ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_024

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

SUBMITTAL TO:
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Original Report Date: September 22, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 516

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

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

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Sample Delivery Group Case Narrative

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

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

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

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

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

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

SW8260B:
The batch spike associated to batch 1H20001 exceeded recovery criteria with a positive bias for Acetone, Benzene, Chloroethane, 1,2-Dichloropropane, and Hexachlorobutadiene and exceeded relative percent difference criteria for all compounds due to the batch spike and batch spike duplicate being spiked at different concentrations. The batch spikes associated to batches 1H23519 and 1H25013 exceeded criteria with a positive bias for Acetone.

1H20001-BSD1 was analyzed 12 hours 32 minutes and sample 1108210-01 was analyzed 12 hours 4 minutes after the associated tune standard. The next tune

1H23702-TUN1 that was analyzed on the instrument VOA4, which sample 1108210-01 was analyzed on was analyzed at the first opportunity without maintenance and documents continued instrument conformance.

The continuing calibration verifications exceeded criteria 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 and in 1H23805-CCV1 and 1H23807-CCV1 exceeded criteria with a negative bias for Bromomethane.

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 1H12020-BLK1, 1H16013-BLK1, -BSD1, 1108174-01, -03, and 1108181-01.

The batch spikes associated to batch 1H12020 exceeded recovery criteria with a negative bias for Caprolactam, a positive bias for Butylbenzylphthalate and Bis(2-ethylhexyl)phthalate, Dibenzofuran, and Di-n-octylphthalate, and exceeded relative percent difference criteria for 4-Chloroaniline, 4-Nitrophenol, and Phenol. The batch spikes associated to batch 1H16013 exceeded recovery criteria with a positive bias Butylbenzylphthlate, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate, with a negative bias for Caprolactam, 2-Methylphenol, 4-Chloro-3-methylphenol, 2,4-Dichlorophenol, 2,4,6-Trichlorophenol, and 2,4,5-Trichlorophenol. The batch spike associated to batch 1H17011 exceeded criteria with a negative bias for Caprolactam and with a positive bias for Butylbenzylphthalate, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate.

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

The continuing calibration verifications exceeded criteria in 1H25004-CCV1 and 1I25109-CCV with a positive bias for Benzidine, Benzo(b)fluoranthene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate, in 1I25210-CCV1 with a positive bias for Benzidine, Benzo(b)fluoranthene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, 2-Chloronaphthalene,Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate, in 1I25508-CCV1 with a positive bias for Benzidine and with a negative ebias for Benzaldehyde and Benzoic Acid, in 1I25812-CCV1 with a positive bias for Benzidine, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate and with a negative bias for 2,2'-Oxybis-1-chloropropane, in 1I25914-CCV1 with a positive bias for Benzidine, Benzo(b)fluoranthene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Di-n-octylphthalate, and Bis(2-ethylhexyl)phthalate and with a negative bias for 2,2'-Oxybis-1-chloropropane, and in 1I26217-CCV1 with a negative bias for 2,2'-Oxybis-1-chloropropane and with a positive bias for Benzo(b)fluoranthene,

2-Chloronaphthalene, 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 continuing calibration verifications 1I24510405-CCV1, -CCV3, 1I25604-CCV1, and –CCV2 exceeded criteria with a negative bias for o-Terphenyl.

The surrogate o-Terphenyl exceeded the retention time window in 1108174-01 and 1108205-03. The result bias due to the retention time shift was determined to be negligible for all affected samples.

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

SW8011 EDB:
The continuing calibration verifications exceeded criteria in 1H23604-CCV2, 1H24105-CCV1 and –CCV2 with a positive bias on column 1 for 1,2-Dibromoethane.

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

SW6010B:
The continuing calibration verification 1H23613-CCV4 exceeded criteria with a positive bias for Calcium and Sodium and with a negative bias for Lead.

The continuing calibration blank 1I24510-CCB4 has a positive result for Sodium.

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

Wet Chemistry:
Samples 1108174-01, -03, -05, 1108181-01, 1108205-01, -03, -05, 1108210-01 and -03 are qualified with an M for Chloride (1.0mg/L) and samples 1108174-01 and -03 are qualified with an M for Sulfate as SO4 (2.5mg/L) to indicate that the LOQ was raised to the level indicated 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.

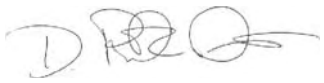
BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible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

Shaw
Shaw E & I, Inc.

1108174

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW094

11

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

Samples Shipment Date: 15 AUG 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/483306615071

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) SHAW / Daniel Medina Date: 8/15/11 Time: 1600
1. Received By (Signature/Affiliation) Date: Time:
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: 8/16/11 Time: 08 30

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 GW0173-R	KAFB-106027-WG-GW0173-R-REG	15 AUG 2011	11:53	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
GW0173-R	KAFB-106027-WG-GW0173-R-REG	15 AUG 2011	11:53	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0173-R	KAFB-106027-WG-GW0173-R-REG	15 AUG 2011	11:53	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0173-R	KAFB-106027-WG-GW0173-R-REG	15 AUG 2011	11:53	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0173-R	KAFB-106027-WG-GW0173-R-REG	15 AUG 2011	11:53	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0173-R	KAFB-106027-WG-GW0173-R-REG	15 AUG 2011	11:53	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02 GW0173-R	KAFB-106027-WG-GW0173-R-REG	15 AUG 2011	11:53	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by			Y		

Kirtland_024 Summ Package

Shaw™
Shaw E & I, Inc.

1108174

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW094

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								SW846 6010C					
-01	GW0173-R	KAFB-106027-WG-GW0173-R-REG	15 AUG 2011	11:53	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0173-R	KAFB-106027-WG-GW0173-R-REG	15 AUG 2011	11:53	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0173-R	KAFB-106027-WG-GW0173-R-REG	15 AUG 2011	11:53	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0173-R	KAFB-106027-WG-GW0173-R-REG	15 AUG 2011	11:53	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-03	GW0198	KAFB-106066-WG-GW0198-REG	15 AUG 2011	14:03	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0198	KAFB-106066-WG-GW0198-REG	15 AUG 2011	14:03	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0198	KAFB-106066-WG-GW0198-REG	15 AUG 2011	14:03	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0198	KAFB-106066-WG-GW0198-REG	15 AUG 2011	14:03	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0198	KAFB-106066-WG-GW0198-REG	15 AUG 2011	14:03	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0198	KAFB-106066-WG-GW0198-REG	15 AUG 2011	14:03	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0198	KAFB-106066-WG-GW0198-REG	15 AUG 2011	14:03	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0198	KAFB-106066-WG-GW0198-REG	15 AUG 2011	14:03	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-04	GW0198	KAFB-106066-WG-GW0198-REG	15 AUG 2011	14:03	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-03	GW0198	KAFB-106066-WG-GW0198-REG	15 AUG 2011	14:03	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0198	KAFB-106066-WG-GW0198-REG	15 AUG 2011	14:03	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-04	GW8094-TB	FIELDQC-BW-GW8094-TB-TB	15 AUG 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108174 Number of Coolers: 1 of 2

Client: SNAM Project: Kirtland AFB

Date/Time Received: 8/16/11 0830 Date cooler(s) opened: 8/16/11

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: 5082

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

How many: 1 Seal date: 8-15-11 Seal Initials: DC

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: 8-16-11

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

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

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

* ph < 2 for all Ammonia, Metals, NO_2 + NO_3 containers

* ph > 9 for all sulfides

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108174 Number of Coolers: 2 of 2

Client: Shaw E&I Project: Kirtland AFB

Date/Time Received: 8-16-11 08:40 Date cooler(s) opened: 8-16-11

Opened By (print): Chris Donal (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: CP 8-16-11 ~~5076~~ 5071

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

How many: 1 Seal date: 8-15-11 Seal Initials: DC

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

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.4 °C Correction Factor: +1.4 °C Final Value: 2.8 °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 2

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW095

15

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

Samples Shipment Date: 16 AUG 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306615093

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] Date: 8-16-11 Time: 1500hrs
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) [signature] 3.2°C Date: 8-17-11 Time: 08:30

Comments:

1108181

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0197	KAFB-106065-WG-GW0197-REG	16 AUG 2011	10:22	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0197	KAFB-106065-WG-GW0197-REG	16 AUG 2011	10:22	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0197	KAFB-106065-WG-GW0197-REG	16 AUG 2011	10:22	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0197	KAFB-106065-WG-GW0197-REG	16 AUG 2011	10:22	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0197	KAFB-106065-WG-GW0197-REG	16 AUG 2011	10:22	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02 GW0197	KAFB-106065-WG-GW0197-REG	16 AUG 2011	10:22	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

Kirtland_024 Summ Package

Shaw™
Shaw E & I, Inc.

1108181

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW095

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0197	KAFB-106065-WG-GW0197-REG	16 AUG 2011	10:22	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0197	KAFB-106065-WG-GW0197-REG	16 AUG 2011	10:22	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0197	KAFB-106065-WG-GW0197-REG	16 AUG 2011	10:22	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0197	KAFB-106065-WG-GW0197-REG	16 AUG 2011	10:22	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
-03	GW8095-TB	FIELDQC-BW-GW8095-TB-TB	16 AUG 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108181 Number of Coolers: 1 of 1

Client: Shaw E&I Project: Kirtland AFB

Date/Time Received: 8-17-11/08:30 Date cooler(s) opened: 8-17-11

Opened By (print): Chris Donald (signature): [signature]

Circle response below as appropriate

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

If applicable, enter airbill number here: 5093

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

How many: 1 Seal date: 8-16-11 Seal Initials: 2

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

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.8 °C Correction Factor: +1.4 °C Final Value: 3.2 °C

Dates samples were logged-in: 8-17-11

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

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

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

* pH < 2 for all metals, ammonia + NO_2 + NO_3 samples.

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW090-TB

18

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

Samples Shipment Date: 17 AUG 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306615108

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) Carlos Jolle Shaw Eco Date: 8/17/11 Time: 1517
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Reginald Talley 2.6 Date: 8.18.11 Time: 08:30

Comments:

1108205

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0215	KAFB-106081-WG-GW0215-REG	17 AUG 2011	11:28	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0215	KAFB-106081-WG-GW0215-REG	17 AUG 2011	11:28	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0215	KAFB-106081-WG-GW0215-REG	17 AUG 2011	11:28	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0215	KAFB-106081-WG-GW0215-REG	17 AUG 2011	11:28	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0215	KAFB-106081-WG-GW0215-REG	17 AUG 2011	11:28	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
-02	GW0215	KAFB-106081-WG-GW0215-REG	17 AUG 2011	11:28	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01	GW0215	KAFB-106081-WG-GW0215-REG	17 AUG 2011	11:28	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		

Kirtland_024 Summ Package

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW090-TB

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0215	KAFB-106081-WG-GW0215-REG	17 AUG 2011	11:28	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0215	KAFB-106081-WG-GW0215-REG	17 AUG 2011	11:28	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0215	KAFB-106081-WG-GW0215-REG	17 AUG 2011	11:28	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0215	KAFB-106081-WG-GW0215-REG	17 AUG 2011	11:28	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
03	GW0230	KAFB-106095-WG-GW0230-REG	16 AUG 2011	15:13	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0230	KAFB-106095-WG-GW0230-REG	16 AUG 2011	15:13	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0230	KAFB-106095-WG-GW0230-REG	16 AUG 2011	15:13	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0230	KAFB-106095-WG-GW0230-REG	16 AUG 2011	15:13	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
04	GW0230	KAFB-106095-WG-GW0230-REG	16 AUG 2011	15:13	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
03	GW0230	KAFB-106095-WG-GW0230-REG	16 AUG 2011	15:13	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0230	KAFB-106095-WG-GW0230-REG	16 AUG 2011	15:13	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0230	KAFB-106095-WG-GW0230-REG	16 AUG 2011	15:13	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0230	KAFB-106095-WG-GW0230-REG	16 AUG 2011	15:13	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0230	KAFB-106095-WG-GW0230-REG	16 AUG 2011	15:13	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0230	KAFB-106095-WG-GW0230-REG	16 AUG 2011	15:13	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
05	GW0231	KAFB-106095-WG-GW0231-FD	16 AUG 2011	15:13	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0231	KAFB-106095-WG-GW0231-FD	16 AUG 2011	15:13	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0231	KAFB-106095-WG-GW0231-FD	16 AUG 2011	15:13	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0231	KAFB-106095-WG-GW0231-FD	16 AUG 2011	15:13	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0231	KAFB-106095-WG-GW0231-FD	16 AUG 2011	15:13	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0231	KAFB-106095-WG-GW0231-FD	16 AUG 2011	15:13	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0231	KAFB-106095-WG-GW0231-FD	16 AUG 2011	15:13	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0231	KAFB-106095-WG-GW0231-FD	16 AUG 2011	15:13	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
06	GW0231	KAFB-106095-WG-GW0231-FD	16 AUG 2011	15:13	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
05	GW0231	KAFB-106095-WG-GW0231-FD	16 AUG 2011	15:13	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW090-TB

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-07 GW8096-TB	FIELDQC-BW-GW8096-TB-TB	17 AUG 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108205 Number of Coolers: 1 of 3

Client: Shaw Project: Kirtland AFB

Date/Time Received: 8.18.11 0830 Date cooler(s) opened: 8.18.11 0

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: 5108

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

How many: 1 Seal date: 8.17.11 Seal Initials: ?

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

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.2 °C Correction Factor: +1.4 °C Final Value: 2.6 °C

Dates samples were logged-in: 8.18.11

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

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108205 Number of Coolers: 2 of 3

Client: Shaw Project: Kirtland

Date/Time Received: 8.18.11 0830 Date cooler(s) opened: 8.18.11

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: 5119

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

How many: 1 Seal date: 8.17.11 Seal Initials: ?

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

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.9 °C Correction Factor: +1.4 °C Final Value: 3.3 °C

Dates samples were logged-in: 8.18.11

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: 1108205 Number of Coolers: 3 of 3

Client: Shaw Project: Kirtland

Date/Time Received: 8.18.11 0830 Date cooler(s) opened: 8.18.11

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: 5120

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

How many: 1 Seal date: 8.17.11 Seal Initials: ?

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

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 2.2 °C Correction Factor: +1.4 °C Final Value: 3.6 °C

Dates samples were logged-in: 8.18.11

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.

1108210

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW097

24

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

Samples Shipment Date: 18 AUG 2011
Lab Destination: Gulf Coast Analytical Laboratories, Inc.
Lab Contact: Dana Merrill
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306615130

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: 8/18/11 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: 8/18/11 Time: 830

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 GW0195	KAFB-106064-WG-GW0195-REG	17 AUG 2011	16:09	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0195	KAFB-106064-WG-GW0195-REG	17 AUG 2011	16:09	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0195	KAFB-106064-WG-GW0195-REG	17 AUG 2011	16:09	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0195	KAFB-106064-WG-GW0195-REG	17 AUG 2011	16:09	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0195	KAFB-106064-WG-GW0195-REG	17 AUG 2011	16:09	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-02 GW0195	KAFB-106064-WG-GW0195-REG	17 AUG 2011	16:09	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

Kirtland_024 Summ Package

Shaw
Shaw E & I, Inc.

110820

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW097

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0195	KAFB-106064-WG-GW0195-REG	17 AUG 2011	16:09	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	~~GW0195~~	~~KAFB-106064-WG-GW0195-REG~~	~~17 AUG 2011~~	~~16:09~~	~~250 mL HDPE~~	~~1~~	~~Zinc Acetate and NaOH>9~~	~~Sulfide by SM4500S-2CF~~			~~N~~		
	GW0195	KAFB-106064-WG-GW0195-REG	17 AUG 2011	16:09	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0195	KAFB-106064-WG-GW0195-REG	17 AUG 2011	16:09	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0195	KAFB-106064-WG-GW0195-REG	17 AUG 2011	16:09	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
03	GW0232	KAFB-106096-WG-GW0232-REG	18 AUG 2011	14:49	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0232	KAFB-106096-WG-GW0232-REG	18 AUG 2011	14:49	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0232	KAFB-106096-WG-GW0232-REG	18 AUG 2011	14:49	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0232	KAFB-106096-WG-GW0232-REG	18 AUG 2011	14:49	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04	GW0232	KAFB-106096-WG-GW0232-REG	18 AUG 2011	14:49	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
03	GW0232	KAFB-106096-WG-GW0232-REG	18 AUG 2011	14:49	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0232	KAFB-106096-WG-GW0232-REG	18 AUG 2011	14:49	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
	GW0232	KAFB-106096-WG-GW0232-REG	18 AUG 2011	14:49	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0232	KAFB-106096-WG-GW0232-REG	18 AUG 2011	14:49	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0232	KAFB-106096-WG-GW0232-REG	18 AUG 2011	14:49	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0232	KAFB-106096-WG-GW0232-REG	18 AUG 2011	14:49	1000 mL A GLASS	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
-05	GW8097-TB	FIELDQC-BW-GW8097-TB-TB	18 AUG 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1108210 Number of Coolers: 1 of 2

Client: SHAW Project: KIRTLAND AFB

Date/Time Received: 8/19/11 0830 Date cooler(s) opened: 8/19/11

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: 5130

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

How many: 1 Seal date: ~~8-18-11~~ 8/18/11 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: 8/19/11

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: 1108210 Number of Coolers: 2 of 2

Client: SHAW Project: KIRTLAND AFB

Date/Time Received: 8/19/11 0830 Date cooler(s) opened: 8/19/11

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: 5141

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

How many: 1 Seal date: 8/18/11 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 °C Correction Factor: +1.4 °C Final Value: 2.4 °C

Dates samples were logged-in: 8/19/11

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: _____

WORK ORDER

1108174

Printed: 9/21/2011 4:17:56PM

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: 09/07/2011 16:00 (15 day TAT)
Received By: Benjamin C. Wright
Logged In By: Benjamin C. Wright

Date Received: 08/16/2011 08:30
Date Logged In 08/16/2011 10:26

Samples Received at: **2.8°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

1108174

Printed: 9/21/2011 4:17:56PM

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
1108174-01 GW0173-R [Water] Sampled 08/15/2011 11:53 Mountain					
SW8015B DRO	09/01/2011 14:00	15	08/22/2011 12:53		
SW8270C	09/01/2011 14:00	15	08/22/2011 12:53		requires 3-Methlphenol/4-Methylphenol
SW8015B GRO	09/01/2011 14:00	15	08/29/2011 12:53		
SW8260B	09/01/2011 14:00	15	08/29/2011 12:53		
SM2320B	09/01/2011 14:00	15	08/29/2011 12:53		carb/bicarb
SW8011	09/01/2011 14:00	15	08/29/2011 12:53		
SM4500NH3BG	09/01/2011 14:00	15	09/12/2011 12:53		
E300.0	09/01/2011 14:00	15	09/12/2011 12:53		Cl, SO4
E353.2	09/01/2011 14:00	15	09/12/2011 12:53		
SM4500S2CF	09/01/2011 14:00	15	08/22/2011 12:53		
SW6010B	09/01/2011 14:00	15	02/11/2012 12:53		Ca, Pb, K, Na, Mg
1108174-02 GW0173-R [Water] Sampled 08/15/2011 11:53 Mountain					
SW6010B	09/01/2011 14:00	15	02/11/2012 12:53		Fe & Mn, Field Filtered and Preserved

WORK ORDER

1108174

Printed: 9/21/2011 4:17:56PM

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
1108174-03 GW0198 [Water] Sampled 08/15/2011 14:03 Mountain					
SW8015B DRO	09/01/2011 14:00	15	08/22/2011 15:03		
SW8011	09/01/2011 14:00	15	08/29/2011 15:03		
SW8270C	09/01/2011 14:00	15	08/22/2011 15:03		requires 3-Methlphenol/4-Methylphenol
SW8015B GRO	09/01/2011 14:00	15	08/29/2011 15:03		
SW8260B	09/01/2011 14:00	15	08/29/2011 15:03		
SM2320B	09/01/2011 14:00	15	08/29/2011 15:03		carb/bicarb
SM4500NH3BG	09/01/2011 14:00	15	09/12/2011 15:03		
E300.0	09/01/2011 14:00	15	09/12/2011 15:03		Cl, SO4
E353.2	09/01/2011 14:00	15	09/12/2011 15:03		
SM4500S2CF	09/01/2011 14:00	15	08/22/2011 15:03		
SW6010B	09/01/2011 14:00	15	02/11/2012 15:03		Ca, Pb, K, Na, Mg
1108174-04 GW0198 [Water] Sampled 08/15/2011 14:03 Mountain					
SW6010B	09/01/2011 14:00	15	02/11/2012 15:03		Fe & Mn, Field Filtered and Preserved
1108174-05 GW9084-TB [Water] Sampled 08/15/2011 08:00 Mountain					
SW8260B	09/01/2011 14:00	15	08/29/2011 09:00		

WORK ORDER

1108181

Printed: 9/21/2011 4:19:35PM

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: 09/08/2011 16:00 (15 day TAT)
Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 08/17/2011 09:41
Date Logged In 08/17/2011 09:41

Samples Received at: **3.2°C**

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

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1108181

Printed: 9/21/2011 4:19:35PM

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
1108181-01 GW0197 [Water] Sampled 08/16/2011 10:22 Mountain					
SM4500S2CF	09/02/2011 14:00	15	08/23/2011 11:22		
E353.2	09/02/2011 14:00	15	09/13/2011 11:22		
E300.0	09/02/2011 14:00	15	09/13/2011 11:22		Cl, SO4
SM4500NH3BG	09/02/2011 14:00	15	09/13/2011 11:22		
SM2320B	09/02/2011 14:00	15	08/30/2011 11:22		carb/bicarb
SW8260B	09/02/2011 14:00	15	08/30/2011 11:22		
SW8015B GRO	09/02/2011 14:00	15	08/30/2011 11:22		
SW8270C	09/02/2011 14:00	15	08/23/2011 11:22		requires 3-Methlphenol/4-Methylphenol, Low Sample Volume
SW8011	09/02/2011 14:00	15	08/30/2011 11:22		
SW8015B DRO	09/02/2011 14:00	15	08/23/2011 11:22		Low Sample Volume
SW6010B	09/02/2011 14:00	15	02/12/2012 11:22		Ca, Pb, K, Na, Mg
1108181-02 GW0197 [Water] Sampled 08/16/2011 10:22 Mountain					**Field Filtered and Preserved**
SW6010B	09/02/2011 14:00	15	02/12/2012 11:22		Fe & Mn, Field Filtered and Preserved
1108181-03 GW8095-TB [Water] Sampled 08/16/2011 08:00 Mountain					
SW8260B	09/02/2011 14:00	15	08/30/2011 09:00		

WORK ORDER

1108205

Printed: 9/21/2011 4:21:04PM

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

Received By: Reginald Talley
Logged In By: Reginald Talley

Date Received: 08/18/2011 08:30
Date Logged In 08/18/2011 13:22

Samples Received at: **2.6°C**

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

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1108205

Printed: 9/21/2011 4:21:04PM

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
1108205-01 GW0215 [Water] Sampled 08/17/2011 11:28 Mountain					
E300.0	09/06/2011 14:00	15	09/14/2011 12:28		Cl, SO4
SW6010B	09/06/2011 14:00	15	02/13/2012 12:28		Ca, Pb, K, Na, Mg
SM4500NH3BG	09/06/2011 14:00	15	09/14/2011 12:28		
E353.2	09/06/2011 14:00	15	09/14/2011 12:28		
SW8015B DRO	09/06/2011 14:00	15	08/24/2011 12:28		LOW SAMPLE VOLUME
SW8011	09/06/2011 14:00	15	08/31/2011 12:28		
SW8270C	09/06/2011 14:00	15	08/24/2011 12:28		requires 3-Methlphenol/4-Methylphenol LOW SAMPLE VOLUME
SW8015B GRO	09/06/2011 14:00	15	08/31/2011 12:28		
SW8260B	09/06/2011 14:00	15	08/31/2011 12:28		
SM2320B	09/06/2011 14:00	15	08/31/2011 12:28		carb/bicarb
SM4500S2CF	09/06/2011 14:00	15	08/24/2011 12:28		
1108205-02 GW0215 [Water] Sampled 08/17/2011 11:28 Mountain					
SW6010B	09/06/2011 14:00	15	02/13/2012 12:28		Fe & Mn, Field Filtered and Preserved

WORK ORDER

1108205

Printed: 9/21/2011 4:21:04PM

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
1108205-03 GW0230 [Water] Sampled 08/16/2011 15:13 Mountain					
SW6010B	09/06/2011 14:00	15	02/12/2012 16:13		Ca, Pb, K, Na, Mg
E300.0	09/06/2011 14:00	15	09/13/2011 16:13		Cl, SO4
E353.2	09/06/2011 14:00	15	09/13/2011 16:13		
SM4500S2CF	09/06/2011 14:00	15	08/23/2011 16:13		
SM2320B	09/06/2011 14:00	15	08/30/2011 16:13		carb/bicarb
SW8260B	09/06/2011 14:00	15	08/30/2011 16:13		
SW8015B GRO	09/06/2011 14:00	15	08/30/2011 16:13		
SW8270C	09/06/2011 14:00	15	08/23/2011 16:13		requires 3-Methlphenol/4-Methylphenol LOW SAMPLE VOLUME
SM4500NH3BG	09/06/2011 14:00	15	09/13/2011 16:13		
SW8015B DRO	09/06/2011 14:00	15	08/23/2011 16:13		LOW SAMPLE VOLUME
SW8011	09/06/2011 14:00	15	08/30/2011 16:13		
1108205-04 GW0230 [Water] Sampled 08/16/2011 15:13 Mountain					
SW6010B	09/06/2011 14:00	15	02/12/2012 16:13		Fe & Mn, Field Filtered and Preserved

WORK ORDER

1108205

Printed: 9/21/2011 4:21:04PM

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
1108205-05 GW0231 [Water] Sampled 08/16/2011 15:13 Mountain					
SW8015B DRO	09/06/2011 14:00	15	08/23/2011 16:13		LOW SAMPLE VOLUME
SW8011	09/06/2011 14:00	15	08/30/2011 16:13		
SW8270C	09/06/2011 14:00	15	08/23/2011 16:13		requires 3-Methlphenol/4-Methylphenol LOW SAMPLE VOLUME
SW8015B GRO	09/06/2011 14:00	15	08/30/2011 16:13		
SW8260B	09/06/2011 14:00	15	08/30/2011 16:13		
SM2320B	09/06/2011 14:00	15	08/30/2011 16:13		carb/bicarb
SM4500NH3BG	09/06/2011 14:00	15	09/13/2011 16:13		
E300.0	09/06/2011 14:00	15	09/13/2011 16:13		Cl, SO4
E353.2	09/06/2011 14:00	15	09/13/2011 16:13		
SM4500S2CF	09/06/2011 14:00	15	08/23/2011 16:13		
SW6010B	09/06/2011 14:00	15	02/12/2012 16:13		Ca, Pb, K, Na, Mg
1108205-06 GW0231 [Water] Sampled 08/16/2011 15:13 Mountain					
SW6010B	09/06/2011 14:00	15	02/12/2012 16:13		Fe & Mn, Field Filtered and Preserved
1108205-07 GW8096-TB [Water] Sampled 08/17/2011 08:00 Mountain					
SW8260B	09/06/2011 14:00	15	08/31/2011 09:00		

WORK ORDER

1108210

Printed: 9/21/2011 4:22:16PM

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: 09/12/2011 16:00 (15 day TAT)
Received By: Benjamin C. Wright
Logged In By: Benjamin C. Wright

Date Received: 08/19/2011 08:30
Date Logged In 08/19/2011 09:28

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

1108210

Printed: 9/21/2011 4:22:16PM

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
1108210-01 GW0195 [Water] Sampled 08/17/2011 16:09 Mountain					
SM4500NH3BG	09/07/2011 14:00	15	09/14/2011 17:09		
SW8015B DRO	09/07/2011 14:00	15	08/24/2011 17:09		
SW8011	09/07/2011 14:00	15	08/31/2011 17:09		
SW8270C	09/07/2011 14:00	15	08/24/2011 17:09		requires 3-Methlphenol/4-Methylphenol
SW8015B GRO	09/07/2011 14:00	15	08/31/2011 17:09		
SW6010B	09/07/2011 14:00	15	02/13/2012 17:09		Ca, Pb, K, Na, Mg
SM2320B	09/07/2011 14:00	15	08/31/2011 17:09		carb/bicarb
E300.0	09/07/2011 14:00	15	09/14/2011 17:09		Cl, SO4
E353.2	09/07/2011 14:00	15	09/14/2011 17:09		
SM4500S2CF	09/07/2011 14:00	15	08/24/2011 17:09		
SW8260B	09/07/2011 14:00	15	08/31/2011 17:09		
1108210-02 GW0195 [Water] Sampled 08/17/2011 16:09 Mountain					
SW6010B	09/07/2011 14:00	15	02/13/2012 17:09		Fe & Mn, Field Filtered and Preserved

WORK ORDER

1108210

Printed: 9/21/2011 4:22:16PM

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
1108210-03 GW0232 [Water] Sampled 08/17/2011 14:49 Mountain					
SW8015B GRO	09/07/2011 14:00	15	08/31/2011 15:49		
SM2320B	09/07/2011 14:00	15	08/31/2011 15:49		carb/bicarb
SW6010B	09/07/2011 14:00	15	02/13/2012 15:49		Ca, Pb, K, Na, Mg
SW8015B DRO	09/07/2011 14:00	15	08/24/2011 15:49		
SW8011	09/07/2011 14:00	15	08/31/2011 15:49		
SW8270C	09/07/2011 14:00	15	08/24/2011 15:49		requires 3-Methlphenol/4-Methylphenol
SW8260B	09/07/2011 14:00	15	08/31/2011 15:49		
SM4500S2CF	09/07/2011 14:00	15	08/24/2011 15:49		
E353.2	09/07/2011 14:00	15	09/14/2011 15:49		
E300.0	09/07/2011 14:00	15	09/14/2011 15:49		Cl, SO4
SM4500NH3BG	09/07/2011 14:00	15	09/14/2011 15:49		
1108210-04 GW0232 [Water] Sampled 08/17/2011 14:49 Mountain					
SW6010B	09/07/2011 14:00	15	02/13/2012 15:49		Fe & Mn, Field Filtered and Preserved
1108210-05 GW8097-TB [Water] Sampled 08/17/2011 08:00 Mountain					
SW8260B	09/07/2011 14:00	15	08/31/2011 09:00		

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: DRAFT Kirtland_024
MATRIX: Water

QC LEVEL: Level IV
Report Due: 9/7/2011 - 9/12/2011
Client Sample Count: 17

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	E353.2	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B
Client Sample	8/15/2011	8/16/2011	1108174-01	GW0173-R	X	X	X	X	X	X
Client Sample	8/15/2011	8/16/2011	1108174-02	GW0173-R						X
Client Sample	8/15/2011	8/16/2011	1108174-03	GW0198	X	X	X	X	X	X
Client Sample	8/15/2011	8/16/2011	1108174-04	GW0198						X
Trip Blank	8/15/2011	8/16/2011	1108174-05	GW9084-TB						
Client Sample	8/16/2011	8/17/2011	1108181-01	GW0197	X	X	X	X	X	X
Client Sample	8/16/2011	8/17/2011	1108181-02	GW0197						Field Filtered and Preserved
Trip Blank	8/16/2011	8/17/2011	1108181-03	GW8095-TB						
Client Sample	8/17/2011	8/18/2011	1108205-01	GW0215	X	X	X	X	X	X
Client Sample	8/17/2011	8/18/2011	1108205-02	GW0215						X
Client Sample	8/16/2011	8/18/2011	1108205-03	GW0230	X	X	X	X	X	X
Client Sample	8/16/2011	8/18/2011	1108205-04	GW0230						X
Client Sample	8/16/2011	8/18/2011	1108205-05	GW0231	X	X	X	X	X	X
Client Sample	8/16/2011	8/18/2011	1108205-06	GW0231						X
Client Sample	8/17/2011	8/18/2011	1108205-07	GW8096-TB						
Client Sample	8/17/2011	8/19/2011	1108210-01	GW0195	X	X	X	X	X	X
Client Sample	8/17/2011	8/19/2011	1108210-02	GW0195						X
Client Sample	8/17/2011	8/19/2011	1108210-03	GW0232	X	X	X	X	X	X
Client Sample	8/17/2011	8/19/2011	1108210-04	GW0232						X
Trip Blank	8/17/2011	8/19/2011	1108210-05	GW8097-TB						

