	1H21706-CAL6	007F0101.D	07/24/11 07:33
Initial Cal Check	1H21706-ICV1	008R0101.D	07/24/11 07:54
Initial Cal Check	1H21706-ICV1	008F0101.D	07/24/11 07:54

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22910	Instrument:	GL-ECD2
Calibration:	1217001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H22910-CCV1	002F0101.D	08/12/11 14:48
Calibration Check	1H22910-CCV1	002R0101.D	08/12/11 14:48
Blank	1H12014-BLK1	003R0101.D	08/12/11 15:09
LCS	1H12014-BS1	004F0101.D	08/12/11 15:31
LCS	1H12014-BS1	004R0101.D	08/12/11 15:31
Calibration Check	1H22910-CCV2	013R0101.D	08/12/11 18:45
Calibration Check	1H22910-CCV2	013F0101.D	08/12/11 18:45
GW0156-R	1108110-03	018R0101.D	08/12/11 20:30
GW0176	1108110-05	019R0101.D	08/12/11 20:51
GW8023-RB	1108110-07	020R0101.D	08/12/11 21:12
GW0162	1108126-01	021R0101.D	08/12/11 21:34
GW0162	1108126-01	021F0101.D	08/12/11 21:34
GW0244	1108126-03	022F0101.D	08/12/11 21:55
GW0244	1108126-03	022R0101.D	08/12/11 21:55
GW0160	1108138-01	023R0101.D	08/12/11 22:16
Calibration Check	1H22910-CCV3	024F0101.D	08/12/11 22:37
Calibration Check	1H22910-CCV3	024R0101.D	08/12/11 22:37
GW0160	1H12014-MS2	025R0101.D	08/12/11 22:59
GW0160	1H12014-MS2	025F0101.D	08/12/11 22:59
GW0160	1H12014-MSD2	026F0101.D	08/12/11 23:20
GW0160	1H12014-MSD2	026R0101.D	08/12/11 23:20
Calibration Check	1H22910-CCV4	031R0101.D	08/13/11 01:07
Calibration Check	1H22910-CCV4	031F0101.D	08/13/11 01:07

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23603	Instrument:	GL-ECD2
Calibration:	1217001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H23603-CCV1	002R0101.D	08/17/11 16:56
Calibration Check	1H23603-CCV1	002F0101.D	08/17/11 16:56
Blank	1H17005-BLK1	003R0101.D	08/17/11 17:17
LCS	1H17005-BS1	004R0101.D	08/17/11 17:38
LCS	1H17005-BS1	004F0101.D	08/17/11 17:38
GW0161	1108152-01	008R0101.D	08/17/11 19:04
GW0177	1108152-03	009R0101.D	08/17/11 19:25
GW0178	1108152-05	010R0101.D	08/17/11 19:46
GW0180	1108152-07	011R0101.D	08/17/11 20:07
GW0181	1108152-09	012R0101.D	08/17/11 20:28
Calibration Check	1H23603-CCV2	013R0101.D	08/17/11 20:50
Calibration Check	1H23603-CCV2	013F0101.D	08/17/11 20:50
GW0179	1108166-01	015R0101.D	08/17/11 21:32
Calibration Check	1H23603-CCV3	024R0101.D	08/18/11 00:46
Calibration Check	1H23603-CCV3	024F0101.D	08/18/11 00:46

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23604	Instrument:	GL-ECD2
Calibration:	1217001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H23604-CCV1	011R0101.D	08/19/11 19:50
Calibration Check	1H23604-CCV1	011F0101.D	08/19/11 19:50
Blank	1H19011-BLK1	012R0101.D	08/19/11 20:11
LCS	1H19011-BS1	013R0101.D	08/19/11 20:32
LCS	1H19011-BS1	013F0101.D	08/19/11 20:32
GW0191	1108138-02	018F0101.D	08/19/11 22:19
Calibration Check	1H23604-CCV2	022R0101.D	08/19/11 23:45
Calibration Check	1H23604-CCV2	022F0101.D	08/19/11 23:45

ANALYSIS DATA SHEET

GW0155-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-01	File ID:	017F0101.D
Sampled:	08/08/11 11:33	Prepared:	08/12/11 10:06	Analyzed:	08/12/11 20:09
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H12014 Sequence: 1H22910 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.258	0.00947	0.0189	0.0284	X, Q

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0156-R

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-03	File ID:	018R0101.D
Sampled:	08/08/11 11:54	Prepared:	08/12/11 10:06	Analyzed:	08/12/11 20:30
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H12014 Sequence: 1H22910 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00952	0.0190	0.0286	UX, Q

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0176

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-05	File ID:	019R0101.D
Sampled:	08/08/11 14:51	Prepared:	08/12/11 10:06	Analyzed:	08/12/11 20:51
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H12014 Sequence: 1H22910 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00939	0.0188	0.0282	UX, Q

* Values outside of QC limits

ANALYSIS DATA SHEET

GW8023-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-07	File ID:	020R0101.D
Sampled:	08/08/11 08:41	Prepared:	08/12/11 10:06	Analyzed:	08/12/11 21:12
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H12014 Sequence: 1H22910 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00952	0.0190	0.0286	UXQ,

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0162

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-01	File ID:	021F0101.D
Sampled:	08/09/11 12:47	Prepared:	08/12/11 10:06	Analyzed:	08/12/11 21:34
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H12014 Sequence: 1H22910 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.0319	0.00967	0.0193	0.0290	X, Q

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0244

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-03	File ID:	022F0101.D
Sampled:	08/08/11 15:46	Prepared:	08/12/11 10:06	Analyzed:	08/12/11 21:55
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H12014 Sequence: 1H22910 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00944	0.0189	0.0283	UX, Q

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0160

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-01	File ID:	023R0101.D
Sampled:	08/10/11 10:46	Prepared:	08/12/11 10:06	Analyzed:	08/12/11 22:16
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H12014 Sequence: 1H22910 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00941	0.0188	0.0282	UX, Q

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0191

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-02	File ID:	018F0101.D
Sampled:	08/10/11 12:32	Prepared:	08/19/11 10:35	Analyzed:	08/19/11 22:19
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H19011 Sequence: 1H23604 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00952	0.0190	0.0286	UX

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0161

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-01	File ID:	008R0101.D
Sampled:	08/10/11 14:55	Prepared:	08/17/11 09:14	Analyzed:	08/17/11 19:04
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H17005 Sequence: 1H23603 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00947	0.0189	0.0284	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0177

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-03	File ID:	009R0101.D
Sampled:	08/11/11 14:20	Prepared:	08/17/11 09:14	Analyzed:	08/17/11 19:25
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H17005 Sequence: 1H23603 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00943	0.0189	0.0283	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0178

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-05	File ID:	010R0101.D
Sampled:	08/11/11 11:36	Prepared:	08/17/11 09:14	Analyzed:	08/17/11 19:46
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H17005 Sequence: 1H23603 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00935	0.0187	0.0280	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0180

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-07	File ID:	011R0101.D
Sampled:	08/11/11 11:46	Prepared:	08/17/11 09:14	Analyzed:	08/17/11 20:07
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H17005 Sequence: 1H23603 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00939	0.0188	0.0282	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0181

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-09	File ID:	012R0101.D
Sampled:	08/11/11 11:46	Prepared:	08/17/11 09:14	Analyzed:	08/17/11 20:28
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H17005 Sequence: 1H23603 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00942	0.0188	0.0283	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0179

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108166-01	File ID:	015R0101.D
Sampled:	08/12/11 11:17	Prepared:	08/17/11 09:14	Analyzed:	08/17/11 21:32
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1H17005 Sequence: 1H23603 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00959	0.0192	0.0288	UX

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12014	Laboratory ID:	1H12014-BS1
Preparation:	EDB	Initial/Final:	33.19 mL / 35 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,2-Dibromoethane	**0.5273**	**0.7136**	**135**	**70 - 130**
1,2-Dibromoethane [2C]	0.5273	0.5418	103	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H17005	Laboratory ID:	1H17005-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	0.5930	119	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4244	84.9	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H19011	Laboratory ID:	1H19011-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	0.5184	104	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4279	85.6	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H12014

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.5329	ND	0.7234	136	*	70 - 130
1,2-Dibromoethane [2C]	0.5329	0.01377	0.5324	97.3		70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.5378	0.6168	115	15.9		20	70 - 130
1,2-Dibromoethane [2C]	0.5378	0.4940	89.3	7.48		20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H12014 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0156-R	1108110-03	08/12/11 10:06	36.75	35.00
GW0176	1108110-05	08/12/11 10:06	37.26	35.00
GW8023-RB	1108110-07	08/12/11 10:06	36.76	35.00
GW0162	1108126-01	08/12/11 10:06	36.20	35.00
GW0244	1108126-03	08/12/11 10:06	37.06	35.00
GW0160	1108138-01	08/12/11 10:06	37.19	35.00
Blank	1H12014-BLK1	08/12/11 10:06	32.44	35.00
LCS	1H12014-BS1	08/12/11 10:06	33.19	35.00
GW0160	1H12014-MS2	08/12/11 10:06	32.84	35.00
GW0160	1H12014-MSD2	08/12/11 10:06	32.54	35.00

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H17005 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0161	1108152-01	08/17/11 09:14	36.94	35.00
GW0177	1108152-03	08/17/11 09:14	37.13	35.00
GW0178	1108152-05	08/17/11 09:14	37.44	35.00
GW0180	1108152-07	08/17/11 09:14	37.27	35.00
GW0181	1108152-09	08/17/11 09:14	37.14	35.00
GW0179	1108166-01	08/17/11 09:14	36.49	35.00
Blank	1H17005-BLK1	08/17/11 09:14	35.00	35.00
LCS	1H17005-BS1	08/17/11 09:14	35.00	35.00

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H19011 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0191	1108138-02	08/19/11 10:35	36.76	35.00
Blank	1H19011-BLK1	08/19/11 10:30	35.00	35.00
LCS	1H19011-BS1	08/19/11 10:30	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1H12014-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	08/12/11 10:06	Analyzed:	08/12/11 15:09
Solids:		Preparation:	EDB	Dilution:	

Batch: 1H12014 Sequence: 1H22910 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0108	0.0216	0.0324	UX

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1H17005-BLK1	File ID:	003R0101.D
Sampled:		Prepared:	08/17/11 09:14	Analyzed:	08/17/11 17:17
Solids:		Preparation:	EDB	Dilution:	

Batch: 1H17005 Sequence: 1H23603 Calibration: 1217001 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_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1H19011-BLK1	File ID:	012R0101.D
Sampled:		Prepared:	08/19/11 10:30	Analyzed:	08/19/11 20:11
Solids:		Preparation:	EDB	Dilution:	

Batch: 1H19011 Sequence: 1H23604 Calibration: 1217001 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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H21706	Instrument:	GL-ECD2
Calibration:	1217001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11G0585	EDB ICAL 1 (0.03ppb)	1H21706-CAL1	002R0101.D	07/24/11 05:47
11G0585	EDB ICAL 1 (0.03ppb)	1H21706-CAL1	002F0101.D	07/24/11 05:47
11G0586	EDB ICAL 2 (0.05ppb)	1H21706-CAL2	003R0101.D	07/24/11 06:08
11G0586	EDB ICAL 2 (0.05ppb)	1H21706-CAL2	003F0101.D	07/24/11 06:08
11G0587	EDB ICAL 3 (0.10ppb)	1H21706-CAL3	004R0101.D	07/24/11 06:29
11G0587	EDB ICAL 3 (0.10ppb)	1H21706-CAL3	004F0101.D	07/24/11 06:29
11G0588	EDB ICAL 4 (0.20ppb)	1H21706-CAL4	005R0101.D	07/24/11 06:50
11G0588	EDB ICAL 4 (0.20ppb)	1H21706-CAL4	005F0101.D	07/24/11 06:50
11G0589	EDB ICAL 5 (0.50ppb)/CCV	1H21706-CAL5	006R0101.D	07/24/11 07:11
11G0589	EDB ICAL 5 (0.50ppb)/CCV	1H21706-CAL5	006F0101.D	07/24/11 07:11
11G0590	EDB ICAL 6 (1.00ppb)	1H21706-CAL6	007R0101.D	07/24/11 07:33
11G0590	EDB ICAL 6 (1.00ppb)	1H21706-CAL6	007F0101.D	07/24/11 07:33

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1217001	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	7/24/11 5:47	7/24/11 7:33

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	105200	0.05	73940	0.1	44320	0.2	29740	0.5	19872	1	16148
1,2-Dibromoethane [2C]	0.03	47700	0.05	45320	0.1	42100	0.2	40220	0.5	37742	1	34697
1,2-Dibromo-3-chloropropane	0.03	31633.33	0.05	31160	0.1	30840	0.2	30265	0.5	26672	1	23374
1,2-Dibromo-3-chloropropane [2C]	0.03	66300	0.05	86800	0.1	71910	0.2	75020	0.5	75158	1	73227

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1217001	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	7/24/11 5:47	7/24/11 7:33

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	48203.33	72.44401	1.7675	0.1671121	0.9980929		0.995	
1,2-Dibromoethane [2C]	41296.5	11.62254	0.6815	0.2415891			20	
1,2-Dibromo-3-chloropropane	28990.72	11.29974	7.396	1.722382E-02			20	
1,2-Dibromo-3-chloropropane [2C]	74735.83	9.020224	4.6435	1.905185E-02			20	

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	008F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1H21706	Injection Date:	07/24/11
Lab Sample ID:	1H21706-ICV1	Injection Time:	07:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5673	48203.33	21176		13.5	20
1,2-Dibromoethane [2C]	A	0.5000	0.4368	41296.5	36074		-12.6	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	002F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1H22910	Injection Date:	08/12/11
Lab Sample ID:	1H22910-CCV1	Injection Time:	14:48

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.6920	48203.33	24482		38.4	20 *
1,2-Dibromoethane [2C]	A	0.5000	0.5001	41296.5	41308		0.03	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	013F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1H22910	Injection Date:	08/12/11
Lab Sample ID:	1H22910-CCV2	Injection Time:	18:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.6282	48203.33	22792		25.6	20 *
1,2-Dibromoethane [2C]	A	0.5000	0.4917	41296.5	40610		-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

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	024F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1H22910	Injection Date:	08/12/11
Lab Sample ID:	1H22910-CCV3	Injection Time:	22:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.6350	48203.33	22970		27.0	20 *
1,2-Dibromoethane [2C]	A	0.5000	0.5098	41296.5	42102		2.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	031F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1H22910	Injection Date:	08/13/11
Lab Sample ID:	1H22910-CCV4	Injection Time:	01:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.6034	48203.33	22132		20.7	20 *
1,2-Dibromoethane [2C]	A	0.5000	0.4849	41296.5	40050		-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

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	002F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1H23603	Injection Date:	08/17/11
Lab Sample ID:	1H23603-CCV1	Injection Time:	16:56

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5351	48203.33	20322		7.0	20
1,2-Dibromoethane [2C]	A	0.5000	0.3621	41296.5	29910		-27.6	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_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	013F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1H23603	Injection Date:	08/17/11
Lab Sample ID:	1H23603-CCV2	Injection Time:	20:50

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5139	48203.33	19760		2.8	20
1,2-Dibromoethane [2C]	A	0.5000	0.3900	41296.5	32210		-22.0	20 *

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	024F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1H23603	Injection Date:	08/18/11
Lab Sample ID:	1H23603-CCV3	Injection Time:	00:46

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.7102	48203.33	24966		42.0	20 *
1,2-Dibromoethane [2C]	A	0.5000	0.5648	41296.5	46648		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

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	011F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1H23604	Injection Date:	08/19/11
Lab Sample ID:	1H23604-CCV1	Injection Time:	19:50

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4726	48203.33	18664		-5.5	20
1,2-Dibromoethane [2C]	A	0.5000	0.4217	41296.5	34828		-15.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	022F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1H23604	Injection Date:	08/19/11
Lab Sample ID:	1H23604-CCV2	Injection Time:	23:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.7317	48203.33	25536		46.3	20 *
1,2-Dibromoethane [2C]	A	0.5000	0.5404	41296.5	44630		8.1	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_023