Sample Type	Sampled	Received	Lab ID	Client ID	SW8011	8015B	D/8015B G	SW8260B	SW8270C
Client Sample	8/15/2011	8/16/2011	1108174-01	GW0173-R	X	X	X	X	X
Client Sample	8/15/2011	8/16/2011	1108174-02	GW0173-R					
Client Sample	8/15/2011	8/16/2011	1108174-03	GW0198	X	X	X	X	X
Client Sample	8/15/2011	8/16/2011	1108174-04	GW0198					
Trip Blank	8/15/2011	8/16/2011	1108174-05	GW9084-TB				X	
Client Sample	8/16/2011	8/17/2011	1108181-01	GW0197	X	X	X	X	X
Client Sample	8/16/2011	8/17/2011	1108181-02	GW0197					
Trip Blank	8/16/2011	8/17/2011	1108181-03	GW8095-TB				X	
Client Sample	8/17/2011	8/18/2011	1108205-01	GW0215	X	X	X	X	X
Client Sample	8/17/2011	8/18/2011	1108205-02	GW0215					
Client Sample	8/16/2011	8/18/2011	1108205-03	GW0230	X	X	X	X	X
Client Sample	8/16/2011	8/18/2011	1108205-04	GW0230					
Client Sample	8/16/2011	8/18/2011	1108205-05	GW0231	X	X	X	X	X
Client Sample	8/16/2011	8/18/2011	1108205-06	GW0231					
Client Sample	8/17/2011	8/18/2011	1108205-07	GW8096-TB				X	
Client Sample	8/17/2011	8/19/2011	1108210-01	GW0195	X	X	X	X	X
Client Sample	8/17/2011	8/19/2011	1108210-02	GW0195					
Client Sample	8/17/2011	8/19/2011	1108210-03	GW0232	X	X	X	X	X
Client Sample	8/17/2011	8/19/2011	1108210-04	GW0232					
Trip Blank	8/17/2011	8/19/2011	1108210-05	GW8097-TB				X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0173-R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-01	File ID:	0817401.D
Sampled:	08/15/11 11:53	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 15:44
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	Q, 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, Q, 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	Q, 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

GW0173-R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-01	File ID:	0817401.D
Sampled:	08/15/11 11:53	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 15:44
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	30.95	103	75 - 120	
Dibromofluoromethane	30.00	29.24	97.5	85 - 115	
1,2-Dichloroethane-d4	30.00	29.53	98.4	70 - 120	
Toluene-d8	30.00	30.76	103	85 - 120	

ANALYSIS DATA SHEET

GW0198

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-03	File ID:	0817403.D
Sampled:	08/15/11 14:03	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 16:12
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	5.42	2.50	5.00	10.0	Q, J
71-43-2	Benzene		0.250	0.500	1.00	Q, 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, Q, 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	Q, 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

GW0198

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-03	File ID:	0817403.D
Sampled:	08/15/11 14:03	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 16:12
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	29.79	99.3	75 - 120	
Dibromofluoromethane	30.00	28.60	95.3	85 - 115	
1,2-Dichloroethane-d4	30.00	28.26	94.2	70 - 120	
Toluene-d8	30.00	30.45	101	85 - 120	

ANALYSIS DATA SHEET

GW9084-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108174-05	File ID:	0817405.D
Sampled:	08/15/11 08:00	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 14:19
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	Q, 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, Q, 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	Q, 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

GW9084-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108174-05	File ID:	0817405.D
Sampled:	08/15/11 08:00	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 14:19
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	28.38	94.6	75 - 120	
Dibromofluoromethane	30.00	28.08	93.6	85 - 115	
1,2-Dichloroethane-d4	30.00	29.09	97.0	70 - 120	
Toluene-d8	30.00	29.41	98.0	85 - 120	

ANALYSIS DATA SHEET

GW0197

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-01	File ID:	0818101D.D
Sampled:	08/16/11 10:22	Prepared:	08/25/11 00:00	Analyzed:	08/26/11 04:06
Solids:		Preparation:	5030B	Dilution:	25

Batch: 1H25013 Sequence: 1H23807 Calibration: 1238001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	89.6	62.5	125	250	Q, J, D
71-43-2	Benzene	2060	6.25	12.5	25.0	D
108-86-1	Bromobenzene		6.25	12.5	25.0	U
74-97-5	Bromochloromethane		6.25	12.5	25.0	U
75-27-4	Bromodichloromethane		6.25	12.5	25.0	U
75-25-2	Bromoform		6.25	12.5	25.0	U
74-83-9	Bromomethane		12.5	25.0	50.0	Y, U
104-51-8	n-Butylbenzene		6.25	12.5	25.0	U
78-93-3	2-Butanone		62.5	125	250	U
135-98-8	sec-Butylbenzene		6.25	12.5	25.0	U
98-06-6	tert-Butylbenzene		6.25	12.5	25.0	U
75-15-0	Carbon disulfide		6.25	12.5	25.0	U
56-23-5	Carbon tetrachloride		6.25	12.5	25.0	U
108-90-7	Chlorobenzene		6.25	12.5	25.0	U
75-00-3	Chloroethane		12.5	25.0	50.0	U
67-66-3	Chloroform		6.25	12.5	25.0	U
74-87-3	Chloromethane		6.25	12.5	25.0	U
95-49-8	2-Chlorotoluene		6.25	12.5	25.0	U
106-43-4	4-Chlorotoluene		6.25	12.5	25.0	U
124-48-1	Dibromochloromethane		6.25	12.5	25.0	U
96-12-8	1,2-Dibromo-3-chloropropane		12.5	25.0	50.0	U
106-93-4	1,2-Dibromoethane (EDB)		6.25	12.5	25.0	U
74-95-3	Dibromomethane		6.25	12.5	25.0	U
95-50-1	1,2-Dichlorobenzene		6.25	12.5	25.0	U
541-73-1	1,3-Dichlorobenzene		6.25	12.5	25.0	U
106-46-7	1,4-Dichlorobenzene		6.25	12.5	25.0	U
75-71-8	Dichlorodifluoromethane		12.5	25.0	50.0	U
75-34-3	1,1-Dichloroethane		6.25	12.5	25.0	U
107-06-2	1,2-Dichloroethane		6.25	12.5	25.0	U
75-35-4	1,1-Dichloroethene		6.25	12.5	25.0	U
156-59-2	cis-1,2-Dichloroethene		6.25	12.5	25.0	U
156-60-5	trans-1,2-Dichloroethene		6.25	12.5	25.0	U
78-87-5	1,2-Dichloropropane		6.25	12.5	25.0	U
142-28-9	1,3-Dichloropropane		6.25	12.5	25.0	U
594-20-7	2,2-Dichloropropane		6.25	12.5	25.0	U
563-58-6	1,1-Dichloropropene		6.25	12.5	25.0	U
10061-01-5	cis-1,3-Dichloropropene		6.25	12.5	25.0	U
10061-02-6	trans-1,3-Dichloropropene		6.25	12.5	25.0	U
100-41-4	Ethylbenzene	88.2	6.25	12.5	25.0	D
87-68-3	Hexachlorobutadiene		6.25	12.5	25.0	U

ANALYSIS DATA SHEET

GW0197

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-01	File ID:	0818101D.D
Sampled:	08/16/11 10:22	Prepared:	08/25/11 00:00	Analyzed:	08/26/11 04:06
Solids:		Preparation:	5030B	Dilution:	25

Batch: 1H25013 Sequence: 1H23807 Calibration: 1238001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		31.2	62.5	125	U
98-82-8	Isopropylbenzene	16.8	6.25	12.5	25.0	J, D
99-87-6	p-Isopropyltoluene		6.25	12.5	25.0	U
75-09-2	Methylene chloride		12.5	25.0	50.0	U
91-20-3	Naphthalene	46.8	6.25	12.5	25.0	D
108-10-1	4-Methyl-2-pentanone		31.2	62.5	125	U
1634-04-4	Methyl t-Butyl Ether		6.25	12.5	25.0	U
103-65-1	n-Propylbenzene	11.1	6.25	12.5	25.0	J, D
100-42-5	Styrene		6.25	12.5	25.0	U
79-34-5	1,1,2,2-Tetrachloroethane		6.25	12.5	25.0	U
630-20-6	1,1,1,2-Tetrachloroethane		6.25	12.5	25.0	U
127-18-4	Tetrachloroethene		6.25	12.5	25.0	U
108-88-3	Toluene	10.6	6.25	12.5	25.0	J, D
87-61-6	1,2,3-Trichlorobenzene		6.25	12.5	25.0	U
120-82-1	1,2,4-Trichlorobenzene		6.25	12.5	25.0	U
79-00-5	1,1,2-Trichloroethane		6.25	12.5	25.0	U
71-55-6	1,1,1-Trichloroethane		6.25	12.5	25.0	U
79-01-6	Trichloroethene		6.25	12.5	25.0	U
75-69-4	Trichlorofluoromethane		12.5	25.0	50.0	U
96-18-4	1,2,3-Trichloropropane		12.5	25.0	50.0	U
108-67-8	1,3,5-Trimethylbenzene	36.5	6.25	12.5	25.0	D
95-63-6	1,2,4-Trimethylbenzene	71.3	6.25	12.5	25.0	D
75-01-4	Vinyl chloride		6.25	12.5	25.0	U
108-38-3/106-42-	m,p-Xylene	193	12.5	25.0	50.0	D
95-47-6	o-Xylene		6.25	12.5	25.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.56	98.5	75 - 120	
Dibromofluoromethane	30.00	31.32	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.57	102	70 - 120	
Toluene-d8	30.00	29.41	98.0	85 - 120	

ANALYSIS DATA SHEET

GW8095-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-03	File ID:	0818103.D
Sampled:	08/16/11 08:00	Prepared:	08/25/11 00:00	Analyzed:	08/25/11 20:32
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H25013 Sequence: 1H23807 Calibration: 1238001 Instrument: MS-VOA6

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	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8095-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-03	File ID:	0818103.D
Sampled:	08/16/11 08:00	Prepared:	08/25/11 00:00	Analyzed:	08/25/11 20:32
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H25013 Sequence: 1H23807 Calibration: 1238001 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.32	97.7	75 - 120	
Dibromofluoromethane	30.00	31.37	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.56	102	70 - 120	
Toluene-d8	30.00	29.33	97.8	85 - 120	

ANALYSIS DATA SHEET

GW0215

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-01	File ID:	0820501.D
Sampled:	08/17/11 11:28	Prepared:	08/24/11 00:00	Analyzed:	08/24/11 10:48
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H23519 Sequence: 1H23805 Calibration: 1238001 Instrument: MS-VOA6

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	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0215

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-01	File ID:	0820501.D
Sampled:	08/17/11 11:28	Prepared:	08/24/11 00:00	Analyzed:	08/24/11 10:48
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H23519 Sequence: 1H23805 Calibration: 1238001 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.38	98.0	75 - 120	
Dibromofluoromethane	30.00	31.55	105	85 - 115	
1,2-Dichloroethane-d4	30.00	29.89	99.6	70 - 120	
Toluene-d8	30.00	29.01	96.7	85 - 120	

ANALYSIS DATA SHEET

GW0230

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-03	File ID:	0820503.D
Sampled:	08/16/11 15:13	Prepared:	08/24/11 00:00	Analyzed:	08/24/11 13:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H23519 Sequence: 1H23805 Calibration: 1238001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	7.88	2.50	5.00	10.0	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	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	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	1.19	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0230

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-03	File ID:	0820503.D
Sampled:	08/16/11 15:13	Prepared:	08/24/11 00:00	Analyzed:	08/24/11 13:55
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H23519 Sequence: 1H23805 Calibration: 1238001 Instrument: MS-VOA6

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	0.444	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	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	29.37	97.9	75 - 120	
Dibromofluoromethane	30.00	31.38	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.62	102	70 - 120	
Toluene-d8	30.00	28.86	96.2	85 - 120	

ANALYSIS DATA SHEET

GW0231

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-05	File ID:	0820505.D
Sampled:	08/16/11 15:13	Prepared:	08/24/11 00:00	Analyzed:	08/24/11 14:22
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H23519 Sequence: 1H23805 Calibration: 1238001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	5.99	2.50	5.00	10.0	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	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	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	2.63	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	1.13	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0231

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-05	File ID:	0820505.D
Sampled:	08/16/11 15:13	Prepared:	08/24/11 00:00	Analyzed:	08/24/11 14:22
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H23519 Sequence: 1H23805 Calibration: 1238001 Instrument: MS-VOA6

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	0.440	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	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	29.27	97.6	75 - 120	
Dibromofluoromethane	30.00	31.38	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.51	102	70 - 120	
Toluene-d8	30.00	28.76	95.9	85 - 120	

ANALYSIS DATA SHEET

GW8096-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-07	File ID:	0820507.D
Sampled:	08/17/11 08:00	Prepared:	08/24/11 00:00	Analyzed:	08/24/11 09:27
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H23519 Sequence: 1H23805 Calibration: 1238001 Instrument: MS-VOA6

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	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8096-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-07	File ID:	0820507.D
Sampled:	08/17/11 08:00	Prepared:	08/24/11 00:00	Analyzed:	08/24/11 09:27
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1H23519 Sequence: 1H23805 Calibration: 1238001 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.95	99.8	75 - 120	
Dibromofluoromethane	30.00	31.22	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.19	101	70 - 120	
Toluene-d8	30.00	29.87	99.6	85 - 120	

ANALYSIS DATA SHEET

GW0195

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-01	File ID:	0821001D.D
Sampled:	08/17/11 16:09	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 21:51
Solids:		Preparation:	5030B	Dilution:	10

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

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	553	25.0	50.0	100	Q, D
71-43-2	Benzene	956	2.50	5.00	10.0	Q, D
108-86-1	Bromobenzene		2.50	5.00	10.0	U
74-97-5	Bromochloromethane		2.50	5.00	10.0	U
75-27-4	Bromodichloromethane		2.50	5.00	10.0	U
75-25-2	Bromoform		2.50	5.00	10.0	U
74-83-9	Bromomethane		5.00	10.0	20.0	U
104-51-8	n-Butylbenzene		2.50	5.00	10.0	X, U
78-93-3	2-Butanone	159	25.0	50.0	100	D
135-98-8	sec-Butylbenzene		2.50	5.00	10.0	U
98-06-6	tert-Butylbenzene		2.50	5.00	10.0	U
75-15-0	Carbon disulfide	4.80	2.50	5.00	10.0	X, J, D
56-23-5	Carbon tetrachloride		2.50	5.00	10.0	U
108-90-7	Chlorobenzene	6.33	2.50	5.00	10.0	J, D
75-00-3	Chloroethane		5.00	10.0	20.0	X, Q, U
67-66-3	Chloroform		2.50	5.00	10.0	U
74-87-3	Chloromethane		2.50	5.00	10.0	X, U
95-49-8	2-Chlorotoluene		2.50	5.00	10.0	U
106-43-4	4-Chlorotoluene		2.50	5.00	10.0	U
124-48-1	Dibromochloromethane		2.50	5.00	10.0	U
96-12-8	1,2-Dibromo-3-chloropropane		5.00	10.0	20.0	U
106-93-4	1,2-Dibromoethane (EDB)	57.6	2.50	5.00	10.0	D
74-95-3	Dibromomethane		2.50	5.00	10.0	U
95-50-1	1,2-Dichlorobenzene		2.50	5.00	10.0	U
541-73-1	1,3-Dichlorobenzene		2.50	5.00	10.0	U
106-46-7	1,4-Dichlorobenzene		2.50	5.00	10.0	U
75-71-8	Dichlorodifluoromethane		5.00	10.0	20.0	X, U
75-34-3	1,1-Dichloroethane		2.50	5.00	10.0	X, U
107-06-2	1,2-Dichloroethane		2.50	5.00	10.0	U
75-35-4	1,1-Dichloroethene		2.50	5.00	10.0	U
156-59-2	cis-1,2-Dichloroethene		2.50	5.00	10.0	U
156-60-5	trans-1,2-Dichloroethene		2.50	5.00	10.0	U
78-87-5	1,2-Dichloropropane		2.50	5.00	10.0	Q, U
142-28-9	1,3-Dichloropropane		2.50	5.00	10.0	U
594-20-7	2,2-Dichloropropane		2.50	5.00	10.0	X, U
563-58-6	1,1-Dichloropropene		2.50	5.00	10.0	X, U
10061-01-5	cis-1,3-Dichloropropene		2.50	5.00	10.0	U
10061-02-6	trans-1,3-Dichloropropene		2.50	5.00	10.0	U
100-41-4	Ethylbenzene	123	2.50	5.00	10.0	D
87-68-3	Hexachlorobutadiene		2.50	5.00	10.0	Q, X, U

ANALYSIS DATA SHEET

GW0195

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-01	File ID:	0821001D.D
Sampled:	08/17/11 16:09	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 21:51
Solids:		Preparation:	5030B	Dilution:	10

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

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	52.9	12.5	25.0	50.0	D
98-82-8	Isopropylbenzene	10.1	2.50	5.00	10.0	D
99-87-6	p-Isopropyltoluene		2.50	5.00	10.0	U
75-09-2	Methylene chloride		5.00	10.0	20.0	U
91-20-3	Naphthalene	23.4	2.50	5.00	10.0	D
108-10-1	4-Methyl-2-pentanone	17.9	12.5	25.0	50.0	J, D
1634-04-4	Methyl t-Butyl Ether		2.50	5.00	10.0	U
103-65-1	n-Propylbenzene	8.89	2.50	5.00	10.0	J, D
100-42-5	Styrene		2.50	5.00	10.0	U
79-34-5	1,1,2,2-Tetrachloroethane		2.50	5.00	10.0	U
630-20-6	1,1,1,2-Tetrachloroethane		2.50	5.00	10.0	U
127-18-4	Tetrachloroethene		2.50	5.00	10.0	U
108-88-3	Toluene	1780	2.50	5.00	10.0	D
87-61-6	1,2,3-Trichlorobenzene		2.50	5.00	10.0	U
120-82-1	1,2,4-Trichlorobenzene		2.50	5.00	10.0	U
79-00-5	1,1,2-Trichloroethane		2.50	5.00	10.0	U
71-55-6	1,1,1-Trichloroethane		2.50	5.00	10.0	U
79-01-6	Trichloroethene		2.50	5.00	10.0	U
75-69-4	Trichlorofluoromethane		5.00	10.0	20.0	X, U
96-18-4	1,2,3-Trichloropropane		5.00	10.0	20.0	U
108-67-8	1,3,5-Trimethylbenzene	13.2	2.50	5.00	10.0	D
95-63-6	1,2,4-Trimethylbenzene	40.6	2.50	5.00	10.0	D
75-01-4	Vinyl chloride		2.50	5.00	10.0	X, U
108-38-3/106-42-	m,p-Xylene	367	5.00	10.0	20.0	D
95-47-6	o-Xylene	177	2.50	5.00	10.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.10	100	75 - 120	
Dibromofluoromethane	30.00	28.59	95.3	85 - 115	
1,2-Dichloroethane-d4	30.00	30.48	102	70 - 120	
Toluene-d8	30.00	30.00	100	85 - 120	

ANALYSIS DATA SHEET

GW0232

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-03	File ID:	0821003.D
Sampled:	08/17/11 14:49	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 20:26
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	Q, 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, Q, 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	Q, 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

GW0232

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-03	File ID:	0821003.D
Sampled:	08/17/11 14:49	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 20:26
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	30.38	101	75 - 120	
Dibromofluoromethane	30.00	28.74	95.8	85 - 115	
1,2-Dichloroethane-d4	30.00	28.08	93.6	70 - 120	
Toluene-d8	30.00	30.35	101	85 - 120	

ANALYSIS DATA SHEET

GW8097-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-05	File ID:	0821005.D
Sampled:	08/17/11 08:00	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 14:47
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	Q, 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, Q, 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	Q, 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

GW8097-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-05	File ID:	0821005.D
Sampled:	08/17/11 08:00	Prepared:	08/20/11 00:00	Analyzed:	08/20/11 14:47
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	29.73	99.1	75 - 120	
Dibromofluoromethane	30.00	28.54	95.1	85 - 115	
1,2-Dichloroethane-d4	30.00	29.45	98.2	70 - 120	
Toluene-d8	30.00	29.50	98.3	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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	
GW9084-TB (1108174-05) ug/L				Lab File ID: 0817405.D		Analyzed: 08/20/11 14:19		
Bromofluorobenzene	30.00	94.6	75 - 120	12.326	12.331	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	93.6	85 - 115	6.994	6.999	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.0	70 - 120	7.486	7.491	-0.0050	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	9.699	9.705	-0.0060	+/-1.000	
GW8097-TB (1108210-05) ug/L				Lab File ID: 0821005.D		Analyzed: 08/20/11 14:47		
Bromofluorobenzene	30.00	99.1	75 - 120	12.319	12.331	-0.0120	+/-1.000	
Dibromofluoromethane	30.00	95.1	85 - 115	6.997	6.999	-0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.2	70 - 120	7.488	7.491	-0.0030	+/-1.000	
Toluene-d8	30.00	98.3	85 - 120	9.702	9.705	-0.0030	+/-1.000	
GW0173-R (1108174-01) ug/L				Lab File ID: 0817401.D		Analyzed: 08/20/11 15:44		
Bromofluorobenzene	30.00	103	75 - 120	12.322	12.331	-0.0090	+/-1.000	
Dibromofluoromethane	30.00	97.5	85 - 115	7	6.999	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.4	70 - 120	7.491	7.491	0.0000	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.705	9.705	0.0000	+/-1.000	
GW0198 (1108174-03) ug/L				Lab File ID: 0817403.D		Analyzed: 08/20/11 16:12		
Bromofluorobenzene	30.00	99.3	75 - 120	12.332	12.331	0.0010	+/-1.000	
Dibromofluoromethane	30.00	95.3	85 - 115	7	6.999	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.2	70 - 120	7.492	7.491	0.0010	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.705	9.705	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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
GW0232 (1108210-03) ug/L				Lab File ID: 0821003.D		Analyzed: 08/20/11 20:26		
Bromofluorobenzene	30.00	101	75 - 120	12.331	12.331	0.0000	+/-1.000	
Dibromofluoromethane	30.00	95.8	85 - 115	6.999	6.999	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.6	70 - 120	7.491	7.491	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.704	9.705	-0.0010	+/-1.000	
GW0195 (1108210-01) ug/L				Lab File ID: 0821001D.D		Analyzed: 08/20/11 21:51		
Bromofluorobenzene	30.00	100	75 - 120	12.326	12.331	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	95.3	85 - 115	7.004	6.999	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.496	7.491	0.0050	+/-1.000	
Toluene-d8	30.00	100	85 - 120	9.709	9.705	0.0040	+/-1.000	
LCS Dup (1H20001-BSD1) ug/L				Lab File ID: 0820LCD1.D		Analyzed: 08/20/11 22:19		
Bromofluorobenzene	30.00	99.1	75 - 120	12.33	12.331	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	94.1	85 - 115	6.998	6.999	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.7	70 - 120	7.49	7.491	-0.0010	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.703	9.705	-0.0020	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23805	Instrument:	MS-VOA6
		Calibration:	1238001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H23805-CCV1) ug/L				Lab File ID: 0824CV1.D		Analyzed: 08/24/11 07:15		
Bromofluorobenzene	30.00	104	80 - 120	12.268	12.268	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	80 - 120	6.961	6.961	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.9	80 - 120	7.453	7.453	0.0000	+/-1.000	
Toluene-d8	30.00	102	80 - 120	9.659	9.659	0.0000	+/-1.000	
LCS (1H23519-BS1) ug/L				Lab File ID: 0824LCS1.D		Analyzed: 08/24/11 07:42		
Bromofluorobenzene	30.00	101	75 - 120	12.274	12.268	0.0060	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.958	6.961	-0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.45	7.453	-0.0030	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.655	9.659	-0.0040	+/-1.000	
Blank (1H23519-BLK1) ug/L				Lab File ID: 0824BLK1.D		Analyzed: 08/24/11 09:01		
Bromofluorobenzene	30.00	97.5	75 - 120	12.266	12.268	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.959	6.961	-0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.452	7.453	-0.0010	+/-1.000	
Toluene-d8	30.00	96.9	85 - 120	9.657	9.659	-0.0020	+/-1.000	
GW8096-TB (1108205-07) ug/L				Lab File ID: 0820507.D		Analyzed: 08/24/11 09:27		
Bromofluorobenzene	30.00	99.8	75 - 120	12.266	12.268	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.959	6.961	-0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.451	7.453	-0.0020	+/-1.000	
Toluene-d8	30.00	99.6	85 - 120	9.657	9.659	-0.0020	+/-1.000	
GW0215 (1108205-01) ug/L				Lab File ID: 0820501.D		Analyzed: 08/24/11 10:48		
Bromofluorobenzene	30.00	98.0	75 - 120	12.267	12.268	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.96	6.961	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.6	70 - 120	7.453	7.453	0.0000	+/-1.000	
Toluene-d8	30.00	96.7	85 - 120	9.658	9.659	-0.0010	+/-1.000	
GW0230 (1108205-03) ug/L				Lab File ID: 0820503.D		Analyzed: 08/24/11 13:55		
Bromofluorobenzene	30.00	97.9	75 - 120	12.272	12.268	0.0040	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.955	6.961	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.448	7.453	-0.0050	+/-1.000	
Toluene-d8	30.00	96.2	85 - 120	9.653	9.659	-0.0060	+/-1.000	
GW0231 (1108205-05) ug/L				Lab File ID: 0820505.D		Analyzed: 08/24/11 14:22		
Bromofluorobenzene	30.00	97.6	75 - 120	12.271	12.268	0.0030	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.955	6.961	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.447	7.453	-0.0060	+/-1.000	
Toluene-d8	30.00	95.9	85 - 120	9.653	9.659	-0.0060	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23807	Instrument:	MS-VOA6
		Calibration:	1238001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H23807-CCV1) ug/L				Lab File ID: 0825CCV2.D		Analyzed: 08/25/11 18:20		
Bromofluorobenzene	30.00	105	80 - 120	12.278	12.278	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	80 - 120	6.961	6.961	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	7.453	7.453	0.0000	+/-1.000	
Toluene-d8	30.00	102	80 - 120	9.659	9.659	0.0000	+/-1.000	
LCS (1H25013-BS1) ug/L				Lab File ID: 0825LCS2.D		Analyzed: 08/25/11 18:47		
Bromofluorobenzene	30.00	101	75 - 120	12.275	12.278	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.959	6.961	-0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.461	7.453	0.0080	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.656	9.659	-0.0030	+/-1.000	
Blank (1H25013-BLK1) ug/L				Lab File ID: 0825BLK2.D		Analyzed: 08/25/11 20:05		
Bromofluorobenzene	30.00	99.7	75 - 120	12.274	12.278	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.957	6.961	-0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.459	7.453	0.0060	+/-1.000	
Toluene-d8	30.00	97.5	85 - 120	9.655	9.659	-0.0040	+/-1.000	
GW8095-TB (1108181-03) ug/L				Lab File ID: 0818103.D		Analyzed: 08/25/11 20:32		
Bromofluorobenzene	30.00	97.7	75 - 120	12.272	12.278	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	6.956	6.961	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.458	7.453	0.0050	+/-1.000	
Toluene-d8	30.00	97.8	85 - 120	9.663	9.659	0.0040	+/-1.000	
GW0197 (1108181-01) ug/L				Lab File ID: 0818101D.D		Analyzed: 08/26/11 04:06		
Bromofluorobenzene	30.00	98.5	75 - 120	12.272	12.278	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	6.956	6.961	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.458	7.453	0.0050	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	9.654	9.659	-0.0050	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024
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_024
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