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
GW0156-R	08/08/11 11:54	08/09/11 09:00	08/12/11 10:06	N/A	14.00	08/12/11 20:30	4.32	14.00	
GW0176	08/08/11 14:51	08/09/11 09:00	08/12/11 10:06	N/A	14.00	08/12/11 20:51	4.21	14.00	
GW8023-RB	08/08/11 08:41	08/09/11 09:00	08/12/11 10:06	N/A	14.00	08/12/11 21:12	4.48	14.00	
GW0162	08/09/11 12:47	08/10/11 09:00	08/12/11 10:06	N/A	14.00	08/12/11 21:34	3.32	14.00	
GW0244	08/08/11 15:46	08/10/11 09:00	08/12/11 10:06	N/A	14.00	08/12/11 21:55	4.21	14.00	
GW0160	08/10/11 10:46	08/11/11 09:00	08/12/11 10:06	N/A	14.00	08/12/11 22:16	2.44	14.00	
GW0191	08/10/11 12:32	08/11/11 09:00	08/19/11 10:35	N/A	14.00	08/19/11 22:19	9.37	14.00	
GW0161	08/10/11 14:55	08/12/11 09:00	08/17/11 09:14	N/A	14.00	08/17/11 19:04	7.13	14.00	
GW0177	08/11/11 14:20	08/12/11 09:00	08/17/11 09:14	N/A	14.00	08/17/11 19:25	6.17	14.00	
GW0178	08/11/11 11:36	08/12/11 09:00	08/17/11 09:14	N/A	14.00	08/17/11 19:46	6.30	14.00	
GW0180	08/11/11 11:46	08/12/11 09:00	08/17/11 09:14	N/A	14.00	08/17/11 20:07	6.31	14.00	
GW0181	08/11/11 11:46	08/12/11 09:00	08/17/11 09:14	N/A	14.00	08/17/11 20:28	6.32	14.00	
GW0179	08/12/11 11:17	08/13/11 09:15	08/17/11 09:14	N/A	14.00	08/17/11 21:32	5.39	14.00	
GW0155-R	08/08/11 11:33	08/09/11 09:00	08/12/11 10:06	N/A	14.00	08/12/11 20:09	4.32	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1H12014-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	08/12/11 15:31
Solids:		Preparation:	EDB	Dilution:	

Batch: 1H12014 Sequence: 1H22910 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.7136	0.0105	0.0211	0.0316	X

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1H12014-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	08/12/11 15:31
Solids:		Preparation:	EDB	Dilution:	

Batch: 1H12014 Sequence: 1H22910 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5418	0.0105	0.0211	0.0316	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1H12014-MS2	File ID:	025F0101.D
Sampled:		Prepared:		Analyzed:	08/12/11 22:59
Solids:		Preparation:	EDB	Dilution:	

Batch: 1H12014 Sequence: 1H22910 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.7234	0.0107	0.0213	0.0320	Q, X

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1H12014-MS2	File ID:	025R0101.D
Sampled:		Prepared:		Analyzed:	08/12/11 22:59
Solids:		Preparation:	EDB	Dilution:	

Batch: 1H12014 Sequence: 1H22910 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5324	0.0107	0.0213	0.0320	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H12014-MSD2	File ID:	026F0101.D
Sampled:		Prepared:		Analyzed:	08/12/11 23:20
Solids:		Preparation:	EDB	Dilution:	

Batch:	1H12014	Sequence:	1H22910	Calibration:	1217001	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.6168	0.0108	0.0215	0.0323	Q, X

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H12014-MSD2	File ID:	026R0101.D
Sampled:		Prepared:		Analyzed:	08/12/11 23:20
Solids:		Preparation:	EDB	Dilution:	

Batch:	1H12014	Sequence:	1H22910	Calibration:	1217001	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4940	0.0108	0.0215	0.0323	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H17005-BS1	File ID:	004F0101.D
Sampled:		Prepared:		Analyzed:	08/17/11 17:38
Solids:		Preparation:	EDB	Dilution:	

Batch:	1H17005	Sequence:	1H23603	Calibration:	1217001	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5930	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1H17005-BS1	File ID:	004R0101.D
Sampled:		Prepared:		Analyzed:	08/17/11 17:38
Solids:		Preparation:	EDB	Dilution:	

Batch: 1H17005 Sequence: 1H23603 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4244	0.0100	0.0200	0.0300	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H19011-BS1	File ID:	013F0101.D
Sampled:		Prepared:		Analyzed:	08/19/11 20:32
Solids:		Preparation:	EDB	Dilution:	

Batch:	1H19011	Sequence:	1H23604	Calibration:	1217001	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5184	0.0100	0.0200	0.0300	X

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_023
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1H19011-BS1	File ID:	013R0101.D
Sampled:		Prepared:		Analyzed:	08/19/11 20:32
Solids:		Preparation:	EDB	Dilution:	

Batch: 1H19011 Sequence: 1H23604 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4279	0.0100	0.0200	0.0300	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0155-R

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108110-01

Date(s) Analyzed: 08/12/2011 08/12/2011

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	1.76	1.74	1.80	0.258	
	2	0.69	0.65	0.71	0.241	7

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0162

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108126-01 Date(s) Analyzed: 08/12/2011 08/12/2011

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	1.74	1.74	1.80	0.0319	
	2	0.67	0.65	0.71	0.0274	15

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1H12014-BS1 Date(s) Analyzed: 08/12/2011 08/12/2011

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	1.76	1.74	1.80	0.7136	
	2	0.69	0.65	0.71	0.5418	27

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1H12014-MS2

Date(s) Analyzed: 08/12/2011 08/12/2011

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	1.76	1.74	1.80	0.7234	
	2	0.69	0.65	0.71	0.5324	30

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1H12014-MSD2

Date(s) Analyzed: 08/12/2011 08/12/2011

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	1.76	1.74	1.80	0.6168	
	2	0.69	0.65	0.71	0.4940	22

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1H17005-BS1

Date(s) Analyzed: 08/17/2011 08/17/2011

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	1.76	1.74	1.80	0.5930	
	2	0.68	0.65	0.71	0.4244	33

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1H19011-BS1 Date(s) Analyzed: 08/19/2011 08/19/2011

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	1.75	1.74	1.80	0.5184	
	2	0.70	0.65	0.71	0.4279	19

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_023

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

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0155-R

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-01
Sampled:	08/08/11 11:33	Received:	08/09/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	49800	1000	2000	5000	1		SW6010B	1H16005	08/17/11 17:15
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H16005	08/17/11 17:15
7439-95-4	Magnesium	6720	1000	3000	5000	1		SW6010B	1H16005	08/17/11 17:15
7440-09-7	Potassium	2830	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 17:15
7440-23-5	Sodium	31100	1000	3000	5000	1		SW6010B	1H16005	08/17/11 17:15

ANALYSIS DATA SHEET

GW0155-R

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-02
Sampled:	08/08/11 11:33	Received:	08/09/11 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	1H22916	08/22/11 17:59
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1H22916	08/22/11 17:59

ANALYSIS DATA SHEET

GW0156-R

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-03
Sampled:	08/08/11 11:54	Received:	08/09/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	74600	1000	2000	5000	1		SW6010B	1H16005	08/17/11 17:19
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H16005	08/17/11 17:19
7439-95-4	Magnesium	9550	1000	3000	5000	1		SW6010B	1H16005	08/17/11 17:19
7440-09-7	Potassium	3480	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 17:19
7440-23-5	Sodium	32000	1000	3000	5000	1		SW6010B	1H16005	08/17/11 17:19

ANALYSIS DATA SHEET

GW0156-R

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-04
Sampled:	08/08/11 11:54	Received:	08/09/11 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	1H22916	08/22/11 18:03
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1H22916	08/22/11 18:03

ANALYSIS DATA SHEET

GW0176

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-05
Sampled:	08/08/11 14:51	Received:	08/09/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	64400	1000	2000	5000	1		SW6010B	1H16005	08/17/11 17:24
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H16005	08/17/11 17:24
7439-95-4	Magnesium	8440	1000	3000	5000	1		SW6010B	1H16005	08/17/11 17:24
7440-09-7	Potassium	2860	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 17:24
7440-23-5	Sodium	31100	1000	3000	5000	1		SW6010B	1H16005	08/17/11 17:24

ANALYSIS DATA SHEET

GW0176

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-06
Sampled:	08/08/11 14:51	Received:	08/09/11 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	1H22916	08/22/11 18:08
7439-96-5	Manganese (dissolved)	22.0	3.00	6.00	15.0	1		SW6010B	1H22916	08/22/11 18:08

ANALYSIS DATA SHEET

GW8023-RB

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-07
Sampled:	08/08/11 08:41	Received:	08/09/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium		1000	2000	5000	1	U	SW6010B	1H16005	08/17/11 17:29
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H16005	08/17/11 17:29
7439-95-4	Magnesium		1000	3000	5000	1	U	SW6010B	1H16005	08/17/11 17:29
7440-09-7	Potassium		1000	3000	5000	1	U	SW6010B	1H16005	08/17/11 17:29
7440-23-5	Sodium		1000	3000	5000	1	U	SW6010B	1H16005	08/17/11 17:29

ANALYSIS DATA SHEET

GW8023-RB

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-08
Sampled:	08/08/11 08:41	Received:	08/09/11 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	1H22916	08/22/11 18:13
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1H22916	08/22/11 18:13

ANALYSIS DATA SHEET

GW0162

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-01
Sampled:	08/09/11 12:47	Received:	08/10/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	93000	1000	2000	5000	1		SW6010B	1H16005	08/17/11 17:33
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H16005	08/17/11 17:33
7439-95-4	Magnesium	12700	1000	3000	5000	1		SW6010B	1H16005	08/17/11 17:33
7440-09-7	Potassium	3690	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 17:33
7440-23-5	Sodium	32200	1000	3000	5000	1		SW6010B	1H16005	08/17/11 17:33

ANALYSIS DATA SHEET

GW0162

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-02
Sampled:	08/09/11 12:47	Received:	08/10/11 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	1H22916	08/22/11 18:17
7439-96-5	Manganese (dissolved)	52.2	3.00	6.00	15.0	1		SW6010B	1H22916	08/22/11 18:17

ANALYSIS DATA SHEET

GW0244

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-03
Sampled:	08/08/11 15:46	Received:	08/10/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	34500	1000	2000	5000	1		SW6010B	1H16005	08/17/11 17:38
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H16005	08/17/11 17:38
7439-95-4	Magnesium	4270	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 17:38
7440-09-7	Potassium	2100	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 17:38
7440-23-5	Sodium	25200	1000	3000	5000	1		SW6010B	1H16005	08/17/11 17:38

ANALYSIS DATA SHEET

GW0244

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-04
Sampled:	08/08/11 15:46	Received:	08/10/11 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	1H22916	08/22/11 18:22
7439-96-5	Manganese (dissolved)	4.30	3.00	6.00	15.0	1	J	SW6010B	1H22916	08/22/11 18:22

ANALYSIS DATA SHEET

GW0160

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-01
Sampled:	08/10/11 10:46	Received:	08/11/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	50900	1000	2000	5000	1		SW6010B	1H16005	08/17/11 17:42
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H16005	08/17/11 17:42
7439-95-4	Magnesium	6980	1000	3000	5000	1		SW6010B	1H16005	08/17/11 17:42
7440-09-7	Potassium	2720	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 17:42
7440-23-5	Sodium	23900	1000	3000	5000	1		SW6010B	1H16005	08/17/11 17:42

ANALYSIS DATA SHEET

GW0191

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-02
Sampled:	08/10/11 12:32	Received:	08/11/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	33000	1000	2000	5000	1		SW6010B	1H16005	08/17/11 18:05
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H16005	08/17/11 18:05
7439-95-4	Magnesium	4260	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 18:05
7440-09-7	Potassium	2040	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 18:05
7440-23-5	Sodium	21100	1000	3000	5000	1		SW6010B	1H16005	08/17/11 18:05

ANALYSIS DATA SHEET

GW0160

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108140-01
Sampled:	08/10/11 10:46	Received:	08/11/11 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	1H22916	08/22/11 18:26
7439-96-5	Manganese (dissolved)	40.3	3.00	6.00	15.0	1		SW6010B	1H22916	08/22/11 18:26

ANALYSIS DATA SHEET

GW0191

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108140-02
Sampled:	08/10/11 12:32	Received:	08/11/11 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	1H22916	08/22/11 18:45
7439-96-5	Manganese (dissolved)	3.06	3.00	6.00	15.0	1	J	SW6010B	1H22916	08/22/11 18:45

ANALYSIS DATA SHEET

GW0161

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-01
Sampled:	08/10/11 14:55	Received:	08/12/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	80600	1000	2000	5000	1		SW6010B	1H16005	08/22/11 22:11
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H16005	08/22/11 22:11
7439-95-4	Magnesium	11800	1000	3000	5000	1		SW6010B	1H16005	08/22/11 22:11
7440-09-7	Potassium	3190	1000	3000	5000	1	J	SW6010B	1H16005	08/22/11 22:11
7440-23-5	Sodium	29300	1000	3000	5000	1		SW6010B	1H16005	08/22/11 22:11

ANALYSIS DATA SHEET

GW0161

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-02
Sampled:	08/10/11 14:55	Received:	08/12/11 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	1H22916	08/22/11 19:02
7439-96-5	Manganese (dissolved)	36.2	3.00	6.00	15.0	1		SW6010B	1H22916	08/22/11 19:02

ANALYSIS DATA SHEET

GW0177

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-03
Sampled:	08/11/11 14:20	Received:	08/12/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	47600	1000	2000	5000	1		SW6010B	1H16005	08/17/11 18:32
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H16005	08/17/11 18:32
7439-95-4	Magnesium	6170	1000	3000	5000	1		SW6010B	1H16005	08/17/11 18:32
7440-09-7	Potassium	2600	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 18:32
7440-23-5	Sodium	26200	1000	3000	5000	1		SW6010B	1H16005	08/17/11 18:32

ANALYSIS DATA SHEET

GW0177

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-04
Sampled:	08/11/11 14:20	Received:	08/12/11 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	1H22916	08/22/11 19:07
7439-96-5	Manganese (dissolved)	387	3.00	6.00	15.0	1		SW6010B	1H22916	08/22/11 19:07

ANALYSIS DATA SHEET

GW0178

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-05
Sampled:	08/11/11 11:36	Received:	08/12/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	36500	1000	2000	5000	1		SW6010B	1H16005	08/17/11 18:36
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H16005	08/17/11 18:36
7439-95-4	Magnesium	4650	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 18:36
7440-09-7	Potassium	2140	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 18:36
7440-23-5	Sodium	23100	1000	3000	5000	1		SW6010B	1H16005	08/17/11 18:36

ANALYSIS DATA SHEET

GW0178

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-06
Sampled:	08/11/11 11:36	Received:	08/12/11 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	1H22916	08/22/11 19:11
7439-96-5	Manganese (dissolved)	4.15	3.00	6.00	15.0	1	J	SW6010B	1H22916	08/22/11 19:11

ANALYSIS DATA SHEET

GW0180

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-07
Sampled:	08/11/11 11:46	Received:	08/12/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	62900	1000	2000	5000	1		SW6010B	1H16005	08/17/11 18:41
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H16005	08/17/11 18:41
7439-95-4	Magnesium	8190	1000	3000	5000	1		SW6010B	1H16005	08/17/11 18:41
7440-09-7	Potassium	3110	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 18:41
7440-23-5	Sodium	27500	1000	3000	5000	1		SW6010B	1H16005	08/17/11 18:41

ANALYSIS DATA SHEET

GW0180

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-08
Sampled:	08/11/11 11:46	Received:	08/12/11 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	1H22916	08/22/11 19:16
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1H22916	08/22/11 19:16

ANALYSIS DATA SHEET

GW0181

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-09
Sampled:	08/11/11 11:46	Received:	08/12/11 09:00
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	65700	1000	2000	5000	1		SW6010B	1H16005	08/17/11 18:45
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H16005	08/17/11 18:45
7439-95-4	Magnesium	8620	1000	3000	5000	1		SW6010B	1H16005	08/17/11 18:45
7440-09-7	Potassium	3200	1000	3000	5000	1	J	SW6010B	1H16005	08/17/11 18:45
7440-23-5	Sodium	28600	1000	3000	5000	1		SW6010B	1H16005	08/17/11 18:45

ANALYSIS DATA SHEET

GW0181

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-10
Sampled:	08/11/11 11:46	Received:	08/12/11 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	1H22916	08/22/11 19:20
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1H22916	08/22/11 19:20

ANALYSIS DATA SHEET

GW0179

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108166-01
Sampled:	08/12/11 11:17	Received:	08/13/11 09:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	174000	1000	2000	5000	1		SW6010B	1H22914	08/23/11 20:55
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H22914	08/23/11 20:55
7439-95-4	Magnesium	23600	1000	3000	5000	1		SW6010B	1H22914	08/23/11 20:55
7440-09-7	Potassium	4280	1000	3000	5000	1	J	SW6010B	1H22914	08/23/11 20:55
7440-23-5	Sodium	36400	1000	3000	5000	1		SW6010B	1H22914	08/23/11 20:55

ANALYSIS DATA SHEET

GW0179

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108166-02
Sampled:	08/12/11 11:17	Received:	08/13/11 09:15
% 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	1H22916	08/22/11 19:25
7439-96-5	Manganese (dissolved)	37.6	3.00	6.00	15.0	1		SW6010B	1H22916	08/22/11 19:25

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

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

SDG: kirtland_023
Project: Kirtland AFB 2011
Calibration: 1241002
Sequence: 1H23004

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23004-ICV1	Calcium	50000	50950	102	ug/L	+/- 10.00%
	Lead	1000	992.3	99.2	ug/L	+/- 10.00%
	Magnesium	50000	48580	97.2	ug/L	+/- 10.00%
	Potassium	10000	9497	95.0	ug/L	+/- 10.00%
	Sodium	50000	50060	100	ug/L	+/- 10.00%
1H23004-CCV1	Calcium	50000	50140	100	ug/L	+/- 10.00%
	Lead	1000	1001	100	ug/L	+/- 10.00%
	Magnesium	50000	48280	96.6	ug/L	+/- 10.00%
	Potassium	10000	9532	95.3	ug/L	+/- 10.00%
	Sodium	50000	49610	99.2	ug/L	+/- 10.00%
1H23004-CCV3	Calcium	50000	51140	102	ug/L	+/- 10.00%
	Lead	1000	985.7	98.6	ug/L	+/- 10.00%
	Magnesium	50000	48420	96.8	ug/L	+/- 10.00%
	Potassium	10000	9857	98.6	ug/L	+/- 10.00%
	Sodium	50000	50450	101	ug/L	+/- 10.00%
1H23004-CCV4	Calcium	50000	54150	108	ug/L	+/- 10.00%
	Lead	1000	938.6	93.9	ug/L	+/- 10.00%
	Magnesium	50000	50090	100	ug/L	+/- 10.00%
	Potassium	10000	10500	105	ug/L	+/- 10.00%
	Sodium	50000	52200	104	ug/L	+/- 10.00%
1H23004-CCV5	Calcium	50000	52890	106	ug/L	+/- 10.00%
	Lead	1000	974.0	97.4	ug/L	+/- 10.00%
	Magnesium	50000	50380	101	ug/L	+/- 10.00%
	Potassium	10000	9987	99.9	ug/L	+/- 10.00%
	Sodium	50000	51180	102	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_023
Project: Kirtland AFB 2011
Calibration: 1237001
Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23613-ICV1	Calcium	50000	54070	108	ug/L	+/- 10.00%
	Lead	1000	982.9	98.3	ug/L	+/- 10.00%
	Magnesium	50000	52710	105	ug/L	+/- 10.00%
	Potassium	10000	9217	92.2	ug/L	+/- 10.00%
	Sodium	50000	53320	107	ug/L	+/- 10.00%
1H23613-CCV1	Calcium	50000	53350	107	ug/L	+/- 10.00%
	Lead	1000	940.0	94.0	ug/L	+/- 10.00%
	Magnesium	50000	51350	103	ug/L	+/- 10.00%
	Potassium	10000	9875	98.7	ug/L	+/- 10.00%
	Sodium	50000	52160	104	ug/L	+/- 10.00%
1H23613-CCV5	Calcium	50000	52280	105	ug/L	+/- 10.00%
	Lead	1000	931.9	93.2	ug/L	+/- 10.00%
	Magnesium	50000	49860	99.7	ug/L	+/- 10.00%
	Potassium	10000	9789	97.9	ug/L	+/- 10.00%
	Sodium	50000	50990	102	ug/L	+/- 10.00%
1H23613-CCV6	Calcium	50000	52040	104	ug/L	+/- 10.00%
	Lead	1000	954.0	95.4	ug/L	+/- 10.00%
	Magnesium	50000	50200	100	ug/L	+/- 10.00%
	Potassium	10000	9913	99.1	ug/L	+/- 10.00%
	Sodium	50000	50930	102	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_023
Project: Kirtland AFB 2011
Calibration: 1237002
Sequence: 1H23705

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23705-ICV1	Calcium	50000	51570	103	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10580	106	ug/L	+/- 10.00%
	Lead	1000	968.3	96.8	ug/L	+/- 10.00%
	Magnesium	50000	50780	102	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	996.5	99.6	ug/L	+/- 10.00%
	Potassium	10000	9097	91.0	ug/L	+/- 10.00%
	Sodium	50000	50410	101	ug/L	+/- 10.00%
1H23705-CCV1	Calcium	50000	53270	107	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10820	108	ug/L	+/- 10.00%
	Lead	1000	944.7	94.5	ug/L	+/- 10.00%
	Magnesium	50000	50980	102	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1024	102	ug/L	+/- 10.00%
	Potassium	10000	9868	98.7	ug/L	+/- 10.00%
	Sodium	50000	52160	104	ug/L	+/- 10.00%
1H23705-CCV3	Calcium	50000	53050	106	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10740	107	ug/L	+/- 10.00%
	Lead	1000	932.1	93.2	ug/L	+/- 10.00%
	Magnesium	50000	50030	100	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	999.7	100	ug/L	+/- 10.00%
	Potassium	10000	9896	99.0	ug/L	+/- 10.00%
	Sodium	50000	52900	106	ug/L	+/- 10.00%
1H23705-CCV4	Calcium	50000	51740	103	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10720	107	ug/L	+/- 10.00%
	Lead	1000	939.3	93.9	ug/L	+/- 10.00%
	Magnesium	50000	49550	99.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	990.5	99.1	ug/L	+/- 10.00%
	Potassium	10000	9830	98.3	ug/L	+/- 10.00%
	Sodium	50000	50610	101	ug/L	+/- 10.00%
1H23705-CCV5	Calcium	50000	51560	103	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10340	103	ug/L	+/- 10.00%
	Lead	1000	980.2	98.0	ug/L	+/- 10.00%
	Magnesium	50000	50630	101	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1031	103	ug/L	+/- 10.00%
	Potassium	10000	10020	100	ug/L	+/- 10.00%
	Sodium	50000	51700	103	ug/L	+/- 10.00%
1H23705-CCV7	Calcium	50000	49370	98.7	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10280	103	ug/L	+/- 10.00%
	Lead	1000	952.2	95.2	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_023
Project: Kirtland AFB 2011
Calibration: 1237002
Sequence: 1H23705

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23705-CCV7	Magnesium	50000	48180	96.4	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	981.7	98.2	ug/L	+/- 10.00%
	Potassium	10000	9842	98.4	ug/L	+/- 10.00%
	Sodium	50000	49080	98.2	ug/L	+/- 10.00%
1H23705-CCV8	Calcium	50000	50670	101	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10440	104	ug/L	+/- 10.00%
	Lead	1000	953.8	95.4	ug/L	+/- 10.00%
	Magnesium	50000	49040	98.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	995.7	99.6	ug/L	+/- 10.00%
	Potassium	10000	9859	98.6	ug/L	+/- 10.00%
	Sodium	50000	50370	101	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1241002

Sequence: 1H23004

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23004-CRL1	Calcium	2000	2110	105	ug/L	80 - 120
	Lead	3.000	3.114	104	ug/L	80 - 120
	Magnesium	3000	3090	103	ug/L	80 - 120
	Potassium	3000	2907	96.9	ug/L	80 - 120
	Sodium	3000	3045	101	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1237001

Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23613-CRL1	Calcium	2000	2023	101	ug/L	80 - 120
	Lead	3.000	3.040	101	ug/L	80 - 120
	Magnesium	3000	3008	100	ug/L	80 - 120
	Potassium	3000	2821	94.0	ug/L	80 - 120
	Sodium	3000	2831	94.4	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1237002

Sequence: 1H23705

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23705-CRL1	Calcium	2000	2035	102	ug/L	80 - 120
	Iron (dissolved)	60.00	61.12	102	ug/L	80 - 120
	Lead	3.000	2.874	95.8	ug/L	80 - 120
	Magnesium	3000	3047	102	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.104	102	ug/L	80 - 120
	Potassium	3000	2785	92.8	ug/L	80 - 120
	Sodium	3000	2901	96.7	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1H23004
Calibration: 1241002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23004-ICB1	Calcium	17.91	1000	5000	ug/L	U	SW6010B
	Lead	-0.4871	1.50	3.00	ug/L	U	SW6010B
	Magnesium	30.15	1000	5000	ug/L	U	SW6010B
	Potassium	20.32	1000	5000	ug/L	U	SW6010B
	Sodium	20.15	1000	5000	ug/L	U	SW6010B
1H23004-CCB1	Calcium	3.04	1000	5000	ug/L	U	SW6010B
	Lead	-0.538	1.50	3.00	ug/L	U	SW6010B
	Magnesium	11.0	1000	5000	ug/L	U	SW6010B
	Potassium	15.4	1000	5000	ug/L	U	SW6010B
	Sodium	8.81	1000	5000	ug/L	U	SW6010B
1H23004-CCB3	Calcium	7.13	1000	5000	ug/L	U	SW6010B
	Lead	0.210	1.50	3.00	ug/L	U	SW6010B
	Magnesium	11.6	1000	5000	ug/L	U	SW6010B
	Potassium	34.1	1000	5000	ug/L	U	SW6010B
	Sodium	29.5	1000	5000	ug/L	U	SW6010B
1H16005-BLK1	Calcium	13.3	1000	5000	ug/L	U	SW6010B
	Lead	-0.129	1.50	3.00	ug/L	U	SW6010B
	Magnesium	17.2	1000	5000	ug/L	U	SW6010B
	Potassium	27.4	1000	5000	ug/L	U	SW6010B
	Sodium	42.6	1000	5000	ug/L	U	SW6010B
1H23004-CCB4	Calcium	3.86	1000	5000	ug/L	U	SW6010B
	Lead	0.0164	1.50	3.00	ug/L	U	SW6010B
	Magnesium	18.5	1000	5000	ug/L	U	SW6010B
	Potassium	20.8	1000	5000	ug/L	U	SW6010B
	Sodium	5.79	1000	5000	ug/L	U	SW6010B
1H23004-CCB5	Calcium	1.81	1000	5000	ug/L	U	SW6010B
	Lead	-0.455	1.50	3.00	ug/L	U	SW6010B
	Magnesium	8.20	1000	5000	ug/L	U	SW6010B
	Potassium	26.6	1000	5000	ug/L	U	SW6010B
	Sodium	10.2	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1H23613
Calibration: 1237001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23613-ICB1	Calcium	0.8800	1000	5000	ug/L	U	SW6010B
	Lead	0.1953	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-0.1000	1000	5000	ug/L	U	SW6010B
	Potassium	4.750	1000	5000	ug/L	U	SW6010B
	Sodium	14.59	1000	5000	ug/L	U	SW6010B
1H23613-CCB1	Calcium	1.97	1000	5000	ug/L	U	SW6010B
	Lead	0.212	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-0.440	1000	5000	ug/L	U	SW6010B
	Potassium	7.57	1000	5000	ug/L	U	SW6010B
	Sodium	21.6	1000	5000	ug/L	U	SW6010B
1H23613-CCB5	Calcium	10.0	1000	5000	ug/L	U	SW6010B
	Lead	0.534	1.50	3.00	ug/L	U	SW6010B
	Magnesium	39.8	1000	5000	ug/L	U	SW6010B
	Potassium	-48.0	1000	5000	ug/L	U	SW6010B
	Sodium	58.4	1000	5000	ug/L	U	SW6010B
1H22914-BLK1	Calcium	8.94	1000	5000	ug/L	U	SW6010B
	Lead	0.193	1.50	3.00	ug/L	U	SW6010B
	Magnesium	6.04	1000	5000	ug/L	U	SW6010B
	Potassium	12.9	1000	5000	ug/L	U	SW6010B
	Sodium	44.8	1000	5000	ug/L	U	SW6010B
1H23613-CCB6	Calcium	11.8	1000	5000	ug/L	U	SW6010B
	Lead	0.626	1.50	3.00	ug/L	U	SW6010B
	Magnesium	3.93	1000	5000	ug/L	U	SW6010B
	Potassium	1.20	1000	5000	ug/L	U	SW6010B
	Sodium	43.8	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1H23705
Calibration: 1237002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23705-ICB1	Calcium	3.100	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.4297	30.0	100	ug/L	U	SW6010B
	Lead	-0.2166	1.50	3.00	ug/L	U	SW6010B
	Magnesium	1.220	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.07330	3.00	15.0	ug/L	U	SW6010B
	Potassium	7.360	1000	5000	ug/L	U	SW6010B
	Sodium	1.630	1000	5000	ug/L	U	SW6010B
1H23705-CCB1	Calcium	24.1	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	6.97	30.0	100	ug/L	U	SW6010B
	Lead	0.140	1.50	3.00	ug/L	U	SW6010B
	Magnesium	16.5	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0710	3.00	15.0	ug/L	U	SW6010B
	Potassium	-13.4	1000	5000	ug/L	U	SW6010B
	Sodium	5.75	1000	5000	ug/L	U	SW6010B
1H23705-CCB3	Calcium	29.2	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.371	30.0	100	ug/L	U	SW6010B
	Lead	0.291	1.50	3.00	ug/L	U	SW6010B
	Magnesium	31.6	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0876	3.00	15.0	ug/L	U	SW6010B
	Potassium	50.8	1000	5000	ug/L	U	SW6010B
	Sodium	827	1000	5000	ug/L	U	SW6010B
1H22916-BLK1	Iron (dissolved)	-1.68	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0818	3.00	15.0	ug/L	U	SW6010B
1H23705-CCB4	Calcium	6.87	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.341	30.0	100	ug/L	U	SW6010B
	Lead	0.287	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-4.45	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.120	3.00	15.0	ug/L	U	SW6010B
	Potassium	12.1	1000	5000	ug/L	U	SW6010B
	Sodium	95.4	1000	5000	ug/L	U	SW6010B
1H23705-CCB5	Calcium	7.98	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-1.49	30.0	100	ug/L	U	SW6010B
	Lead	0.669	1.50	3.00	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1H23705
Calibration: 1237002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23705-CCB5	Magnesium	-4.59	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.433	3.00	15.0	ug/L	U	SW6010B
	Potassium	-6.40	1000	5000	ug/L	U	SW6010B
	Sodium	76.6	1000	5000	ug/L	U	SW6010B
1H23705-CCB7	Calcium	7.10	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.41	30.0	100	ug/L	U	SW6010B
	Lead	0.117	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.740	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.153	3.00	15.0	ug/L	U	SW6010B
	Potassium	30.2	1000	5000	ug/L	U	SW6010B
	Sodium	43.0	1000	5000	ug/L	U	SW6010B
1H23705-CCB8	Calcium	8.71	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	14.5	30.0	100	ug/L	U	SW6010B
	Lead	0.842	1.50	3.00	ug/L	U	SW6010B
	Magnesium	4.09	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.237	3.00	15.0	ug/L	U	SW6010B
	Potassium	31.2	1000	5000	ug/L	U	SW6010B
	Sodium	24.8	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1241002
Sequence: 1H23004

Lab Sample ID	Analyte	True	Found	%R	Units
1H23004-IFA1	Calcium	500000	462,520.00	92.5	ug/L
	Lead		4.57		ug/L
	Magnesium	500000	468,900.00	93.8	ug/L
	Potassium		-3.75		ug/L
	Sodium		80.32		ug/L
1H23004-IFB1	Calcium	500000	489,090.00	97.8	ug/L
	Lead	50.00	55.25	111	ug/L
	Magnesium	500000	500,010.00	100	ug/L
	Potassium		-13.22		ug/L
	Sodium		72.13		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1237001
Sequence: 1H23613

Lab Sample ID	Analyte	True	Found	%R	Units
1H23613-IFA1	Calcium	500000	479,420.00	95.9	ug/L
	Lead		3.37		ug/L
	Magnesium	500000	502,960.00	101	ug/L
	Potassium		-5.03		ug/L
	Sodium		60.57		ug/L
1H23613-IFB1	Calcium	500000	489,180.00	97.8	ug/L
	Lead	50.00	46.77	93.5	ug/L
	Magnesium	500000	511,860.00	102	ug/L
	Potassium		-19.93		ug/L
	Sodium		115.13		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1237002
Sequence: 1H23705