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #		% RPD #		QC LIMITS RPD	QC LIMITS REC.
Acetone	**10.00**	**16.0**	**160**	*	**162**	*	**30**	**40 - 140**
Benzene	**5.000**	**6.15**	**123**	*	**162**	*	**30**	**80 - 120**
Bromobenzene	5.000	5.31	106		163	*	30	75 - 125
Bromochloromethane	5.000	4.46	89.1		166	*	30	65 - 130
Bromodichloromethane	5.000	4.94	98.8		165	*	30	75 - 120
Bromoform	5.000	4.54	90.9		167	*	30	70 - 130
Bromomethane	5.000	4.52	90.3		169	*	30	30 - 145
n-Butylbenzene	5.000	6.07	121		165	*	30	70 - 135
2-Butanone	10.00	11.0	110		169	*	30	30 - 150
sec-Butylbenzene	5.000	5.56	111		166	*	30	70 - 125
tert-Butylbenzene	5.000	5.37	107		165	*	30	70 - 130
Carbon disulfide	5.000	5.30	106		166	*	30	35 - 160
Carbon tetrachloride	5.000	5.85	117		164	*	30	65 - 140
Chlorobenzene	5.000	4.97	99.3		162	*	30	80 - 120
Chloroethane	**5.000**	**6.91**	**138**	*	**161**	*	**30**	**60 - 135**
Chloroform	5.000	5.11	102		164	*	30	65 - 135
Chloromethane	5.000	5.40	108		161	*	30	40 - 125
2-Chlorotoluene	5.000	6.11	122		163	*	30	75 - 125
4-Chlorotoluene	5.000	5.66	113		164	*	30	75 - 130
Dibromochloromethane	5.000	4.39	87.8		165	*	30	60 - 135
1,2-Dibromo-3-chloropropane	5.000	4.73	94.6		166	*	30	50 - 130
1,2-Dibromoethane (EDB)	5.000	4.79	95.7		163	*	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H20001	Laboratory ID:	1H20001-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	5.000	4.89	97.8	166 *	30	75 - 125
1,2-Dichlorobenzene	5.000	5.19	104	164 *	30	70 - 120
1,3-Dichlorobenzene	5.000	5.18	104	164 *	30	75 - 125
1,4-Dichlorobenzene	5.000	5.37	107	164 *	30	75 - 125
Dichlorodifluoromethane	5.000	5.24	105	164 *	30	30 - 155
1,1-Dichloroethane	5.000	6.16	123	163 *	30	70 - 135
1,2-Dichloroethane	5.000	4.88	97.6	165 *	30	70 - 130
1,1-Dichloroethene	5.000	5.30	106	164 *	30	70 - 130
cis-1,2-Dichloroethene	5.000	4.99	99.9	166 *	30	70 - 125
trans-1,2-Dichloroethene	5.000	5.29	106	164 *	30	60 - 140
1,2-Dichloropropane	**5.000**	**6.47**	**129 ***	**162 ***	**30**	**75 - 125**
1,3-Dichloropropane	5.000	5.56	111	163 *	30	75 - 125
2,2-Dichloropropane	5.000	4.67	93.4	171 *	30	70 - 135
1,1-Dichloropropene	5.000	6.21	124	163 *	30	75 - 130
cis-1,3-Dichloropropene	5.000	5.27	105	167 *	30	70 - 130
trans-1,3-Dichloropropene	5.000	4.31	86.1	167 *	30	55 - 140
Ethylbenzene	5.000	5.31	106	163 *	30	75 - 125
Hexachlorobutadiene	5.000	5.80	116	171 *	30	50 - 140
2-Hexanone	10.00	11.4	114	167 *	30	55 - 130
Isopropylbenzene	5.000	4.76	95.2	164 *	30	75 - 125
p-Isopropyltoluene	5.000	5.38	108	164 *	30	75 - 130
Methylene chloride	5.000	5.41	108	163 *	30	55 - 140
Naphthalene	5.000	4.94	98.8	166 *	30	55 - 140
4-Methyl-2-pentanone	10.00	11.2	112	165 *	30	60 - 135
Methyl t-Butyl Ether	5.000	5.28	106	165 *	30	65 - 125
n-Propylbenzene	5.000	5.96	119	165 *	30	70 - 130
Styrene	5.000	4.91	98.2	163 *	30	65 - 135
1,1,2,2-Tetrachloroethane	5.000	6.32	126	161 *	30	65 - 130
1,1,1,2-Tetrachloroethane	5.000	4.54	90.9	164 *	30	80 - 130
Tetrachloroethene	5.000	4.76	95.3	167 *	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H20001	Laboratory ID:	1H20001-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	5.000	5.65	113	161 *	30	75 - 120
1,2,3-Trichlorobenzene	5.000	5.33	107	168 *	30	55 - 140
1,2,4-Trichlorobenzene	5.000	4.67	93.4	169 *	30	65 - 135
1,1,2-Trichloroethane	5.000	5.13	103	165 *	30	75 - 125
1,1,1-Trichloroethane	5.000	5.60	112	164 *	30	65 - 130
Trichloroethene	5.000	5.36	107	164 *	30	70 - 125
Trichlorofluoromethane	5.000	5.46	109	166 *	30	60 - 145
1,2,3-Trichloropropane	5.000	4.60	92.1	164 *	30	75 - 125
1,3,5-Trimethylbenzene	5.000	5.94	119	163 *	30	75 - 130
1,2,4-Trimethylbenzene	5.000	5.61	112	163 *	30	75 - 130
Vinyl chloride	5.000	6.04	121	164 *	30	50 - 145
m,p-Xylene	10.00	10.7	107	163 *	30	75 - 130
o-Xylene	5.000	5.16	103	163 *	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H23519	Laboratory ID:	1H23519-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**	**173**	**173**	**40 - 140**
Benzene	50.00	50.4	101	80 - 120
Bromobenzene	50.00	49.0	98.0	75 - 125
Bromochloromethane	50.00	53.1	106	65 - 130
Bromodichloromethane	50.00	49.8	99.5	75 - 120
Bromoform	50.00	41.7	83.4	70 - 130
Bromomethane	50.00	26.7	53.3	30 - 145
n-Butylbenzene	50.00	47.2	94.4	70 - 135
2-Butanone	100.0	124	124	30 - 150
sec-Butylbenzene	50.00	48.4	96.8	70 - 125
tert-Butylbenzene	50.00	50.4	101	70 - 130
Carbon disulfide	50.00	51.4	103	35 - 160
Carbon tetrachloride	50.00	53.4	107	65 - 140
Chlorobenzene	50.00	49.1	98.1	80 - 120
Chloroethane	50.00	47.5	95.1	60 - 135
Chloroform	50.00	49.3	98.7	65 - 135
Chloromethane	50.00	34.5	68.9	40 - 125
2-Chlorotoluene	50.00	47.6	95.2	75 - 125
4-Chlorotoluene	50.00	46.8	93.5	75 - 130
Dibromochloromethane	50.00	44.0	88.1	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.4	90.9	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.0	98.1	80 - 120
Dibromomethane	50.00	48.7	97.4	75 - 125
1,2-Dichlorobenzene	50.00	49.3	98.5	70 - 120
1,3-Dichlorobenzene	50.00	49.6	99.2	75 - 125
1,4-Dichlorobenzene	50.00	49.8	99.7	75 - 125
Dichlorodifluoromethane	50.00	41.8	83.7	30 - 155
1,1-Dichloroethane	50.00	50.2	100	70 - 135
1,2-Dichloroethane	50.00	50.0	99.9	70 - 130
1,1-Dichloroethene	50.00	46.1	92.1	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H23519	Laboratory ID:	1H23519-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	50.7	101	70 - 125
trans-1,2-Dichloroethene	50.00	48.4	96.9	60 - 140
1,2-Dichloropropane	50.00	48.0	95.9	75 - 125
1,3-Dichloropropane	50.00	48.1	96.3	75 - 125
2,2-Dichloropropane	50.00	52.8	106	70 - 135
1,1-Dichloropropene	50.00	50.5	101	75 - 130
cis-1,3-Dichloropropene	50.00	51.5	103	70 - 130
trans-1,3-Dichloropropene	50.00	46.3	92.7	55 - 140
Ethylbenzene	50.00	48.4	96.8	75 - 125
Hexachlorobutadiene	50.00	48.0	96.0	50 - 140
2-Hexanone	100.0	118	118	55 - 130
Isopropylbenzene	50.00	47.0	94.1	75 - 125
p-Isopropyltoluene	50.00	47.3	94.7	75 - 130
Methylene chloride	50.00	45.5	91.0	55 - 140
Naphthalene	50.00	49.7	99.3	55 - 140
4-Methyl-2-pentanone	100.0	95.7	95.7	60 - 135
Methyl t-Butyl Ether	50.00	49.4	98.7	65 - 125
n-Propylbenzene	50.00	47.3	94.5	70 - 130
Styrene	50.00	49.8	99.7	65 - 135
1,1,2,2-Tetrachloroethane	50.00	45.5	91.0	65 - 130
1,1,1,2-Tetrachloroethane	50.00	52.1	104	80 - 130
Tetrachloroethene	50.00	49.3	98.5	45 - 150
Toluene	50.00	48.6	97.1	75 - 120
1,2,3-Trichlorobenzene	50.00	48.5	97.0	55 - 140
1,2,4-Trichlorobenzene	50.00	47.4	94.9	65 - 135
1,1,2-Trichloroethane	50.00	49.0	98.0	75 - 125
1,1,1-Trichloroethane	50.00	52.9	106	65 - 130
Trichloroethene	50.00	49.6	99.2	70 - 125
Trichlorofluoromethane	50.00	50.0	100	60 - 145
1,2,3-Trichloropropane	50.00	50.5	101	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H23519	Laboratory ID:	1H23519-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	49.0	98.0	75 - 130
1,2,4-Trimethylbenzene	50.00	47.9	95.8	75 - 130
Vinyl chloride	50.00	48.4	96.7	50 - 145
m,p-Xylene	100.0	100	100	75 - 130
o-Xylene	50.00	48.9	97.7	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H25013	Laboratory ID:	1H25013-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**	**149**	**149**	**40 - 140**
Benzene	50.00	51.5	103	80 - 120
Bromobenzene	50.00	51.4	103	75 - 125
Bromochloromethane	50.00	55.8	112	65 - 130
Bromodichloromethane	50.00	52.1	104	75 - 120
Bromoform	50.00	43.0	86.1	70 - 130
Bromomethane	50.00	22.6	45.2	30 - 145
n-Butylbenzene	50.00	48.1	96.2	70 - 135
2-Butanone	100.0	110	110	30 - 150
sec-Butylbenzene	50.00	49.2	98.5	70 - 125
tert-Butylbenzene	50.00	52.6	105	70 - 130
Carbon disulfide	50.00	55.1	110	35 - 160
Carbon tetrachloride	50.00	53.3	107	65 - 140
Chlorobenzene	50.00	51.7	103	80 - 120
Chloroethane	50.00	53.8	108	60 - 135
Chloroform	50.00	51.3	103	65 - 135
Chloromethane	50.00	33.0	66.0	40 - 125
2-Chlorotoluene	50.00	49.8	99.7	75 - 125
4-Chlorotoluene	50.00	48.7	97.5	75 - 130
Dibromochloromethane	50.00	45.5	91.1	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.9	91.8	50 - 130
1,2-Dibromoethane (EDB)	50.00	51.6	103	80 - 120
Dibromomethane	50.00	51.4	103	75 - 125
1,2-Dichlorobenzene	50.00	51.5	103	70 - 120
1,3-Dichlorobenzene	50.00	51.5	103	75 - 125
1,4-Dichlorobenzene	50.00	52.3	105	75 - 125
Dichlorodifluoromethane	50.00	40.8	81.7	30 - 155
1,1-Dichloroethane	50.00	51.4	103	70 - 135
1,2-Dichloroethane	50.00	53.6	107	70 - 130
1,1-Dichloroethene	50.00	47.7	95.3	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H25013	Laboratory ID:	1H25013-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	52.0	104	70 - 125
trans-1,2-Dichloroethene	50.00	50.5	101	60 - 140
1,2-Dichloropropane	50.00	51.4	103	75 - 125
1,3-Dichloropropane	50.00	52.0	104	75 - 125
2,2-Dichloropropane	50.00	48.1	96.1	70 - 135
1,1-Dichloropropene	50.00	50.3	101	75 - 130
cis-1,3-Dichloropropene	50.00	53.6	107	70 - 130
trans-1,3-Dichloropropene	50.00	48.6	97.2	55 - 140
Ethylbenzene	50.00	50.6	101	75 - 125
Hexachlorobutadiene	50.00	47.0	94.1	50 - 140
2-Hexanone	100.0	106	106	55 - 130
Isopropylbenzene	50.00	48.5	97.1	75 - 125
p-Isopropyltoluene	50.00	48.6	97.2	75 - 130
Methylene chloride	50.00	49.8	99.6	55 - 140
Naphthalene	50.00	51.2	102	55 - 140
4-Methyl-2-pentanone	100.0	98.5	98.5	60 - 135
Methyl t-Butyl Ether	50.00	51.8	104	65 - 125
n-Propylbenzene	50.00	48.7	97.4	70 - 130
Styrene	50.00	51.6	103	65 - 135
1,1,2,2-Tetrachloroethane	50.00	48.7	97.4	65 - 130
1,1,1,2-Tetrachloroethane	50.00	54.8	110	80 - 130
Tetrachloroethene	50.00	49.6	99.3	45 - 150
Toluene	50.00	50.9	102	75 - 120
1,2,3-Trichlorobenzene	50.00	51.0	102	55 - 140
1,2,4-Trichlorobenzene	50.00	48.1	96.2	65 - 135
1,1,2-Trichloroethane	50.00	51.7	103	75 - 125
1,1,1-Trichloroethane	50.00	53.6	107	65 - 130
Trichloroethene	50.00	51.6	103	70 - 125
Trichlorofluoromethane	50.00	51.9	104	60 - 145
1,2,3-Trichloropropane	50.00	51.4	103	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H25013	Laboratory ID:	1H25013-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	51.6	103	75 - 130
1,2,4-Trimethylbenzene	50.00	51.9	104	75 - 130
Vinyl chloride	50.00	52.9	106	50 - 145
m,p-Xylene	100.0	102	102	75 - 130
o-Xylene	50.00	50.6	101	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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.
GW0173-R	1108174-01	08/20/11 00:00	5.00	5.00
GW0198	1108174-03	08/20/11 00:00	5.00	5.00
GW9084-TB	1108174-05	08/20/11 00:00	5.00	5.00
GW0195	1108210-01	08/20/11 00:00	5.00	5.00
GW0232	1108210-03	08/20/11 00:00	5.00	5.00
GW8097-TB	1108210-05	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
LCS Dup	1H20001-BSD1	08/20/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H23519 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0215	1108205-01	08/24/11 00:00	5.00	5.00
GW0230	1108205-03	08/24/11 00:00	5.00	5.00
GW0231	1108205-05	08/24/11 00:00	5.00	5.00
GW8096-TB	1108205-07	08/24/11 00:00	5.00	5.00
Blank	1H23519-BLK1	08/24/11 00:00	5.00	5.00
LCS	1H23519-BS1	08/24/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H25013 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0197	1108181-01	08/25/11 00:00	5.00	5.00
GW8095-TB	1108181-03	08/25/11 00:00	5.00	5.00
Blank	1H25013-BLK1	08/25/11 00:00	5.00	5.00
LCS	1H25013-BS1	08/25/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024
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

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0822TUN1.D	Injection Date:	08/22/11
Instrument ID:	MS-VOA6	Injection Time:	09:03
Sequence:	1H23702	Lab Sample ID:	1H23702-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.4	PASS
75	30 - 60% of 95	35.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.5	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	62.2	PASS
175	5 - 9% of 174	7.39	PASS
176	95 - 101% of 174	96	PASS
177	5 - 9% of 176	6.98	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0822TUN2.D	Injection Date:	08/23/11
Instrument ID:	MS-VOA6	Injection Time:	07:38
Sequence:	1H23702	Lab Sample ID:	1H23702-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.1	PASS
75	30 - 60% of 95	36.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.83	PASS
173	Less than 2% of 174	0.107	PASS
174	50 - 200% of 95	73.3	PASS
175	5 - 9% of 174	7.01	PASS
176	95 - 101% of 174	96.4	PASS
177	5 - 9% of 176	6.53	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0824TUN1.D	Injection Date:	08/24/11
Instrument ID:	MS-VOA6	Injection Time:	06:49
Sequence:	1H23805	Lab Sample ID:	1H23805-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.6	PASS
75	30 - 60% of 95	39.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.2	PASS
173	Less than 2% of 174	0.637	PASS
174	50 - 200% of 95	51.1	PASS
175	5 - 9% of 174	7.74	PASS
176	95 - 101% of 174	96.2	PASS
177	5 - 9% of 176	7.02	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0825TUN2.D	Injection Date:	08/25/11
Instrument ID:	MS-VOA6	Injection Time:	17:54
Sequence:	1H23807	Lab Sample ID:	1H23807-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	16.2	PASS
75	30 - 60% of 95	36.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.55	PASS
173	Less than 2% of 174	0.0552	PASS
174	50 - 200% of 95	72.4	PASS
175	5 - 9% of 174	7.14	PASS
176	95 - 101% of 174	95.2	PASS
177	5 - 9% of 176	6.43	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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
GW9084-TB	1108174-05	0817405.D	08/20/11 14:19
GW8097-TB	1108210-05	0821005.D	08/20/11 14:47
GW0173-R	1108174-01	0817401.D	08/20/11 15:44
GW0198	1108174-03	0817403.D	08/20/11 16:12
GW0232	1108210-03	0821003.D	08/20/11 20:26
GW0195	1108210-01	0821001D.D	08/20/11 21:51
LCS Dup	1H20001-BSD1	0820LCD1.D	08/20/11 22:19

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23702	Instrument:	MS-VOA6
Calibration:	1238001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23702-TUN1	0822TUN1.D	08/22/11 09:03
Cal Standard	1H23702-CAL1	0822CAL1.D	08/22/11 10:02
Cal Standard	1H23702-CAL2	0822CAL2.D	08/22/11 10:29
Cal Standard	1H23702-CAL3	0822CAL3.D	08/22/11 10:55
Cal Standard	1H23702-CAL4	0822CAL4.D	08/22/11 11:22
Cal Standard	1H23702-CAL5	0822CAL5.D	08/22/11 11:49
Cal Standard	1H23702-CAL6	0822CAL6.D	08/22/11 12:16
Cal Standard	1H23702-CAL7	0822CAL7.D	08/22/11 12:42
Cal Standard	1H23702-CAL8	0822CAL8.D	08/22/11 13:09
Cal Standard	1H23702-CAL9	0822CAL9.D	08/22/11 13:36
Initial Cal Check	1H23702-ICV2	0822ICV2.D	08/22/11 14:56
MS Tune	1H23702-TUN2	0822TUN2.D	08/23/11 07:38
Initial Cal Check	1H23702-ICV4	0822ICV4.D	08/23/11 08:05

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23805	Instrument:	MS-VOA6
Calibration:	1238001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23805-TUN1	0824TUN1.D	08/24/11 06:49
Calibration Check	1H23805-CCV1	0824CV1.D	08/24/11 07:15
LCS	1H23519-BS1	0824LCS1.D	08/24/11 07:42
Blank	1H23519-BLK1	0824BLK1.D	08/24/11 09:01
GW8096-TB	1108205-07	0820507.D	08/24/11 09:27
GW0215	1108205-01	0820501.D	08/24/11 10:48
GW0230	1108205-03	0820503.D	08/24/11 13:55
GW0231	1108205-05	0820505.D	08/24/11 14:22

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23807	Instrument:	MS-VOA6
Calibration:	1238001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1H23807-TUN1	0825TUN2.D	08/25/11 17:54
Calibration Check	1H23807-CCV1	0825CCV2.D	08/25/11 18:20
LCS	1H25013-BS1	0825LCS2.D	08/25/11 18:47
Blank	1H25013-BLK1	0825BLK2.D	08/25/11 20:05
GW8095-TB	1108181-03	0818103.D	08/25/11 20:32
GW0197	1108181-01	0818101D.D	08/26/11 04:06

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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	
GW9084-TB (1108174-05)			Lab File ID: 0817405.D			Analyzed: 08/20/11 14:19			
Fluorobenzene	1036062	8.017	1074139	8.022	96	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	341247	11.125	351404	11.131	97	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	337463	13.526	372917	13.531	90	50 - 200	-0.0050	+/-0.50	
GW8097-TB (1108210-05)			Lab File ID: 0821005.D			Analyzed: 08/20/11 14:47			
Fluorobenzene	983280	8.01	1074139	8.022	92	50 - 200	-0.0120	+/-0.50	
Chlorobenzene-d5	333570	11.128	351404	11.131	95	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	339911	13.529	372917	13.531	91	50 - 200	-0.0020	+/-0.50	
GW0173-R (1108174-01)			Lab File ID: 0817401.D			Analyzed: 08/20/11 15:44			
Fluorobenzene	992399	8.023	1074139	8.022	92	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	326631	11.131	351404	11.131	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	340562	13.532	372917	13.531	91	50 - 200	0.0010	+/-0.50	
GW0198 (1108174-03)			Lab File ID: 0817403.D			Analyzed: 08/20/11 16:12			
Fluorobenzene	998556	8.023	1074139	8.022	93	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	327029	11.131	351404	11.131	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	330168	13.532	372917	13.531	89	50 - 200	0.0010	+/-0.50	
GW0232 (1108210-03)			Lab File ID: 0821003.D			Analyzed: 08/20/11 20:26			
Fluorobenzene	954248	8.022	1074139	8.022	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	308318	11.131	351404	11.131	88	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	319224	13.531	372917	13.531	86	50 - 200	0.0000	+/-0.50	
GW0195 (1108210-01)			Lab File ID: 0821001D.D			Analyzed: 08/20/11 21:51			
Fluorobenzene	887720	8.017	1074139	8.022	83	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	305242	11.136	351404	11.131	87	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	307243	13.526	372917	13.531	82	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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
LCS Dup (1H20001-BSD1)			Lab File ID: 0820LCD1.D			Analyzed: 08/20/11 22:19			
Fluorobenzene	892901	8.021	1074139	8.022	83	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	299055	11.129	351404	11.131	85	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	299586	13.53	372917	13.531	80	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23805	Instrument:	MS-VOA6
		Calibration:	1238001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H23805-CCV1)			Lab File ID: 0824CV1.D			Analyzed: 08/24/11 07:15			
Fluorobenzene	813365	7.975	829564	7.969	98	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	279174	11.086	292593	11.081	95	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	322229	13.469	306465	13.463	105	50 - 200	0.0060	+/-0.50	
LCS (1H23519-BS1)			Lab File ID: 0824LCS1.D			Analyzed: 08/24/11 07:42			
Fluorobenzene	811569	7.972	813365	7.975	100	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	286386	11.083	279174	11.086	103	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	318351	13.475	322229	13.469	99	50 - 200	0.0060	+/-0.50	
Blank (1H23519-BLK1)			Lab File ID: 0824BLK1.D			Analyzed: 08/24/11 09:01			
Fluorobenzene	792235	7.973	813365	7.975	97	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	292774	11.085	279174	11.086	105	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	296604	13.467	322229	13.469	92	50 - 200	-0.0020	+/-0.50	
GW8096-TB (1108205-07)			Lab File ID: 0820507.D			Analyzed: 08/24/11 09:27			
Fluorobenzene	796032	7.973	813365	7.975	98	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	286145	11.084	279174	11.086	102	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	298462	13.467	322229	13.469	93	50 - 200	-0.0020	+/-0.50	
GW0215 (1108205-01)			Lab File ID: 0820501.D			Analyzed: 08/24/11 10:48			
Fluorobenzene	786629	7.974	813365	7.975	97	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	290778	11.076	279174	11.086	104	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	294171	13.468	322229	13.469	91	50 - 200	-0.0010	+/-0.50	
GW0230 (1108205-03)			Lab File ID: 0820503.D			Analyzed: 08/24/11 13:55			
Fluorobenzene	760382	7.97	813365	7.975	93	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	281212	11.081	279174	11.086	101	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	281212	13.473	322229	13.469	87	50 - 200	0.0040	+/-0.50	
GW0231 (1108205-05)			Lab File ID: 0820505.D			Analyzed: 08/24/11 14:22			
Fluorobenzene	771800	7.969	813365	7.975	95	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	289584	11.08	279174	11.086	104	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	290175	13.473	322229	13.469	90	50 - 200	0.0040	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23807	Instrument:	MS-VOA6
		Calibration:	1238001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1H23807-CCV1)			Lab File ID: 0825CCV2.D			Analyzed: 08/25/11 18:20			
Fluorobenzene	802071	7.975	829564	7.969	97	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	279059	11.086	292593	11.081	95	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	315778	13.469	306465	13.463	103	50 - 200	0.0060	+/-0.50	
LCS (1H25013-BS1)			Lab File ID: 0825LCS2.D			Analyzed: 08/25/11 18:47			
Fluorobenzene	797011	7.983	802071	7.975	99	50 - 200	0.0080	+/-0.50	
Chlorobenzene-d5	280967	11.084	279059	11.086	101	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	309384	13.476	315778	13.469	98	50 - 200	0.0070	+/-0.50	
Blank (1H25013-BLK1)			Lab File ID: 0825BLK2.D			Analyzed: 08/25/11 20:05			
Fluorobenzene	790059	7.981	802071	7.975	99	50 - 200	0.0060	+/-0.50	
Chlorobenzene-d5	287679	11.082	279059	11.086	103	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	292790	13.475	315778	13.469	93	50 - 200	0.0060	+/-0.50	
GW8095-TB (1108181-03)			Lab File ID: 0818103.D			Analyzed: 08/25/11 20:32			
Fluorobenzene	779281	7.98	802071	7.975	97	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	287784	11.081	279059	11.086	103	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	289492	13.474	315778	13.469	92	50 - 200	0.0050	+/-0.50	
GW0197 (1108181-01)			Lab File ID: 0818101D.D			Analyzed: 08/26/11 04:06			
Fluorobenzene	764497	7.97	802071	7.975	95	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	282315	11.081	279059	11.086	101	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	281549	13.474	315778	13.469	89	50 - 200	0.0050	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024
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_024
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-trifluoroethar	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_024
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_024
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_024
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_024
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_024
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_024	
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 DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_024

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Calibration: 1238001

Instrument: MS-VOA6

Matrix: Water

Calibration Dates: 8/22/11_10:02 8/22/11_13:36

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	~~6.719765E-02~~	2	5.855311E-02	4	0.0525078	10	5.512775E-02	20	4.369153E-02	100	4.714376E-02
Acrolein	2.502	3.115479E-02	5.005	0.0228172	10.01	2.307228E-02	25.02	2.655031E-02	50.05	2.176442E-02	250.2	2.400687E-02
Acrylonitrile	2.498	0.0425658	4.997	0.0454059	9.994	0.0425048	24.98	4.870356E-02	49.97	4.106079E-02	249.8	4.511433E-02
Benzene	0.5	0.6608758	1	0.7125755	2	0.7746655	5	0.7904779	10	0.6732907	50	0.7392857
Bromobenzene	0.5	0.5455521	1	0.6302333	2	0.6797722	5	0.7190642	10	0.5944018	50	0.6759269
Bromochloromethane	0.5	8.992268E-02	1	9.633278E-02	2	0.11165	5	0.1158826	10	9.833232E-02	50	0.1108644
Tert-Amyl Methyl Ether	0.5	0.4264346	1	0.4934678	2	0.5230011	5	0.5479722	10	0.4682316	50	0.5068805
Bromodichloromethane	0.5	0.2451231	1	0.250824	2	0.2864324	5	0.304519	10	0.262006	50	0.3019807
Bromoform	0.5	0.2709107	1	0.293899	2	0.3309838	5	0.375819	10	0.3391848	50	0.4424676
Bromomethane	0.5	0.1228059	1	0.1356552	2	0.1480141	5	0.1618754	10	0.1424801	50	0.1780395
Bromofluorobenzene	30	1.061848	35	1.038375	40	0.9868811	50	1.009648	60	0.9782301	70	0.9967734
n-Butylbenzene	0.5	1.611937	1	1.847437	2	1.925203	5	1.942891	10	1.656034	50	1.814392
2-Butanone	1	0.111007	2	0.1166577	4	0.1166979	10	0.1047008	20	9.865078E-02	100	0.1010305
sec-Butylbenzene	0.5	2.302548	1	2.446977	2	2.554133	5	2.691009	10	2.30523	50	2.600932
tert-Butylbenzene	0.5	1.395402	1	1.506889	2	1.615802	5	1.751828	10	1.487416	50	1.659669
Carbon disulfide	0.5	0.363391	1	0.3770433	2	0.4093704	5	0.4786828	10	0.4007397	50	0.4572956
Carbon tetrachloride	0.5	0.1894799	1	0.2065863	2	0.2259153	5	0.2345352	10	0.2031877	50	0.2322055
Chlorobenzene	0.5	1.608656	1	1.746218	2	1.915615	5	1.939978	10	1.630488	50	1.870306
Chloroethane	0.5	0.0731669	1	8.144335E-02	2	0.075632	5	9.034384E-02	10	7.240116E-02	50	8.400892E-02
Chloroform	0.5	0.3578057	1	0.3880578	2	0.4143318	5	0.4151289	10	0.3455425	50	0.3859322
2-Chloroethyl vinyl ether	0.9975	7.898453E-02	1.995	0.1050627	3.99	9.868561E-02	9.975	0.1097524	19.95	9.191741E-02	99.75	9.946611E-02
Chloromethane	0.5	0.1794963	1	0.2018504	2	0.1737248	5	0.1737877	10	0.148037	50	0.1658596
1-Chlorohexane	0.5	1.036184	1	0.9717953	2	0.9520886	5	0.9142734	10	0.7617046	50	0.8514005
2-Chlorotoluene	0.5	1.588559	1	1.793359	2	1.859476	5	1.927052	10	1.677034	50	1.806488
4-Chlorotoluene	0.5	1.863155	1	2.074567	2	2.258388	5	2.257746	10	1.926977	50	2.119492
Cyclohexane	0.5	0.250848	1	0.2661081	2	0.2798557	5	0.2867048	10	0.243267	50	0.263493
Dibromochloromethane	0.5	0.3470426	1	0.3777697	2	0.4382153	5	0.4645087	10	0.4188732	50	0.4953293
1,2-Dibromo-3-chloropropane	0.5	0.0823981	1	9.977719E-02	2	0.0996897	5	0.1159219	10	0.1033476	50	0.1235493
1,2-Dibromoethane (EDB)	0.5	0.5649576	1	0.6405311	2	0.7109386	5	0.7490747	10	0.6440003	50	0.7200754
Dibromomethane	0.5	0.1403296	1	0.1646447	2	0.1783015	5	0.1798849	10	0.1550288	50	0.1710402
1,2-Dichlorobenzene	0.5	0.8601979	1	0.9956283	2	1.062879	5	1.067182	10	0.9213851	50	1.018765

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1238001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	8/22/11_10:02 8/22/11_13:36

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	0.9261164	1	1.025542	2	1.104719	5	1.115207	10	0.9590147	50	1.080581
1,4-Dichlorobenzene	0.5	0.9920348	1	1.067051	2	1.104771	5	1.169302	10	0.9721778	50	1.084468
Dichlorodifluoromethane	0.5	0.1855004	1	0.2276109	2	0.2429147	5	0.2465416	10	0.2266213	50	0.2455163
1,1-Dichloroethane	0.5	0.2605524	1	0.2823609	2	0.3112777	5	0.3258049	10	0.2839511	50	0.303585
1,2-Dichloroethane	0.5	0.22355	1	0.2329567	2	0.2562219	5	0.271791	10	0.2286143	50	0.2489778
1,1-Dichloroethene	0.5	0.2045601	1	0.1975091	2	0.2160118	5	0.2308466	10	0.1909861	50	0.2168633
cis-1,2-Dichloroethene	0.5	0.2220141	1	0.2541607	2	0.28974	5	0.2915652	10	0.2475072	50	0.2702976
trans-1,2-Dichloroethene	0.5	0.2066546	1	0.2371186	2	0.2605871	5	0.2658457	10	0.2307899	50	0.260652
1,2-Dichloroethene (total)	1	0.2143343	2	0.2456576	4	0.2751636	10	0.2787091	20	0.2391485	100	0.2654748
1,2-Dichloropropane	0.5	0.1417958	1	0.1552447	2	0.1758785	5	0.1840798	10	0.1532719	50	0.1614409
1,3-Dichloropropane	0.5	0.7148483	1	0.7799474	2	0.8324533	5	0.8743066	10	0.7578554	50	0.8189307
2,2-Dichloropropane	0.5	0.2451231	1	0.2581431	2	0.2840863	5	0.2918184	10	0.242326	50	0.269355
1,1-Dichloropropene	0.5	0.2255747	1	0.2524385	2	0.2601064	5	0.2746913	10	0.2354916	50	0.2558166
cis-1,3-Dichloropropene	0.5	0.2384208	1	0.2642783	2	0.2970859	5	0.3180514	10	0.268182	50	0.2969626
trans-1,3-Dichloropropene	0.5	0.629818	1	0.7510195	2	0.7862745	5	0.8242097	10	0.732238	50	0.8316283
Diisopropyl Ether	0.5	0.6175901	1	0.7241642	2	0.768608	5	0.8130729	10	0.6965346	50	0.7484648
Ethylbenzene	0.5	2.528764	1	2.814339	2	2.975686	5	3.140212	10	2.594852	50	2.937403
Ethyl tert-Butyl Ether	0.5	0.4427715	1	0.5229237	2	0.5671727	5	0.5823565	10	0.4975656	50	0.538238
Ethyl Methacrylate	0.5	0.4672715	1	0.5660017	2	0.6144464	5	0.6436518	10	0.5508296	50	0.6064771
Hexachlorobutadiene	0.5	0.1490831	1	0.1760717	2	0.1744186	5	0.1784543	10	0.1523196	50	0.1591839
2-Hexanone	1	0.3535681	2	0.3945439	4	0.4095146	10	0.427177	20	0.3618342	100	0.3926008
Iodomethane	0.5	0.1619725	1	0.1799288	2	0.2117042	5	0.2657878	10	0.2308614	50	0.2957371
Isopropylbenzene	0.5	2.220084	1	2.363949	2	2.639977	5	2.661738	10	2.284709	50	2.620162
p-Isopropyltoluene	0.5	1.61117	1	1.709659	2	1.863466	5	1.897274	10	1.602827	50	1.820648
Methylene chloride	0.5	0.2119606	1	0.1988725	2	0.1968586	5	0.212989	10	0.1767663	50	0.19268
Methyl Acetate	0.5		1	0.118039	2	0.1184959	5	0.1199256	10	0.1059861	50	0.1114904
Methylcyclohexane	0.5	0.2581786	1	0.2696959	2	0.2849324	5	0.290191	10	0.2426731	50	0.2729236
Naphthalene	0.5	1.077499	1	1.21204	2	1.32865	5	1.352533	10	1.155555	50	1.267375
Methyl Methacrylate	0.5	0.17049	1	0.1909434	2	0.2103581	5	0.2065953	10	0.1759934	50	0.1839385
4-Methyl-2-pentanone	1	0.1821493	2	0.195482	4	0.2133003	10	0.2126852	20	0.1828671	100	0.1956968
Methyl t-Butyl Ether	0.5	0.411494	1	0.4419468	2	0.4818679	5	0.5076353	10	0.4483404	50	0.4746043

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1238001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	8/22/11_10:02 8/22/11_13:36