Lab Sample ID	Analyte	True	Found	%R	Units
1H23705-IFA1	Calcium	500000	481,710.00	96.3	ug/L
	Iron (dissolved)	200000	207,870.00	104	ug/L
	Lead		1.42		ug/L
	Magnesium	500000	498,000.00	99.6	ug/L
	Manganese (dissolved)		-3.69		ug/L
	Potassium		-26.84		ug/L
	Sodium		15.59		ug/L
1H23705-IFB1	Calcium	500000	507,390.00	101	ug/L
	Iron (dissolved)	200000	211,880.00	106	ug/L
	Lead	50.00	44.48	89.0	ug/L
	Magnesium	500000	510,930.00	102	ug/L
	Manganese (dissolved)	500.0	485.74	97.1	ug/L
	Potassium		-33.80		ug/L
	Sodium		70.06		ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H16005

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	50870	55170	85.9		80 - 120
Lead	250.0	ND	239.3	95.7		80 - 120
Magnesium	5000	6979	11770	95.7		80 - 120
Potassium	5000	2717	7727	100		80 - 120
Sodium	5000	23940	28600	93.2		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	53140	45.3	3.75		20	80 - 120
Lead	250.0	235.0	94.0	1.83		20	80 - 120
Magnesium	5000	11310	86.5	3.99		20	80 - 120
Potassium	5000	7578	97.2	1.95		20	80 - 120
Sodium	5000	27700	75.2	3.20		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H22916

% Solids:

Source Sample Name: **1108140-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	ND	1107	111		80 - 120
Manganese (dissolved)	500.0	40.34	553.6	103		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	1107	111	0.00		20	80 - 120
Manganese (dissolved)	500.0	530.4	98.0	4.28		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0160

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1H16005-PS1
Batch: 1H16005
Lab Source ID: 1108138-01
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	56320	50870	5000	109	80 - 120
Lead	240.3	ND	250.0	96.5	80 - 120
Magnesium	11780	6979	5000	95.9	80 - 120
Potassium	7970	2717	5000	105	80 - 120
Sodium	29260	23940	5000	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H16005	Laboratory ID:	1H16005-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	5318	106	80 - 120
Lead	250.0	242.1	96.8	80 - 120
Magnesium	5000	4940	98.8	80 - 120
Potassium	5000	5139	103	80 - 120
Sodium	5000	5131	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H22914	Laboratory ID:	1H22914-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	5217	104	80 - 120
Lead	250.0	227.7	91.1	80 - 120
Magnesium	5000	4948	99.0	80 - 120
Potassium	5000	4605	92.1	80 - 120
Sodium	5000	4927	98.5	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H22916	Laboratory ID:	1H22916-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	1108	111	80 - 120
Manganese (dissolved)	500.0	493.2	98.6	80 - 120

SERIAL DILUTION

SW6010B

GW0160

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1H23004
Preparation: MET_3005A

SDG: kirtland_023
Project: Kirtland AFB 2011
Laboratory ID: 1H16005-DUP1
Lab Source ID: 1108138-01
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	50874	52375	2.95		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	6979	7235	3.67		SW6010B	10.00
Potassium	2716.7	ND			SW6010B	10.00
Sodium	23942	24493	2.3		SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0160

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1H23705
Preparation: MET_3005A

SDG: kirtland_023
Project: Kirtland AFB 2011
Laboratory ID: 1H22916-DUP1
Lab Source ID: 1108140-01
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Iron (dissolved)	ND	ND			SW6010B	10.00
Manganese (dissolved)	40.336	43.271	7.28		SW6010B	10.00

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_023

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_023

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_023

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_023

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_023

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_023

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_023

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_023

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_023

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

Batch: 1H16005 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0155-R	1108110-01	08/16/11 07:47	50.00	50.00
GW0156-R	1108110-03	08/16/11 07:47	50.00	50.00
GW0176	1108110-05	08/16/11 07:47	50.00	50.00
GW8023-RB	1108110-07	08/16/11 07:47	50.00	50.00
GW0162	1108126-01	08/16/11 07:47	50.00	50.00
GW0244	1108126-03	08/16/11 07:47	50.00	50.00
GW0160	1108138-01	08/16/11 07:47	50.00	50.00
GW0191	1108138-02	08/16/11 07:47	50.00	50.00
GW0161	1108152-01RE1	08/16/11 07:47	50.00	50.00
GW0177	1108152-03	08/16/11 07:47	50.00	50.00
GW0178	1108152-05	08/16/11 07:47	50.00	50.00
GW0180	1108152-07	08/16/11 07:47	50.00	50.00
GW0181	1108152-09	08/16/11 07:47	50.00	50.00
Blank	1H16005-BLK1	08/16/11 07:47	50.00	50.00
LCS	1H16005-BS1	08/16/11 07:47	50.00	50.00
GW0160	1H16005-DUP1	08/16/11 07:47	50.00	50.00
GW0160	1H16005-MS1	08/16/11 07:47	50.00	50.00
GW0160	1H16005-MSD1	08/16/11 07:47	50.00	50.00
GW0160	1H16005-PS1	08/16/11 07:47	20.00	20.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H22914 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0179	1108166-01	08/22/11 07:45	50.00	50.00
Blank	1H22914-BLK1	08/22/11 07:45	50.00	50.00
LCS	1H22914-BS1	08/22/11 07:45	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H22916 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0155-R	1108110-02	08/22/11 08:12	50.00	50.00
GW0156-R	1108110-04	08/22/11 08:12	50.00	50.00
GW0176	1108110-06	08/22/11 08:12	50.00	50.00
GW8023-RB	1108110-08	08/22/11 08:12	50.00	50.00
GW0162	1108126-02	08/22/11 08:12	50.00	50.00
GW0244	1108126-04	08/22/11 08:12	50.00	50.00
GW0160	1108140-01	08/22/11 08:12	50.00	50.00
GW0191	1108140-02	08/22/11 08:12	50.00	50.00
GW0161	1108152-02	08/22/11 08:12	50.00	50.00
GW0177	1108152-04	08/22/11 08:12	50.00	50.00
GW0178	1108152-06	08/22/11 08:12	50.00	50.00
GW0180	1108152-08	08/22/11 08:12	50.00	50.00
GW0181	1108152-10	08/22/11 08:12	50.00	50.00
GW0179	1108166-02	08/22/11 08:12	50.00	50.00
Blank	1H22916-BLK1	08/22/11 08:12	50.00	50.00
LCS	1H22916-BS1	08/22/11 08:12	50.00	50.00
GW0160	1H22916-DUP1	08/22/11 08:12	50.00	50.00
GW0160	1H22916-MS1	08/22/11 08:12	50.00	50.00
GW0160	1H22916-MSD1	08/22/11 08:12	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23004	Instrument:	ME-ICP
Calibration:	1241002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23004-CAL1	081711A-001	08/17/11 12:53
Cal Standard	1H23004-CAL2	081711A-002	08/17/11 12:57
Cal Standard	1H23004-CAL3	081711A-003	08/17/11 13:01
Cal Standard	1H23004-CAL5	081711A-005	08/17/11 13:11
Cal Standard	1H23004-CAL6	081711A-006	08/17/11 13:15
Cal Standard	1H23004-CAL7	081711A-007	08/17/11 13:21
Cal Standard	1H23004-CAL8	081711A-008	08/17/11 13:26
Initial Cal Check	1H23004-ICV1	081711B-001	08/17/11 14:02
Initial Cal Blank	1H23004-ICB1	081711B-002	08/17/11 14:10
Instrument RL Check	1H23004-CRL1	081711B-003	08/17/11 14:15
Interference Check A	1H23004-IFA1	081711B-007	08/17/11 14:41
Interference Check B	1H23004-IFB1	081711B-008	08/17/11 14:47
Calibration Check	1H23004-CCV1	081711C-001	08/17/11 15:00
Calibration Blank	1H23004-CCB1	081711C-002	08/17/11 15:08
Calibration Check	1H23004-CCV3	081711C-021	08/17/11 16:43
Calibration Blank	1H23004-CCB3	081711C-022	08/17/11 16:50
Blank	1H16005-BLK1	081711C-023	08/17/11 16:55
LCS	1H16005-BS1	081711C-024	08/17/11 16:59
GW0155-R	1108110-01	081711C-027	08/17/11 17:15
GW0156-R	1108110-03	081711C-028	08/17/11 17:19
GW0176	1108110-05	081711C-029	08/17/11 17:24
GW8023-RB	1108110-07	081711C-030	08/17/11 17:29
GW0162	1108126-01	081711C-031	08/17/11 17:33
GW0244	1108126-03	081711C-032	08/17/11 17:38
GW0160	1108138-01	081711C-033	08/17/11 17:42
GW0160	1H16005-MS1	081711C-034	08/17/11 17:47
GW0160	1H16005-MSD1	081711C-035	08/17/11 17:51
GW0160	1H16005-PS1	081711C-036	08/17/11 17:55
GW0160	1H16005-DUP1	081711C-037	08/17/11 18:01
GW0191	1108138-02	081711C-038	08/17/11 18:05
Calibration Check	1H23004-CCV4	081711C-039	08/17/11 18:11
Calibration Blank	1H23004-CCB4	081711C-040	08/17/11 18:18

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23004	Instrument:	ME-ICP
Calibration:	1241002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0177	1108152-03	081711C-043	08/17/11 18:32
GW0178	1108152-05	081711C-044	08/17/11 18:36
GW0180	1108152-07	081711C-045	08/17/11 18:41
GW0181	1108152-09	081711C-046	08/17/11 18:45
Calibration Check	1H23004-CCV5	081711C-055	08/17/11 19:28
Calibration Blank	1H23004-CCB5	081711C-056	08/17/11 19:35

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23613	Instrument:	ME-ICP
Calibration:	1237001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23613-CAL1	082311A-001	08/23/11 12:35
Cal Standard	1H23613-CAL2	082311A-002	08/23/11 12:39
Cal Standard	1H23613-CAL3	082311A-003	08/23/11 12:44
Cal Standard	1H23613-CAL5	082311A-005	08/23/11 12:52
Cal Standard	1H23613-CAL6	082311A-006	08/23/11 12:57
Cal Standard	1H23613-CAL7	082311A-007	08/23/11 13:02
Cal Standard	1H23613-CAL8	082311A-008	08/23/11 13:07
Initial Cal Check	1H23613-ICV1	082311B-001	08/23/11 13:37
Initial Cal Blank	1H23613-ICB1	082311B-002	08/23/11 13:46
Instrument RL Check	1H23613-CRL1	082311B-003	08/23/11 13:51
Interference Check A	1H23613-IFA1	082311B-005	08/23/11 14:01
Interference Check B	1H23613-IFB1	082311B-006	08/23/11 14:06
Calibration Check	1H23613-CCV1	082311B-008	08/23/11 14:17
Calibration Blank	1H23613-CCB1	082311B-009	08/23/11 14:24
Calibration Check	1H23613-CCV5	082311C-062	08/23/11 19:32
Calibration Blank	1H23613-CCB5	082311C-063	08/23/11 19:40
Blank	1H22914-BLK1	082311C-064	08/23/11 19:44
LCS	1H22914-BS1	082311C-065	08/23/11 19:49
GW0179	1108166-01	082311C-079	08/23/11 20:55
Calibration Check	1H23613-CCV6	082311C-080	08/23/11 21:01
Calibration Blank	1H23613-CCB6	082311C-081	08/23/11 21:08

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23705	Instrument:	ME-ICP
Calibration:	1237002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23705-CAL1	082211A-001	08/22/11 13:01
Cal Standard	1H23705-CAL1	082211A-001	08/22/11 13:01
Cal Standard	1H23705-CAL2	082211A-002	08/22/11 13:05
Cal Standard	1H23705-CAL2	082211A-002	08/22/11 13:05
Cal Standard	1H23705-CAL3	082211A-003	08/22/11 13:09
Cal Standard	1H23705-CAL3	082211A-003	08/22/11 13:09
Cal Standard	1H23705-CAL4	082211A-004	08/22/11 13:13
Cal Standard	1H23705-CAL5	082211A-005	08/22/11 13:18
Cal Standard	1H23705-CAL5	082211A-005	08/22/11 13:18
Cal Standard	1H23705-CAL6	082211A-006	08/22/11 13:22
Cal Standard	1H23705-CAL6	082211A-006	08/22/11 13:22
Cal Standard	1H23705-CAL7	082211A-007	08/22/11 13:28
Cal Standard	1H23705-CAL8	082211A-008	08/22/11 13:32
Initial Cal Check	1H23705-ICV1	082211B-001	08/22/11 14:02
Initial Cal Check	1H23705-ICV1	082211B-001	08/22/11 14:02
Initial Cal Blank	1H23705-ICB1	082211B-002	08/22/11 14:09
Initial Cal Blank	1H23705-ICB1	082211B-002	08/22/11 14:09
Instrument RL Check	1H23705-CRL1	082211B-005	08/22/11 14:24
Instrument RL Check	1H23705-CRL1	082211B-005	08/22/11 14:24
Interference Check A	1H23705-IFA1	082211B-008	08/22/11 14:40
Interference Check A	1H23705-IFA1	082211B-008	08/22/11 14:40
Interference Check B	1H23705-IFB1	082211B-009	08/22/11 14:47
Interference Check B	1H23705-IFB1	082211B-009	08/22/11 14:47
Calibration Check	1H23705-CCV1	082211B-011	08/22/11 14:57
Calibration Check	1H23705-CCV1	082211B-011	08/22/11 14:57
Calibration Blank	1H23705-CCB1	082211B-012	08/22/11 15:04
Calibration Blank	1H23705-CCB1	082211B-012	08/22/11 15:04
Calibration Check	1H23705-CCV3	082211B-041	08/22/11 17:27
Calibration Check	1H23705-CCV3	082211B-041	08/22/11 17:27
Calibration Blank	1H23705-CCB3	082211B-042	08/22/11 17:34
Calibration Blank	1H23705-CCB3	082211B-042	08/22/11 17:34
Blank	1H22916-BLK1	082211B-043	08/22/11 17:39

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23705	Instrument:	ME-ICP
Calibration:	1237002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1H22916-BS1	082211B-044	08/22/11 17:44
GW0155-R	1108110-02	082211B-047	08/22/11 17:59
GW0156-R	1108110-04	082211B-048	08/22/11 18:03
GW0176	1108110-06	082211B-049	08/22/11 18:08
GW8023-RB	1108110-08	082211B-050	08/22/11 18:13
GW0162	1108126-02	082211B-051	08/22/11 18:17
GW0244	1108126-04	082211B-052	08/22/11 18:22
GW0160	1108140-01	082211B-053	08/22/11 18:26
GW0160	1H22916-MS1	082211B-054	08/22/11 18:31
GW0160	1H22916-MSD1	082211B-055	08/22/11 18:35
GW0160	1H22916-DUP1	082211B-056	08/22/11 18:40
GW0191	1108140-02	082211B-057	08/22/11 18:45
Calibration Check	1H23705-CCV4	082211B-058	08/22/11 18:50
Calibration Check	1H23705-CCV4	082211B-058	08/22/11 18:50
Calibration Blank	1H23705-CCB4	082211B-059	08/22/11 18:58
Calibration Blank	1H23705-CCB4	082211B-059	08/22/11 18:58
GW0161	1108152-02	082211B-060	08/22/11 19:02
GW0177	1108152-04	082211B-061	08/22/11 19:07
GW0178	1108152-06	082211B-062	08/22/11 19:11
GW0180	1108152-08	082211B-063	08/22/11 19:16
GW0181	1108152-10	082211B-064	08/22/11 19:20
GW0179	1108166-02	082211B-065	08/22/11 19:25
Calibration Check	1H23705-CCV5	082211B-069	08/22/11 19:44
Calibration Check	1H23705-CCV5	082211B-069	08/22/11 19:44
Calibration Blank	1H23705-CCB5	082211B-070	08/22/11 19:52
Calibration Blank	1H23705-CCB5	082211B-070	08/22/11 19:52
Calibration Check	1H23705-CCV7	082211B-096	08/22/11 21:59
Calibration Check	1H23705-CCV7	082211B-096	08/22/11 21:59
Calibration Blank	1H23705-CCB7	082211B-097	08/22/11 22:06
Calibration Blank	1H23705-CCB7	082211B-097	08/22/11 22:06
GW0161	1108152-01RE1	082211B-098	08/22/11 22:11
Calibration Check	1H23705-CCV8	082211B-104	08/22/11 22:40