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	2.658201	1	2.918483	2	3.110124	5	3.155538	10	2.69317	50	2.963655
Styrene	0.5	1.705353	1	1.913658	2	2.060756	5	2.152833	10	1.817731	50	2.103422
1,1,2,2-Tetrachloroethane	0.5	0.5706548	1	0.6405618	2	0.7112801	5	0.7137977	10	0.6227141	50	0.6530544
1,1,1,2-Tetrachloroethane	0.5	0.3521839	1	0.349545	2	0.4254893	5	0.4421979	10	0.3721359	50	0.4360687
tert-Butyl alcohol	2.5	8.447705E-03	5	0.01001	10	1.128038E-02	25	1.178788E-02	50	0.0102916	250	1.147873E-02
Tetrachloroethene	0.5	0.5137416	1	0.5772515	2	0.6206752	5	0.649455	10	0.5387958	50	0.6309779
Toluene	0.5	1.369978	1	1.529561	2	1.641388	5	1.638002	10	1.406586	50	1.59433
1,2,3-Trichlorobenzene	0.5	0.4476325	1	0.5053169	2	0.5585999	5	0.5500073	10	0.4838399	50	0.5419745
1,2,4-Trichlorobenzene	0.5	0.5961407	1	0.5947656	2	0.6285719	5	0.6490529	10	0.5651451	50	0.631249
1,1,2-Trichloroethane	0.5	0.38936	1	0.4323108	2	0.4673724	5	0.4899365	10	0.4203724	50	0.4647725
1,1,1-Trichloroethane	0.5	0.2657885	1	0.307655	2	0.3299693	5	0.3436914	10	0.2974838	50	0.3328999
Tetrahydrofuran	0.5		1		2	7.395898E-02	5	0.0685806	10	5.675014E-02	50	5.745948E-02
Trichloroethene	0.5	0.2058168	1	0.240527	2	0.2542604	5	0.2620774	10	0.2234725	50	0.2488734
Trichlorofluoromethane	0.5	0.2894561	1	0.3132519	2	0.3282579	5	0.3565367	10	0.2980456	50	0.3387338
1,2,3-Trichloropropane	0.5	0.1641284	1	0.1969706	2	0.2066233	5	0.2175924	10	0.1826645	50	0.2091027
1,3,5-Trimethylbenzene	0.5	1.829621	1	1.959492	2	2.153277	5	2.23016	10	1.868142	50	2.09851
1,2,4-Trimethylbenzene	0.5	1.834987	1	2.068915	2	2.2144	5	2.250932	10	1.924241	50	2.167977
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2007901	1	0.2143718	2	0.2291459	5	0.2508233	10	0.2058964	50	0.2326075
Vinyl chloride	0.5	7.917105E-02	1	0.1053382	2	0.1019965	5	0.1082665	10	9.360911E-02	50	0.1053707
m,p-Xylene	1	1.907745	2	2.16748	4	2.294522	10	2.379059	20	1.960009	100	2.253724
o-Xylene	0.5	2.005135	1	2.191989	2	2.354045	5	2.440516	10	2.048085	50	2.288898
Vinyl acetate	0.996	0.340562	1.992	0.4107794	3.984	0.4606537	9.96	0.500143	19.92	0.4482585	99.62	0.4860966
Xylenes (total)	1.5	1.940208	3	2.17565	6	2.314363	15	2.399545	30	1.989371	150	2.265449
Dibromofluoromethane	30	0.2873418	35	0.279834	40	0.2747482	50	0.2797484	60	0.2775914	70	0.2790262
1,2-Dichloroethane-d4	30	7.023464E-02	35	6.733402E-02	40	6.548523E-02	50	6.642525E-02	60	6.672734E-02	70	6.617077E-02
Toluene-d8	30	2.730988	35	2.619581	40	2.538795	50	2.613145	60	2.60104	70	2.634269
tert-Amyl alcohol	2.5		5	9.866486E-03	10	1.061886E-02	25	1.058291E-02	50	9.601723E-03	250	1.050885E-02
tert-Amyl ethyl ether	0.5	0.3556414	1	0.410984	2	0.4489075	5	0.4677252	10	0.4049477	50	0.4281594

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1238001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	8/22/11 10:02 8/22/11 13:36

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	0.051919	300	5.061208E-02	400	4.933434E-02						
Acrolein	500.5	2.605349E-02	750.8	2.522824E-02	1001	2.490269E-02						
Acrylonitrile	499.7	4.674059E-02	749.6	4.646196E-02	999.4	4.613543E-02						
Benzene	100	0.7507993	150	0.7237889	200	0.7730124						
Bromobenzene	100	0.7232475	150	0.7260534	200	0.7447582						
Bromochloromethane	100	0.1193874	150	0.1146703	200	0.1114437						
Tert-Amyl Methyl Ether	100	0.528083	150	0.5094939	200	0.5262213						
Bromodichloromethane	100	0.3244015	150	0.3240286	200	0.3267958						
Bromoform	100	0.5314713	150	0.5582497	200	0.5461571						
Bromomethane	100	0.1991517	150	0.2119761	200	0.2075719						
Bromofluorobenzene	30	1.107365	30	1.147478	30	1.118348						
n-Butylbenzene	100	1.940736	150	2.004384	200	2.010934						
2-Butanone	200	0.1101073	300	0.1071199	400	0.1141368						
sec-Butylbenzene	100	2.772225	150	2.767689	200	2.881032						
tert-Butylbenzene	100	1.746712	150	1.74248	200	1.761972						
Carbon disulfide	100	0.4913685	150	0.4825288	200	0.4892927						
Carbon tetrachloride	100	0.2530924	150	0.2519877	200	0.2545847						
Chlorobenzene	100	2.088765	150	2.123409	200	2.075637						
Chloroethane	100	8.255221E-02	150	8.545786E-02	200	8.483004E-02						
Chloroform	100	0.4033794	150	0.4006849	200	0.4011667						
2-Chloroethyl vinyl ether	199.5	9.993686E-02	299.2	9.617048E-02	399	0.1020691						
Chloromethane	100	0.1620635	150	0.1772344	200	0.1932386						
1-Chlorohexane	100	0.9402274	150	0.9416715	200	0.9562365						
2-Chlorotoluene	100	1.879218	150	1.889039	200	1.978261						
4-Chlorotoluene	100	2.179198	150	2.176983	200	2.246555						
Cyclohexane	100	0.2621579	150	0.2458757	200	0.2708126						
Dibromochloromethane	100	0.5737284	150	0.5919898	200	0.6048445						
1,2-Dibromo-3-chloropropane	100	0.1356472	150	0.1359239	200	0.1277681						
1,2-Dibromoethane (EDB)	100	0.807502	150	0.8297458	200	0.816919						
Dibromomethane	100	0.1789835	150	0.1789114	200	0.1796993						
1,2-Dichlorobenzene	100	1.102393	150	1.140575	200	1.137734						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1238001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	8/22/11 10:02 8/22/11 13:36

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	1.164202	150	1.159142	200	1.190791						
1,4-Dichlorobenzene	100	1.164723	150	1.176388	200	1.210195						
Dichlorodifluoromethane	100	0.2577717	150	0.2543721	200	0.2559633						
1,1-Dichloroethane	100	0.3268622	150	0.310388	200	0.3175781						
1,2-Dichloroethane	100	0.2611906	150	0.2559801	200	0.2547071						
1,1-Dichloroethene	100	0.2315807	150	0.2287749	200	0.2272008						
cis-1,2-Dichloroethene	100	0.2942725	150	0.2928625	200	0.2966933						
trans-1,2-Dichloroethene	100	0.2772526	150	0.2763781	200	0.2752612						
1,2-Dichloroethene (total)	200	0.2857628	300	0.2846204	400	0.2859773						
1,2-Dichloropropane	100	0.1587766	150	0.152872	200	0.171114						
1,3-Dichloropropane	100	0.8778433	150	0.8679222	200	0.8969029						
2,2-Dichloropropane	100	0.2855539	150	0.2823003	200	0.2811754						
1,1-Dichloropropene	100	0.2608803	150	0.2495872	200	0.258123						
cis-1,3-Dichloropropene	100	0.3069514	150	0.3000339	200	0.3256759						
trans-1,3-Dichloropropene	100	0.8810636	150	0.8605684	200	0.8464873						
Diisopropyl Ether	100	0.7745712	150	0.7314351	200	0.7671087						
Ethylbenzene	100	3.255691	150	3.291236	200	3.311104						
Ethyl tert-Butyl Ether	100	0.5627571	150	0.5332468	200	0.5499013						
Ethyl Methacrylate	100	0.6384692	150	0.6336237	200	0.6690613						
Hexachlorobutadiene	100	0.1811663	150	0.1834323	200	0.1823577						
2-Hexanone	200	0.4186391	300	0.4094914	400	0.4445539						
Iodomethane	100	0.3321687	150	0.3273383	200	0.3190006						
Isopropylbenzene	100	3.009845	150	3.024191	200	3.069989						
p-Isopropyltoluene	100	1.937698	150	1.899103	200	1.908197						
Methylene chloride	100	0.2038422	150	0.1989414	200	0.1996111						
Methyl Acetate	100	0.1175395	150	0.1173237	200	0.116044						
Methylcyclohexane	100	0.2901491	150	0.2756874	200	0.293604						
Naphthalene	100	1.3775	150	1.393994	200	1.335907						
Methyl Methacrylate	100	0.1897791	150	0.1844601	200	0.1940394						
4-Methyl-2-pentanone	200	0.2098941	300	0.1970157	400	0.2104382						
Methyl t-Butyl Ether	100	0.5110194	150	0.4832513	200	0.4864313						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1238001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	8/22/11 10:02 8/22/11 13:36

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	3.098323	150	3.131622	200	3.270036						
Styrene	100	2.406232	150	2.453901	200	2.430147						
1,1,2,2-Tetrachloroethane	100	0.6704443	150	0.6757746	200	0.7330244						
1,1,1,2-Tetrachloroethane	100	0.4882078	150	0.4933199	200	0.4916421						
tert-Butyl alcohol	500	1.253357E-02	750	1.245075E-02	1000	1.189201E-02						
Tetrachloroethene	100	0.7281271	150	0.757884	200	0.7460632						
Toluene	100	1.72471	150	1.705439	200	1.677996						
1,2,3-Trichlorobenzene	100	0.5986649	150	0.6071001	200	0.5887176						
1,2,4-Trichlorobenzene	100	0.6956751	150	0.7185818	200	0.7035092						
1,1,2-Trichloroethane	100	0.4897871	150	0.4938594	200	0.5027387						
1,1,1-Trichloroethane	100	0.3605247	150	0.35901	200	0.3555248						
Tetrahydrofuran	100	0.054445	150	5.388369E-02	200	5.894902E-02						
Trichloroethene	100	0.2665355	150	0.2647606	200	0.2677014						
Trichlorofluoromethane	100	0.368773	150	0.3632024	200	0.3535178						
1,2,3-Trichloropropane	100	0.2328312	150	0.2409053	200	0.2381087						
1,3,5-Trimethylbenzene	100	2.24434	150	2.223268	200	2.285655						
1,2,4-Trimethylbenzene	100	2.30373	150	2.275425	200	2.338302						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2591402	150	0.2513248	200	0.2525319						
Vinyl chloride	100	0.1101948	150	0.1111804	200	0.1108206						
m,p-Xylene	200	2.45745	300	2.419495	400	2.362168						
o-Xylene	100	2.562904	150	2.581036	200	2.588424						
Vinyl acetate	199.2	0.5226576	298.9	0.4892738	398.5	0.4915621						
Xylenes (total)	300	2.492601	450	2.473343	600	2.437586						
Dibromofluoromethane	30	0.2909854	30	0.2860842	30	0.2828395						
1,2-Dichloroethane-d4	30	6.896712E-02	30	6.681987E-02	30	6.516505E-02						
Toluene-d8	30	2.829513	30	2.847228	30	2.780294						
tert-Amyl alcohol	500	1.132314E-02	750	1.124814E-02	1000	1.163606E-02						
tert-Amyl ethyl ether	100	0.43403	150	0.412723	200	0.4330116						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1238001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	8/22/11 10:02 8/22/11 13:36

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	5.111117E-02	9.005946	3.848375	0.1806562			15	
Acrolein	2.506114E-02	11.05076	3.728222	0.1828195			15	
Acrylonitrile	4.496591E-02	5.447928	4.683222	0.1243932			15	
Benzene	0.7331969	6.149973	7.708111	5.151822E-02			15	
Bromobenzene	0.6710011	10.11858	12.43156	0.0417535			15	
Bromochloromethane	0.1076096	9.435181	6.812222	5.936876E-02			15	
Tert-Amyl Methyl Ether	0.5033096	7.303284	7.899667	3.090256E-02			15	
Bromodichloromethane	0.2917901	11.0826	8.688	2.967734E-02			15	
Bromoform	0.4099048	27.48982	11.841	3.714887E-02	0.9980602		SPCC (0.1)	
Bromomethane	0.1675078	19.73873	2.882444	0.2090612	0.9986041		0.995	
Bromofluorobenzene	1.049439	5.963476	12.26644	0.03342			15	
n-Butylbenzene	1.86155	7.752576	13.85478	0.0267356			15	
2-Butanone	0.108901	6.004713	6.280444	6.694352E-02			15	
sec-Butylbenzene	2.591308	8.016837	13.31467	2.352811E-02			15	
tert-Butylbenzene	1.629797	8.405523	13.08344	0.0294907			15	
Carbon disulfide	0.438857	11.66707	4.843111	8.412341E-02			15	
Carbon tetrachloride	0.2279527	10.4442	7.678444	5.650751E-02			15	
Chlorobenzene	1.888786	10.23805	11.11444	3.705116E-02			SPCC (0.3)	
Chloroethane	8.109292E-02	7.520513	3.019222	0.193568			15	
Chloroform	0.3902255	6.194295	6.783556	0.0623734			CCC (20)	
2-Chloroethyl vinyl ether	9.800502E-02	8.930753	9.041667	3.192985E-02			15	
Chloromethane	0.1750325	9.167421	2.286556	0.1662768			SPCC (0.1)	
1-Chlorohexane	0.9250646	8.457465	11.07967	2.289317E-02			15	
2-Chlorotoluene	1.822054	6.755221	12.65044	3.280562E-02			15	
4-Chlorotoluene	2.122562	6.789119	12.70944	3.151755E-02			15	
Cyclohexane	0.2632359	5.614582	7.609444	5.362395E-02			15	
Dibromochloromethane	0.4791446	19.6605	10.35089	2.130149E-02	0.998407		0.995	
1,2-Dibromo-3-chloropropane	0.1137803	16.30239	14.45778	1.552359E-02	0.9982328		0.995	
1,2-Dibromoethane (EDB)	0.7204161	12.62217	10.56322	4.017521E-02			15	
Dibromomethane	0.1696471	8.215305	8.625667	4.312179E-02			15	
1,2-Dichlorobenzene	1.034082	9.258215	13.81667	0.0161059			15	
1,3-Dichlorobenzene	1.080591	8.579432	13.40733	3.633776E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1238001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	8/22/11 10:02 8/22/11 13:36

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.104568	7.583112	13.49722	2.996147E-02			15	
Dichlorodifluoromethane	0.2380903	9.541696	2.066444	0.2009216			15	
1,1-Dichloroethane	0.3024845	7.40497	5.827444	7.201117E-02			SPCC (0.1)	
1,2-Dichloroethane	0.2482211	6.553083	7.540444	5.573272E-02			15	
1,1-Dichloroethene	0.216037	7.041018	4.316778	0.118194			CCC (20)	
cis-1,2-Dichloroethene	0.2732348	9.721449	6.536444	6.437989E-02			15	
trans-1,2-Dichloroethene	0.2545044	9.608939	5.456778	6.884109E-02			15	
1,2-Dichloroethene (total)	0.263872	9.61121	0	0			15	
1,2-Dichloropropane	0.1616082	8.144253	8.513111	4.268367E-02			CCC (20)	
1,3-Dichloropropane	0.8245567	7.54921	10.09044	0.0377578			15	
2,2-Dichloropropane	0.2710979	6.785914	6.638	5.423862E-02			15	
1,1-Dichloropropene	0.2525233	5.748694	7.557111	0.0689609			15	
cis-1,3-Dichloropropene	0.2906269	9.687094	9.257889	2.905493E-02			15	
trans-1,3-Dichloropropene	0.7937008	9.937741	9.726333	4.276917E-02			15	
Diisopropyl Ether	0.73795	7.623524	6.201444	6.783954E-02			15	
Ethylbenzene	2.983254	9.839452	11.26233	3.703935E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.5329926	7.932552	6.664444	6.332302E-02			15	
Ethyl Methacrylate	0.5988703	10.3466	9.913445	0.0397134			15	
Hexachlorobutadiene	0.1707208	7.880797	15.81178	0.0275083			15	
2-Hexanone	0.4013248	7.335301	10.03033	4.197496E-02			15	
Iodomethane	0.2582777	25.13322	4.511556	8.534116E-02	0.9991485		0.995	
Isopropylbenzene	2.65496	12.25497	12.15822	3.532385E-02			15	
p-Isopropyltoluene	1.80556	7.24305	13.45211	2.370487E-02			15	
Methylene chloride	0.1991691	5.402147	4.797889	8.933102E-02			15	
Methyl Acetate	0.1156055	3.994751	4.669125	8.197407E-02			15	
Methylcyclohexane	0.2753372	6.11104	8.839222	4.784648E-02			15	
Naphthalene	1.277895	8.504374	15.686	2.095546E-02			15	
Methyl Methacrylate	0.1896219	6.850882	8.643333	4.803431E-02			15	
4-Methyl-2-pentanone	0.1999476	6.137204	9.184667	4.644131E-02			15	
Methyl t-Butyl Ether	0.4718434	6.849094	5.463333	7.642315E-02			15	
n-Propylbenzene	2.999906	7.023661	12.56167	0.0339365			15	
Styrene	2.116004	12.94458	11.73344	4.388211E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_024	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1238001		Instrument:	MS-VOA6	
Matrix:	Water		Calibration Dates:	8/22/11 10:02	8/22/11 13:36

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.6657007	7.645018	12.08167	3.276458E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4278656	13.63773	11.156	3.099319E-02			15	
tert-Butyl alcohol	1.113029E-02	11.89559	4.479556	0.1060993			15	
Tetrachloroethene	0.6403302	13.92194	10.46122	2.038726E-02			15	
Toluene	1.587554	8.024408	9.730778	0.0256066			CCC (20)	
1,2,3-Trichlorobenzene	0.5424282	10.01374	15.97067	2.365398E-02			15	
1,2,4-Trichlorobenzene	0.6425213	8.365613	15.53311	2.007416E-02			15	
1,1,2-Trichloroethane	0.4611678	8.449985	9.883778	4.161204E-02			15	
1,1,1-Trichloroethane	0.3280608	9.798603	7.340222	3.077438E-02			15	
Tetrahydrofuran	6.057527E-02	12.65435	7.001143	5.929177E-02			15	
Trichloroethene	0.248225	8.648801	8.464	3.920795E-02			15	
Trichlorofluoromethane	0.3344195	8.661389	3.524556	0.1552297			15	
1,2,3-Trichloropropane	0.2098808	12.32992	12.20744	2.987133E-02			15	
1,3,5-Trimethylbenzene	2.099163	8.197306	12.74144	3.722497E-02			15	
1,2,4-Trimethylbenzene	2.153212	8.146647	13.11322	0.0285936			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2329591	9.419735	4.393555	8.718909E-02			15	
Vinyl chloride	0.1028831	10.16844	2.436	0.1073167			CCC (20)	
m,p-Xylene	2.244628	8.78088	11.37044	3.872787E-02			15	
o-Xylene	2.340115	9.57527	11.76433	3.883949E-02			15	
Vinyl acetate	0.4611096	12.09585	5.906333	6.998012E-02			15	
Xylenes (total)	2.276457	8.972983	0	0			15	
Dibromofluoromethane	0.2820221	1.847922	6.956222	3.389931E-02			15	
1,2-Dichloroethane-d4	6.703659E-02	2.429424	7.448778	2.703272E-02			15	
Toluene-d8	2.688317	4.132592	9.654111	1.880207E-02			15	
tert-Amyl alcohol	1.067327E-02	6.641145	7.163875	4.796969E-02			15	
tert-Amyl ethyl ether	0.4217922	7.506609	8.778	2.381017E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024
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_024
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_024
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

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1238001
Lab File ID:	0822ICV2.D	Calibration Date:	08/22/11 10:02
Sequence:	1H23702	Injection Date:	08/22/11
Lab Sample ID:	1H23702-ICV2	Injection Time:	14:56

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	100.0	106.1	0.7331969	0.7776931		6.1	20
Bromobenzene	A	100.0	104.5	0.6710011	0.700945		4.5	20
Bromochloromethane	A	100.0	104.1	0.1076096	0.1119742		4.1	20
Bromodichloromethane	A	100.0	105.1	0.2917901	0.3068027		5.1	20
Bromoform	L	100.0	87.98	0.4099048	0.4735675	0.1	-12.0	20
Bromomethane	L	100.0	93.15	0.1675078	0.1911058		-6.9	20
n-Butylbenzene	A	100.0	106.1	1.86155	1.974664		6.1	20
sec-Butylbenzene	A	100.0	106.2	2.591308	2.750951		6.2	20
tert-Butylbenzene	A	100.0	107.8	1.629797	1.756451		7.8	20
Carbon disulfide	A	100.0	108.8	0.438857	0.4775208		8.8	20
Carbon tetrachloride	A	100.0	106.5	0.2279527	0.2427834		6.5	20
Chlorobenzene	A	100.0	100.9	1.888786	1.904949	0.3	0.9	20
Chloroethane	A	100.0	107.1	8.109292E-02	8.686727E-02		7.1	20
Chloroform	A	100.0	100.7	0.3902255	0.3930051		0.7	20
Chloromethane	A	100.0	92.97	0.1750325	0.1627335	0.1	-7.0	20
2-Chlorotoluene	A	100.0	106.7	1.822054	1.944606		6.7	20
4-Chlorotoluene	A	100.0	105.1	2.122562	2.230099		5.1	20
Dibromochloromethane	L	100.0	87.75	0.4791446	0.5150241		-12.3	20
1,2-Dibromo-3-chloropropane	L	100.0	99.59	0.1137803	0.1304468		-0.4	20
1,2-Dibromoethane (EDB)	A	100.0	102.3	0.7204161	0.7373027		2.3	20
Dibromomethane	A	100.0	104.1	0.1696471	0.1765465		4.1	20
1,2-Dichlorobenzene	A	100.0	104.4	1.034082	1.079343		4.4	20
1,3-Dichlorobenzene	A	100.0	103.3	1.080591	1.116052		3.3	20
1,4-Dichlorobenzene	A	100.0	106.4	1.104568	1.175732		6.4	20
Dichlorodifluoromethane	A	100.0	84.85	0.2380903	0.2020107		-15.2	20
1,1-Dichloroethane	A	100.0	109.6	0.3024845	0.3314947	0.1	9.6	20
1,2-Dichloroethane	A	100.0	101.5	0.2482211	0.2520051		1.5	20
1,1-Dichloroethene	A	100.0	95.98	0.216037	0.2073501		-4.0	20
cis-1,2-Dichloroethene	A	100.0	104.9	0.2732348	0.2866114		4.9	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1238001
Lab File ID:	0822ICV2.D	Calibration Date:	08/22/11 10:02
Sequence:	1H23702	Injection Date:	08/22/11
Lab Sample ID:	1H23702-ICV2	Injection Time:	14:56

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	100.0	103.6	0.2545044	0.2637284		3.6	20
1,2-Dichloropropane	A	100.0	113.3	0.1616082	0.183044		13.3	20
1,3-Dichloropropane	A	100.0	105.0	0.8245567	0.865963		5.0	20
2,2-Dichloropropane	A	100.0	100.9	0.2710979	0.273514		0.9	20
1,1-Dichloropropene	A	100.0	103.8	0.2525233	0.2620522		3.8	20
cis-1,3-Dichloropropene	A	100.0	115.6	0.2906269	0.3358262		15.6	20
trans-1,3-Dichloropropene	A	100.0	95.32	0.7937008	0.756581		-4.7	20
Ethylbenzene	A	100.0	104.3	2.983254	3.11254		4.3	20
Hexachlorobutadiene	A	100.0	100.3	0.1707208	0.1712815		0.3	20
Isopropylbenzene	A	100.0	98.82	2.65496	2.623675		-1.2	20
p-Isopropyltoluene	A	100.0	100.9	1.80556	1.821165		0.9	20
Methylene chloride	A	100.0	96.29	0.1991691	0.1917886		-3.7	20
Naphthalene	A	100.0	105.8	1.277895	1.352067		5.8	20
Methyl t-Butyl Ether	A	100.0	108.7	0.4718434	0.5128559		8.7	20
n-Propylbenzene	A	100.0	107.1	2.999906	3.21247		7.1	20
Styrene	A	100.0	104.0	2.116004	2.200485		4.0	20
1,1,2,2-Tetrachloroethane	A	100.0	111.0	0.6657007	0.7391245	0.3	11.0	20
1,1,1,2-Tetrachloroethane	A	100.0	104.1	0.4278656	0.4453011		4.1	20
Tetrachloroethene	A	100.0	98.35	0.6403302	0.6297892		-1.6	20
Toluene	A	100.0	103.0	1.587554	1.635904		3.0	20
1,2,3-Trichlorobenzene	A	100.0	104.9	0.5424282	0.5687829		4.9	20
1,2,4-Trichlorobenzene	A	100.0	103.7	0.6425213	0.6662311		3.7	20
1,1,2-Trichloroethane	A	100.0	106.6	0.4611678	0.4914911		6.6	20
1,1,1-Trichloroethane	A	100.0	105.6	0.3280608	0.3465305		5.6	20
Trichloroethene	A	100.0	104.9	0.248225	0.2603498		4.9	20
Trichlorofluoromethane	A	100.0	100.0	0.3344195	0.3345867		0.05	20
1,2,3-Trichloropropane	A	100.0	104.5	0.2098808	0.2193758		4.5	20
1,3,5-Trimethylbenzene	A	100.0	110.1	2.099163	2.311549		10.1	20
1,2,4-Trimethylbenzene	A	100.0	107.5	2.153212	2.315535		7.5	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1238001
Lab File ID:	0822ICV2.D	Calibration Date:	08/22/11 10:02
Sequence:	1H23702	Injection Date:	08/22/11
Lab Sample ID:	1H23702-ICV2	Injection Time:	14:56

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	100.0	97.57	0.1028831	0.1003873		-2.4	20
m,p-Xylene	A	200.0	208.1	2.244628	2.335936		4.1	20
o-Xylene	A	100.0	103.4	2.340115	2.419699		3.4	20
Bromofluorobenzene	A	30.00	30.05	1.049439	1.051306		0.2	20
Dibromofluoromethane	A	30.00	30.07	0.2820221	0.2827036		0.2	20
1,2-Dichloroethane-d4	A	30.00	30.45	6.703659E-02	6.804654E-02		1.5	20
Toluene-d8	A	30.00	29.28	2.688317	2.623795		-2.4	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_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1238001
Lab File ID:	0822ICV4.D	Calibration Date:	08/22/11 10:02
Sequence:	1H23702	Injection Date:	08/23/11
Lab Sample ID:	1H23702-ICV4	Injection Time:	08:05

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	183.6	5.111117E-02	4.692428E-02		-8.2	20
2-Butanone	A	200.0	163.2	0.108901	8.888215E-02		-18.4	20
2-Hexanone	A	200.0	181.4	0.4013248	0.3640824		-9.3	20
4-Methyl-2-pentanone	A	200.0	178.8	0.1999476	0.1787494		-10.6	20
Bromofluorobenzene	A	30.00	30.45	1.049439	1.065286		1.5	20
Dibromofluoromethane	A	30.00	30.02	0.2820221	0.2822554		0.08	20
1,2-Dichloroethane-d4	A	30.00	30.43	6.703659E-02	6.799387E-02		1.4	20
Toluene-d8	A	30.00	29.90	2.688317	2.679191		-0.3	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_024
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_024
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_024
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

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1238001
Lab File ID:	0824CV1.D	Calibration Date:	08/22/11 10:02
Sequence:	1H23805	Injection Date:	08/24/11
Lab Sample ID:	1H23805-CCV1	Injection Time:	07:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	204.1	5.111117E-02	5.214983E-02		2.0	20	
Benzene	A	100.0	101.7	0.7331969	0.7456272		1.7	20	
Bromobenzene	A	100.0	103.2	0.6710011	0.6925233		3.2	20	
Bromochloromethane	A	100.0	113.4	0.1076096	0.1220814		13.4	20	
Bromodichloromethane	A	100.0	109.8	0.2917901	0.320375		9.8	20	
Bromoform	L	100.0	90.30	0.4099048	0.4864353	0.1	-9.7	20	
Bromomethane	L	100.0	57.50	0.1675078	0.1162699		-42.5	20	*
n-Butylbenzene	A	100.0	96.77	1.86155	1.801356		-3.2	20	
2-Butanone	A	200.0	202.6	0.108901	0.1103438		1.3	20	
sec-Butylbenzene	A	100.0	101.0	2.591308	2.617131		1.0	20	
tert-Butylbenzene	A	100.0	105.9	1.629797	1.726395		5.9	20	
Carbon disulfide	A	100.0	110.8	0.438857	0.4863536		10.8	20	
Carbon tetrachloride	A	100.0	112.9	0.2279527	0.2573704		12.9	20	
Chlorobenzene	A	100.0	107.2	1.888786	2.025353	0.3	7.2	20	
Chloroethane	A	100.0	114.3	8.109292E-02	9.266135E-02		14.3	20	
Chloroform	A	100.0	103.3	0.3902255	0.4031448		3.3	20	
Chloromethane	A	100.0	89.52	0.1750325	0.1566843	0.1	-10.5	20	
2-Chlorotoluene	A	100.0	97.28	1.822054	1.7725		-2.7	20	
4-Chlorotoluene	A	100.0	99.09	2.122562	2.10317		-0.9	20	
Dibromochloromethane	L	100.0	96.28	0.4791446	0.566522		-3.7	20	
1,2-Dibromo-3-chloropropane	L	100.0	95.14	0.1137803	0.1245921		-4.9	20	
1,2-Dibromoethane (EDB)	A	100.0	106.9	0.7204161	0.770311		6.9	20	
Dibromomethane	A	100.0	103.6	0.1696471	0.1756746		3.6	20	
1,2-Dichlorobenzene	A	100.0	104.5	1.034082	1.08058		4.5	20	
1,3-Dichlorobenzene	A	100.0	104.0	1.080591	1.123767		4.0	20	
1,4-Dichlorobenzene	A	100.0	103.9	1.104568	1.148181		3.9	20	
Dichlorodifluoromethane	A	100.0	116.2	0.2380903	0.2767437		16.2	20	
1,1-Dichloroethane	A	100.0	104.0	0.3024845	0.3145761	0.1	4.0	20	
1,2-Dichloroethane	A	100.0	105.0	0.2482211	0.2605292		5.0	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1238001
Lab File ID:	0824CV1.D	Calibration Date:	08/22/11 10:02
Sequence:	1H23805	Injection Date:	08/24/11
Lab Sample ID:	1H23805-CCV1	Injection Time:	07:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	104.6	0.216037	0.2260185		4.6	20
cis-1,2-Dichloroethene	A	100.0	104.3	0.2732348	0.2849208		4.3	20
trans-1,2-Dichloroethene	A	100.0	102.8	0.2545044	0.2616084		2.8	20
1,2-Dichloropropane	A	100.0	98.61	0.1616082	0.1593583		-1.4	20
1,3-Dichloropropane	A	100.0	101.9	0.8245567	0.8401234		1.9	20
2,2-Dichloropropane	A	100.0	108.8	0.2710979	0.2950008		8.8	20
1,1-Dichloropropene	A	100.0	103.9	0.2525233	0.26229		3.9	20
cis-1,3-Dichloropropene	A	100.0	105.2	0.2906269	0.3056476		5.2	20
trans-1,3-Dichloropropene	A	100.0	107.4	0.7937008	0.8528112		7.4	20
Ethylbenzene	A	100.0	103.9	2.983254	3.100686		3.9	20
Hexachlorobutadiene	A	100.0	93.96	0.1707208	0.1604167		-6.0	20
2-Hexanone	A	200.0	198.9	0.4013248	0.3991446		-0.5	20
Isopropylbenzene	A	100.0	107.9	2.65496	2.865529		7.9	20
p-Isopropyltoluene	A	100.0	102.3	1.80556	1.846843		2.3	20
Methylene chloride	A	100.0	98.72	0.1991691	0.1966158		-1.3	20
Naphthalene	A	100.0	101.6	1.277895	1.297813		1.6	20
4-Methyl-2-pentanone	A	200.0	196.6	0.1999476	0.1965684		-1.7	20
Methyl t-Butyl Ether	A	100.0	103.3	0.4718434	0.4874848		3.3	20
n-Propylbenzene	A	100.0	96.93	2.999906	2.907798		-3.1	20
Styrene	A	100.0	108.6	2.116004	2.297404		8.6	20
1,1,2,2-Tetrachloroethane	A	100.0	94.68	0.6657007	0.6303083	0.3	-5.3	20
1,1,1,2-Tetrachloroethane	A	100.0	115.1	0.4278656	0.4925487		15.1	20
Tetrachloroethene	A	100.0	108.0	0.6403302	0.6915827		8.0	20
Toluene	A	100.0	102.3	1.587554	1.62479		2.3	20
1,2,3-Trichlorobenzene	A	100.0	98.02	0.5424282	0.5317175		-2.0	20
1,2,4-Trichlorobenzene	A	100.0	98.54	0.6425213	0.6331609		-1.5	20
1,1,2-Trichloroethane	A	100.0	102.3	0.4611678	0.4718047		2.3	20
1,1,1-Trichloroethane	A	100.0	106.6	0.3280608	0.3498035		6.6	20
Trichloroethene	A	100.0	102.4	0.248225	0.2543242		2.5	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1238001
Lab File ID:	0824CV1.D	Calibration Date:	08/22/11 10:02
Sequence:	1H23805	Injection Date:	08/24/11
Lab Sample ID:	1H23805-CCV1	Injection Time:	07:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	110.4	0.3344195	0.3692516		10.4	20
1,2,3-Trichloropropane	A	100.0	108.4	0.2098808	0.2275581		8.4	20
1,3,5-Trimethylbenzene	A	100.0	101.9	2.099163	2.139615		1.9	20
1,2,4-Trimethylbenzene	A	100.0	101.5	2.153212	2.186331		1.5	20
Vinyl chloride	A	100.0	110.6	0.1028831	0.1137438		10.6	20
m,p-Xylene	A	200.0	208.1	2.244628	2.335112		4.0	20
o-Xylene	A	100.0	104.3	2.340115	2.440048		4.3	20
Bromofluorobenzene	A	30.00	31.06	1.049439	1.086477		3.5	20
Dibromofluoromethane	A	30.00	31.26	0.2820221	0.2938988		4.2	20
1,2-Dichloroethane-d4	A	30.00	29.98	6.703659E-02	6.699329E-02		-0.06	20
Toluene-d8	A	30.00	30.49	2.688317	2.732482		1.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1238001
Lab File ID:	0825CCV2.D	Calibration Date:	08/22/11 10:02
Sequence:	1H23807	Injection Date:	08/25/11
Lab Sample ID:	1H23807-CCV1	Injection Time:	18:20

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	226.0	5.111117E-02	0.0577505		13.0	20
Benzene	A	100.0	104.9	0.7331969	0.769151		4.9	20
Bromobenzene	A	100.0	106.1	0.6710011	0.7121098		6.1	20
Bromochloromethane	A	100.0	114.9	0.1076096	0.1236747		14.9	20
Bromodichloromethane	A	100.0	112.1	0.2917901	0.3270937		12.1	20
Bromoform	L	100.0	91.48	0.4099048	0.4929635	0.1	-8.5	20
Bromomethane	L	100.0	56.04	0.1675078	0.1132168		-44.0	20 *
n-Butylbenzene	A	100.0	97.37	1.86155	1.812526		-2.6	20
2-Butanone	A	200.0	209.1	0.108901	0.1138437		4.5	20
sec-Butylbenzene	A	100.0	102.3	2.591308	2.65133		2.3	20
tert-Butylbenzene	A	100.0	108.2	1.629797	1.763073		8.2	20
Carbon disulfide	A	100.0	115.6	0.438857	0.5075472		15.7	20
Carbon tetrachloride	A	100.0	113.9	0.2279527	0.2595563		13.9	20
Chlorobenzene	A	100.0	106.8	1.888786	2.01715	0.3	6.8	20
Chloroethane	A	100.0	112.1	8.109292E-02	0.0909215		12.1	20
Chloroform	A	100.0	106.7	0.3902255	0.4165296		6.7	20
Chloromethane	A	100.0	81.47	0.1750325	0.1426067	0.1	-18.5	20
2-Chlorotoluene	A	100.0	102.6	1.822054	1.869192		2.6	20
4-Chlorotoluene	A	100.0	100.7	2.122562	2.136841		0.7	20
Dibromochloromethane	L	100.0	97.97	0.4791446	0.5767404		-2.0	20
1,2-Dibromo-3-chloropropane	L	100.0	97.94	0.1137803	0.1282784		-2.1	20
1,2-Dibromoethane (EDB)	A	100.0	110.4	0.7204161	0.7952415		10.4	20
Dibromomethane	A	100.0	107.4	0.1696471	0.1821639		7.4	20
1,2-Dichlorobenzene	A	100.0	106.6	1.034082	1.102479		6.6	20
1,3-Dichlorobenzene	A	100.0	105.9	1.080591	1.144843		5.9	20
1,4-Dichlorobenzene	A	100.0	105.8	1.104568	1.16911		5.8	20
Dichlorodifluoromethane	A	100.0	114.1	0.2380903	0.2716301		14.1	20
1,1-Dichloroethane	A	100.0	107.6	0.3024845	0.3255142	0.1	7.6	20
1,2-Dichloroethane	A	100.0	110.8	0.2482211	0.2749769		10.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1238001
Lab File ID:	0825CCV2.D	Calibration Date:	08/22/11 10:02
Sequence:	1H23807	Injection Date:	08/25/11
Lab Sample ID:	1H23807-CCV1	Injection Time:	18:20

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	104.9	0.216037	0.2265716		4.9	20
cis-1,2-Dichloroethene	A	100.0	107.4	0.2732348	0.2935263		7.4	20
trans-1,2-Dichloroethene	A	100.0	106.3	0.2545044	0.2705196		6.3	20
1,2-Dichloropropane	A	100.0	100.9	0.1616082	0.1630677		0.9	20
1,3-Dichloropropane	A	100.0	104.9	0.8245567	0.8646365		4.9	20
2,2-Dichloropropane	A	100.0	98.23	0.2710979	0.2663046		-1.8	20
1,1-Dichloropropene	A	100.0	104.8	0.2525233	0.2645758		4.8	20
cis-1,3-Dichloropropene	A	100.0	107.3	0.2906269	0.3117708		7.3	20
trans-1,3-Dichloropropene	A	100.0	109.4	0.7937008	0.8680594		9.4	20
Ethylbenzene	A	100.0	106.0	2.983254	3.163356		6.0	20
Hexachlorobutadiene	A	100.0	91.87	0.1707208	0.1568393		-8.1	20
2-Hexanone	A	200.0	206.8	0.4013248	0.4149746		3.4	20
Isopropylbenzene	A	100.0	105.8	2.65496	2.808367		5.8	20
p-Isopropyltoluene	A	100.0	104.3	1.80556	1.882984		4.3	20
Methylene chloride	A	100.0	105.3	0.1991691	0.2097892		5.3	20
Naphthalene	A	100.0	104.7	1.277895	1.337742		4.7	20
4-Methyl-2-pentanone	A	200.0	209.7	0.1999476	0.2096311		4.8	20
Methyl t-Butyl Ether	A	100.0	106.1	0.4718434	0.500809		6.1	20
n-Propylbenzene	A	100.0	99.86	2.999906	2.995685		-0.1	20
Styrene	A	100.0	109.7	2.116004	2.3223		9.7	20
1,1,2,2-Tetrachloroethane	A	100.0	98.25	0.6657007	0.6540741	0.3	-1.7	20
1,1,1,2-Tetrachloroethane	A	100.0	116.2	0.4278656	0.4970938		16.2	20
Tetrachloroethene	A	100.0	103.6	0.6403302	0.6634274		3.6	20
Toluene	A	100.0	103.8	1.587554	1.647909		3.8	20
1,2,3-Trichlorobenzene	A	100.0	101.2	0.5424282	0.5488891		1.2	20
1,2,4-Trichlorobenzene	A	100.0	100.3	0.6425213	0.6444398		0.3	20
1,1,2-Trichloroethane	A	100.0	105.5	0.4611678	0.4866455		5.5	20
1,1,1-Trichloroethane	A	100.0	108.0	0.3280608	0.3542701		8.0	20
Trichloroethene	A	100.0	105.3	0.248225	0.2614269		5.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1238001
Lab File ID:	0825CCV2.D	Calibration Date:	08/22/11 10:02
Sequence:	1H23807	Injection Date:	08/25/11
Lab Sample ID:	1H23807-CCV1	Injection Time:	18:20

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	111.0	0.3344195	0.3711629		11.0	20
1,2,3-Trichloropropane	A	100.0	111.6	0.2098808	0.2343504		11.7	20
1,3,5-Trimethylbenzene	A	100.0	103.7	2.099163	2.177251		3.7	20
1,2,4-Trimethylbenzene	A	100.0	105.0	2.153212	2.261033		5.0	20
Vinyl chloride	A	100.0	113.8	0.1028831	0.1170914		13.8	20
m,p-Xylene	A	200.0	211.9	2.244628	2.37813		5.9	20
o-Xylene	A	100.0	106.9	2.340115	2.501399		6.9	20
Bromofluorobenzene	A	30.00	31.38	1.049439	1.097603		4.6	20
Dibromofluoromethane	A	30.00	31.59	0.2820221	0.2969849		5.3	20
1,2-Dichloroethane-d4	A	30.00	30.58	6.703659E-02	6.832188E-02		1.9	20
Toluene-d8	A	30.00	30.49	2.688317	2.732196		1.6	20

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

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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	Q, 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, Q, 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	Q, 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

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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_024

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_024

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	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H20001-BSD1 File ID: 0820LCD1.D

Sampled: Prepared: Analyzed: 08/20/11 22:19

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	16.0	2.50	5.00	10.0	
71-43-2	Benzene	6.15	0.250	0.500	1.00	
108-86-1	Bromobenzene	5.31	0.250	0.500	1.00	
74-97-5	Bromochloromethane	4.46	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	4.94	0.250	0.500	1.00	
75-25-2	Bromoform	4.54	0.250	0.500	1.00	
74-83-9	Bromomethane	4.52	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	6.07	0.250	0.500	1.00	
78-93-3	2-Butanone	11.0	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	5.56	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	5.37	0.250	0.500	1.00	
75-15-0	Carbon disulfide	5.30	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	5.85	0.250	0.500	1.00	
108-90-7	Chlorobenzene	4.97	0.250	0.500	1.00	
75-00-3	Chloroethane	6.91	0.500	1.00	2.00	
67-66-3	Chloroform	5.11	0.250	0.500	1.00	
74-87-3	Chloromethane	5.40	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	6.11	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	5.66	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	4.39	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	4.73	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	4.79	0.250	0.500	1.00	
74-95-3	Dibromomethane	4.89	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	5.19	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	5.18	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	5.37	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	5.24	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	6.16	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	4.88	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	5.30	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	4.99	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	5.29	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	6.47	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	5.56	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	4.67	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	6.21	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	5.27	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	4.31	0.250	0.500	1.00	
100-41-4	Ethylbenzene	5.31	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	5.80	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H20001-BSD1 File ID: 0820LCD1.D

Sampled: Prepared: Analyzed: 08/20/11 22:19

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	11.4	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	4.76	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	5.38	0.250	0.500	1.00	
75-09-2	Methylene chloride	5.41	0.500	1.00	2.00	
91-20-3	Naphthalene	4.94	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	11.2	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	5.28	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	5.96	0.250	0.500	1.00	
100-42-5	Styrene	4.91	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	6.32	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	4.54	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	4.76	0.250	0.500	1.00	
108-88-3	Toluene	5.65	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	5.33	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	4.67	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	5.13	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	5.60	0.250	0.500	1.00	
79-01-6	Trichloroethene	5.36	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	5.46	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	4.60	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	5.94	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	5.61	0.250	0.500	1.00	
75-01-4	Vinyl chloride	6.04	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	10.7	0.500	1.00	2.00	
95-47-6	o-Xylene	5.16	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.74	99.1	75 - 120	
Dibromofluoromethane	30.00	28.22	94.1	85 - 115	
1,2-Dichloroethane-d4	30.00	28.71	95.7	70 - 120	
Toluene-d8	30.00	30.16	101	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H23519-BLK1 File ID: 0824BLK1.D

Sampled: Prepared: Analyzed: 08/24/11 09:01

Solids: Preparation: 5030B Dilution:

Batch: 1H23519 Sequence: 1H23805 Calibration: 1238001 Instrument: MS-VOA6

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	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H23519-BLK1 File ID: 0824BLK1.D

Sampled: Prepared: Analyzed: 08/24/11 09:01

Solids: Preparation: 5030B Dilution:

Batch: 1H23519 Sequence: 1H23805 Calibration: 1238001 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.26	97.5	75 - 120	
Dibromofluoromethane	30.00	31.50	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.67	102	70 - 120	
Toluene-d8	30.00	29.07	96.9	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H23519-BS1 File ID: 0824LCS1.D

Sampled: Prepared: Analyzed: 08/24/11 07:42

Solids: Preparation: 5030B Dilution:

Batch: 1H23519 Sequence: 1H23805 Calibration: 1238001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	173	2.50	5.00	10.0	
71-43-2	Benzene	50.4	0.250	0.500	1.00	
108-86-1	Bromobenzene	49.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	53.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	49.8	0.250	0.500	1.00	
75-25-2	Bromoform	41.7	0.250	0.500	1.00	
74-83-9	Bromomethane	26.7	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	47.2	0.250	0.500	1.00	
78-93-3	2-Butanone	124	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	48.4	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	50.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	51.4	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	53.4	0.250	0.500	1.00	
108-90-7	Chlorobenzene	49.1	0.250	0.500	1.00	
75-00-3	Chloroethane	47.5	0.500	1.00	2.00	
67-66-3	Chloroform	49.3	0.250	0.500	1.00	
74-87-3	Chloromethane	34.5	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	47.6	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	46.8	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	44.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	45.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	49.0	0.250	0.500	1.00	
74-95-3	Dibromomethane	48.7	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	49.6	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	49.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	41.8	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	50.2	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	50.0	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	46.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	50.7	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	48.4	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	48.0	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	48.1	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	50.5	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	46.3	0.250	0.500	1.00	
100-41-4	Ethylbenzene	48.4	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	48.0	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H23519-BS1 File ID: 0824LCS1.D

Sampled: Prepared: Analyzed: 08/24/11 07:42

Solids: Preparation: 5030B Dilution:

Batch: 1H23519 Sequence: 1H23805 Calibration: 1238001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	118	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	47.0	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	47.3	0.250	0.500	1.00	
75-09-2	Methylene chloride	45.5	0.500	1.00	2.00	
91-20-3	Naphthalene	49.7	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	95.7	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	49.4	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	47.3	0.250	0.500	1.00	
100-42-5	Styrene	49.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	45.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	52.1	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	49.3	0.250	0.500	1.00	
108-88-3	Toluene	48.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.5	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	47.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	49.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	52.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	49.6	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	50.0	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	49.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	47.9	0.250	0.500	1.00	
75-01-4	Vinyl chloride	48.4	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	100	0.500	1.00	2.00	
95-47-6	o-Xylene	48.9	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.28	101	75 - 120	
Dibromofluoromethane	30.00	31.60	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.95	103	70 - 120	
Toluene-d8	30.00	30.16	101	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H25013-BLK1 File ID: 0825BLK2.D

Sampled: Prepared: Analyzed: 08/25/11 20:05

Solids: Preparation: 5030B Dilution:

Batch: 1H25013 Sequence: 1H23807 Calibration: 1238001 Instrument: MS-VOA6

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	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H25013-BLK1 File ID: 0825BLK2.D

Sampled: Prepared: Analyzed: 08/25/11 20:05

Solids: Preparation: 5030B Dilution:

Batch: 1H25013 Sequence: 1H23807 Calibration: 1238001 Instrument: MS-VOA6

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

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.90	99.7	75 - 120	
Dibromofluoromethane	30.00	31.26	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.51	102	70 - 120	
Toluene-d8	30.00	29.25	97.5	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H25013-BS1 File ID: 0825LCS2.D

Sampled: Prepared: Analyzed: 08/25/11 18:47

Solids: Preparation: 5030B Dilution:

Batch: 1H25013 Sequence: 1H23807 Calibration: 1238001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	149	2.50	5.00	10.0	
71-43-2	Benzene	51.5	0.250	0.500	1.00	
108-86-1	Bromobenzene	51.4	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.8	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	52.1	0.250	0.500	1.00	
75-25-2	Bromoform	43.0	0.250	0.500	1.00	
74-83-9	Bromomethane	22.6	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	48.1	0.250	0.500	1.00	
78-93-3	2-Butanone	110	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	49.2	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	55.1	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	53.3	0.250	0.500	1.00	
108-90-7	Chlorobenzene	51.7	0.250	0.500	1.00	
75-00-3	Chloroethane	53.8	0.500	1.00	2.00	
67-66-3	Chloroform	51.3	0.250	0.500	1.00	
74-87-3	Chloromethane	33.0	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	48.7	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	45.5	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	45.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	51.6	0.250	0.500	1.00	
74-95-3	Dibromomethane	51.4	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	51.5	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.5	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	52.3	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	40.8	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	51.4	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	53.6	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	47.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	52.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	50.5	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.4	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.0	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	48.1	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	50.3	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.6	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	48.6	0.250	0.500	1.00	
100-41-4	Ethylbenzene	50.6	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	47.0	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H25013-BS1 File ID: 0825LCS2.D

Sampled: Prepared: Analyzed: 08/25/11 18:47

Solids: Preparation: 5030B Dilution:

Batch: 1H25013 Sequence: 1H23807 Calibration: 1238001 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	
98-82-8	Isopropylbenzene	48.5	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	48.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	49.8	0.500	1.00	2.00	
91-20-3	Naphthalene	51.2	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	98.5	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	51.8	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	48.7	0.250	0.500	1.00	
100-42-5	Styrene	51.6	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	48.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	54.8	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	49.6	0.250	0.500	1.00	
108-88-3	Toluene	50.9	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.0	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	48.1	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	51.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	53.6	0.250	0.500	1.00	
79-01-6	Trichloroethene	51.6	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	51.9	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	51.4	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	51.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.9	0.250	0.500	1.00	
75-01-4	Vinyl chloride	52.9	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	102	0.500	1.00	2.00	
95-47-6	o-Xylene	50.6	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.27	101	75 - 120	
Dibromofluoromethane	30.00	31.22	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.50	102	70 - 120	
Toluene-d8	30.00	30.56	102	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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
GW0173-R	08/15/11 11:53	08/16/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 15:44	5.12	14.00	
GW0198	08/15/11 14:03	08/16/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 16:12	5.05	14.00	
GW9084-TB	08/15/11 08:00	08/16/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 14:19	5.22	14.00	
GW0197	08/16/11 10:22	08/17/11 09:41	08/25/11 00:00	N/A	14.00	08/26/11 04:06	9.70	14.00	
GW8095-TB	08/16/11 08:00	08/17/11 09:41	08/25/11 00:00	N/A	14.00	08/25/11 20:32	9.48	14.00	
GW0215	08/17/11 11:28	08/18/11 08:30	08/24/11 00:00	N/A	14.00	08/24/11 10:48	6.93	14.00	
GW0230	08/16/11 15:13	08/18/11 08:30	08/24/11 00:00	N/A	14.00	08/24/11 13:55	7.90	14.00	
GW0231	08/16/11 15:13	08/18/11 08:30	08/24/11 00:00	N/A	14.00	08/24/11 14:22	7.92	14.00	
GW8096-TB	08/17/11 08:00	08/18/11 08:30	08/24/11 00:00	N/A	14.00	08/24/11 09:27	7.02	14.00	
GW0195	08/17/11 16:09	08/19/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 21:51	3.20	14.00	
GW0232	08/17/11 14:49	08/19/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 20:26	3.19	14.00	
GW8097-TB	08/17/11 08:00	08/19/11 08:30	08/20/11 00:00	N/A	14.00	08/20/11 14:47	3.24	14.00	

Data for SW8270C Forms

ANALYSIS DATA SHEET

GW0173-R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-01	File ID:	0817401.D
Sampled:	08/15/11 11:53	Prepared:	08/17/11 10:15	Analyzed:	09/07/11 01:23
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16013 Sequence: 1I25004 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	U
100-52-7	Benzaldehyde		1.20	2.40	4.81	U
92-87-5	Benzidine		12.0	24.0	48.1	X, U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	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	X, Q, U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	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	Q, U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	U
51-28-5	2,4-Dinitrophenol		12.0	24.0	48.1	X, U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	Q, X, U

ANALYSIS DATA SHEET

GW0173-R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-01	File ID:	0817401.D
Sampled:	08/15/11 11:53	Prepared:	08/17/11 10:15	Analyzed:	09/07/11 01:23
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16013 Sequence: 1I25004 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	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	U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	U
85-01-8	Phenanthrene		1.20	2.40	4.81	U
108-95-2	Phenol		1.20	2.40	4.81	U
129-00-0	Pyrene		1.20	2.40	4.81	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	20.58	42.8	50 - 110	*
2-Fluorophenol	96.15	23.04	24.0	20 - 110	
Nitrobenzene-d5	48.08	29.47	61.3	40 - 110	
Phenol-d6	96.15	13.65	14.2	0 - 110	
Terphenyl-d14	48.08	55.90	116	50 - 135	
2,4,6-Tribromophenol	96.15	75.31	78.3	40 - 125	

ANALYSIS DATA SHEET

GW0198

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-03	File ID:	0817403.D
Sampled:	08/15/11 14:03	Prepared:	08/17/11 10:15	Analyzed:	09/07/11 02:04
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16013 Sequence: 1I25004 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	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	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	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	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	Q, 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	Q, X, U

ANALYSIS DATA SHEET

GW0198

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-03	File ID:	0817403.D
Sampled:	08/15/11 14:03	Prepared:	08/17/11 10:15	Analyzed:	09/07/11 02:04
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H16013 Sequence: 1I25004 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	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	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	22.13	44.3	50 - 110	*
2-Fluorophenol	100.0	25.07	25.1	20 - 110	
Nitrobenzene-d5	50.00	33.96	67.9	40 - 110	
Phenol-d6	100.0	14.58	14.6	0 - 110	
Terphenyl-d14	50.00	56.03	112	50 - 135	
2,4,6-Tribromophenol	100.0	79.94	79.9	40 - 125	

ANALYSIS DATA SHEET

GW0197

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-01	File ID:	0818101.D
Sampled:	08/16/11 10:22	Prepared:	08/19/11 11:00	Analyzed:	09/07/11 21:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H17011 Sequence: 1I25109 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.16	2.31	4.63	U
208-96-8	Acenaphthylene		1.16	2.31	4.63	U
98-86-2	Acetophenone	123	1.16	2.31	4.63	E
120-12-7	Anthracene		1.16	2.31	4.63	U
1912-24-9	Atrazine		1.16	2.31	4.63	U
100-52-7	Benzaldehyde		1.16	2.31	4.63	U
92-87-5	Benzidine		11.6	23.1	46.3	X, U
56-55-3	Benzo(a)anthracene		1.16	2.31	4.63	U
50-32-8	Benzo(a)pyrene		1.16	2.31	4.63	U
205-99-2	Benzo(b)fluoranthene		1.16	2.31	4.63	X, U
191-24-2	Benzo(g,h,i)perylene		1.16	2.31	4.63	U
65-85-0	Benzoic acid		11.6	23.1	46.3	U
207-08-9	Benzo(k)fluoranthene		1.16	2.31	4.63	U
92-52-4	1,1-Biphenyl		1.16	2.31	4.63	U
101-55-3	4-Bromophenyl-phenylether		1.16	2.31	4.63	U
85-68-7	Butylbenzylphthalate		1.16	2.31	4.63	Q, X, U
105-60-2	Caprolactam		1.16	2.31	4.63	Q, U
86-74-8	Carbazole		1.16	2.31	4.63	U
59-50-7	4-Chloro-3-methylphenol		1.16	2.31	4.63	U
106-47-8	4-Chloroaniline		1.16	2.31	4.63	U
111-91-1	Bis(2-chloroethoxy)methane		1.16	2.31	4.63	U
111-44-4	Bis(2-chloroethyl)ether		1.16	2.31	4.63	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.16	2.31	4.63	U
91-58-7	2-Chloronaphthalene		1.16	2.31	4.63	U
95-57-8	2-Chlorophenol		1.16	2.31	4.63	U
7005-72-3	4-Chlorophenyl phenyl ether		1.16	2.31	4.63	U
218-01-9	Chrysene		1.16	2.31	4.63	U
53-70-3	Dibenz(a,h)anthracene		1.16	2.31	4.63	U
132-64-9	Dibenzofuran		1.16	2.31	4.63	U
84-74-2	Di-n-butylphthalate		1.16	2.31	4.63	U
91-94-1	3,3'-Dichlorobenzidine		1.16	2.31	4.63	X, U
120-83-2	2,4-Dichlorophenol		1.16	2.31	4.63	U
84-66-2	Diethylphthalate	10.1	1.16	2.31	4.63	
105-67-9	2,4-Dimethylphenol		4.63	9.26	18.5	U
131-11-3	Dimethyl phthalate		1.16	2.31	4.63	U
534-52-1	4,6-Dinitro-2-methylphenol		4.63	9.26	18.5	U
51-28-5	2,4-Dinitrophenol		11.6	23.1	46.3	X, U
121-14-2	2,4-Dinitrotoluene		1.16	2.31	4.63	U
606-20-2	2,6-Dinitrotoluene		1.16	2.31	4.63	U
117-84-0	Di-n-octylphthalate		1.16	2.31	4.63	Q, X, U

ANALYSIS DATA SHEET

GW0197

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-01	File ID:	0818101.D
Sampled:	08/16/11 10:22	Prepared:	08/19/11 11:00	Analyzed:	09/07/11 21:05
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H17011 Sequence: 1I25109 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.16	2.31	4.63	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.16	2.31	4.63	Q, X, U
206-44-0	Fluoranthene		1.16	2.31	4.63	U
86-73-7	Fluorene		1.16	2.31	4.63	U
118-74-1	Hexachlorobenzene		1.16	2.31	4.63	U
87-68-3	Hexachlorobutadiene		1.16	2.31	4.63	U
77-47-4	Hexachlorocyclopentadiene		1.16	2.31	4.63	U
67-72-1	Hexachloroethane		1.16	2.31	4.63	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.16	2.31	4.63	U
78-59-1	Isophorone	2.35	1.16	2.31	4.63	J
90-12-0	1-Methylnaphthalene	6.32	1.16	2.31	4.63	
91-57-6	2-Methylnaphthalene	5.08	1.16	2.31	4.63	
95-48-7	2-Methylphenol		1.16	2.31	4.63	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.16	2.31	4.63	U
100-01-6	4-Nitroaniline		4.63	9.26	18.5	U
99-09-2	3-Nitroaniline		4.63	9.26	18.5	U
88-74-4	2-Nitroaniline		4.63	9.26	18.5	U
98-95-3	Nitrobenzene		1.16	2.31	4.63	U
100-02-7	4-Nitrophenol		4.63	9.26	18.5	U
88-75-5	2-Nitrophenol		1.16	2.31	4.63	U
86-30-6	N-Nitrosodiphenylamine		1.16	2.31	4.63	U
621-64-7	N-Nitroso-di-n-propylamine		1.16	2.31	4.63	U
87-86-5	Pentachlorophenol		4.63	9.26	18.5	U
85-01-8	Phenanthrene		1.16	2.31	4.63	U
108-95-2	Phenol		1.16	2.31	4.63	U
129-00-0	Pyrene		1.16	2.31	4.63	U
88-06-2	2,4,6-Trichlorophenol		1.16	2.31	4.63	U
95-95-4	2,4,5-Trichlorophenol		1.16	2.31	4.63	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	22.53	48.7	50 - 110	*
2-Fluorophenol	92.59	29.58	31.9	20 - 110	
Nitrobenzene-d5	46.30	31.51	68.1	40 - 110	
Phenol-d6	92.59	14.97	16.2	0 - 110	
Terphenyl-d14	46.30	40.23	86.9	50 - 135	
2,4,6-Tribromophenol	92.59	70.22	75.8	40 - 125	

ANALYSIS DATA SHEET

GW0197

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-01RE1	File ID:	0818101D.D
Sampled:	08/16/11 10:22	Prepared:	08/19/11 11:00	Analyzed:	09/08/11 22:13
Solids:		Preparation:	EXT_3510	Dilution:	5

Batch: 1H17011 Sequence: 1I25210 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		5.79	11.6	23.1	U
208-96-8	Acenaphthylene		5.79	11.6	23.1	U
98-86-2	Acetophenone	123	5.79	11.6	23.1	D
120-12-7	Anthracene		5.79	11.6	23.1	U
1912-24-9	Atrazine		5.79	11.6	23.1	U
100-52-7	Benzaldehyde		5.79	11.6	23.1	U
92-87-5	Benzidine		57.9	116	231	X, U
56-55-3	Benzo(a)anthracene		5.79	11.6	23.1	U
50-32-8	Benzo(a)pyrene		5.79	11.6	23.1	U
205-99-2	Benzo(b)fluoranthene		5.79	11.6	23.1	X, U
191-24-2	Benzo(g,h,i)perylene		5.79	11.6	23.1	U
65-85-0	Benzoic acid		57.9	116	231	U
207-08-9	Benzo(k)fluoranthene		5.79	11.6	23.1	U
92-52-4	1,1-Biphenyl		5.79	11.6	23.1	U
101-55-3	4-Bromophenyl-phenylether		5.79	11.6	23.1	U
85-68-7	Butylbenzylphthalate		5.79	11.6	23.1	Q, X, U
105-60-2	Caprolactam		5.79	11.6	23.1	Q, U
86-74-8	Carbazole		5.79	11.6	23.1	U
59-50-7	4-Chloro-3-methylphenol		5.79	11.6	23.1	U
106-47-8	4-Chloroaniline		5.79	11.6	23.1	U
111-91-1	Bis(2-chloroethoxy)methane		5.79	11.6	23.1	U
111-44-4	Bis(2-chloroethyl)ether		5.79	11.6	23.1	U
108-60-1	2,2'-Oxybis-1-chloropropane		5.79	11.6	23.1	Y, U
91-58-7	2-Chloronaphthalene		5.79	11.6	23.1	X, U
95-57-8	2-Chlorophenol		5.79	11.6	23.1	U
7005-72-3	4-Chlorophenyl phenyl ether		5.79	11.6	23.1	U
218-01-9	Chrysene		5.79	11.6	23.1	U
53-70-3	Dibenz(a,h)anthracene		5.79	11.6	23.1	U
132-64-9	Dibenzofuran		5.79	11.6	23.1	U
84-74-2	Di-n-butylphthalate		5.79	11.6	23.1	U
91-94-1	3,3'-Dichlorobenzidine		5.79	11.6	23.1	X, U
120-83-2	2,4-Dichlorophenol		5.79	11.6	23.1	U
84-66-2	Diethylphthalate		5.79	11.6	23.1	U
105-67-9	2,4-Dimethylphenol		23.1	46.3	92.6	U
131-11-3	Dimethyl phthalate		5.79	11.6	23.1	U
534-52-1	4,6-Dinitro-2-methylphenol		23.1	46.3	92.6	U
51-28-5	2,4-Dinitrophenol		57.9	116	231	X, U
121-14-2	2,4-Dinitrotoluene		5.79	11.6	23.1	U
606-20-2	2,6-Dinitrotoluene		5.79	11.6	23.1	U
117-84-0	Di-n-octylphthalate		5.79	11.6	23.1	Q, X, U

ANALYSIS DATA SHEET

GW0197

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-01RE1	File ID:	0818101D.D
Sampled:	08/16/11 10:22	Prepared:	08/19/11 11:00	Analyzed:	09/08/11 22:13
Solids:		Preparation:	EXT_3510	Dilution:	5