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23705	Instrument:	ME-ICP
Calibration:	1237002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H23705-CCV8	082211B-104	08/22/11 22:40
Calibration Blank	1H23705-CCB8	082211B-105	08/22/11 22:47
Calibration Blank	1H23705-CCB8	082211B-105	08/22/11 22:47

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1237001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/23/11 12:35 8/23/11 13:07

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
Aluminum	0	0	5000	2.1716E-05	10000	2.1575E-05			500000	2.103E-05		
Antimony	0	0	100	0.0006546	1000	6.8117E-04					10000	6.7454E-04
Arsenic	0	0	100	0.0002618	1000	2.8257E-04					10000	0.000271
Barium	0	0	50	0.0121306	1000	0.011494	5000	0.0115124				
Beryllium	0	0	100	0.0031266	1000	0.0031798					10000	0.0030015
Boron	0	0	50	0.0000156	1000	0.0000161					5000	1.5728E-05
Cadmium	0	0	100	0.016683	1000	0.016666					10000	0.015633
Calcium	0	0	1100	6.714545E-05	50000	6.6838E-05					10000	
Chromium	0	0	100	0.0000534	1000	5.183E-05					10000	5.1176E-05
Cobalt	0	0	100	0.0057608	1000	0.0056774					10000	0.0057107
Copper	0	0	100	0.0000801	1000	7.583E-05					10000	7.5076E-05
Iron	0	0	5100	2.071569E-05	10000	1.9958E-05			500000	1.88624E-05	10000	
Lead	0	0	100	0.0014496	1000	0.0013922					10000	0.0014181
Magnesium	0	0	5100		50000	2.7254E-06			500000	2.6406E-06	10000	
Manganese	0	0	100	0.0003081	1000	2.9561E-04	10000	2.8611E-04			10000	
Molybdenum	0	0	100	0.0038412	1000	0.0039293					10000	0.0038797
Nickel	0	0	100	0.0033362	1000	0.0031984					10000	0.0031898
Potassium	0	0	1000	1.037E-05	10000	1.4153E-05						
Selenium	0	0	100	0.0004208	1000	4.2418E-04					10000	4.1525E-04
Silver	0	0	20	0.0000615	500	5.816E-05	2000	6.0345E-05				
Sodium	0	0	1000		50000	4.5882E-05						
Strontium	0	0	100	0.001782	1000	0.001788					10000	0.001735
Thallium	0	0	100	0.0007746	1000	7.5835E-04					10000	0.0007673
Tin	0	0	50	0.0014276	1000	0.0013963					5000	1.38178E-03
Titanium	0	0	100	0.0002572	1000	0.0002553					10000	2.4856E-04
Vanadium	0	0	100	0.0000554	1000	0.0000543					10000	5.3516E-05
Zinc	0	0	100	0.0071567	1000	0.0072318					10000	0.0069986

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1237001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/23/11 12:35 8/23/11 13:07

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
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.467E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.6097E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.4374E-05										
Selenium												
Silver												
Sodium	100000	4.5728E-05	500000	4.4858E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	kirtland_023	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1237001		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	8/23/11 12:35	8/23/11 13:07

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.608025E-05	66.69204	4.98034	177.4853	0.9999998		0.998	
Antimony	5.025775E-04	66.70451	57.0169	198.7401	0.9999987		0.998	
Arsenic	2.038425E-04	66.79688	16.93998	190.9752	0.9999796		0.998	
Barium	8.78425E-03	66.75169	2.003203	174.5036	0.9999995		0.998	
Beryllium	2.326975E-03	66.74399	51.10365	197.6351	0.9999665		0.998	
Boron	1.1857E-05	66.69066	9.365562	188.3758	0.9999762		0.998	
Cadmium	0.0122455	66.78714	11.40095	196.2946	0.9999597		0.998	
Calcium	4.966336E-05	66.70357	3.09624	152.8904	0.999989		0.998	
Chromium	3.91015E-05	66.70938	4.188295	156.5203	0.9999987		0.998	
Cobalt	4.287225E-03	66.67146	2.526048	179.4643	0.9999995		0.998	
Copper	5.77515E-05	66.77662	1.234518	99.22564	0.9999997		0.998	
Iron	1.488402E-05	66.86233	24.03939	194.8944	0.9999989		0.998	
Lead	1.064975E-03	66.70308	27.98761	197.0461	0.9999961		0.998	
Magnesium	1.993925E-06	66.71178	132.9955	199.3474	0.9999756		0.998	
Manganese	2.22455E-04	66.78945	2.19444	146.7611	0.9999907		0.998	
Molybdenum	2.91255E-03	66.67816	12.41011	196.3678	0.9999983		0.998	
Nickel	0.0024311	66.72374	0.565385	121.5468	1		0.998	
Potassium	9.72425E-06	69.29326	1.984938	111.7499	0.9999992		0.998	
Selenium	3.150575E-04	66.67691	8.407388	194.7086	0.9999961		0.998	
Silver	4.500125E-05	66.73767	12.27759	183.5934	0.9999032		0.998	
Sodium	3.4117E-05	66.67976	5.077497	170.9772	0.9999856		0.998	
Strontium	1.32625E-03	66.69061	3.16285	146.4308	0.9999912		0.998	
Thallium	5.750625E-04	66.67668	7.079645	191.1055	0.9999987		0.998	
Tin	1.05142E-03	66.69146	2.22921	176.7163	0.9999955		0.998	
Titanium	1.90265E-04	66.69513	1.857302	149.1842	0.9999939		0.998	
Vanadium	4.0804E-05	66.69356	6.050597	174.6094	0.9999983		0.998	
Zinc	5.346775E-03	66.69144	5.309312	194.8523	0.9999896		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1237002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/22/11 13:01 8/22/11 13:32

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.106E-05	10000	2.083E-05			500000	2.0662E-05		
Antimony	0	0	100	0.0006279	1000	6.4717E-04					10000	6.4526E-04
Arsenic	0	0	100	0.0002447	1000	2.6452E-04					10000	0.0002534
Barium	0	0	50	0.0116856	1000	0.01103	5000	0.0111188				
Beryllium	0	0	100	0.003076	1000	0.0031141					10000	0.0029209
Boron	0	0	50	0.0000156	1000	1.599E-05					5000	1.4934E-05
Cadmium	0	0	100	0.016251	1000	0.016272					10000	0.015714
Calcium	0	0	1100	6.824546E-05	50000	6.7076E-05					10000	
Chromium	0	0	100	0.0000521	1000	0.0000505					10000	5.031E-05
Cobalt	0	0	100	0.0055378	1000	0.0054377					10000	0.0055672
Copper	0	0	100	0.0000788	1000	7.502E-05					10000	7.1504E-05
Iron	0	0	5100	2.05902E-05	10000	1.9666E-05			500000	1.87222E-05	10000	
Lead	0	0	100	0.0014119	1000	0.0013493					10000	0.0013972
Magnesium	0	0	5100		50000	2.7502E-06			500000	2.6732E-06	10000	
Manganese	0	0	100	0.0003051	1000	0.0002948	10000	2.8629E-04			10000	
Molybdenum	0	0	100	0.0037059	1000	0.0037658					10000	0.0038089
Nickel	0	0	100	0.0032332	1000	0.0030977					10000	0.0031737
Potassium	0	0	1000	9.64E-06	10000	1.3706E-05						
Selenium	0	0	100	0.0004094	1000	4.1009E-04					10000	4.0595E-04
Silver	0	0	20	0.00006	500	0.0000564	2000	5.9055E-05				
Sodium	0	0	1000		50000	4.569E-05						
Strontium	0	0	100	0.001748	1000	0.001744					10000	0.001665
Thallium	0	0	100	0.000747	1000	7.2974E-04					10000	0.0007375
Tin	0	0	50	0.0013752	1000	0.0013526					5000	1.36826E-03
Titanium	0	0	100	0.0002555	1000	2.5276E-04					10000	2.3927E-04
Vanadium	0	0	100	0.0000546	1000	5.314E-05					10000	5.1921E-05
Zinc	0	0	100	0.0070142	1000	0.0070289					10000	0.0070392
Aluminum	0	0	5000	2.106E-05	10000	2.083E-05			500000	2.0662E-05		
Antimony	0	0	100	0.0006279	1000	6.4717E-04					10000	6.4526E-04
Arsenic	0	0	100	0.0002447	1000	2.6452E-04					10000	0.0002534
Barium	0	0	50	0.0116856	1000	0.01103	5000	0.0111188				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1237002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/22/11_13:01 8/22/11_13:32

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.003076	1000	0.0031141					10000	0.0029209
Boron	0	0	50	0.0000156	1000	1.599E-05					5000	1.4934E-05
Cadmium	0	0	100	0.016251	1000	0.016272					10000	0.015714
Calcium	0	0	1100	6.824546E-05	50000	6.7076E-05					10000	
Chromium	0	0	100	0.0000521	1000	0.0000505					10000	5.031E-05
Cobalt	0	0	100	0.0055378	1000	0.0054377					10000	0.0055672
Copper	0	0	100	0.0000788	1000	7.502E-05					10000	7.1504E-05
Iron	0	0	5100	2.05902E-05	10000	1.9666E-05			500000	1.87222E-05	10000	
Lead	0	0	100	0.0014119	1000	0.0013493					10000	0.0013972
Magnesium	0	0	5100		50000	2.7502E-06			500000	2.6732E-06	10000	
Manganese	0	0	100	0.0003051	1000	0.0002948	10000	2.8629E-04			10000	
Molybdenum	0	0	100	0.0037059	1000	0.0037658					10000	0.0038089
Nickel	0	0	100	0.0032332	1000	0.0030977					10000	0.0031737
Potassium	0	0	1000	9.64E-06	10000	1.3706E-05						
Selenium	0	0	100	0.0004094	1000	4.1009E-04					10000	4.0595E-04
Silver	0	0	20	0.00006	500	0.0000564	2000	5.9055E-05				
Sodium	0	0	1000		50000	4.569E-05						
Strontium	0	0	100	0.001748	1000	0.001744					10000	0.001665
Thallium	0	0	100	0.000747	1000	7.2974E-04					10000	0.0007375
Tin	0	0	50	0.0013752	1000	0.0013526					5000	1.36826E-03
Titanium	0	0	100	0.0002555	1000	2.5276E-04					10000	2.3927E-04
Vanadium	0	0	100	0.0000546	1000	5.314E-05					10000	5.1921E-05
Zinc	0	0	100	0.0070142	1000	0.0070289					10000	0.0070392

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1237002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/22/11 13:01 8/22/11 13:32

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	6.3238E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.6099E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3981E-05										
Selenium												
Silver												
Sodium	100000	4.4404E-05	500000	4.3084E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1237002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/22/11 13:01 8/22/11 13:32

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.3238E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.6099E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3981E-05										
Selenium												
Silver												
Sodium	100000	4.4404E-05	500000	4.3084E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	kirtland_023	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1237002		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	8/22/11 13:01	8/22/11 13:32

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.5638E-05	66.67483	2.801948	148.9232	0.9999999		0.998	
Antimony	4.800825E-04	66.69112	182.7523	199.1177	0.9999998		0.998	
Arsenic	1.90655E-04	66.80229	10.55875	188.0281	0.9999786		0.998	
Barium	0.0084586	66.755	0.7354725	99.47636	0.9999961		0.998	
Beryllium	2.27775E-03	66.76751	11.21491	179.1461	0.9999588		0.998	
Boron	1.1631E-05	66.77197	3.43657	151.5637	0.9997915		0.998	
Cadmium	1.205925E-02	66.70105	5.323067	186.3451	0.9999883		0.998	
Calcium	4.963986E-05	66.80577	4.005742	156.4421	0.9999641		0.998	
Chromium	3.82275E-05	66.69974	0.865665	39.12218	0.9999998		0.998	
Cobalt	4.135675E-03	66.68014	1.32365	149.4586	0.9999944		0.998	
Copper	5.6331E-05	66.87613	1.01595	30.34736	0.9999814		0.998	
Iron	1.47446E-05	66.867	29.40728	195.1792	0.9999991		0.998	
Lead	0.0010396	66.71622	8.84881	189.5615	0.9999875		0.998	
Magnesium	2.008325E-06	66.72783	27.47614	197.9024	0.9999524		0.998	
Manganese	2.215475E-04	66.75699	5.327967	168.1125	0.9999925		0.998	
Molybdenum	2.82015E-03	66.68349	3.809087	175.8441	0.9999989		0.998	
Nickel	2.37615E-03	66.7075	1.170095	137.6955	0.9999932		0.998	
Potassium	9.33175E-06	69.9771	1.646375	108.173	0.9999994		0.998	
Selenium	3.0636E-04	66.66929	5.266905	180.409	0.9999993		0.998	
Silver	4.386375E-05	66.75714	10.94836	185.548	0.9998544		0.998	
Sodium	3.32945E-05	66.74321	15.78381	186.4258	0.9999524		0.998	
Strontium	1.28925E-03	66.73254	4.992875	159.6898	0.999979		0.998	
Thallium	5.5356E-04	66.67886	5.8605	183.5205	0.9999989		0.998	
Tin	1.024015E-03	66.67306	9.991998	193.4422	0.9999944		0.998	
Titanium	1.868825E-04	66.77464	2.146238	151.6518	0.9999725		0.998	
Vanadium	3.991525E-05	66.72311	1.647155	108.1449	0.9999956		0.998	
Zinc	5.270575E-03	66.66695	0.8455175	112.4177	1		0.998	
Aluminum	1.5638E-05	66.67483	2.801948	148.9232	0.9999999		0.998	
Antimony	4.800825E-04	66.69112	182.7523	199.1177	0.9999998		0.998	
Arsenic	1.90655E-04	66.80229	10.55875	188.0281	0.9999786		0.998	
Barium	0.0084586	66.755	0.7354725	99.47636	0.9999961		0.998	
Beryllium	2.27775E-03	66.76751	11.21491	179.1461	0.9999588		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	kirtland_023	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1237002		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	8/22/11 13:01	8/22/11 13:32

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	1.1631E-05	66.77197	3.43657	151.5637	0.9997915		0.998	
Cadmium	1.205925E-02	66.70105	5.323067	186.3451	0.9999883		0.998	
Calcium	4.963986E-05	66.80577	4.005742	156.4421	0.9999641		0.998	
Chromium	3.82275E-05	66.69974	0.865665	39.12218	0.9999998		0.998	
Cobalt	4.135675E-03	66.68014	1.32365	149.4586	0.9999944		0.998	
Copper	5.6331E-05	66.87613	1.01595	30.34736	0.9999814		0.998	
Iron	1.47446E-05	66.867	29.40728	195.1792	0.9999991		0.998	
Lead	0.0010396	66.71622	8.84881	189.5615	0.9999875		0.998	
Magnesium	2.008325E-06	66.72783	27.47614	197.9024	0.9999524		0.998	
Manganese	2.215475E-04	66.75699	5.327967	168.1125	0.9999925		0.998	
Molybdenum	2.82015E-03	66.68349	3.809087	175.8441	0.9999989		0.998	
Nickel	2.37615E-03	66.7075	1.170095	137.6955	0.9999932		0.998	
Potassium	9.33175E-06	69.9771	1.646375	108.173	0.9999994		0.998	
Selenium	3.0636E-04	66.66929	5.266905	180.409	0.9999993		0.998	
Silver	4.386375E-05	66.75714	10.94836	185.548	0.9998544		0.998	
Sodium	3.32945E-05	66.74321	15.78381	186.4258	0.9999524		0.998	
Strontium	1.28925E-03	66.73254	4.992875	159.6898	0.999979		0.998	
Thallium	5.5356E-04	66.67886	5.8605	183.5205	0.9999989		0.998	
Tin	1.024015E-03	66.67306	9.991998	193.4422	0.9999944		0.998	
Titanium	1.868825E-04	66.77464	2.146238	151.6518	0.9999725		0.998	
Vanadium	3.991525E-05	66.72311	1.647155	108.1449	0.9999956		0.998	
Zinc	5.270575E-03	66.66695	0.8455175	112.4177	1		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1241002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/17/11 12:53 8/17/11 13:26