Batch: 1H17011 Sequence: 1I25210 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		5.79	11.6	23.1	U
117-81-7	Bis(2-ethylhexyl)phthalate		5.79	11.6	23.1	Q, X, U
206-44-0	Fluoranthene		5.79	11.6	23.1	U
86-73-7	Fluorene		5.79	11.6	23.1	U
118-74-1	Hexachlorobenzene		5.79	11.6	23.1	U
87-68-3	Hexachlorobutadiene		5.79	11.6	23.1	U
77-47-4	Hexachlorocyclopentadiene		5.79	11.6	23.1	U
67-72-1	Hexachloroethane		5.79	11.6	23.1	U
193-39-5	Indeno(1,2,3-cd)pyrene		5.79	11.6	23.1	U
78-59-1	Isophorone		5.79	11.6	23.1	U
90-12-0	1-Methylnaphthalene	8.32	5.79	11.6	23.1	J, D
91-57-6	2-Methylnaphthalene	6.82	5.79	11.6	23.1	J, D
95-48-7	2-Methylphenol		5.79	11.6	23.1	U
108-39-4/106	3-Methylphenol/4-Methylphenol		5.79	11.6	23.1	U
100-01-6	4-Nitroaniline		23.1	46.3	92.6	U
99-09-2	3-Nitroaniline		23.1	46.3	92.6	U
88-74-4	2-Nitroaniline		23.1	46.3	92.6	U
98-95-3	Nitrobenzene		5.79	11.6	23.1	U
100-02-7	4-Nitrophenol		23.1	46.3	92.6	U
88-75-5	2-Nitrophenol		5.79	11.6	23.1	U
86-30-6	N-Nitrosodiphenylamine		5.79	11.6	23.1	U
621-64-7	N-Nitroso-di-n-propylamine		5.79	11.6	23.1	U
87-86-5	Pentachlorophenol		23.1	46.3	92.6	U
85-01-8	Phenanthrene		5.79	11.6	23.1	U
108-95-2	Phenol		5.79	11.6	23.1	U
129-00-0	Pyrene		5.79	11.6	23.1	U
88-06-2	2,4,6-Trichlorophenol		5.79	11.6	23.1	U
95-95-4	2,4,5-Trichlorophenol		5.79	11.6	23.1	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.30	27.31	59.0	50 - 110	
2-Fluorophenol	92.59	30.43	32.9	20 - 110	
Nitrobenzene-d5	46.30	32.95	71.2	40 - 110	
Phenol-d6	92.59	18.11	19.6	0 - 110	
Terphenyl-d14	46.30	38.47	83.1	50 - 135	
2,4,6-Tribromophenol	92.59	69.32	74.9	40 - 125	

ANALYSIS DATA SHEET

GW0215

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Water Laboratory ID: 1108205-01 File ID: 0820501.D

Sampled: 08/17/11 11:28 Prepared: 08/19/11 11:00 Analyzed: 09/08/11 15:30

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 1H17011 Sequence: 1I25210 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	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	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	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	X, U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	X, U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	Q, X, U

ANALYSIS DATA SHEET

GW0215

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-01	File ID:	0820501.D
Sampled:	08/17/11 11:28	Prepared:	08/19/11 11:00	Analyzed:	09/08/11 15:30
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H17011 Sequence: 1I25210 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	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	33.81	67.6	50 - 110	
2-Fluorophenol	100.0	35.23	35.2	20 - 110	
Nitrobenzene-d5	50.00	34.33	68.7	40 - 110	
Phenol-d6	100.0	18.94	18.9	0 - 110	
Terphenyl-d14	50.00	40.16	80.3	50 - 135	
2,4,6-Tribromophenol	100.0	74.02	74.0	40 - 125	

ANALYSIS DATA SHEET

GW0230

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-03	File ID:	0820503.D
Sampled:	08/16/11 15:13	Prepared:	08/19/11 11:00	Analyzed:	09/08/11 16:10
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H17011 Sequence: 1I25210 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	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	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	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	X, 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	Q, X, U

ANALYSIS DATA SHEET

GW0230

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-03	File ID:	0820503.D
Sampled:	08/16/11 15:13	Prepared:	08/19/11 11:00	Analyzed:	09/08/11 16:10
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H17011 Sequence: 1I25210 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	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	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	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	U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	30.14	63.9	50 - 110	
2-Fluorophenol	94.34	31.41	33.3	20 - 110	
Nitrobenzene-d5	47.17	34.75	73.7	40 - 110	
Phenol-d6	94.34	16.63	17.6	0 - 110	
Terphenyl-d14	47.17	35.93	76.2	50 - 135	
2,4,6-Tribromophenol	94.34	72.91	77.3	40 - 125	

ANALYSIS DATA SHEET

GW0231

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-05	File ID:	0820505.D
Sampled:	08/16/11 15:13	Prepared:	08/19/11 11:00	Analyzed:	09/08/11 16:51
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H17011 Sequence: 1I25210 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.19	2.38	4.76	U
208-96-8	Acenaphthylene		1.19	2.38	4.76	U
98-86-2	Acetophenone		1.19	2.38	4.76	U
120-12-7	Anthracene		1.19	2.38	4.76	U
1912-24-9	Atrazine		1.19	2.38	4.76	U
100-52-7	Benzaldehyde		1.19	2.38	4.76	U
92-87-5	Benzidine		11.9	23.8	47.6	X, U
56-55-3	Benzo(a)anthracene		1.19	2.38	4.76	U
50-32-8	Benzo(a)pyrene		1.19	2.38	4.76	U
205-99-2	Benzo(b)fluoranthene		1.19	2.38	4.76	X, U
191-24-2	Benzo(g,h,i)perylene		1.19	2.38	4.76	U
65-85-0	Benzoic acid		11.9	23.8	47.6	U
207-08-9	Benzo(k)fluoranthene		1.19	2.38	4.76	U
92-52-4	1,1-Biphenyl		1.19	2.38	4.76	U
101-55-3	4-Bromophenyl-phenylether		1.19	2.38	4.76	U
85-68-7	Butylbenzylphthalate		1.19	2.38	4.76	Q, X, U
105-60-2	Caprolactam		1.19	2.38	4.76	Q, U
86-74-8	Carbazole		1.19	2.38	4.76	U
59-50-7	4-Chloro-3-methylphenol		1.19	2.38	4.76	U
106-47-8	4-Chloroaniline		1.19	2.38	4.76	U
111-91-1	Bis(2-chloroethoxy)methane		1.19	2.38	4.76	U
111-44-4	Bis(2-chloroethyl)ether		1.19	2.38	4.76	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.19	2.38	4.76	U
91-58-7	2-Chloronaphthalene		1.19	2.38	4.76	X, U
95-57-8	2-Chlorophenol		1.19	2.38	4.76	U
7005-72-3	4-Chlorophenyl phenyl ether		1.19	2.38	4.76	U
218-01-9	Chrysene		1.19	2.38	4.76	U
53-70-3	Dibenz(a,h)anthracene		1.19	2.38	4.76	U
132-64-9	Dibenzofuran		1.19	2.38	4.76	U
84-74-2	Di-n-butylphthalate		1.19	2.38	4.76	U
91-94-1	3,3'-Dichlorobenzidine		1.19	2.38	4.76	X, U
120-83-2	2,4-Dichlorophenol		1.19	2.38	4.76	U
84-66-2	Diethylphthalate		1.19	2.38	4.76	U
105-67-9	2,4-Dimethylphenol		4.76	9.52	19.0	U
131-11-3	Dimethyl phthalate		1.19	2.38	4.76	U
534-52-1	4,6-Dinitro-2-methylphenol		4.76	9.52	19.0	U
51-28-5	2,4-Dinitrophenol		11.9	23.8	47.6	X, U
121-14-2	2,4-Dinitrotoluene		1.19	2.38	4.76	U
606-20-2	2,6-Dinitrotoluene		1.19	2.38	4.76	U
117-84-0	Di-n-octylphthalate		1.19	2.38	4.76	Q, X, U

ANALYSIS DATA SHEET

GW0231

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-05	File ID:	0820505.D
Sampled:	08/16/11 15:13	Prepared:	08/19/11 11:00	Analyzed:	09/08/11 16:51
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H17011 Sequence: 1I25210 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.19	2.38	4.76	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.19	2.38	4.76	Q, X, U
206-44-0	Fluoranthene		1.19	2.38	4.76	U
86-73-7	Fluorene		1.19	2.38	4.76	U
118-74-1	Hexachlorobenzene		1.19	2.38	4.76	U
87-68-3	Hexachlorobutadiene		1.19	2.38	4.76	U
77-47-4	Hexachlorocyclopentadiene		1.19	2.38	4.76	U
67-72-1	Hexachloroethane		1.19	2.38	4.76	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.19	2.38	4.76	U
78-59-1	Isophorone		1.19	2.38	4.76	U
90-12-0	1-Methylnaphthalene		1.19	2.38	4.76	U
91-57-6	2-Methylnaphthalene		1.19	2.38	4.76	U
95-48-7	2-Methylphenol		1.19	2.38	4.76	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.19	2.38	4.76	U
100-01-6	4-Nitroaniline		4.76	9.52	19.0	U
99-09-2	3-Nitroaniline		4.76	9.52	19.0	U
88-74-4	2-Nitroaniline		4.76	9.52	19.0	U
98-95-3	Nitrobenzene		1.19	2.38	4.76	U
100-02-7	4-Nitrophenol		4.76	9.52	19.0	U
88-75-5	2-Nitrophenol		1.19	2.38	4.76	U
86-30-6	N-Nitrosodiphenylamine		1.19	2.38	4.76	U
621-64-7	N-Nitroso-di-n-propylamine		1.19	2.38	4.76	U
87-86-5	Pentachlorophenol		4.76	9.52	19.0	U
85-01-8	Phenanthrene		1.19	2.38	4.76	U
108-95-2	Phenol		1.19	2.38	4.76	U
129-00-0	Pyrene		1.19	2.38	4.76	U
88-06-2	2,4,6-Trichlorophenol		1.19	2.38	4.76	U
95-95-4	2,4,5-Trichlorophenol		1.19	2.38	4.76	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.62	32.19	67.6	50 - 110	
2-Fluorophenol	95.24	33.53	35.2	20 - 110	
Nitrobenzene-d5	47.62	36.09	75.8	40 - 110	
Phenol-d6	95.24	17.52	18.4	0 - 110	
Terphenyl-d14	47.62	39.75	83.5	50 - 135	
2,4,6-Tribromophenol	95.24	79.84	83.8	40 - 125	

ANALYSIS DATA SHEET

GW0195

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-01	File ID:	0821001.D
Sampled:	08/17/11 16:09	Prepared:	08/19/11 13:15	Analyzed:	09/16/11 03:23
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12020 Sequence: 1I25914 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	942	1.25	2.50	5.00	E
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	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	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	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	Q, 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	Y, 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	Q, U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	X, U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	Q, X, U

ANALYSIS DATA SHEET

GW0195

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-01	File ID:	0821001.D
Sampled:	08/17/11 16:09	Prepared:	08/19/11 13:15	Analyzed:	09/16/11 03:23
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12020 Sequence: 1I25914 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	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	4.09	1.25	2.50	5.00	J
91-57-6	2-Methylnaphthalene	2.95	1.25	2.50	5.00	J
95-48-7	2-Methylphenol	4.50	1.25	2.50	5.00	J
108-39-4/106	3-Methylphenol/4-Methylphenol	24.1	1.25	2.50	5.00	
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	Q, 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	Q, 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	37.61	75.2	50 - 110	
2-Fluorophenol	100.0	39.59	39.6	20 - 110	
Nitrobenzene-d5	50.00	33.96	67.9	40 - 110	
Phenol-d6	100.0	27.68	27.7	0 - 110	
Terphenyl-d14	50.00	50.59	101	50 - 135	
2,4,6-Tribromophenol	100.0	81.80	81.8	40 - 125	

ANALYSIS DATA SHEET

GW0195

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-01RE1	File ID:	0821001D.D
Sampled:	08/17/11 16:09	Prepared:	08/19/11 13:15	Analyzed:	09/17/11 23:48
Solids:		Preparation:	EXT_3510	Dilution:	25

Batch: 1H12020 Sequence: 1I26217 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		31.2	62.5	125	U
208-96-8	Acenaphthylene		31.2	62.5	125	U
98-86-2	Acetophenone	1030	31.2	62.5	125	D
120-12-7	Anthracene		31.2	62.5	125	U
1912-24-9	Atrazine		31.2	62.5	125	U
100-52-7	Benzaldehyde		31.2	62.5	125	U
92-87-5	Benzidine		312	625	1250	U
56-55-3	Benzo(a)anthracene		31.2	62.5	125	U
50-32-8	Benzo(a)pyrene		31.2	62.5	125	U
205-99-2	Benzo(b)fluoranthene		31.2	62.5	125	X, U
191-24-2	Benzo(g,h,i)perylene		31.2	62.5	125	U
65-85-0	Benzoic acid		312	625	1250	U
207-08-9	Benzo(k)fluoranthene		31.2	62.5	125	U
92-52-4	1,1-Biphenyl		31.2	62.5	125	U
101-55-3	4-Bromophenyl-phenylether		31.2	62.5	125	U
85-68-7	Butylbenzylphthalate		31.2	62.5	125	Q, U
105-60-2	Caprolactam		31.2	62.5	125	Q, U
86-74-8	Carbazole		31.2	62.5	125	U
59-50-7	4-Chloro-3-methylphenol		31.2	62.5	125	U
106-47-8	4-Chloroaniline		31.2	62.5	125	Q, U
111-91-1	Bis(2-chloroethoxy)methane		31.2	62.5	125	U
111-44-4	Bis(2-chloroethyl)ether		31.2	62.5	125	U
108-60-1	2,2'-Oxybis-1-chloropropane		31.2	62.5	125	Y, U
91-58-7	2-Chloronaphthalene		31.2	62.5	125	X, U
95-57-8	2-Chlorophenol		31.2	62.5	125	U
7005-72-3	4-Chlorophenyl phenyl ether		31.2	62.5	125	U
218-01-9	Chrysene		31.2	62.5	125	U
53-70-3	Dibenz(a,h)anthracene		31.2	62.5	125	U
132-64-9	Dibenzofuran		31.2	62.5	125	Q, U
84-74-2	Di-n-butylphthalate		31.2	62.5	125	U
91-94-1	3,3'-Dichlorobenzidine		31.2	62.5	125	U
120-83-2	2,4-Dichlorophenol		31.2	62.5	125	U
84-66-2	Diethylphthalate		31.2	62.5	125	U
105-67-9	2,4-Dimethylphenol		125	250	500	U
131-11-3	Dimethyl phthalate		31.2	62.5	125	U
534-52-1	4,6-Dinitro-2-methylphenol		125	250	500	U
51-28-5	2,4-Dinitrophenol		312	625	1250	X, U
121-14-2	2,4-Dinitrotoluene		31.2	62.5	125	U
606-20-2	2,6-Dinitrotoluene		31.2	62.5	125	U
117-84-0	Di-n-octylphthalate		31.2	62.5	125	Q, X, U

ANALYSIS DATA SHEET

GW0195

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-01RE1	File ID:	0821001D.D
Sampled:	08/17/11 16:09	Prepared:	08/19/11 13:15	Analyzed:	09/17/11 23:48
Solids:		Preparation:	EXT_3510	Dilution:	25

Batch: 1H12020 Sequence: 1I26217 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		31.2	62.5	125	U
117-81-7	Bis(2-ethylhexyl)phthalate		31.2	62.5	125	Q, X, U
206-44-0	Fluoranthene		31.2	62.5	125	U
86-73-7	Fluorene		31.2	62.5	125	U
118-74-1	Hexachlorobenzene		31.2	62.5	125	U
87-68-3	Hexachlorobutadiene		31.2	62.5	125	U
77-47-4	Hexachlorocyclopentadiene		31.2	62.5	125	U
67-72-1	Hexachloroethane		31.2	62.5	125	U
193-39-5	Indeno(1,2,3-cd)pyrene		31.2	62.5	125	U
78-59-1	Isophorone		31.2	62.5	125	U
90-12-0	1-Methylnaphthalene		31.2	62.5	125	U
91-57-6	2-Methylnaphthalene		31.2	62.5	125	U
95-48-7	2-Methylphenol		31.2	62.5	125	U
108-39-4/106	3-Methylphenol/4-Methylphenol		31.2	62.5	125	U
100-01-6	4-Nitroaniline		125	250	500	U
99-09-2	3-Nitroaniline		125	250	500	U
88-74-4	2-Nitroaniline		125	250	500	U
98-95-3	Nitrobenzene		31.2	62.5	125	U
100-02-7	4-Nitrophenol		125	250	500	Q, U
88-75-5	2-Nitrophenol		31.2	62.5	125	U
86-30-6	N-Nitrosodiphenylamine		31.2	62.5	125	U
621-64-7	N-Nitroso-di-n-propylamine		31.2	62.5	125	U
87-86-5	Pentachlorophenol		125	250	500	U
85-01-8	Phenanthrene		31.2	62.5	125	U
108-95-2	Phenol		31.2	62.5	125	Q, U
129-00-0	Pyrene		31.2	62.5	125	U
88-06-2	2,4,6-Trichlorophenol		31.2	62.5	125	U
95-95-4	2,4,5-Trichlorophenol		31.2	62.5	125	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	38.83	77.7	50 - 110	D
2-Fluorophenol	100.0	36.96	37.0	20 - 110	D
Nitrobenzene-d5	50.00	37.47	74.9	40 - 110	D
Phenol-d6	100.0	19.12	19.1	0 - 110	D
Terphenyl-d14	50.00	52.15	104	50 - 135	D
2,4,6-Tribromophenol	100.0	79.58	79.6	40 - 125	D

ANALYSIS DATA SHEET

GW0232

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-03	File ID:	0821003.D
Sampled:	08/17/11 14:49	Prepared:	08/19/11 13:15	Analyzed:	09/16/11 04:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12020 Sequence: 1I25914 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	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	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	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	Q, 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	Y, 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	Q, U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	X, U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	Q, X, U

ANALYSIS DATA SHEET

GW0232

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-03	File ID:	0821003.D
Sampled:	08/17/11 14:49	Prepared:	08/19/11 13:15	Analyzed:	09/16/11 04:02
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H12020 Sequence: 1I25914 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	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	Q, 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	Q, 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	36.66	73.3	50 - 110	
2-Fluorophenol	100.0	34.57	34.6	20 - 110	
Nitrobenzene-d5	50.00	33.44	66.9	40 - 110	
Phenol-d6	100.0	17.64	17.6	0 - 110	
Terphenyl-d14	50.00	51.07	102	50 - 135	
2,4,6-Tribromophenol	100.0	80.77	80.8	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25004	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25004-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 09/06/11 16:40		
2-Fluorobiphenyl	50.00	109	80 - 120	10.333	10.333	0.0000	+/-0.500	
2-Fluorophenol	100.0	99.2	80 - 120	5.718	5.718	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	101	80 - 120	8.058	8.058	0.0000	+/-0.500	
Phenol-d6	100.0	98.3	80 - 120	6.872	6.872	0.0000	+/-0.500	
Terphenyl-d14	50.00	113	80 - 120	15.44	15.44	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	92.0	80 - 120	12.176	12.176	0.0000	+/-0.500	
Blank (1H16013-BLK1) ug/L				Lab File ID: H16013B1.D		Analyzed: 09/06/11 19:19		
2-Fluorobiphenyl	50.00	48.7	50 - 110	10.334	10.333	0.0010	+/-0.500	*
2-Fluorophenol	100.0	30.8	20 - 110	5.718	5.718	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	71.6	40 - 110	8.053	8.058	-0.0050	+/-0.500	
Phenol-d6	100.0	16.8	0 - 110	6.856	6.872	-0.0160	+/-0.500	
Terphenyl-d14	50.00	105	50 - 135	15.446	15.44	0.0060	+/-0.500	
2,4,6-Tribromophenol	100.0	73.1	40 - 125	12.166	12.176	-0.0100	+/-0.500	
LCS (1H16013-BS1) ug/L				Lab File ID: H16013L1.D		Analyzed: 09/06/11 19:59		
2-Fluorobiphenyl	50.00	56.2	50 - 110	10.33	10.333	-0.0030	+/-0.500	
2-Fluorophenol	100.0	24.6	20 - 110	5.709	5.718	-0.0090	+/-0.500	
Nitrobenzene-d5	50.00	68.4	40 - 110	8.054	8.058	-0.0040	+/-0.500	
Phenol-d6	100.0	16.1	0 - 110	6.858	6.872	-0.0140	+/-0.500	
Terphenyl-d14	50.00	99.0	50 - 135	15.432	15.44	-0.0080	+/-0.500	
2,4,6-Tribromophenol	100.0	51.8	40 - 125	12.168	12.176	-0.0080	+/-0.500	
LCS Dup (1H16013-BSD1) ug/L				Lab File ID: H16013L2.D		Analyzed: 09/06/11 20:40		
2-Fluorobiphenyl	50.00	39.5	50 - 110	10.329	10.333	-0.0040	+/-0.500	*
2-Fluorophenol	100.0	22.8	20 - 110	5.713	5.718	-0.0050	+/-0.500	
Nitrobenzene-d5	50.00	58.3	40 - 110	8.058	8.058	0.0000	+/-0.500	
Phenol-d6	100.0	15.3	0 - 110	6.856	6.872	-0.0160	+/-0.500	
Terphenyl-d14	50.00	96.6	50 - 135	15.441	15.44	0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	43.5	40 - 125	12.172	12.176	-0.0040	+/-0.500	
GW0173-R (1108174-01) ug/L				Lab File ID: 0817401.D		Analyzed: 09/07/11 01:23		
2-Fluorobiphenyl	48.08	42.8	50 - 110	10.334	10.333	0.0010	+/-0.500	*
2-Fluorophenol	96.15	24.0	20 - 110	5.713	5.718	-0.0050	+/-0.500	
Nitrobenzene-d5	48.08	61.3	40 - 110	8.053	8.058	-0.0050	+/-0.500	
Phenol-d6	96.15	14.2	0 - 110	6.862	6.872	-0.0100	+/-0.500	
Terphenyl-d14	48.08	116	50 - 135	15.441	15.44	0.0010	+/-0.500	
2,4,6-Tribromophenol	96.15	78.3	40 - 125	12.166	12.176	-0.0100	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25004	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0198 (1108174-03) ug/L				Lab File ID: 0817403.D		Analyzed: 09/07/11 02:04		
2-Fluorobiphenyl	50.00	44.3	50 - 110	10.323	10.333	-0.0100	+/-0.500	*
2-Fluorophenol	100.0	25.1	20 - 110	5.702	5.718	-0.0160	+/-0.500	
Nitrobenzene-d5	50.00	67.9	40 - 110	8.048	8.058	-0.0100	+/-0.500	
Phenol-d6	100.0	14.6	0 - 110	6.846	6.872	-0.0260	+/-0.500	
Terphenyl-d14	50.00	112	50 - 135	15.43	15.44	-0.0100	+/-0.500	
2,4,6-Tribromophenol	100.0	79.9	40 - 125	12.161	12.176	-0.0150	+/-0.500	
Blank (1H17011-BLK1) ug/L				Lab File ID: H17011B1.D		Analyzed: 09/07/11 02:45		
2-Fluorobiphenyl	50.00	56.8	50 - 110	10.329	10.333	-0.0040	+/-0.500	
2-Fluorophenol	100.0	49.1	20 - 110	5.713	5.718	-0.0050	+/-0.500	
Nitrobenzene-d5	50.00	67.8	40 - 110	8.048	8.058	-0.0100	+/-0.500	
Phenol-d6	100.0	31.9	0 - 110	6.851	6.872	-0.0210	+/-0.500	
Terphenyl-d14	50.00	86.1	50 - 135	15.436	15.44	-0.0040	+/-0.500	
2,4,6-Tribromophenol	100.0	80.8	40 - 125	12.166	12.176	-0.0100	+/-0.500	
LCS (1H17011-BS1) ug/L				Lab File ID: H17011L1.D		Analyzed: 09/07/11 03:26		
2-Fluorobiphenyl	50.00	65.0	50 - 110	10.34	10.333	0.0070	+/-0.500	
2-Fluorophenol	100.0	35.6	20 - 110	5.719	5.718	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	76.0	40 - 110	8.064	8.058	0.0060	+/-0.500	
Phenol-d6	100.0	21.5	0 - 110	6.868	6.872	-0.0040	+/-0.500	
Terphenyl-d14	50.00	89.0	50 - 135	15.447	15.44	0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	80.9	40 - 125	12.178	12.176	0.0020	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25109	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25109-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 09/07/11 14:14		
2-Fluorobiphenyl	50.00	108	80 - 120	10.273	10.273	0.0000	+/-0.500	
2-Fluorophenol	100.0	97.7	80 - 120	5.646	5.646	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	100	80 - 120	7.997	7.997	0.0000	+/-0.500	
Phenol-d6	100.0	101	80 - 120	6.806	6.806	0.0000	+/-0.500	
Terphenyl-d14	50.00	110	80 - 120	15.358	15.358	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	94.0	80 - 120	12.11	12.11	0.0000	+/-0.500	
GW0197 (1108181-01) ug/L				Lab File ID: 0818101.D		Analyzed: 09/07/11 21:05		
2-Fluorobiphenyl	46.30	48.7	50 - 110	10.283	10.273	0.0100	+/-0.500	*
2-Fluorophenol	92.59	31.9	20 - 110	5.764	5.646	0.1180	+/-0.500	
Nitrobenzene-d5	46.30	68.1	40 - 110	8.007	7.997	0.0100	+/-0.500	
Phenol-d6	92.59	16.2	0 - 110	6.918	6.806	0.1120	+/-0.500	
Terphenyl-d14	46.30	86.9	50 - 135	15.364	15.358	0.0060	+/-0.500	
2,4,6-Tribromophenol	92.59	75.8	40 - 125	12.126	12.11	0.0160	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25210	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25210-CCV1) ug/mL				Lab File ID: SEQ-CCV5.D		Analyzed: 09/08/11 13:29		
2-Fluorobiphenyl	50.00	108	80 - 120	10.278	10.278	0.0000	+/-0.500	
2-Fluorophenol	100.0	99.7	80 - 120	5.657	5.657	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	100	80 - 120	8.002	8.002	0.0000	+/-0.500	
Phenol-d6	100.0	99.7	80 - 120	6.816	6.816	0.0000	+/-0.500	
Terphenyl-d14	50.00	111	80 - 120	15.369	15.369	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	89.7	80 - 120	12.116	12.116	0.0000	+/-0.500	
GW0215 (1108205-01) ug/L				Lab File ID: 0820501.D		Analyzed: 09/08/11 15:30		
2-Fluorobiphenyl	50.00	67.6	50 - 110	10.264	10.278	-0.0140	+/-0.500	
2-Fluorophenol	100.0	35.2	20 - 110	5.643	5.657	-0.0140	+/-0.500	
Nitrobenzene-d5	50.00	68.7	40 - 110	7.988	8.002	-0.0140	+/-0.500	
Phenol-d6	100.0	18.9	0 - 110	6.786	6.816	-0.0300	+/-0.500	
Terphenyl-d14	50.00	80.3	50 - 135	15.349	15.369	-0.0200	+/-0.500	
2,4,6-Tribromophenol	100.0	74.0	40 - 125	12.096	12.116	-0.0200	+/-0.500	
GW0230 (1108205-03) ug/L				Lab File ID: 0820503.D		Analyzed: 09/08/11 16:10		
2-Fluorobiphenyl	47.17	63.9	50 - 110	10.269	10.278	-0.0090	+/-0.500	
2-Fluorophenol	94.34	33.3	20 - 110	5.659	5.657	0.0020	+/-0.500	
Nitrobenzene-d5	47.17	73.7	40 - 110	7.993	8.002	-0.0090	+/-0.500	
Phenol-d6	94.34	17.6	0 - 110	6.802	6.816	-0.0140	+/-0.500	
Terphenyl-d14	47.17	76.2	50 - 135	15.355	15.369	-0.0140	+/-0.500	
2,4,6-Tribromophenol	94.34	77.3	40 - 125	12.107	12.116	-0.0090	+/-0.500	
GW0231 (1108205-05) ug/L				Lab File ID: 0820505.D		Analyzed: 09/08/11 16:51		
2-Fluorobiphenyl	47.62	67.6	50 - 110	10.269	10.278	-0.0090	+/-0.500	
2-Fluorophenol	95.24	35.2	20 - 110	5.653	5.657	-0.0040	+/-0.500	
Nitrobenzene-d5	47.62	75.8	40 - 110	7.993	8.002	-0.0090	+/-0.500	
Phenol-d6	95.24	18.4	0 - 110	6.802	6.816	-0.0140	+/-0.500	
Terphenyl-d14	47.62	83.5	50 - 135	15.354	15.369	-0.0150	+/-0.500	
2,4,6-Tribromophenol	95.24	83.8	40 - 125	12.106	12.116	-0.0100	+/-0.500	
GW0197 (1108181-01RE1) ug/L				Lab File ID: 0818101D.D		Analyzed: 09/08/11 22:13		
2-Fluorobiphenyl	46.30	59.0	50 - 110	10.267	10.278	-0.0110	+/-0.500	
2-Fluorophenol	92.59	32.9	20 - 110	5.673	5.657	0.0160	+/-0.500	
Nitrobenzene-d5	46.30	71.2	40 - 110	7.991	8.002	-0.0110	+/-0.500	
Phenol-d6	92.59	19.6	0 - 110	6.827	6.816	0.0110	+/-0.500	
Terphenyl-d14	46.30	83.1	50 - 135	15.347	15.369	-0.0220	+/-0.500	
2,4,6-Tribromophenol	92.59	74.9	40 - 125	12.105	12.116	-0.0110	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25508	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25508-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 09/10/11 21:03		
2-Fluorobiphenyl	50.00	110	80 - 120	10.182	10.182	0.0000	+/-0.500	
2-Fluorophenol	100.0	106	80 - 120	5.572	5.572	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	93.8	80 - 120	7.907	7.907	0.0000	+/-0.500	
Phenol-d6	100.0	104	80 - 120	6.726	6.726	0.0000	+/-0.500	
Terphenyl-d14	50.00	113	80 - 120	15.241	15.241	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	108	80 - 120	12.015	12.015	0.0000	+/-0.500	
LCS (1H12020-BS1) ug/L				Lab File ID: H12020L1.D		Analyzed: 09/10/11 23:48		
2-Fluorobiphenyl	50.00	68.3	50 - 110	10.182	10.182	0.0000	+/-0.500	
2-Fluorophenol	100.0	61.1	20 - 110	5.572	5.572	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	67.9	40 - 110	7.906	7.907	-0.0010	+/-0.500	
Phenol-d6	100.0	37.7	0 - 110	6.72	6.726	-0.0060	+/-0.500	
Terphenyl-d14	50.00	97.9	50 - 135	15.236	15.241	-0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	85.5	40 - 125	12.014	12.015	-0.0010	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25812	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25812-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 09/14/11 13:25		
2-Fluorobiphenyl	50.00	111	80 - 120	9.99	9.99	0.0000	+/-0.500	
2-Fluorophenol	100.0	108	80 - 120	5.359	5.359	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	92.5	80 - 120	7.709	7.709	0.0000	+/-0.500	
Phenol-d6	100.0	103	80 - 120	6.523	6.523	0.0000	+/-0.500	
Terphenyl-d14	50.00	109	80 - 120	14.991	14.991	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	89.2	80 - 120	11.817	11.817	0.0000	+/-0.500	
LCS Dup (1H12020-BSD1) ug/L				Lab File ID: H12020L2.D		Analyzed: 09/14/11 16:45		
2-Fluorobiphenyl	50.00	74.7	50 - 110	9.994	9.99	0.0040	+/-0.500	
2-Fluorophenol	100.0	43.8	20 - 110	5.362	5.359	0.0030	+/-0.500	
Nitrobenzene-d5	50.00	72.3	40 - 110	7.713	7.709	0.0040	+/-0.500	
Phenol-d6	100.0	23.0	0 - 110	6.521	6.523	-0.0020	+/-0.500	
Terphenyl-d14	50.00	101	50 - 135	14.994	14.991	0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	76.2	40 - 125	11.821	11.817	0.0040	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25914	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25914-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 09/15/11 16:56		
2-Fluorobiphenyl	50.00	108	80 - 120	9.935	9.935	0.0000	+/-0.500	
2-Fluorophenol	100.0	108	80 - 120	5.298	5.298	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	92.5	80 - 120	7.649	7.649	0.0000	+/-0.500	
Phenol-d6	100.0	101	80 - 120	6.468	6.468	0.0000	+/-0.500	
Terphenyl-d14	50.00	110	80 - 120	14.93	14.93	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	90.5	80 - 120	11.762	11.762	0.0000	+/-0.500	
Blank (1H12020-BLK1) ug/L				Lab File ID: H12020B1.D		Analyzed: 09/15/11 18:58		
2-Fluorobiphenyl	50.00	42.6	50 - 110	9.925	9.935	-0.0100	+/-0.500	*
2-Fluorophenol	100.0	49.1	20 - 110	5.293	5.298	-0.0050	+/-0.500	
Nitrobenzene-d5	50.00	49.8	40 - 110	7.644	7.649	-0.0050	+/-0.500	
Phenol-d6	100.0	30.1	0 - 110	6.453	6.468	-0.0150	+/-0.500	
Terphenyl-d14	50.00	78.3	50 - 135	14.925	14.93	-0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	60.6	40 - 125	11.752	11.762	-0.0100	+/-0.500	
GW0195 (1108210-01) ug/L				Lab File ID: 0821001.D		Analyzed: 09/16/11 03:23		
2-Fluorobiphenyl	50.00	75.2	50 - 110	9.933	9.935	-0.0020	+/-0.500	
2-Fluorophenol	100.0	39.6	20 - 110	5.349	5.298	0.0510	+/-0.500	
Nitrobenzene-d5	50.00	67.9	40 - 110	7.657	7.649	0.0080	+/-0.500	
Phenol-d6	100.0	27.7	0 - 110	6.551	6.468	0.0830	+/-0.500	
Terphenyl-d14	50.00	101	50 - 135	14.923	14.93	-0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	81.8	40 - 125	11.76	11.762	-0.0020	+/-0.500	
GW0232 (1108210-03) ug/L				Lab File ID: 0821003.D		Analyzed: 09/16/11 04:02		
2-Fluorobiphenyl	50.00	73.3	50 - 110	9.931	9.935	-0.0040	+/-0.500	
2-Fluorophenol	100.0	34.6	20 - 110	5.294	5.298	-0.0040	+/-0.500	
Nitrobenzene-d5	50.00	66.9	40 - 110	7.644	7.649	-0.0050	+/-0.500	
Phenol-d6	100.0	17.6	0 - 110	6.448	6.468	-0.0200	+/-0.500	
Terphenyl-d14	50.00	102	50 - 135	14.931	14.93	0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	80.8	40 - 125	11.752	11.762	-0.0100	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I26217	Instrument:	MS-BNA3
		Calibration:	1122001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I26217-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 09/17/11 21:29		
2-Fluorobiphenyl	50.00	109	80 - 120	9.843	9.843	0.0000	+/-0.500	
2-Fluorophenol	100.0	109	80 - 120	5.227	5.227	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	93.3	80 - 120	7.567	7.567	0.0000	+/-0.500	
Phenol-d6	100.0	103	80 - 120	6.408	6.408	0.0000	+/-0.500	
Terphenyl-d14	50.00	109	80 - 120	14.806	14.806	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	92.5	80 - 120	11.67	11.67	0.0000	+/-0.500	
GW0195 (1108210-01RE1) ug/L				Lab File ID: 0821001D.D		Analyzed: 09/17/11 23:48		
2-Fluorobiphenyl	50.00	77.7	50 - 110	9.846	9.843	0.0030	+/-0.500	
2-Fluorophenol	100.0	37.0	20 - 110	5.241	5.227	0.0140	+/-0.500	
Nitrobenzene-d5	50.00	74.9	40 - 110	7.565	7.567	-0.0020	+/-0.500	
Phenol-d6	100.0	19.1	0 - 110	6.406	6.408	-0.0020	+/-0.500	
Terphenyl-d14	50.00	104	50 - 135	14.809	14.806	0.0030	+/-0.500	
2,4,6-Tribromophenol	100.0	79.6	40 - 125	11.668	11.67	-0.0020	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12020	Laboratory ID:	1H12020-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	47.81	95.6	45 - 110
Acenaphthylene	50.00	44.22	88.4	50 - 105
Acetophenone	50.00	37.93	75.9	50 - 110
Anthracene	50.00	52.48	105	55 - 110
Atrazine	50.00	41.36	82.7	70 - 115
Benzaldehyde	50.00	34.59	69.2	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	51.41	103	55 - 110
Benzo(a)pyrene	50.00	49.86	99.7	55 - 110
Benzo(b)fluoranthene	50.00	51.47	103	45 - 120
Benzo(g,h,i)perylene	50.00	49.69	99.4	40 - 125
Benzoic acid	50.00	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	53.61	107	45 - 125
1,1-Biphenyl	50.00	40.23	80.5	50 - 110
4-Bromophenyl-phenylether	50.00	51.71	103	50 - 115
Butylbenzylphthalate	**50.00**	**60.78**	**122**	**45 - 115**
Caprolactam	**50.00**	**6.510**	**13.0**	**20 - 110**
Carbazole	50.00	52.75	105	50 - 115
4-Chloro-3-methylphenol	50.00	47.41	94.8	45 - 110
4-Chloroaniline	50.00	22.76	45.5	15 - 110
Bis(2-chloroethoxy)methane	50.00	47.65	95.3	45 - 105
Bis(2-chloroethyl)ether	50.00	45.04	90.1	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	40.83	81.7	25 - 130
2-Chloronaphthalene	50.00	47.19	94.4	50 - 105
2-Chlorophenol	50.00	44.77	89.5	35 - 105
4-Chlorophenyl phenyl ether	50.00	50.59	101	50 - 110
Chrysene	50.00	52.29	105	55 - 110
Dibenz(a,h)anthracene	50.00	51.09	102	40 - 125
Dibenzofuran	50.00	50.65	101	55 - 105
Di-n-butylphthalate	50.00	57.35	115	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12020	Laboratory ID:	1H12020-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	40.76	81.5	20 - 110
2,4-Dichlorophenol	50.00	44.44	88.9	40 - 110
Diethylphthalate	50.00	56.65	113	40 - 120
2,4-Dimethylphenol	50.00	44.71	89.4	30 - 110
Dimethyl phthalate	50.00	53.94	108	25 - 125
4,6-Dinitro-2-methylphenol	50.00	51.40	103	40 - 130
2,4-Dinitrophenol	50.00	42.92	85.8	15 - 140
2,4-Dinitrotoluene	50.00	53.84	108	50 - 120
2,6-Dinitrotoluene	50.00	51.48	103	50 - 115
Di-n-octylphthalate	50.00	63.11	126	35 - 135
1,2-Diphenylhydrazine	50.00	45.49	91.0	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	62.62	125	40 - 125
Fluoranthene	50.00	48.41	96.8	55 - 115
Fluorene	50.00	49.11	98.2	50 - 110
Hexachlorobenzene	50.00	47.38	94.8	50 - 110
Hexachlorobutadiene	50.00	30.68	61.4	25 - 105
Hexachlorocyclopentadiene	50.00	27.60	55.2	10 - 110
Hexachloroethane	50.00	25.54	51.1	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	53.47	107	45 - 125
Isophorone	50.00	41.84	83.7	50 - 110
1-Methylnaphthalene	50.00	40.12	80.2	30 - 115
2-Methylnaphthalene	50.00	39.75	79.5	45 - 105
2-Methylphenol	50.00	41.65	83.3	40 - 110
3-Methylphenol/4-Methylphenol	50.00	40.71	81.4	30 - 110
4-Nitroaniline	50.00	54.16	108	35 - 120
3-Nitroaniline	50.00	49.24	98.5	20 - 125
2-Nitroaniline	50.00	50.36	101	50 - 115
Nitrobenzene	50.00	40.33	80.7	30 - 110
4-Nitrophenol	50.00	21.38	42.8	0 - 125
2-Nitrophenol	50.00	45.42	90.8	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12020	Laboratory ID:	1H12020-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	42.26	84.5	50 - 110
N-Nitroso-di-n-propylamine	50.00	44.59	89.2	35 - 130
Pentachlorophenol	50.00	41.67	83.3	40 - 115
Phenanthrene	50.00	52.94	106	50 - 115
Phenol	50.00	22.31	44.6	0 - 115
Pyrene	50.00	51.20	102	50 - 130
2,4,6-Trichlorophenol	50.00	46.05	92.1	50 - 115
2,4,5-Trichlorophenol	50.00	46.46	92.9	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	48.04	96.1	0.463	30	45 - 110
Acenaphthylene	50.00	44.45	88.9	0.519	30	50 - 105
Acetophenone	50.00	41.03	82.1	7.85	30	50 - 110
Anthracene	50.00	52.09	104	0.736	30	55 - 110
Atrazine	50.00	40.72	81.4	1.55	30	70 - 115
Benzaldehyde	50.00	40.73	81.5	16.3	30	10 - 180
Benzidine	50.00	50.0 U	0		30	0 - 200
Benzo(a)anthracene	50.00	53.16	106	3.35	30	55 - 110
Benzo(a)pyrene	50.00	53.23	106	6.55	30	55 - 110
Benzo(b)fluoranthene	50.00	56.49	113	9.31	30	45 - 120
Benzo(g,h,i)perylene	50.00	48.86	97.7	1.69	30	40 - 125
Benzoic acid	50.00	50.0 U	0		30	0 - 125
Benzo(k)fluoranthene	50.00	55.82	112	4.05	30	45 - 125
1,1-Biphenyl	50.00	42.68	85.4	5.91	30	50 - 110
4-Bromophenyl-phenylether	50.00	48.42	96.8	6.56	30	50 - 115
Butylbenzylphthalate	**50.00**	**66.97**	**134 ***	**9.69**	**30**	**45 - 115**
Caprolactam	**50.00**	**8.568**	**17.1 ***	**27.3**	**30**	**20 - 110**
Carbazole	50.00	52.83	106	0.156	30	50 - 115
4-Chloro-3-methylphenol	50.00	45.91	91.8	3.22	30	45 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12020	Laboratory ID:	1H12020-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	49.37	98.7	73.8 *	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	48.96	97.9	2.71	30	45 - 105
Bis(2-chloroethyl)ether	50.00	48.10	96.2	6.59	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	33.46	66.9	19.8	30	25 - 130
2-Chloronaphthalene	50.00	47.01	94.0	0.376	30	50 - 105
2-Chlorophenol	50.00	42.88	85.8	4.32	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	52.35	105	3.41	30	50 - 110
Chrysene	50.00	53.79	108	2.84	30	55 - 110
Dibenz(a,h)anthracene	50.00	50.33	101	1.49	30	40 - 125
Dibenzofuran	**50.00**	**52.78**	**106 ***	**4.13**	**30**	**55 - 105**
Di-n-butylphthalate	50.00	57.43	115	0.130	30	55 - 115
3,3'-Dichlorobenzidine	50.00	46.71	93.4	13.6	30	20 - 110
2,4-Dichlorophenol	50.00	49.47	98.9	10.7	30	40 - 110
Diethylphthalate	50.00	57.96	116	2.30	30	40 - 120
2,4-Dimethylphenol	50.00	43.39	86.8	2.99	30	30 - 110
Dimethyl phthalate	50.00	57.31	115	6.05	30	25 - 125
4,6-Dinitro-2-methylphenol	50.00	54.11	108	5.14	30	40 - 130
2,4-Dinitrophenol	50.00	37.57	75.1	13.3	30	15 - 140
2,4-Dinitrotoluene	50.00	55.48	111	3.00	30	50 - 120
2,6-Dinitrotoluene	50.00	53.72	107	4.26	30	50 - 115
Di-n-octylphthalate	**50.00**	**70.46**	**141 ***	**11.0**	**30**	**35 - 135**
1,2-Diphenylhydrazine	50.00	45.38	90.8	0.256	30	55 - 115
Bis(2-ethylhexyl)phthalate	**50.00**	**66.52**	**133 ***	**6.04**	**30**	**40 - 125**
Fluoranthene	50.00	49.65	99.3	2.54	30	55 - 115
Fluorene	50.00	50.01	100	1.81	30	50 - 110
Hexachlorobenzene	50.00	43.69	87.4	8.10	30	50 - 110
Hexachlorobutadiene	50.00	28.65	57.3	6.87	30	25 - 105
Hexachlorocyclopentadiene	50.00	21.99	44.0	22.6	30	10 - 110
Hexachloroethane	50.00	24.70	49.4	3.35	30	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	49.74	99.5	7.23	30	45 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H12020	Laboratory ID:	1H12020-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	44.64	89.3	6.48	30	50 - 110
1-Methylnaphthalene	50.00	40.92	81.8	1.97	30	30 - 115
2-Methylnaphthalene	50.00	40.66	81.3	2.25	30	45 - 105
2-Methylphenol	50.00	37.51	75.0	10.5	30	40 - 110
3-Methylphenol/4-Methylphenol	50.00	33.24	66.5	20.2	30	30 - 110
4-Nitroaniline	50.00	55.77	112	2.92	30	35 - 120
3-Nitroaniline	50.00	52.30	105	6.04	30	20 - 125
2-Nitroaniline	50.00	46.57	93.1	7.82	30	50 - 115
Nitrobenzene	50.00	43.27	86.5	7.03	30	30 - 110
4-Nitrophenol	50.00	11.24	22.5	62.2 *	30	0 - 125
2-Nitrophenol	50.00	49.57	99.1	8.73	30	40 - 115
N-Nitrosodiphenylamine	50.00	43.84	87.7	3.67	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	46.95	93.9	5.17	30	35 - 130
Pentachlorophenol	50.00	37.81	75.6	9.72	30	40 - 115
Phenanthrene	50.00	53.43	107	0.915	30	50 - 115
Phenol	50.00	13.67	27.3	48.0 *	30	0 - 115
Pyrene	50.00	56.91	114	10.6	30	50 - 130
2,4,6-Trichlorophenol	50.00	49.29	98.6	6.79	30	50 - 115
2,4,5-Trichlorophenol	50.00	48.64	97.3	4.58	30	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H16013	Laboratory ID:	1H16013-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	43.58	87.2	45 - 110
Acenaphthylene	50.00	38.40	76.8	50 - 105
Acetophenone	50.00	42.67	85.3	50 - 110
Anthracene	50.00	44.40	88.8	55 - 110
Atrazine	50.00	42.21	84.4	70 - 115
Benzaldehyde	50.00	40.12	80.2	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	50.74	101	55 - 110
Benzo(a)pyrene	50.00	49.38	98.8	55 - 110
Benzo(b)fluoranthene	50.00	52.07	104	45 - 120
Benzo(g,h,i)perylene	50.00	47.77	95.5	40 - 125
Benzoic acid	50.00	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	52.53	105	45 - 125
1,1-Biphenyl	50.00	45.66	91.3	50 - 110
4-Bromophenyl-phenylether	50.00	45.24	90.5	50 - 115
Butylbenzylphthalate	**50.00**	**65.96**	**132**	**45 - 115**
Caprolactam	**50.00**	**8.041**	**16.1**	**20 - 110**
Carbazole	50.00	45.50	91.0	50 - 115
4-Chloro-3-methylphenol	50.00	24.94	49.9	45 - 110
4-Chloroaniline	50.00	32.67	65.3	15 - 110
Bis(2-chloroethoxy)methane	50.00	41.47	82.9	45 - 105
Bis(2-chloroethyl)ether	50.00	39.75	79.5	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	45.00	90.0	25 - 130
2-Chloronaphthalene	50.00	42.93	85.9	50 - 105
2-Chlorophenol	50.00	19.35	38.7	35 - 105
4-Chlorophenyl phenyl ether	50.00	46.98	94.0	50 - 110
Chrysene	50.00	49.25	98.5	55 - 110
Dibenz(a,h)anthracene	50.00	50.25	100	40 - 125
Dibenzofuran	50.00	47.35	94.7	55 - 105
Di-n-butylphthalate	50.00	53.92	108	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H16013	Laboratory ID:	1H16013-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	44.19	88.4	20 - 110
2,4-Dichlorophenol	50.00	21.96	43.9	40 - 110
Diethylphthalate	50.00	54.77	110	40 - 120
2,4-Dimethylphenol	50.00	23.52	47.0	30 - 110
Dimethyl phthalate	50.00	48.65	97.3	25 - 125
4,6-Dinitro-2-methylphenol	50.00	27.45	54.9	40 - 130
2,4-Dinitrophenol	50.00	16.19	32.4	15 - 140
2,4-Dinitrotoluene	50.00	50.75	101	50 - 120
2,6-Dinitrotoluene	50.00	47.57	95.1	50 - 115
Di-n-octylphthalate	**50.00**	**68.32**	**137**	**35 - 135**
1,2-Diphenylhydrazine	50.00	43.75	87.5	55 - 115
Bis(2-ethylhexyl)phthalate	**50.00**	**65.68**	**131**	**40 - 125**
Fluoranthene	50.00	43.04	86.1	55 - 115
Fluorene	50.00	45.13	90.3	50 - 110
Hexachlorobenzene	50.00	43.40	86.8	50 - 110
Hexachlorobutadiene	50.00	21.99	44.0	25 - 105
Hexachlorocyclopentadiene	50.00	19.77	39.5	10 - 110
Hexachloroethane	50.00	19.20	38.4	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	51.81	104	45 - 125
Isophorone	50.00	38.22	76.4	50 - 110
1-Methylnaphthalene	50.00	35.98	72.0	30 - 115
2-Methylnaphthalene	50.00	36.57	73.1	45 - 105
2-Methylphenol	**50.00**	**17.79**	**35.6**	**40 - 110**
3-Methylphenol/4-Methylphenol	50.00	17.65	35.3	30 - 110
4-Nitroaniline	50.00	43.61	87.2	35 - 120
3-Nitroaniline	50.00	38.95	77.9	20 - 125
2-Nitroaniline	50.00	44.85	89.7	50 - 115
Nitrobenzene	50.00	40.19	80.4	30 - 110
4-Nitrophenol	50.00	9.167	18.3	0 - 125
2-Nitrophenol	50.00	24.08	48.2	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H16013	Laboratory ID:	1H16013-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	38.80	77.6	50 - 110
N-Nitroso-di-n-propylamine	50.00	43.18	86.4	35 - 130
Pentachlorophenol	50.00	29.47	58.9	40 - 115
Phenanthrene	50.00	46.84	93.7	50 - 115
Phenol	50.00	8.506	17.0	0 - 115
Pyrene	50.00	51.58	103	50 - 130
2,4,6-Trichlorophenol	50.00	25.49	51.0	50 - 115
2,4,5-Trichlorophenol	50.00	25.26	50.5	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	41.19	82.4	5.64	30	45 - 110
Acenaphthylene	50.00	34.99	70.0	9.29	30	50 - 105
Acetophenone	50.00	39.69	79.4	7.24	30	50 - 110
Anthracene	50.00	43.64	87.3	1.72	30	55 - 110
Atrazine	50.00	39.69	79.4	6.16	30	70 - 115
Benzaldehyde	50.00	36.70	73.4	8.89	30	10 - 180
Benzidine	50.00	50.0 U	0		30	0 - 200
Benzo(a)anthracene	50.00	48.09	96.2	5.36	30	55 - 110
Benzo(a)pyrene	50.00	46.46	92.9	6.09	30	55 - 110
Benzo(b)fluoranthene	50.00	52.38	105	0.582	30	45 - 120
Benzo(g,h,i)perylene	50.00	46.02	92.0	3.72	30	40 - 125
Benzoic acid	50.00	50.0 U	0		30	0 - 125
Benzo(k)fluoranthene	50.00	48.91	97.8	7.15	30	45 - 125
1,1-Biphenyl	50.00	43.38	86.8	5.11	30	50 - 110
4-Bromophenyl-phenylether	50.00	43.61	87.2	3.69	30	50 - 115
Butylbenzylphthalate	**50.00**	**63.02**	**126 ***	**4.56**	**30**	**45 - 115**
Caprolactam	**50.00**	**7.812**	**15.6 ***	**2.89**	**30**	**20 - 110**
Carbazole	50.00	44.29	88.6	2.70	30	50 - 115
4-Chloro-3-methylphenol	**50.00**	**21.16**	**42.3 ***	**16.4**	**30**	**45 - 110**

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H16013	Laboratory ID:	1H16013-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	26.99	54.0	19.0	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	38.27	76.5	8.02	30	45 - 105
Bis(2-chloroethyl)ether	50.00	36.16	72.3	9.47	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	42.07	84.1	6.74	30	25 - 130
2-Chloronaphthalene	50.00	40.56	81.1	5.67	30	50 - 105
2-Chlorophenol	50.00	18.22	36.4	6.00	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	43.74	87.5	7.13	30	50 - 110
Chrysene	50.00	47.04	94.1	4.58	30	55 - 110
Dibenz(a,h)anthracene	50.00	47.44	94.9	5.75	30	40 - 125
Dibenzofuran	50.00	43.57	87.1	8.30	30	55 - 105
Di-n-butylphthalate	50.00	51.87	104	3.86	30	55 - 115
3,3'-Dichlorobenzidine	50.00	38.20	76.4	14.5	30	20 - 110
2,4-Dichlorophenol	**50.00**	**18.78**	**37.6 ***	**15.6**	**30**	**40 - 110**
Diethylphthalate	50.00	48.83	97.7	11.5	30	40 - 120
2,4-Dimethylphenol	50.00	20.77	41.5	12.4	30	30 - 110
Dimethyl phthalate	50.00	43.21	86.4	11.8	30	25 - 125
4,6-Dinitro-2-methylphenol	50.00	25.11	50.2	8.94	30	40 - 130
2,4-Dinitrophenol	50.00	16.39	32.8	1.22	30	15 - 140
2,4-Dinitrotoluene	50.00	46.36	92.7	9.03	30	50 - 120
2,6-Dinitrotoluene	50.00	43.91	87.8	8.01	30	50 - 115
Di-n-octylphthalate	**50.00**	**68.18**	**136 ***	**0.199**	**30**	**35 - 135**
1,2-Diphenylhydrazine	50.00	42.88	85.8	2.01	30	55 - 115
Bis(2-ethylhexyl)phthalate	**50.00**	**62.90**	**126 ***	**4.32**	**30**	**40 - 125**
Fluoranthene	50.00	41.55	83.1	3.51	30	55 - 115
Fluorene	50.00	42.53	85.1	5.93	30	50 - 110
Hexachlorobenzene	50.00	41.98	84.0	3.33	30	50 - 110
Hexachlorobutadiene	50.00	18.98	38.0	14.7	30	25 - 105
Hexachlorocyclopentadiene	50.00	18.51	37.0	6.61	30	10 - 110
Hexachloroethane	50.00	16.58	33.2	14.6	30	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	50.27	101	3.02	30	45 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H16013	Laboratory ID:	1H16013-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	35.29	70.6	7.95	30	50 - 110
1-Methylnaphthalene	50.00	33.33	66.7	7.65	30	30 - 115
2-Methylnaphthalene	50.00	32.93	65.9	10.5	30	45 - 105
2-Methylphenol	**50.00**	**17.94**	**35.9 ***	**0.793**	**30**	**40 - 110**
3-Methylphenol/4-Methylphenol	50.00	16.38	32.8	7.42	30	30 - 110
4-Nitroaniline	50.00	39.24	78.5	10.5	30	35 - 120
3-Nitroaniline	50.00	33.98	68.0	13.6	30	20 - 125
2-Nitroaniline	50.00	40.66	81.3	9.80	30	50 - 115
Nitrobenzene	50.00	37.37	74.7	7.25	30	30 - 110
4-Nitrophenol	50.00	9.393	18.8	2.43	30	0 - 125
2-Nitrophenol	50.00	21.30	42.6	12.2	30	40 - 115
N-Nitrosodiphenylamine	50.00	37.36	74.7	3.81	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	39.65	79.3	8.52	30	35 - 130
Pentachlorophenol	50.00	27.57	55.1	6.66	30	40 - 115
Phenanthrene	50.00	45.51	91.0	2.88	30	50 - 115
Phenol	50.00	8.740	17.5	2.71	30	0 - 115
Pyrene	50.00	49.26	98.5	4.59	30	50 - 130
2,4,6-Trichlorophenol	**50.00**	**20.47**	**40.9 ***	**21.8**	**30**	**50 - 115**
2,4,5-Trichlorophenol	**50.00**	**20.08**	**40.2 ***	**22.9**	**30**	**50 - 110**

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H17011	Laboratory ID:	1H17011-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	46.01	92.0	45 - 110
Acenaphthylene	50.00	42.41	84.8	50 - 105
Acetophenone	50.00	42.31	84.6	50 - 110
Anthracene	50.00	48.16	96.3	55 - 110
Atrazine	50.00	38.12	76.2	70 - 115
Benzaldehyde	50.00	41.34	82.7	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	52.55	105	55 - 110
Benzo(a)pyrene	50.00	50.52	101	55 - 110
Benzo(b)fluoranthene	50.00	53.84	108	45 - 120
Benzo(g,h,i)perylene	50.00	48.80	97.6	40 - 125
Benzoic acid	50.00	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	53.32	107	45 - 125
1,1-Biphenyl	50.00	40.91	81.8	50 - 110
4-Bromophenyl-phenylether	50.00	47.64	95.3	50 - 115
Butylbenzylphthalate	**50.00**	**68.28**	**137**	**45 - 115**
Caprolactam	**50.00**	**5.622**	**11.2**	**20 - 110**
Carbazole	50.00	49.19	98.4	50 - 115
4-Chloro-3-methylphenol	50.00	40.51	81.0	45 - 110
4-Chloroaniline	50.00	41.30	82.6	15 - 110
Bis(2-chloroethoxy)methane	50.00	49.30	98.6	45 - 105
Bis(2-chloroethyl)ether	50.00	47.78	95.6	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	52.34	105	25 - 130
2-Chloronaphthalene	50.00	46.13	92.3	50 - 105
2-Chlorophenol	50.00	34.86	69.7	35 - 105
4-Chlorophenyl phenyl ether	50.00	47.69	95.4	50 - 110
Chrysene	50.00	51.20	102	55 - 110
Dibenz(a,h)anthracene	50.00	50.26	101	40 - 125
Dibenzofuran	50.00	48.80	97.6	55 - 105
Di-n-butylphthalate	50.00	56.62	113	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H17011	Laboratory ID:	1H17011-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	43.40	86.8	20 - 110
2,4-Dichlorophenol	50.00	39.12	78.2	40 - 110
Diethylphthalate	50.00	57.55	115	40 - 120
2,4-Dimethylphenol	50.00	40.35	80.7	30 - 110
Dimethyl phthalate	50.00	54.68	109	25 - 125
4,6-Dinitro-2-methylphenol	50.00	49.38	98.8	40 - 130
2,4-Dinitrophenol	50.00	35.68	71.4	15 - 140
2,4-Dinitrotoluene	50.00	54.18	108	50 - 120
2,6-Dinitrotoluene	50.00	51.96	104	50 - 115
Di-n-octylphthalate	**50.00**	**69.21**	**138**	**35 - 135**
1,2-Diphenylhydrazine	50.00	46.78	93.6	55 - 115
Bis(2-ethylhexyl)phthalate	**50.00**	**67.74**	**135**	**40 - 125**
Fluoranthene	50.00	45.10	90.2	55 - 115
Fluorene	50.00	47.79	95.6	50 - 110
Hexachlorobenzene	50.00	46.90	93.8	50 - 110
Hexachlorobutadiene	50.00	26.28	52.6	25 - 105
Hexachlorocyclopentadiene	50.00	19.30	38.6	10 - 110
Hexachloroethane	50.00	25.31	50.6	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	54.50	109	45 - 125
Isophorone	50.00	43.95	87.9	50 - 110
1-Methylnaphthalene	50.00	41.83	83.7	30 - 115
2-Methylnaphthalene	50.00	41.93	83.9	45 - 105
2-Methylphenol	50.00	31.20	62.4	40 - 110
3-Methylphenol/4-Methylphenol	50.00	27.19	54.4	30 - 110
4-Nitroaniline	50.00	49.76	99.5	35 - 120
3-Nitroaniline	50.00	44.08	88.2	20 - 125
2-Nitroaniline	50.00	51.86	104	50 - 115
Nitrobenzene	50.00	45.94	91.9	30 - 110
4-Nitrophenol	50.00	11.29	22.6	0 - 125
2-Nitrophenol	50.00	43.55	87.1	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H17011	Laboratory ID:	1H17011-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	50.82	102	35 - 130
Pentachlorophenol	50.00	42.63	85.3	40 - 115
Phenanthrene	50.00	49.16	98.3	50 - 115
Phenol	50.00	12.09	24.2	0 - 115
Pyrene	50.00	53.54	107	50 - 130
2,4,6-Trichlorophenol	50.00	44.38	88.8	50 - 115
2,4,5-Trichlorophenol	50.00	42.85	85.7	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H12020 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0195	1108210-01	08/19/11 13:15	1,000.00	1.00
GW0195	1108210-01RE1	08/19/11 13:15	1,000.00	1.00
GW0232	1108210-03	08/19/11 13:15	1,000.00	1.00
Blank	1H12020-BLK1	08/19/11 13:15	1,000.00	1.00
LCS	1H12020-BS1	08/19/11 13:15	1,000.00	1.00
LCS Dup	1H12020-BSD1	08/19/11 13:15	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H16013 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0173-R	1108174-01	08/17/11 10:15	1,040.00	1.00
GW0198	1108174-03	08/17/11 10:15	1,000.00	1.00
Blank	1H16013-BLK1	08/17/11 10:15	1,000.00	1.00
LCS	1H16013-BS1	08/17/11 10:15	1,000.00	1.00
LCS Dup	1H16013-BSD1	08/17/11 10:15	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H17011 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0197	1108181-01	08/19/11 11:00	1,080.00	1.00
GW0197	1108181-01RE1	08/19/11 11:00	1,080.00	1.00
GW0215	1108205-01	08/19/11 11:00	1,000.00	1.00
GW0230	1108205-03	08/19/11 11:00	1,060.00	1.00
GW0231	1108205-05	08/19/11 11:00	1,050.00	1.00
Blank	1H17011-BLK1	08/19/11 11:00	1,000.00	1.00
LCS	1H17011-BS1	08/19/11 11:00	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024
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_024
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_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/06/11
Instrument ID:	MS-BNA3	Injection Time:	16:12
Sequence:	1I25004	Lab Sample ID:	1I25004-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	53.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	52.7	PASS
70	Less than 2% of 69	0.32	PASS
127	40 - 60% of 198	55.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.7	PASS
275	10 - 30% of 198	24	PASS
365	1 - 200% of 198	1.33	PASS
441	0.001 - 100% of 443	78.6	PASS
442	40 - 200% of 198	63.8	PASS
443	17 - 23% of 442	18.6	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/07/11
Instrument ID:	MS-BNA3	Injection Time:	13:46
Sequence:	1I25109	Lab Sample ID:	1I25109-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	55.5	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	53.8	PASS
70	Less than 2% of 69	0.647	PASS
127	40 - 60% of 198	57.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	8.03	PASS
275	10 - 30% of 198	23.3	PASS
365	1 - 200% of 198	2.09	PASS
441	0.001 - 100% of 443	60.8	PASS
442	40 - 200% of 198	57	PASS
443	17 - 23% of 442	22	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN3.D	Injection Date:	09/08/11
Instrument ID:	MS-BNA3	Injection Time:	13:01
Sequence:	1I25210	Lab Sample ID:	1I25210-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	55.6	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	53.1	PASS
70	Less than 2% of 69	0.424	PASS
127	40 - 60% of 198	53.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.83	PASS
275	10 - 30% of 198	21.5	PASS
365	1 - 200% of 198	2.28	PASS
441	0.001 - 100% of 443	81.8	PASS
442	40 - 200% of 198	52.2	PASS
443	17 - 23% of 442	19.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/10/11
Instrument ID:	MS-BNA3	Injection Time:	20:36
Sequence:	1I25508	Lab Sample ID:	1I25508-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	57.6	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	55.7	PASS
70	Less than 2% of 69	0.522	PASS
127	40 - 60% of 198	58.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.56	PASS
275	10 - 30% of 198	24	PASS
365	1 - 200% of 198	2.19	PASS
441	0.001 - 100% of 443	68.3	PASS
442	40 - 200% of 198	53.1	PASS
443	17 - 23% of 442	20.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/14/11
Instrument ID:	MS-BNA3	Injection Time:	12:55
Sequence:	1I25812	Lab Sample ID:	1I25812-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	44.3	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	49.5	PASS
70	Less than 2% of 69	0.53	PASS
127	40 - 60% of 198	51.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.51	PASS
275	10 - 30% of 198	19.5	PASS
365	1 - 200% of 198	1.98	PASS
441	0.001 - 100% of 443	79.7	PASS
442	40 - 200% of 198	45.7	PASS
443	17 - 23% of 442	19.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/15/11
Instrument ID:	MS-BNA3	Injection Time:	16:28
Sequence:	1I25914	Lab Sample ID:	1I25914-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	47.4	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	54.3	PASS
70	Less than 2% of 69	0.608	PASS
127	40 - 60% of 198	58.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.44	PASS
275	10 - 30% of 198	18.6	PASS
365	1 - 200% of 198	1.53	PASS
441	0.001 - 100% of 443	67.3	PASS
442	40 - 200% of 198	41.5	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	09/17/11
Instrument ID:	MS-BNA3	Injection Time:	21:02
Sequence:	1I26217	Lab Sample ID:	1I26217-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	44.6	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	49.8	PASS
70	Less than 2% of 69	0.329	PASS
127	40 - 60% of 198	56.9	PASS
197	Less than 1% of 198	0.884	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.56	PASS
275	10 - 30% of 198	20.8	PASS
365	1 - 200% of 198	1.69	PASS
441	0.001 - 100% of 443	58.2	PASS
442	40 - 200% of 198	45.4	PASS
443	17 - 23% of 442	21.9	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25004	Instrument:	MS-BNA3
Calibration:	1I22001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I25004-TUN1	SEQ-TUN1.D	09/06/11 16:12
Calibration Check	1I25004-CCV1	SEQ-CCV1.D	09/06/11 16:40
Calibration Check	1I25004-CCV2	SEQ-CCV2.D	09/06/11 17:57
Blank	1H16013-BLK1	H16013B1.D	09/06/11 19:19
LCS	1H16013-BS1	H16013L1.D	09/06/11 19:59
LCS Dup	1H16013-BSD1	H16013L2.D	09/06/11 20:40
GW0173-R	1108174-01	0817401.D	09/07/11 01:23
GW0198	1108174-03	0817403.D	09/07/11 02:04
Blank	1H17011-BLK1	H17011B1.D	09/07/11 02:45
LCS	1H17011-BS1	H17011L1.D	09/07/11 03:26