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.0144E-05	10000	1.9992E-05			500000	2.0056E-05		
Antimony	0	0	100	0.0006815	1000	0.0006984					10000	6.9821E-04
Arsenic	0	0	100	0.00028	1000	2.9473E-04					10000	0.0002974
Barium	0	0	50	0.0121962	1000	0.011442	5000	0.0117764				
Beryllium	0	0	100	0.0031465	1000	0.0030853					10000	0.003118
Boron	0	0	50	0.0000166	1000	1.676E-05					5000	1.7036E-05
Cadmium	0	0	100	0.017066	1000	0.016867					10000	0.016243
Calcium	0	0	1100	0.0000711	50000	6.7896E-05					10000	
Chromium	0	0	100	0.000054	1000	5.111E-05					10000	5.3764E-05
Cobalt	0	0	100	0.005998	1000	0.0058173					10000	0.0059491
Copper	0	0	100	0.0000841	1000	0.0000791					10000	8.0632E-05
Iron	0	0	5100	2.201765E-05	10000	2.0301E-05			500000	0.0000206	10000	
Lead	0	0	100	0.0014727	1000	0.0014135					10000	0.0014407
Magnesium	0	0	5100		50000	2.6366E-06			500000	2.7574E-06	10000	
Manganese	0	0	100	0.0002593	1000	0.0002473	10000	2.5405E-04			10000	
Molybdenum	0	0	100	0.0034328	1000	0.0034775					10000	0.0035325
Nickel	0	0	100	0.0032162	1000	0.0032041					10000	0.0032831
Potassium	0	0	1000	7.53E-06	10000	8.738E-06						
Selenium	0	0	100	0.0003506	1000	3.5305E-04					10000	3.5099E-04
Silver	0	0	20	0.0000485	500	4.792E-05	2000	5.343E-05				
Sodium	0	0	1000		50000	4.3278E-05						
Strontium	0	0	100	0.001811	1000	0.001752					10000	0.001797
Thallium	0	0	100	0.0007908	1000	7.7491E-04					10000	7.8624E-04
Tin	0	0	50	0.0011218	1000	0.0011085					5000	1.12696E-03
Titanium	0	0	100	0.0002585	1000	2.4718E-04					10000	2.5494E-04
Vanadium	0	0	100	0.0000463	1000	4.457E-05					10000	4.6724E-05
Zinc	0	0	100	0.0053784	1000	0.0053084					10000	0.0053341

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1241002	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/17/11 12:53 8/17/11 13:26

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	6.5824E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.5825E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	8.9884E-06										
Selenium												
Silver												
Sodium	100000	4.2714E-05	500000	4.288E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	kirtland_023	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1241002		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	8/17/11 12:53	8/17/11 13:26

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.5048E-05	66.66795	13.82097	192.7158	1		0.998	
Antimony	5.195275E-04	66.68411	51.39754	198.0163	0.9999999		0.998	
Arsenic	2.180325E-04	66.75896	48.97189	197.1064	0.9999994		0.998	
Barium	8.85365E-03	66.7577	1.95464	154.2463	0.9999625		0.998	
Beryllium	2.33745E-03	66.67525	21.08735	197.1029	0.9999988		0.998	
Boron	1.2599E-05	66.68199	5.436135	178.4984	0.999988		0.998	
Cadmium	0.012544	66.72523	8.132035	191.8671	0.9999868		0.998	
Calcium	5.1205E-05	66.80128	2.9796	170.3722	0.9999906		0.998	
Chromium	3.97185E-05	66.74824	9.744148	189.6892	0.9999756		0.998	
Cobalt	0.0044411	66.68881	1.625203	169.1783	0.9999947		0.998	
Copper	6.0958E-05	66.75491	1.47641	143.4431	0.9999948		0.998	
Iron	1.572966E-05	66.83641	12.29124	183.5982	0.9999993		0.998	
Lead	1.081725E-03	66.70417	7.745803	191.4197	0.9999958		0.998	
Magnesium	1.994125E-06	66.76742	22.51665	195.9519	0.9998472		0.998	
Manganese	1.901625E-04	66.71669	4.890675	181.9338	0.9999923		0.998	
Molybdenum	0.0026107	66.68496	17.32015	196.2508	0.9999979		0.998	
Nickel	2.42585E-03	66.68205	1.21127	153.1301	0.999995		0.998	
Potassium	6.3141E-06	67.42506	2.134327	97.02118	0.9999982		0.998	
Selenium	2.6366E-04	66.66791	5.50438	174.7735	0.9999997		0.998	
Silver	3.74625E-05	66.99245	7.368565	179.7488	0.9992748		0.998	
Sodium	3.2218E-05	66.67072	3.670925	175.9897	0.9999977		0.998	
Strontium	0.00134	66.69312	1.204425	105.3152	0.9999936		0.998	
Thallium	5.879875E-04	66.67635	11.82688	192.4139	0.999998		0.998	
Tin	8.39315E-04	66.6731	1.619222	173.274	0.9999891		0.998	
Titanium	1.90155E-04	66.71298	2.651285	167.7926	0.9999897		0.998	
Vanadium	3.43985E-05	66.72166	2.569635	149.1592	0.9999786		0.998	
Zinc	4.005225E-03	66.67058	2.540462	177.3379	0.9999997		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0155-R

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-01
Sampled:	08/08/11 11:33	Received:	08/09/11 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	SM4500NH3BG	1H11014	08/15/11 11:50
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	1H12011	08/12/11 11:56
10-09-3	Alkalinity, Bicarbonate (as CACO3)	111	1.00	1.00	1.00	1		SM2320B	1H22913	08/22/11 09:25
16887-00-6	Chloride	27.1	0.170	0.330	1.00	1	M	E300.0	1H09024	08/10/11 01:54
NA	Nitrate/Nitrite as N	0.520	0.250	0.750	1.50	1	J	E353.2	1H16010	08/16/11 12:11
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H22913	08/22/11 09:25
14808-79-8	Sulfate as SO4	58.4	0.330	1.00	2.00	1		E300.0	1H09024	08/10/11 01:54

ANALYSIS DATA SHEET

GW0156-R

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-03
Sampled:	08/08/11 11:54	Received:	08/09/11 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	SM4500NH3BG	1H16003	08/17/11 08:59
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	1H12011	08/12/11 11:57
10-09-3	Alkalinity, Bicarbonate (as CACO3)	82.4	1.00	1.00	1.00	1		SM2320B	1H22913	08/22/11 09:35
16887-00-6	Chloride	74.0	0.170	0.330	1.00	1	M	E300.0	1H09024	08/10/11 02:11
NA	Nitrate/Nitrite as N	3.15	0.250	0.750	1.50	1		E353.2	1H16010	08/16/11 12:12
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H22913	08/22/11 09:35
14808-79-8	Sulfate as SO4	64.0	0.330	1.00	2.00	1		E300.0	1H09024	08/10/11 02:11

ANALYSIS DATA SHEET

GW0176

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-05
Sampled:	08/08/11 14:51	Received:	08/09/11 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	SM4500NH3BG	1H16003	08/17/11 08:59
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	1H12011	08/12/11 11:58
10-09-3	Alkalinity, Bicarbonate (as CACO3)	202	1.00	1.00	1.00	1		SM2320B	1H22913	08/22/11 09:47
16887-00-6	Chloride	8.44	0.170	0.330	1.00	1	M	E300.0	1H09024	08/10/11 03:56
NA	Nitrate/Nitrite as N	0.455	0.250	0.750	1.50	1	J	E353.2	1H16010	08/16/11 12:14
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H22913	08/22/11 09:47
14808-79-8	Sulfate as SO4	25.5	0.330	1.00	2.00	1		E300.0	1H09024	08/10/11 03:56

ANALYSIS DATA SHEET

GW8023-RB

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108110-07
Sampled:	08/08/11 08:41	Received:	08/09/11 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	SM4500NH3BG	1H16003	08/17/11 09:00
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	1H12011	08/12/11 12:19
10-09-3	Alkalinity, Bicarbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H22913	08/22/11 10:00
16887-00-6	Chloride		0.170	0.330	1.00	1	M U	E300.0	1H09024	08/10/11 04:13
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1H16010	08/16/11 12:15
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H22913	08/22/11 10:00
14808-79-8	Sulfate as SO4		0.330	1.00	2.00	1	U	E300.0	1H09024	08/10/11 04:13

ANALYSIS DATA SHEET

GW0162

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-01
Sampled:	08/09/11 12:47	Received:	08/10/11 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	SM4500NH3BG	1H16003	08/17/11 09:01
18496-25-8	Sulfide	0.741	0.741	1.85	3.70	1	J	SM4500S2CF	1H12011	08/12/11 12:20
10-09-3	Alkalinity, Bicarbonate (as CACO3)	84.5	1.00	1.00	1.00	1		SM2320B	1H22913	08/22/11 10:05
16887-00-6	Chloride	77.5	0.170	0.330	1.00	1	M	E300.0	1H10019	08/10/11 21:44
NA	Nitrate/Nitrite as N	2.28	0.250	0.750	1.50	1		E353.2	1H16010	08/16/11 12:17
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H22913	08/22/11 10:05
14808-79-8	Sulfate as SO4	111	0.330	1.00	2.00	1		E300.0	1H10019	08/10/11 21:44

ANALYSIS DATA SHEET

GW0244

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108126-03
Sampled:	08/08/11 15:46	Received:	08/10/11 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	SM4500NH3BG	1H16003	08/17/11 09:02
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	1H12011	08/12/11 12:21
10-09-3	Alkalinity, Bicarbonate (as CACO3)	114	1.00	1.00	1.00	1		SM2320B	1H22913	08/22/11 10:10
16887-00-6	Chloride	9.40	0.170	0.330	1.00	1	M	E300.0	1H10019	08/10/11 22:02
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1H16010	08/16/11 12:18
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H22913	08/22/11 10:10
14808-79-8	Sulfate as SO4	27.4	0.330	1.00	2.00	1		E300.0	1H10019	08/10/11 22:02

ANALYSIS DATA SHEET

GW0160

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-01
Sampled:	08/10/11 10:46	Received:	08/11/11 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	SM4500NH3BG	1H16003	08/17/11 09:05
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	1H17008	08/17/11 12:29
10-09-3	Alkalinity, Bicarbonate (as CACO3)	94.8	1.00	1.00	1.00	1		SM2320B	1H24005	08/24/11 10:00
16887-00-6	Chloride	25.2	0.170	0.330	1.00	1	M	E300.0	1H16011	08/16/11 17:50
NA	Nitrate/Nitrite as N	0.589	0.250	0.750	1.50	1	J	E353.2	1H16010	08/16/11 12:22
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H24005	08/24/11 10:00
14808-79-8	Sulfate as SO4	55.5	0.330	1.00	2.50	1	M	E300.0	1H16011	08/16/11 17:50

ANALYSIS DATA SHEET

GW0191

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108138-02
Sampled:	08/10/11 12:32	Received:	08/11/11 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	SM4500NH3BG	1H16003	08/17/11 09:06
18496-25-8	Sulfide	0.690	0.690	1.72	3.45	1	J	SM4500S2CF	1H17008	08/17/11 12:31
10-09-3	Alkalinity, Bicarbonate (as CACO3)	92.7	1.00	1.00	1.00	1		SM2320B	1H24005	08/24/11 10:30
16887-00-6	Chloride	6.72	0.170	0.330	1.00	1	M	E300.0	1H16011	08/16/11 16:40
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1H16010	08/16/11 12:27
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H24005	08/24/11 10:30
14808-79-8	Sulfate as SO4	26.6	0.330	1.00	2.50	1	M	E300.0	1H16011	08/16/11 16:40

ANALYSIS DATA SHEET

GW0161

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-01
Sampled:	08/10/11 14:55	Received:	08/12/11 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	SM4500NH3BG	1H16003	08/17/11 09:09
18496-25-8	Sulfide	0.678	0.678	1.69	3.39	1	J	SM4500S2CF	1H17008	08/17/11 12:32
10-09-3	Alkalinity, Bicarbonate (as CACO3)	89.4	1.00	1.00	1.00	1		SM2320B	1H24005	08/24/11 10:35
16887-00-6	Chloride	67.9	0.170	0.330	1.00	1	M	E300.0	1H16011	08/16/11 16:57
NA	Nitrate/Nitrite as N	1.98	0.250	0.750	1.50	1		E353.2	1H16010	08/16/11 12:30
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H24005	08/24/11 10:35
14808-79-8	Sulfate as SO4	111	0.330	1.00	2.50	1	M	E300.0	1H16011	08/16/11 16:57

ANALYSIS DATA SHEET

GW0177

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-03
Sampled:	08/11/11 14:20	Received:	08/12/11 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	SM4500NH3BG	1H16003	08/17/11 09:12
18496-25-8	Sulfide		0.690	1.72	3.45	1	U	SM4500S2CF	1H17008	08/17/11 12:33
10-09-3	Alkalinity, Bicarbonate (as CACO3)	155	1.00	1.00	1.00	1		SM2320B	1H24005	08/24/11 10:40
16887-00-6	Chloride	7.87	0.170	0.330	1.00	1	M	E300.0	1H16011	08/16/11 17:15
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1H16010	08/16/11 12:31
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H24005	08/24/11 10:40
14808-79-8	Sulfate as SO4	21.5	0.330	1.00	2.50	1	M	E300.0	1H16011	08/16/11 17:15

ANALYSIS DATA SHEET

GW0178

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-05
Sampled:	08/11/11 11:36	Received:	08/12/11 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	SM4500NH3BG	1H16003	08/17/11 09:13
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	1H17008	08/17/11 12:34
10-09-3	Alkalinity, Bicarbonate (as CACO3)	105	1.00	1.00	1.00	1		SM2320B	1H24005	08/24/11 10:47
16887-00-6	Chloride	6.71	0.170	0.330	1.00	1	M	E300.0	1H16011	08/16/11 17:32
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1H16010	08/16/11 12:33
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H24005	08/24/11 10:47
14808-79-8	Sulfate as SO4	26.6	0.330	1.00	2.50	1	M	E300.0	1H16011	08/16/11 17:32

ANALYSIS DATA SHEET

GW0180

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-07
Sampled:	08/11/11 11:46	Received:	08/12/11 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	SM4500NH3BG	1H16003	08/17/11 09:14
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	1H17008	08/17/11 12:34
10-09-3	Alkalinity, Bicarbonate (as CACO3)	89.0	1.00	1.00	1.00	1		SM2320B	1H24005	08/24/11 10:53
16887-00-6	Chloride	46.3	0.170	0.330	1.00	1	M	E300.0	1H16011	08/16/11 19:34
NA	Nitrate/Nitrite as N	1.11	0.250	0.750	1.50	1	J	E353.2	1H16010	08/16/11 12:34
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H24005	08/24/11 10:53
14808-79-8	Sulfate as SO4	73.3	0.330	1.00	2.50	1	M	E300.0	1H16011	08/16/11 19:34

ANALYSIS DATA SHEET

GW0181

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108152-09
Sampled:	08/11/11 11:46	Received:	08/12/11 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	SM4500NH3BG	1H16003	08/17/11 09:15
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	1H17008	08/17/11 12:35
10-09-3	Alkalinity, Bicarbonate (as CACO3)	85.3	1.00	1.00	1.00	1		SM2320B	1H24005	08/24/11 11:00
16887-00-6	Chloride	46.8	0.170	0.330	1.00	1	M	E300.0	1H16011	08/16/11 19:52
NA	Nitrate/Nitrite as N	1.11	0.250	0.750	1.50	1	J	E353.2	1H16010	08/16/11 12:36
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H24005	08/24/11 11:00
14808-79-8	Sulfate as SO4	74.3	0.330	1.00	2.50	1	M	E300.0	1H16011	08/16/11 19:52

ANALYSIS DATA SHEET

GW0179

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108166-01
Sampled:	08/12/11 11:17	Received:	08/13/11 09:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1H16003	08/17/11 09:16
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	1H17008	08/17/11 12:36
10-09-3	Alkalinity, Bicarbonate (as CACO3)	65.5	1.00	1.00	1.00	1		SM2320B	1H24005	08/24/11 11:05
16887-00-6	Chloride	98.9	0.170	0.330	1.00	1	M	E300.0	1H16011	08/16/11 20:09
NA	Nitrate/Nitrite as N	3.19	0.250	0.750	1.50	1		E353.2	1H16010	08/16/11 12:37
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H24005	08/24/11 11:05
14808-79-8	Sulfate as SO4	361	1.65	5.00	10.0	5	D	E300.0	1H18013	08/18/11 19:48

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

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

SDG: kirtland_023
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%
	Sulfate as SO4	24.00	23.63	98.5	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_023
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1H22303

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H22303-CCV1	Chloride	25.00	25.65	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.09	100	mg/L	+/- 10.00%
1H22303-CCV2	Chloride	25.00	26.28	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.92	104	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_023
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1H22305

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H22305-CCV1	Chloride	25.00	26.09	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.64	103	mg/L	+/- 10.00%
1H22305-CCV2	Chloride	25.00	26.28	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.85	103	mg/L	+/- 10.00%
1H22305-CCV3	Chloride	25.00	26.38	106	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.09	104	mg/L	+/- 10.00%
1H22305-CCV4	Chloride	25.00	26.30	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.86	103	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_023
Project: Kirtland AFB 2011
Calibration: 1227003
Sequence: 1H22705

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H22705-ICV1	Ammonia as N	2.000	2.157	108	mg/L	+/- 10.00%
1H22705-CCV1	Ammonia as N	2.000	2.153	108	mg/L	+/- 10.00%
1H22705-CCV2	Ammonia as N	2.000	2.169	108	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E353.2

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

SDG: kirtland_023
Project: Kirtland AFB 2011
Calibration: 1228001
Sequence: 1H22806

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H22806-ICV1	Nitrate/Nitrite as N	1.200	1.201	100	mg/L	+/- 10.00%
1H22806-CCV1	Nitrate/Nitrite as N	1.200	1.155	96.2	mg/L	+/- 10.00%
1H22806-CCV2	Nitrate/Nitrite as N	1.200	1.143	95.2	mg/L	+/- 10.00%
1H22806-CCV3	Nitrate/Nitrite as N	1.200	1.126	93.8	mg/L	+/- 10.00%
1H22806-CCV4	Nitrate/Nitrite as N	1.200	1.121	93.4	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_023
Project: Kirtland AFB 2011
Calibration: 1229001
Sequence: 1H22901

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H22901-ICV1	Ammonia as N	2.000	2.152	108	mg/L	+/- 10.00%
1H22901-CCV1	Ammonia as N	2.000	2.142	107	mg/L	+/- 10.00%
1H22901-CCV2	Ammonia as N	2.000	2.130	106	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_023
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1H23005

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23005-CCV1	Chloride	25.00	24.46	97.9	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.23	96.9	mg/L	+/- 10.00%
1H23005-CCV2	Chloride	25.00	24.41	97.7	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.35	97.4	mg/L	+/- 10.00%
1H23005-CCV3	Chloride	25.00	24.58	98.3	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.61	98.4	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_023
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1H23524

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23524-CCV1	Sulfate as SO4	25.00	23.39	93.5	mg/L	+/- 10.00%
1H23524-CCV2	Sulfate as SO4	25.00	24.60	98.4	mg/L	+/- 10.00%
1H23524-CCV3	Sulfate as SO4	25.00	24.69	98.8	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1124002

Sequence: 1H22303

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H22303-CRL1	Chloride	1.000	1.181	118	mg/L	75 - 125
	Sulfate as SO4	1.000	1.019	102	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1124002

Sequence: 1H22305

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H22305-CRL1	Chloride	1.000	1.200	120	mg/L	75 - 125
	Sulfate as SO4	1.000	1.042	104	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1124002

Sequence: 1H23005

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23005-CRL1	Chloride	1.000	0.8050	80.5	mg/L	75 - 125
1H23005-CRL2	Sulfate as SO4	2.500	2.190	87.6	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1124002

Sequence: 1H23524

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23524-CRL1	Sulfate as SO4	1.000	0.7950	79.5	mg/L	75 - 125

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H09024

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H09024-BLK1	Chloride	-0.124	0.170	0.500	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_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H10019

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H10019-BLK1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H11014

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H11014-BLK1	Ammonia as N	0.0266	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H12011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H12011-BLK1	Sulfide	0.640	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H16003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H16003-BLK1	Ammonia as N	0.00666	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H16010

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H16010-BLK1	Nitrate/Nitrite as N	-0.00291	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H16011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H16011-BLK1	Chloride	0.00	0.170	0.500	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_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H17008

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H17008-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H18013

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H18013-BLK1	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H22913

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H22913-BLK1	Alkalinity, Total (as CACO3)	-0.412	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H24005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H24005-BLK1	Alkalinity, Total (as CACO3)	-0.824	1.00	1.00	mg/L	U	SM2320B

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
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
	Sulfate as SO4	0.000	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1H22303
Calibration: 1124002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H22303-CCB1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1H22303-CCB2	Chloride	0.00	0.170	0.500	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_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1H22305
Calibration: 1124002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H22305-CCB1	Chloride	-0.138	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1H22305-CCB2	Chloride	0.0570	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1H22305-CCB3	Chloride	-0.0890	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1H22305-CCB4	Chloride	-0.159	0.170	0.500	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_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1H22705
Calibration: 1227003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H22705-ICB1	Ammonia as N	-0.01129	0.110	0.300	mg/L	U	SM4500NH3BG
1H22705-CCB1	Ammonia as N	-0.0115	0.110	0.300	mg/L	U	SM4500NH3BG
1H22705-CCB2	Ammonia as N	-0.0157	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1H22806
Calibration: 1228001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H22806-ICB1	Nitrate/Nitrite as N	-0.007947	0.0500	0.300	mg/L	U	E353.2
1H22806-CCB1	Nitrate/Nitrite as N	-0.00828	0.0500	0.300	mg/L	U	E353.2
1H22806-CCB2	Nitrate/Nitrite as N	-0.00744	0.0500	0.300	mg/L	U	E353.2
1H22806-CCB3	Nitrate/Nitrite as N	-0.0110	0.0500	0.300	mg/L	U	E353.2
1H22806-CCB4	Nitrate/Nitrite as N	-0.0114	0.0500	0.300	mg/L	U	E353.2

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1H22901
Calibration: 1229001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H22901-ICB1	Ammonia as N	-0.004181	0.110	0.300	mg/L	U	SM4500NH3BG
1H22901-CCB1	Ammonia as N	-0.0125	0.110	0.300	mg/L	U	SM4500NH3BG
1H22901-CCB2	Ammonia as N	-0.00728	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1H23005
Calibration: 1124002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23005-CCB1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1H23005-CCB2	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1H23005-CCB3	Chloride	0.00	0.170	0.500	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_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1H23524
Calibration: 1124002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23524-CCB1	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1H23524-CCB2	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1H23524-CCB3	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0156-R

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H09024

% Solids:

Source Sample Name: **1108110-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	73.99	101.1	97.4		80 - 120
Sulfate as SO4	27.78	63.98	91.25	98.2		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	100.4	95.2	0.622		20	80 - 120
Sulfate as SO4	27.78	90.51	95.5	0.808		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0244

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H10019

% Solids:

Source Sample Name: **1108126-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	9.395	37.12	99.8		80 - 120
Sulfate as SO4	27.78	27.36	54.51	97.7		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	37.19	100	0.179		20	80 - 120
Sulfate as SO4	27.78	54.89	99.1	0.693		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H16003

% Solids:

Source Sample Name: **1108138-01**

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	5.092	102		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Ammonia as N	5.000	5.090	102	0.0393		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H16010

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	0.5890	2.832	89.7		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate/Nitrite as N	2.500	2.806	88.7	0.922		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H16011

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	25.18	52.77	99.3		80 - 120
Sulfate as SO4	27.78	55.49	82.50	97.2		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	53.13	101	0.680		20	80 - 120
Sulfate as SO4	27.78	83.05	99.2	0.667		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500S2CF

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H17008

% Solids:

Source Sample Name: **1108138-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfide	1200	ND	1350	112		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1200	1404	117	3.92		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0160

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H24005

% Solids:

Source Sample Name: **1108138-01**

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	94.76	213.3	107		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	212.0	105	0.646		20	75 - 125

GW0156-R

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1H09024
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0156-R

SDG: kirtland_023
Project: Kirtland AFB 2011
Laboratory ID: 1H09024-DUP2
Lab Source ID: 1108110-03
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	74.0	74.00	0.0122		E300.0
Sulfate as SO4	20	64.0	64.09	0.176		E300.0

GW0244

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1H10019
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0244

SDG: kirtland_023
Project: Kirtland AFB 2011
Laboratory ID: 1H10019-DUP1
Lab Source ID: 1108126-03
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	9.40	9.576	1.91		E300.0
Sulfate as SO4	20	27.4	27.64	0.993		E300.0

GW0160

DUPLICATES

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1H16011
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0160

SDG: kirtland_023
Project: Kirtland AFB 2011
Laboratory ID: 1H16011-DUP1
Lab Source ID: 1108138-01
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	25.2	24.99	0.745		E300.0
Sulfate as SO4	20	55.5	55.20	0.515		E300.0

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H09024	Laboratory ID:	1H09024-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	4.803	100	90 - 110
Sulfate as SO4	24.00	23.61	98.4	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H10019	Laboratory ID:	1H10019-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	4.739	98.7	90 - 110
Sulfate as SO4	24.00	22.99	95.8	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H11014	Laboratory ID:	1H11014-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.969	99.4	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12011	Laboratory ID:	1H12011-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1200	1184	98.6	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1200	1300	108	9.39	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H16003	Laboratory ID:	1H16003-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.870	97.4	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H16010	Laboratory ID:	1H16010-BS1
Preparation:	pNone	Initial/Final:	1 mL / 20 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate/Nitrite as N	32.00	28.78	89.9	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H16011	Laboratory ID:	1H16011-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	4.942	103	90 - 110
Sulfate as SO4	24.00	23.88	99.5	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H17008	Laboratory ID:	1H17008-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1200	1284	107	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H18013	Laboratory ID:	1H18013-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	23.41	97.6	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H22913	Laboratory ID:	1H22913-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	1018	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H24005	Laboratory ID:	1H24005-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	1020	102	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_023

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_023

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
Sulfate as SO4	0.330	2.00	mg/L	E300.0

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_023
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: WC-Lachat

Analyte	MDL	MRL	Units	Method
Nitrate/Nitrite as N	0.0500	0.300	mg/L	E353.2
Ammonia as N	0.110	0.300	mg/L	SM4500NH3BG

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H09024 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0155-R	1108110-01	08/09/11 14:57	5.00	5.00
GW0156-R	1108110-03	08/09/11 14:57	5.00	5.00
GW0176	1108110-05	08/09/11 14:57	5.00	5.00
GW8023-RB	1108110-07	08/09/11 14:57	5.00	5.00
Blank	1H09024-BLK1	08/09/11 14:57	5.00	5.00
LCS	1H09024-BS1	08/09/11 14:57	5.00	5.00
GW0156-R	1H09024-DUP2	08/09/11 14:57	5.00	5.00
GW0156-R	1H09024-MS2	08/09/11 14:57	22.50	25.00
GW0156-R	1H09024-MSD2	08/09/11 14:57	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H10019 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0162	1108126-01	08/09/11 14:57	5.00	5.00
GW0244	1108126-03	08/09/11 14:57	5.00	5.00
Blank	1H10019-BLK1	08/10/11 16:19	5.00	5.00
LCS	1H10019-BS1	08/10/11 16:19	5.00	5.00
GW0244	1H10019-DUP1	08/10/11 16:19	5.00	5.00
GW0244	1H10019-MS1	08/10/11 16:19	22.50	25.00
GW0244	1H10019-MSD1	08/10/11 16:19	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H11014 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0155-R	1108110-01	08/11/11 12:19	100.00	100.00
Blank	1H11014-BLK1	08/11/11 12:19	100.00	100.00
LCS	1H11014-BS1	08/11/11 12:19	100.00	100.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H12011 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0155-R	1108110-01	08/12/11 09:01	290.00	200.00
GW0156-R	1108110-03	08/12/11 09:01	290.00	200.00
GW0176	1108110-05	08/12/11 09:01	295.00	200.00
GW8023-RB	1108110-07	08/12/11 09:01	295.00	200.00
GW0162	1108126-01	08/12/11 09:01	270.00	200.00
GW0244	1108126-03	08/12/11 09:01	295.00	200.00
Blank	1H12011-BLK1	08/12/11 09:01	250.00	200.00
LCS	1H12011-BS1	08/12/11 09:01	3.00	250.00
LCS Dup	1H12011-BSD1	08/12/11 09:01	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H16003 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0156-R	1108110-03	08/16/11 07:25	100.00	100.00
GW0176	1108110-05	08/16/11 07:25	100.00	100.00
GW8023-RB	1108110-07	08/16/11 07:25	100.00	100.00
GW0162	1108126-01	08/16/11 07:25	100.00	100.00
GW0244	1108126-03	08/16/11 07:25	100.00	100.00
GW0160	1108138-01	08/16/11 07:25	100.00	100.00
GW0191	1108138-02	08/16/11 07:25	100.00	100.00
GW0161	1108152-01	08/16/11 07:25	100.00	100.00
GW0177	1108152-03	08/16/11 07:25	100.00	100.00
GW0178	1108152-05	08/16/11 07:25	100.00	100.00
GW0180	1108152-07	08/16/11 07:25	100.00	100.00
GW0181	1108152-09	08/16/11 07:25	100.00	100.00
GW0179	1108166-01	08/16/11 07:25	100.00	100.00
Blank	1H16003-BLK1	08/16/11 07:25	100.00	100.00
LCS	1H16003-BS1	08/16/11 07:25	100.00	100.00
GW0160	1H16003-MS1	08/16/11 07:25	100.00	100.00
GW0160	1H16003-MSD1	08/16/11 07:25	100.00	100.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H16010 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0155-R	1108110-01	08/16/11 11:48	4.00	20.00
GW0156-R	1108110-03	08/16/11 11:48	4.00	20.00
GW0176	1108110-05	08/16/11 11:48	4.00	20.00
GW8023-RB	1108110-07	08/16/11 11:48	4.00	20.00
GW0162	1108126-01	08/16/11 11:48	4.00	20.00
GW0244	1108126-03	08/16/11 11:48	4.00	20.00
GW0160	1108138-01	08/16/11 11:48	4.00	20.00
GW0191	1108138-02	08/16/11 11:48	4.00	20.00
GW0161	1108152-01	08/16/11 11:48	4.00	20.00
GW0177	1108152-03	08/16/11 11:48	4.00	20.00
GW0178	1108152-05	08/16/11 11:48	4.00	20.00
GW0180	1108152-07	08/16/11 11:48	4.00	20.00
GW0181	1108152-09	08/16/11 11:48	4.00	20.00
GW0179	1108166-01	08/16/11 11:48	4.00	20.00
Blank	1H16010-BLK1	08/16/11 11:48	20.00	20.00
LCS	1H16010-BS1	08/16/11 11:48	1.00	20.00
GW0160	1H16010-MS1	08/16/11 11:48	4.00	20.00
GW0160	1H16010-MSD1	08/16/11 11:48	4.00	20.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H16011 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0160	1108138-01	08/16/11 12:18	5.00	5.00
GW0191	1108138-02	08/16/11 12:18	5.00	5.00
GW0161	1108152-01	08/16/11 12:18	5.00	5.00
GW0177	1108152-03	08/16/11 12:18	5.00	5.00
GW0178	1108152-05	08/16/11 12:18	5.00	5.00
GW0180	1108152-07	08/16/11 12:18	5.00	5.00
GW0181	1108152-09	08/16/11 12:18	5.00	5.00
GW0179	1108166-01	08/16/11 12:18	5.00	5.00
Blank	1H16011-BLK1	08/16/11 12:18	5.00	5.00
LCS	1H16011-BS1	08/16/11 12:18	5.00	5.00
GW0160	1H16011-DUP1	08/16/11 12:18	5.00	5.00
GW0160	1H16011-MS1	08/16/11 12:18	22.50	25.00
GW0160	1H16011-MSD1	08/16/11 12:18	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H17008 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0160	1108138-01	08/17/11 11:03	270.00	200.00
GW0191	1108138-02	08/17/11 11:03	290.00	200.00
GW0161	1108152-01	08/17/11 11:03	295.00	200.00
GW0177	1108152-03	08/17/11 11:03	290.00	200.00
GW0178	1108152-05	08/17/11 11:03	270.00	200.00
GW0180	1108152-07	08/17/11 11:03	295.00	200.00
GW0181	1108152-09	08/17/11 11:03	270.00	200.00
GW0179	1108166-01	08/17/11 11:03	270.00	200.00
Blank	1H17008-BLK1	08/17/11 11:03	250.00	200.00
LCS	1H17008-BS1	08/17/11 11:03	3.00	250.00
GW0160	1H17008-MS1	08/17/11 11:03	3.00	270.00
GW0160	1H17008-MSD1	08/17/11 11:03	3.00	270.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H18013 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0179	1108166-01RE1	08/16/11 12:18	5.00	5.00
Blank	1H18013-BLK1	08/18/11 12:06	5.00	5.00
LCS	1H18013-BS1	08/18/11 12:06	5.00	5.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H22913 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0155-R	1108110-01	08/22/11 07:22	25.00	25.00
GW0156-R	1108110-03	08/22/11 07:22	25.00	25.00
GW0176	1108110-05	08/22/11 07:22	25.00	25.00
GW8023-RB	1108110-07	08/22/11 07:22	25.00	25.00
GW0162	1108126-01	08/22/11 07:22	25.00	25.00
GW0244	1108126-03	08/22/11 07:22	25.00	25.00
Blank	1H22913-BLK1	08/22/11 07:22	25.00	25.00
LCS	1H22913-BS1	08/22/11 07:22	5.00	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_023

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

Batch: 1H24005 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0160	1108138-01	08/24/11 08:49	25.00	25.00
GW0191	1108138-02	08/24/11 08:49	25.00	25.00
GW0161	1108152-01	08/24/11 08:49	25.00	25.00
GW0177	1108152-03	08/24/11 08:49	25.00	25.00
GW0178	1108152-05	08/24/11 08:49	25.00	25.00
GW0180	1108152-07	08/24/11 08:49	25.00	25.00
GW0181	1108152-09	08/24/11 08:49	25.00	25.00
GW0179	1108166-01	08/24/11 08:49	25.00	25.00
Blank	1H24005-BLK1	08/24/11 08:49	25.00	25.00
LCS	1H24005-BS1	08/24/11 08:49	5.00	25.00
GW0160	1H24005-MS1	08/24/11 08:49	22.50	25.00
GW0160	1H24005-MSD1	08/24/11 08:49	22.50	25.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1H22913-BS1	082211-003	08/22/11 09:10
Blank	1H22913-BLK1	082211-004	08/22/11 09:15
LCS	1H24005-BS1	082411-003	08/24/11 09:45
Blank	1H24005-BLK1	082411-004	08/24/11 09:55
GW0160	1H24005-MS1	082411-013	08/24/11 11:09
GW0160	1H24005-MSD1	082411-014	08/24/11 11:15

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_023

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1H12011-BS1	081211-002	08/12/11 11:50
LCS Dup	1H12011-BSD1	081211-003	08/12/11 11:52
Blank	1H12011-BLK1	081211-004	08/12/11 11:54
LCS	1H17008-BS1	081711-002	08/17/11 12:25
Blank	1H17008-BLK1	081711-003	08/17/11 12:26
GW0160	1H17008-MS1	081711-005	08/17/11 12:27
GW0160	1H17008-MSD1	081711-006	08/17/11 12:28

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
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

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22303	Instrument:	WC-IC
Calibration:	1124002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H22303-CCV1	081011-002	08/10/11 17:41
Calibration Blank	1H22303-CCB1	081011-003	08/10/11 17:58
Instrument RL Check	1H22303-CRL1	081011-004	08/10/11 18:15
LCS	1H10019-BS1	081011-006	08/10/11 18:50
Blank	1H10019-BLK1	081011-007	08/10/11 19:08
GW0162	1108126-01	081011-016	08/10/11 21:44
GW0244	1108126-03	081011-017	08/10/11 22:02
GW0244	1H10019-MS1	081011-018	08/10/11 22:19
GW0244	1H10019-MSD1	081011-019	08/10/11 22:37
GW0244	1H10019-DUP1	081011-020	08/10/11 22:54
Calibration Check	1H22303-CCV2	081011-021	08/10/11 23:11
Calibration Blank	1H22303-CCB2	081011-022	08/10/11 23:29

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22305	Instrument:	WC-IC
Calibration:	1124002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H22305-CCV1	080911-002	08/09/11 18:56
Calibration Blank	1H22305-CCB1	080911-003	08/09/11 19:13
Instrument RL Check	1H22305-CRL1	080911-004	08/09/11 19:31
LCS	1H09024-BS1	080911-006	08/09/11 20:05
Blank	1H09024-BLK1	080911-007	08/09/11 20:23
Calibration Check	1H22305-CCV2	080911-019	08/09/11 23:52
Calibration Blank	1H22305-CCB2	080911-020	08/10/11 00:09
GW0155-R	1108110-01	080911-026	08/10/11 01:54
GW0156-R	1108110-03	080911-027	08/10/11 02:11
GW0156-R	1H09024-MS2	080911-028	08/10/11 02:29
GW0156-R	1H09024-MSD2	080911-029	08/10/11 02:46
GW0156-R	1H09024-DUP2	080911-030	08/10/11 03:03
Calibration Check	1H22305-CCV3	080911-031	08/10/11 03:21
Calibration Blank	1H22305-CCB3	080911-032	08/10/11 03:38
GW0176	1108110-05	080911-033	08/10/11 03:56
GW8023-RB	1108110-07	080911-034	08/10/11 04:13
Calibration Check	1H22305-CCV4	080911-037	08/10/11 05:05
Calibration Blank	1H22305-CCB4	080911-038	08/10/11 05:23

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22705	Instrument:	WC-Lachat
Calibration:	1227003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H22705-CAL1	M_8-15-2011_11-16-38AM-00	08/15/11 11:18
Cal Standard	1H22705-CAL2	M_8-15-2011_11-16-38AM-00	08/15/11 11:19
Cal Standard	1H22705-CAL3	M_8-15-2011_11-16-38AM-00	08/15/11 11:19
Cal Standard	1H22705-CAL4	M_8-15-2011_11-16-38AM-00	08/15/11 11:20
Cal Standard	1H22705-CAL5	M_8-15-2011_11-16-38AM-00	08/15/11 11:21
Cal Standard	1H22705-CAL6	M_8-15-2011_11-16-38AM-00	08/15/11 11:22
Cal Standard	1H22705-CAL7	M_8-15-2011_11-16-38AM-00	08/15/11 11:23
Cal Standard	1H22705-CAL8	M_8-15-2011_11-16-38AM-00	08/15/11 11:24
Initial Cal Check	1H22705-ICV1	M_8-15-2011_11-16-38AM-00	08/15/11 11:25
Initial Cal Blank	1H22705-ICB1	M_8-15-2011_11-16-38AM-01	08/15/11 11:26
Blank	1H11014-BLK1	M_8-15-2011_11-16-38AM-01	08/15/11 11:27
LCS	1H11014-BS1	M_8-15-2011_11-16-38AM-01	08/15/11 11:28
Calibration Check	1H22705-CCV1	M_8-15-2011_11-16-38AM-02	08/15/11 11:40
Calibration Blank	1H22705-CCB1	M_8-15-2011_11-16-38AM-02	08/15/11 11:41
GW0155-R	1108110-01	M_8-15-2011_11-16-38AM-03	08/15/11 11:50
Calibration Check	1H22705-CCV2	M_8-15-2011_11-16-38AM-03	08/15/11 11:52
Calibration Blank	1H22705-CCB2	M_8-15-2011_11-16-38AM-03	08/15/11 11:53

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22806	Instrument:	WC-Lachat
Calibration:	1228001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H22806-CAL1	M_8-16-2011_11-02-00AM-00	08/16/11 11:03
Cal Standard	1H22806-CAL2	M_8-16-2011_11-02-00AM-00	08/16/11 11:04
Cal Standard	1H22806-CAL3	M_8-16-2011_11-02-00AM-00	08/16/11 11:05
Cal Standard	1H22806-CAL4	M_8-16-2011_11-02-00AM-00	08/16/11 11:07
Cal Standard	1H22806-CAL5	M_8-16-2011_11-02-00AM-00	08/16/11 11:08
Cal Standard	1H22806-CAL6	M_8-16-2011_11-02-00AM-00	08/16/11 11:10
Cal Standard	1H22806-CAL7	M_8-16-2011_11-02-00AM-00	08/16/11 11:11
Cal Standard	1H22806-CAL8	M_8-16-2011_11-02-00AM-00	08/16/11 11:13
Initial Cal Check	1H22806-ICV1	M_8-16-2011_11-02-00AM-00	08/16/11 11:14
Initial Cal Blank	1H22806-ICB1	M_8-16-2011_11-02-00AM-01	08/16/11 11:16
Calibration Check	1H22806-CCV1	M_8-16-2011_11-02-00AM-02	08/16/11 11:39
Calibration Blank	1H22806-CCB1	M_8-16-2011_11-02-00AM-02	08/16/11 11:40
Calibration Check	1H22806-CCV2	M_8-16-2011_11-02-00AM-04	08/16/11 11:59
Calibration Blank	1H22806-CCB2	M_8-16-2011_11-02-00AM-04	08/16/11 12:01
Blank	1H16010-BLK1	M_8-16-2011_11-02-00AM-04	08/16/11 12:02
LCS	1H16010-BS1	M_8-16-2011_11-02-00AM-04	08/16/11 12:04
GW0155-R	1108110-01	M_8-16-2011_11-02-00AM-04	08/16/11 12:11
GW0156-R	1108110-03	M_8-16-2011_11-02-00AM-04	08/16/11 12:12
GW0176	1108110-05	M_8-16-2011_11-02-00AM-05	08/16/11 12:14
GW8023-RB	1108110-07	M_8-16-2011_11-02-00AM-05	08/16/11 12:15
GW0162	1108126-01	M_8-16-2011_11-02-00AM-05	08/16/11 12:17
GW0244	1108126-03	M_8-16-2011_11-02-00AM-05	08/16/11 12:18
Calibration Check	1H22806-CCV3	M_8-16-2011_11-02-00AM-05	08/16/11 12:20
Calibration Blank	1H22806-CCB3	M_8-16-2011_11-02-00AM-05	08/16/11 12:21
GW0160	1108138-01	M_8-16-2011_11-02-00AM-05	08/16/11 12:22
GW0160	1H16010-MS1	M_8-16-2011_11-02-00AM-05	08/16/11 12:24
GW0160	1H16010-MSD1	M_8-16-2011_11-02-00AM-05	08/16/11 12:25
GW0191	1108138-02	M_8-16-2011_11-02-00AM-05	08/16/11 12:27
GW0161	1108152-01	M_8-16-2011_11-02-00AM-06	08/16/11 12:30
GW0177	1108152-03	M_8-16-2011_11-02-00AM-06	08/16/11 12:31
GW0178	1108152-05	M_8-16-2011_11-02-00AM-06	08/16/11 12:33
GW0180	1108152-07	M_8-16-2011_11-02-00AM-06	08/16/11 12:34

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22806	Instrument:	WC-Lachat
Calibration:	1228001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0181	1108152-09	M_8-16-2011_11-02-00AM-06	08/16/11 12:36
GW0179	1108166-01	M_8-16-2011_11-02-00AM-06	08/16/11 12:37
Calibration Check	1H22806-CCV4	M_8-16-2011_11-02-00AM-06	08/16/11 12:38
Calibration Blank	1H22806-CCB4	M_8-16-2011_11-02-00AM-06	08/16/11 12:40

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H22901	Instrument:	WC-Lachat
Calibration:	1229001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H22901-CAL1	M_8-17-2011_08-46-23AM-00	08/17/11 08:47
Cal Standard	1H22901-CAL2	M_8-17-2011_08-46-23AM-00	08/17/11 08:48
Cal Standard	1H22901-CAL3	M_8-17-2011_08-46-23AM-00	08/17/11 08:49
Cal Standard	1H22901-CAL4	M_8-17-2011_08-46-23AM-00	08/17/11 08:50
Cal Standard	1H22901-CAL5	M_8-17-2011_08-46-23AM-00	08/17/11 08:51
Cal Standard	1H22901-CAL6	M_8-17-2011_08-46-23AM-00	08/17/11 08:52
Cal Standard	1H22901-CAL7	M_8-17-2011_08-46-23AM-00	08/17/11 08:53
Cal Standard	1H22901-CAL8	M_8-17-2011_08-46-23AM-00	08/17/11 08:54
Initial Cal Check	1H22901-ICV1	M_8-17-2011_08-46-23AM-00	08/17/11 08:55
Initial Cal Blank	1H22901-ICB1	M_8-17-2011_08-46-23AM-01	08/17/11 08:56
Blank	1H16003-BLK1	M_8-17-2011_08-46-23AM-01	08/17/11 08:57
LCS	1H16003-BS1	M_8-17-2011_08-46-23AM-01	08/17/11 08:58
GW0176	1108110-05	M_8-17-2011_08-46-23AM-01	08/17/11 08:59
GW0156-R	1108110-03	M_8-17-2011_08-46-23AM-01	08/17/11 08:59
GW8023-RB	1108110-07	M_8-17-2011_08-46-23AM-01	08/17/11 09:00
GW0162	1108126-01	M_8-17-2011_08-46-23AM-01	08/17/11 09:01
GW0244	1108126-03	M_8-17-2011_08-46-23AM-01	08/17/11 09:02
GW0160	1H16003-MS1	M_8-17-2011_08-46-23AM-01	08/17/11 09:03
GW0160	1H16003-MSD1	M_8-17-2011_08-46-23AM-01	08/17/11 09:04
GW0160	1108138-01	M_8-17-2011_08-46-23AM-02	08/17/11 09:05
GW0191	1108138-02	M_8-17-2011_08-46-23AM-02	08/17/11 09:06
GW0161	1108152-01	M_8-17-2011_08-46-23AM-02	08/17/11 09:09
Calibration Check	1H22901-CCV1	M_8-17-2011_08-46-23AM-02	08/17/11 09:10
Calibration Blank	1H22901-CCB1	M_8-17-2011_08-46-23AM-02	08/17/11 09:11
GW0177	1108152-03	M_8-17-2011_08-46-23AM-02	08/17/11 09:12
GW0178	1108152-05	M_8-17-2011_08-46-23AM-02	08/17/11 09:13
GW0180	1108152-07	M_8-17-2011_08-46-23AM-02	08/17/11 09:14
GW0181	1108152-09	M_8-17-2011_08-46-23AM-03	08/17/11 09:15
GW0179	1108166-01	M_8-17-2011_08-46-23AM-03	08/17/11 09:16
Calibration Check	1H22901-CCV2	M_8-17-2011_08-46-23AM-03	08/17/11 09:19
Calibration Blank	1H22901-CCB2	M_8-17-2011_08-46-23AM-03	08/17/11 09:20

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23005	Instrument:	WC-IC
Calibration:	1124002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H23005-CCV1	081611-002	08/16/11 14:21
Calibration Blank	1H23005-CCB1	081611-003	08/16/11 14:38
Instrument RL Check	1H23005-CRL1	081611-004	08/16/11 14:55
Instrument RL Check	1H23005-CRL2	081611-005	08/16/11 15:13
LCS	1H16011-BS1	081611-006	08/16/11 15:30
Blank	1H16011-BLK1	081611-007	08/16/11 15:48
GW0191	1108138-02	081611-010	08/16/11 16:40
GW0161	1108152-01	081611-011	08/16/11 16:57
GW0177	1108152-03	081611-012	08/16/11 17:15
GW0178	1108152-05	081611-013	08/16/11 17:32
GW0160	1108138-01	081611-014	08/16/11 17:50
GW0160	1H16011-MS1	081611-015	08/16/11 18:07
GW0160	1H16011-MSD1	081611-016	08/16/11 18:25
GW0160	1H16011-DUP1	081611-017	08/16/11 18:42
Calibration Check	1H23005-CCV2	081611-018	08/16/11 18:59
Calibration Blank	1H23005-CCB2	081611-019	08/16/11 19:17
GW0180	1108152-07	081611-020	08/16/11 19:34
GW0181	1108152-09	081611-021	08/16/11 19:52
GW0179	1108166-01	081611-022	08/16/11 20:09
Calibration Check	1H23005-CCV3	081611-025	08/16/11 21:01
Calibration Blank	1H23005-CCB3	081611-026	08/16/11 21:19

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_023
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23524	Instrument:	WC-IC
Calibration:	1124002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H23524-CCV1	081811-002	08/18/11 13:25
Calibration Blank	1H23524-CCB1	081811-003	08/18/11 13:42
Instrument RL Check	1H23524-CRL1	081811-004	08/18/11 14:00
LCS	1H18013-BS1	081811-006	08/18/11 14:34
Blank	1H18013-BLK1	081811-007	08/18/11 14:52
Calibration Check	1H23524-CCV2	081811-018	08/18/11 18:03
Calibration Blank	1H23524-CCB2	081811-019	08/18/11 18:21
GW0179	1108166-01RE1	081811-024	08/18/11 19:48
Calibration Check	1H23524-CCV3	081811-028	08/18/11 20:57
Calibration Blank	1H23524-CCB3	081811-029	08/18/11 21:15