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25109	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I25109-TUN1	SEQ-TUN1.D	09/07/11 13:46
Calibration Check	1I25109-CCV1	SEQ-CCV1.D	09/07/11 14:14
Calibration Check	1I25109-CCV2	SEQ-CCV2.D	09/07/11 15:13
GW0197	1108181-01	0818101.D	09/07/11 21:05

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25210	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I25210-TUN1	SEQ-TUN3.D	09/08/11 13:01
Calibration Check	1I25210-CCV1	SEQ-CCV5.D	09/08/11 13:29
Calibration Check	1I25210-CCV2	SEQ-CCV6.D	09/08/11 14:09
GW0215	1108205-01	0820501.D	09/08/11 15:30
GW0230	1108205-03	0820503.D	09/08/11 16:10
GW0231	1108205-05	0820505.D	09/08/11 16:51
GW0197	1108181-01RE1	0818101D.D	09/08/11 22:13

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25508	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I25508-TUN1	SEQ-TUN1.D	09/10/11 20:36
Calibration Check	1I25508-CCV1	SEQ-CCV1.D	09/10/11 21:03
LCS	1H12020-BS1	H12020L1.D	09/10/11 23:48

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25812	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I25812-TUN1	SEQ-TUN1.D	09/14/11 12:55
Calibration Check	1I25812-CCV1	SEQ-CCV1.D	09/14/11 13:25
LCS Dup	1H12020-BSD1	H12020L2.D	09/14/11 16:45

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25914	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I25914-TUN1	SEQ-TUN1.D	09/15/11 16:28
Calibration Check	1I25914-CCV1	SEQ-CCV1.D	09/15/11 16:56
Calibration Check	1I25914-CCV2	SEQ-CCV2.D	09/15/11 17:41
Blank	1H12020-BLK1	H12020B1.D	09/15/11 18:58
GW0195	1108210-01	0821001.D	09/16/11 03:23
GW0232	1108210-03	0821003.D	09/16/11 04:02

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I26217	Instrument:	MS-BNA3
Calibration:	1122001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1I26217-TUN1	SEQ-TUN1.D	09/17/11 21:02
Calibration Check	1I26217-CCV1	SEQ-CCV1.D	09/17/11 21:29
Calibration Check	1I26217-CCV2	SEQ-CCV2.D	09/17/11 22:30
GW0195	1108210-01RE1	0821001D.D	09/17/11 23:48

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25004	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I25004-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 09/06/11 16:40			
1,4-Dichlorobenzene-d4	629763	7.347	473419	6.389	133	50 - 200	0.9580	+/-0.50	
Naphthalene-d8	2236342	8.982	1697246	8.029	132	50 - 200	0.9530	+/-0.50	
Acenaphthene-d10	1235137	11.194	970176	10.251	127	50 - 200	0.9430	+/-0.50	
Phenanthrene-d10	2077622	13.058	1609148	12.094	129	50 - 200	0.9640	+/-0.50	
Chrysene-d12	1842425	17.417	1722869	16.261	107	50 - 200	1.1560	+/-0.50	
Perylene-d12	1749691	20.28	1702026	19.012	103	50 - 200	1.2680	+/-0.50	
Calibration Check (1I25004-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 09/06/11 17:57			
1,4-Dichlorobenzene-d4	437896	7.342	629763	7.347	70	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	1631274	8.972	2236342	8.982	73	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	879865	11.183	1235137	11.194	71	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	1483745	13.053	2077622	13.058	71	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1375804	17.402	1842425	17.417	75	50 - 200	-0.0150	+/-0.50	
Perylene-d12	1323065	20.27	1749691	20.28	76	50 - 200	-0.0100	+/-0.50	
Blank (1H16013-BLK1)			Lab File ID: H16013B1.D			Analyzed: 09/06/11 19:19			
1,4-Dichlorobenzene-d4	632803	7.348	629763	7.347	100	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2321704	8.977	2236342	8.982	104	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1303513	11.189	1235137	11.194	106	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	2048977	13.053	2077622	13.058	99	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1947314	17.407	1842425	17.417	106	50 - 200	-0.0100	+/-0.50	
Perylene-d12	1961192	20.281	1749691	20.28	112	50 - 200	0.0010	+/-0.50	
LCS (1H16013-BS1)			Lab File ID: H16013L1.D			Analyzed: 09/06/11 19:59			
1,4-Dichlorobenzene-d4	426481	7.344	629763	7.347	68	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1574842	8.973	2236342	8.982	70	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	881258	11.185	1235137	11.194	71	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1489518	13.049	2077622	13.058	72	50 - 200	-0.0090	+/-0.50	
Chrysene-d12	1346939	17.409	1842425	17.417	73	50 - 200	-0.0080	+/-0.50	
Perylene-d12	1260366	20.267	1749691	20.28	72	50 - 200	-0.0130	+/-0.50	
LCS Dup (1H16013-BSD1)			Lab File ID: H16013L2.D			Analyzed: 09/06/11 20:40			
1,4-Dichlorobenzene-d4	712742	7.342	629763	7.347	113	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	2606458	8.977	2236342	8.982	117	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1437495	11.189	1235137	11.194	116	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	2314827	13.053	2077622	13.058	111	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	2122561	17.418	1842425	17.417	115	50 - 200	0.0010	+/-0.50	
Perylene-d12	1854359	20.281	1749691	20.28	106	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25004	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0173-R (1108174-01)			Lab File ID: 0817401.D			Analyzed: 09/07/11 01:23			
1,4-Dichlorobenzene-d4	533480	7.348	629763	7.347	85	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2002741	8.977	2236342	8.982	90	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1143189	11.189	1235137	11.194	93	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1828190	13.053	2077622	13.058	88	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1698348	17.402	1842425	17.417	92	50 - 200	-0.0150	+/-0.50	
Perylene-d12	1700230	20.276	1749691	20.28	97	50 - 200	-0.0040	+/-0.50	
GW0198 (1108174-03)			Lab File ID: 0817403.D			Analyzed: 09/07/11 02:04			
1,4-Dichlorobenzene-d4	649328	7.337	629763	7.347	103	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	2376073	8.966	2236342	8.982	106	50 - 200	-0.0160	+/-0.50	
Acenaphthene-d10	1360146	11.178	1235137	11.194	110	50 - 200	-0.0160	+/-0.50	
Phenanthrene-d10	2177062	13.042	2077622	13.058	105	50 - 200	-0.0160	+/-0.50	
Chrysene-d12	2025641	17.391	1842425	17.417	110	50 - 200	-0.0260	+/-0.50	
Perylene-d12	2041958	20.265	1749691	20.28	117	50 - 200	-0.0150	+/-0.50	
Blank (1H17011-BLK1)			Lab File ID: H17011B1.D			Analyzed: 09/07/11 02:45			
1,4-Dichlorobenzene-d4	648676	7.342	629763	7.347	103	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	2422078	8.972	2236342	8.982	108	50 - 200	-0.0100	+/-0.50	
Acenaphthene-d10	1380088	11.183	1235137	11.194	112	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	2223382	13.048	2077622	13.058	107	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	2098407	17.402	1842425	17.417	114	50 - 200	-0.0150	+/-0.50	
Perylene-d12	2088753	20.27	1749691	20.28	119	50 - 200	-0.0100	+/-0.50	
LCS (1H17011-BS1)			Lab File ID: H17011L1.D			Analyzed: 09/07/11 03:26			
1,4-Dichlorobenzene-d4	529010	7.354	629763	7.347	84	50 - 200	0.0070	+/-0.50	
Naphthalene-d8	1953999	8.988	2236342	8.982	87	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10	1097693	11.195	1235137	11.194	89	50 - 200	0.0010	+/-0.50	
Phenanthrene-d10	1812360	13.064	2077622	13.058	87	50 - 200	0.0060	+/-0.50	
Chrysene-d12	1655286	17.424	1842425	17.417	90	50 - 200	0.0070	+/-0.50	
Perylene-d12	1572087	20.287	1749691	20.28	90	50 - 200	0.0070	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25109	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I25109-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 09/07/11 14:14			
1,4-Dichlorobenzene-d4	609645	7.281	473419	6.389	129	50 - 200	0.8920	+/-0.50	
Naphthalene-d8	2202708	8.916	1697246	8.029	130	50 - 200	0.8870	+/-0.50	
Acenaphthene-d10	1225210	11.127	970176	10.251	126	50 - 200	0.8760	+/-0.50	
Phenanthrene-d10	2058070	12.992	1609148	12.094	128	50 - 200	0.8980	+/-0.50	
Chrysene-d12	1894145	17.324	1722869	16.261	110	50 - 200	1.0630	+/-0.50	
Perylene-d12	1797590	20.172	1702026	19.012	106	50 - 200	1.1600	+/-0.50	
Calibration Check (1I25109-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 09/07/11 15:13			
1,4-Dichlorobenzene-d4	765769	7.296	609645	7.281	126	50 - 200	0.0150	+/-0.50	
Naphthalene-d8	2832755	8.925	2202708	8.916	129	50 - 200	0.0090	+/-0.50	
Acenaphthene-d10	1507590	11.137	1225210	11.127	123	50 - 200	0.0100	+/-0.50	
Phenanthrene-d10	2552823	13.002	2058070	12.992	124	50 - 200	0.0100	+/-0.50	
Chrysene-d12	2333609	17.334	1894145	17.324	123	50 - 200	0.0100	+/-0.50	
Perylene-d12	2311140	20.187	1797590	20.172	129	50 - 200	0.0150	+/-0.50	
GW0197 (1108181-01)			Lab File ID: 0818101.D			Analyzed: 09/07/11 21:05			
1,4-Dichlorobenzene-d4	573343	7.297	609645	7.281	94	50 - 200	0.0160	+/-0.50	
Naphthalene-d8	2442274	8.937	2202708	8.916	111	50 - 200	0.0210	+/-0.50	
Acenaphthene-d10	1372109	11.143	1225210	11.127	112	50 - 200	0.0160	+/-0.50	
Phenanthrene-d10	1752949	12.997	2058070	12.992	85	50 - 200	0.0050	+/-0.50	
Chrysene-d12	1644519	17.319	1894145	17.324	87	50 - 200	-0.0050	+/-0.50	
Perylene-d12	1587651	20.166	1797590	20.172	88	50 - 200	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25210	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I25210-CCV1)			Lab File ID: SEQ-CCV5.D			Analyzed: 09/08/11 13:29			
1,4-Dichlorobenzene-d4	542771	7.292	473419	6.389	115	50 - 200	0.9030	+/-0.50	
Naphthalene-d8	1974541	8.921	1697246	8.029	116	50 - 200	0.8920	+/-0.50	
Acenaphthene-d10	1094138	11.133	970176	10.251	113	50 - 200	0.8820	+/-0.50	
Phenanthrene-d10	1845657	12.997	1609148	12.094	115	50 - 200	0.9030	+/-0.50	
Chrysene-d12	1682054	17.335	1722869	16.261	98	50 - 200	1.0740	+/-0.50	
Perylene-d12	1594490	20.182	1702026	19.012	94	50 - 200	1.1700	+/-0.50	
Calibration Check (1I25210-CCV2)			Lab File ID: SEQ-CCV6.D			Analyzed: 09/08/11 14:09			
1,4-Dichlorobenzene-d4	779870	7.291	542771	7.292	144	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2906273	8.92	1974541	8.921	147	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	1574207	11.132	1094138	11.133	144	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	2630235	12.996	1845657	12.997	143	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	2397152	17.323	1682054	17.335	143	50 - 200	-0.0120	+/-0.50	
Perylene-d12	2389324	20.176	1594490	20.182	150	50 - 200	-0.0060	+/-0.50	
GW0215 (1108205-01)			Lab File ID: 0820501.D			Analyzed: 09/08/11 15:30			
1,4-Dichlorobenzene-d4	493548	7.278	542771	7.292	91	50 - 200	-0.0140	+/-0.50	
Naphthalene-d8	1822362	8.907	1974541	8.921	92	50 - 200	-0.0140	+/-0.50	
Acenaphthene-d10	1047975	11.119	1094138	11.133	96	50 - 200	-0.0140	+/-0.50	
Phenanthrene-d10	1675824	12.978	1845657	12.997	91	50 - 200	-0.0190	+/-0.50	
Chrysene-d12	1577716	17.305	1682054	17.335	94	50 - 200	-0.0300	+/-0.50	
Perylene-d12	1578563	20.152	1594490	20.182	99	50 - 200	-0.0300	+/-0.50	
GW0230 (1108205-03)			Lab File ID: 0820503.D			Analyzed: 09/08/11 16:10			
1,4-Dichlorobenzene-d4	549253	7.283	542771	7.292	101	50 - 200	-0.0090	+/-0.50	
Naphthalene-d8	1986241	8.912	1974541	8.921	101	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	1131039	11.124	1094138	11.133	103	50 - 200	-0.0090	+/-0.50	
Phenanthrene-d10	1842643	12.983	1845657	12.997	100	50 - 200	-0.0140	+/-0.50	
Chrysene-d12	1824243	17.315	1682054	17.335	108	50 - 200	-0.0200	+/-0.50	
Perylene-d12	1835514	20.162	1594490	20.182	115	50 - 200	-0.0200	+/-0.50	
GW0231 (1108205-05)			Lab File ID: 0820505.D			Analyzed: 09/08/11 16:51			
1,4-Dichlorobenzene-d4	419294	7.282	542771	7.292	77	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	1540807	8.912	1974541	8.921	78	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	867679	11.123	1094138	11.133	79	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1429190	12.982	1845657	12.997	77	50 - 200	-0.0150	+/-0.50	
Chrysene-d12	1406235	17.31	1682054	17.335	84	50 - 200	-0.0250	+/-0.50	
Perylene-d12	1394382	20.157	1594490	20.182	87	50 - 200	-0.0250	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25210	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0197 (1108181-01RE1)			Lab File ID: 0818101D.D			Analyzed: 09/08/11 22:13			
1,4-Dichlorobenzene-d4	596102	7.286	542771	7.292	110	50 - 200	-0.0060	+/-0.50	
Naphthalene-d8	2195430	8.921	1974541	8.921	111	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1231538	11.127	1094138	11.133	113	50 - 200	-0.0060	+/-0.50	
Phenanthrene-d10	2082042	12.986	1845657	12.997	113	50 - 200	-0.0110	+/-0.50	
Chrysene-d12	2073471	17.313	1682054	17.335	123	50 - 200	-0.0220	+/-0.50	
Perylene-d12	2082133	20.166	1594490	20.182	131	50 - 200	-0.0160	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25508	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I25508-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 09/10/11 21:03			
1,4-Dichlorobenzene-d4	351582	7.196	473419	6.389	74	50 - 200	0.8070	+/-0.50	
Naphthalene-d8	1266251	8.826	1697246	8.029	75	50 - 200	0.7970	+/-0.50	
Acenaphthene-d10	702525	11.037	970176	10.251	72	50 - 200	0.7860	+/-0.50	
Phenanthrene-d10	1166094	12.891	1609148	12.094	72	50 - 200	0.7970	+/-0.50	
Chrysene-d12	1188078	17.181	1722869	16.261	69	50 - 200	0.9200	+/-0.50	
Perylene-d12	1137740	19.996	1702026	19.012	67	50 - 200	0.9840	+/-0.50	
LCS (1H12020-BS1)			Lab File ID: H12020L1.D			Analyzed: 09/10/11 23:48			
1,4-Dichlorobenzene-d4	489208	7.196	351582	7.196	139	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1797403	8.825	1266251	8.826	142	50 - 200	-0.0010	+/-0.50	
Acenaphthene-d10	985973	11.037	702525	11.037	140	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1630601	12.89	1166094	12.891	140	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1680350	17.185	1188078	17.181	141	50 - 200	0.0040	+/-0.50	
Perylene-d12	1594379	19.995	1137740	19.996	140	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25812	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I25812-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 09/14/11 13:25			
1,4-Dichlorobenzene-d4	529184	6.994	473419	6.389	112	50 - 200	0.6050	+/-0.50	
Naphthalene-d8	1880753	8.628	1697246	8.029	111	50 - 200	0.5990	+/-0.50	
Acenaphthene-d10	1059779	10.835	970176	10.251	109	50 - 200	0.5840	+/-0.50	
Phenanthrene-d10	1788259	12.678	1609148	12.094	111	50 - 200	0.5840	+/-0.50	
Chrysene-d12	1646595	16.903	1722869	16.261	96	50 - 200	0.6420	+/-0.50	
Perylene-d12	1588907	19.67	1702026	19.012	93	50 - 200	0.6580	+/-0.50	
LCS Dup (1H12020-BSD1)			Lab File ID: H12020L2.D			Analyzed: 09/14/11 16:45			
1,4-Dichlorobenzene-d4	377850	7.002	529184	6.994	71	50 - 200	0.0080	+/-0.50	
Naphthalene-d8	1395526	8.632	1880753	8.628	74	50 - 200	0.0040	+/-0.50	
Acenaphthene-d10	797459	10.843	1059779	10.835	75	50 - 200	0.0080	+/-0.50	
Phenanthrene-d10	1327597	12.681	1788259	12.678	74	50 - 200	0.0030	+/-0.50	
Chrysene-d12	1248487	16.907	1646595	16.903	76	50 - 200	0.0040	+/-0.50	
Perylene-d12	1142740	19.674	1588907	19.67	72	50 - 200	0.0040	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25914	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I25914-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 09/15/11 16:56			
1,4-Dichlorobenzene-d4	530518	6.933	473419	6.389	112	50 - 200	0.5440	+/-0.50	
Naphthalene-d8	1891458	8.568	1697246	8.029	111	50 - 200	0.5390	+/-0.50	
Acenaphthene-d10	1076093	10.779	970176	10.251	111	50 - 200	0.5280	+/-0.50	
Phenanthrene-d10	1801025	12.622	1609148	12.094	112	50 - 200	0.5280	+/-0.50	
Chrysene-d12	1632991	16.837	1722869	16.261	95	50 - 200	0.5760	+/-0.50	
Perylene-d12	1569002	19.605	1702026	19.012	92	50 - 200	0.5930	+/-0.50	
Calibration Check (1I25914-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 09/15/11 17:41			
1,4-Dichlorobenzene-d4	736629	6.933	530518	6.933	139	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2680019	8.563	1891458	8.568	142	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1504205	10.774	1076093	10.779	140	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	2539331	12.623	1801025	12.622	141	50 - 200	0.0010	+/-0.50	
Chrysene-d12	2321926	16.832	1632991	16.837	142	50 - 200	-0.0050	+/-0.50	
Perylene-d12	2287108	19.599	1569002	19.605	146	50 - 200	-0.0060	+/-0.50	
Blank (1H12020-BLK1)			Lab File ID: H12020B1.D			Analyzed: 09/15/11 18:58			
1,4-Dichlorobenzene-d4	660079	6.933	530518	6.933	124	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2437016	8.563	1891458	8.568	129	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1421443	10.774	1076093	10.779	132	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	2350717	12.617	1801025	12.622	131	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	2189104	16.822	1632991	16.837	134	50 - 200	-0.0150	+/-0.50	
Perylene-d12	2187556	19.594	1569002	19.605	139	50 - 200	-0.0110	+/-0.50	
GW0195 (1108210-01)			Lab File ID: 0821001.D			Analyzed: 09/16/11 03:23			
1,4-Dichlorobenzene-d4	452764	6.931	530518	6.933	85	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	1798373	8.576	1891458	8.568	95	50 - 200	0.0080	+/-0.50	
Acenaphthene-d10	902692	10.777	1076093	10.779	84	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1496984	12.62	1801025	12.622	83	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1405530	16.814	1632991	16.837	86	50 - 200	-0.0230	+/-0.50	
Perylene-d12	1275120	19.581	1569002	19.605	81	50 - 200	-0.0240	+/-0.50	
GW0232 (1108210-03)			Lab File ID: 0821003.D			Analyzed: 09/16/11 04:02			
1,4-Dichlorobenzene-d4	671348	6.934	530518	6.933	127	50 - 200	0.0010	+/-0.50	
Naphthalene-d8	2435306	8.563	1891458	8.568	129	50 - 200	-0.0050	+/-0.50	
Acenaphthene-d10	1419804	10.775	1076093	10.779	132	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	2245853	12.618	1801025	12.622	125	50 - 200	-0.0040	+/-0.50	
Chrysene-d12	2006205	16.827	1632991	16.837	123	50 - 200	-0.0100	+/-0.50	
Perylene-d12	1900023	19.595	1569002	19.605	121	50 - 200	-0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I26217	Instrument:	MS-BNA3
		Calibration:	1122001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1I26217-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 09/17/11 21:29			
1,4-Dichlorobenzene-d4	890177	6.846	473419	6.389	188	50 - 200	0.4570	+/-0.50	
Naphthalene-d8	3185526	8.475	1697246	8.029	188	50 - 200	0.4460	+/-0.50	
Acenaphthene-d10	1833652	10.687	970176	10.251	189	50 - 200	0.4360	+/-0.50	
Phenanthrene-d10	3045232	12.525	1609148	12.094	189	50 - 200	0.4310	+/-0.50	
Chrysene-d12	2788313	16.702	1722869	16.261	162	50 - 200	0.4410	+/-0.50	
Perylene-d12	2706966	19.443	1702026	19.012	159	50 - 200	0.4310	+/-0.50	
Calibration Check (1I26217-CCV2)			Lab File ID: SEQ-CCV2.D			Analyzed: 09/17/11 22:30			
1,4-Dichlorobenzene-d4	588370	6.843	890177	6.846	66	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	2179727	8.478	3185526	8.475	68	50 - 200	0.0030	+/-0.50	
Acenaphthene-d10	1234457	10.684	1833652	10.687	67	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	2060207	12.527	3045232	12.525	68	50 - 200	0.0020	+/-0.50	
Chrysene-d12	1881833	16.689	2788313	16.702	67	50 - 200	-0.0130	+/-0.50	
Perylene-d12	1880372	19.44	2706966	19.443	69	50 - 200	-0.0030	+/-0.50	
GW0195 (1108210-01RE1)			Lab File ID: 0821001D.D			Analyzed: 09/17/11 23:48			
1,4-Dichlorobenzene-d4	552532	6.854	890177	6.846	62	50 - 200	0.0080	+/-0.50	
Naphthalene-d8	1963369	8.484	3185526	8.475	62	50 - 200	0.0090	+/-0.50	
Acenaphthene-d10	1137593	10.69	1833652	10.687	62	50 - 200	0.0030	+/-0.50	
Phenanthrene-d10	1934339	12.528	3045232	12.525	64	50 - 200	0.0030	+/-0.50	
Chrysene-d12	1908587	16.695	2788313	16.702	68	50 - 200	-0.0070	+/-0.50	
Perylene-d12	1905911	19.451	2706966	19.443	70	50 - 200	0.0080	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024	
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_024
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_024
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_024
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_024
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_024
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_024
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_024
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_024
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_024
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_024	
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_024
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_024
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_024
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_024
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_024
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_024
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_024
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:	1I25004	Injection Date:	09/06/11
Lab Sample ID:	1I25004-CCV1	Injection Time:	16:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	52.34	1.110356	1.162287		4.7	20
Acenaphthylene	A	50.00	53.86	1.725208	1.858349		7.7	20
Acetophenone	A	50.00	51.54	1.801986	1.857331		3.1	20
Anthracene	A	50.00	51.14	1.092671	1.117576		2.3	20
Benzidine	A	50.00	65.34	0.641297	0.8379999		30.7	20 *
Benzo(a)anthracene	A	50.00	55.78	1.119297	1.248639		11.6	20
Benzo(a)pyrene	A	50.00	55.32	1.045862	1.157154		10.6	20
Benzo(b)fluoranthene	A	50.00	61.90	1.093698	1.354085		23.8	20 *
Benzo(g,h,i)perylene	A	50.00	52.14	1.033139	1.07727		4.3	20
Benzoic acid	A	50.00	44.42	0.2679395	0.2380466		-11.2	20
Benzo(k)fluoranthene	A	50.00	54.87	1.107729	1.215635		9.7	20
1,1-Biphenyl	A	50.00	49.89	1.444453	1.441385		-0.2	20
4-Bromophenyl-phenylether	A	50.00	46.05	0.2284778	0.2104414		-7.9	20
Butylbenzylphthalate	A	50.00	65.40	0.5129818	0.6709779		30.8	20 *
Caprolactam	A	50.00	44.29	0.1128421	9.994607E-02		-11.4	20
Carbazole	A	50.00	49.77	1.044381	1.039475		-0.5	20
4-Chloro-3-methylphenol	A	50.00	51.27	0.3113523	0.3192449		2.5	20
4-Chloroaniline	A	50.00	51.83	0.4225325	0.4379949		3.7	20
Bis(2-chloroethoxy)methane	A	50.00	47.67	0.4269873	0.407073		-4.7	20
Bis(2-chloroethyl)ether	A	50.00	50.59	1.297842	1.313043		1.2	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.74	1.947114	2.053929		5.5	20
2-Chloronaphthalene	A	50.00	57.12	1.087766	1.24266		14.2	20
2-Chlorophenol	A	50.00	50.15	1.315004	1.319042		0.3	20
4-Chlorophenyl phenyl ether	A	50.00	51.42	0.6233489	0.6410262		2.8	20
Chrysene	A	50.00	52.90	1.047865	1.108738		5.8	20
Dibenz(a,h)anthracene	A	50.00	52.46	1.004478	1.053832		4.9	20
Dibenzofuran	A	50.00	52.85	1.535116	1.622546		5.7	20
Di-n-butylphthalate	A	50.00	55.16	1.182012	1.303942		10.3	20
3,3'-Dichlorobenzidine	A	50.00	61.99	0.4067228	0.5042698		24.0	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I25004	Injection Date:	09/06/11
Lab Sample ID:	1I25004-CCV1	Injection Time:	16:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	48.78	0.3046728	0.2972329		-2.4	20
Diethylphthalate	A	50.00	56.81	1.194731	1.3574		13.6	20
2,4-Dimethylphenol	A	50.00	51.68	0.3636609	0.3759021		3.4	20
Dimethyl phthalate	A	50.00	52.39	1.244441	1.303878		4.8	20
4,6-Dinitro-2-methylphenol	A	50.00	51.32	0.1454148	0.1492506		2.6	20
2,4-Dinitrophenol	A	50.00	45.17	0.1854397	0.1675267	0.05	-9.7	20
2,4-Dinitrotoluene	A	50.00	55.00	0.3929838	0.432272		10.0	20
2,6-Dinitrotoluene	A	50.00	53.20	0.2991862	0.3183135		6.4	20
Di-n-octylphthalate	A	50.00	67.35	1.204345	1.622269		34.7	20 *
1,2-Diphenylhydrazine	A	50.00	47.76	0.8507103	0.8126225		-4.5	20
Bis(2-ethylhexyl)phthalate	A	50.00	65.31	0.6793074	0.8873201		30.6	20 *
Fluoranthene	A	50.00	47.82	1.233837	1.17993		-4.4	20
Fluorene	A	50.00	52.44	1.337519	1.402905		4.9	20
Hexachlorobenzene	A	50.00	47.75	0.244362	0.233371		-4.5	20
Hexachlorobutadiene	A	50.00	48.89	0.1868569	0.1827026		-2.2	20
Hexachlorocyclopentadiene	A	50.00	48.19	0.374975	0.3614284	0.05	-3.6	20
Hexachloroethane	A	50.00	51.53	0.5464632	0.5631833		3.1	20
Indeno(1,2,3-cd)pyrene	A	50.00	56.76	1.038008	1.178381		13.5	20
Isophorone	A	50.00	46.90	0.7442763	0.6981895		-6.2	20
1-Methylnaphthalene	A	50.00	48.83	0.5872691	0.5734855		-2.3	20
2-Methylnaphthalene	A	50.00	49.45	0.5974192	0.5908331		-1.1	20
2-Methylphenol	A	50.00	51.24	1.208635	1.238575		2.5	20
3-Methylphenol/4-Methylphenol	A	50.00	51.99	1.268409	1.318905		4.0	20
4-Nitroaniline	A	50.00	55.72	0.3272887	0.3647608		11.4	20
3-Nitroaniline	A	50.00	53.22	0.3230815	0.3438932		6.4	20
2-Nitroaniline	A	50.00	52.59	0.3700237	0.3892044		5.2	20
Nitrobenzene	A	50.00	50.23	0.4107927	0.4127061		0.5	20
4-Nitrophenol	A	50.00	50.60	0.2721678	0.275424	0.05	1.2	20
2-Nitrophenol	A	50.00	50.67	0.1941449	0.1967474		1.3	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I25004	Injection Date:	09/06/11
Lab Sample ID:	1I25004-CCV1	Injection Time:	16:40

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	51.95	0.6728889	0.6990943		3.9	20
N-Nitroso-di-n-propylamine	A	50.00	49.48	1.033966	1.023143	0.05	-1.0	20
Pentachlorophenol	A	50.00	42.45	0.1623094	0.137786		-15.1	20
Phenanthrene	A	50.00	51.92	1.075866	1.11726		3.8	20
Phenol	A	50.00	50.02	1.687698	1.688321		0.04	20
Pyrene	A	50.00	56.18	1.163766	1.307503		12.4	20
2,4,6-Trichlorophenol	A	50.00	48.12	0.382004	0.3676088		-3.8	20
2,4,5-Trichlorophenol	A	50.00	49.27	0.4142645	0.4082559		-1.5	20
2-Fluorobiphenyl	A	50.00	54.29	1.265417	1.374066		8.6	20
2-Fluorophenol	A	100.0	99.16	1.142171	1.13261		-0.8	20
Nitrobenzene-d5	A	50.00	50.31	0.4075494	0.4100582		0.6	20
Phenol-d6	A	100.0	98.33	1.572986	1.546649		-1.7	20
Terphenyl-d14	A	50.00	56.69	0.7462196	0.8460241		13.4	20
2,4,6-Tribromophenol	A	100.0	92.03	0.109869	0.1011168		-8.0	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_024
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:	1I25004	Injection Date:	09/06/11
Lab Sample ID:	1I25004-CCV2	Injection Time:	17:57

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	45.44	0.2344682	0.2131062		-9.1	20
Benzaldehyde	A	50.00	50.09	1.010105	1.01197		0.2	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_024
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:	1I25109	Injection Date:	09/07/11
Lab Sample ID:	1I25109-CCV1	Injection Time:	14:14

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	52.68	1.110356	1.169972		5.4	20
Acenaphthylene	A	50.00	54.50	1.725208	1.880322		9.0	20
Acetophenone	A	50.00	53.80	1.801986	1.939042		7.6	20
Anthracene	A	50.00	51.40	1.092671	1.12332		2.8	20
Benzidine	A	50.00	64.65	0.641297	0.8291606		29.3	20 *
Benzo(a)anthracene	A	50.00	55.06	1.119297	1.232674		10.1	20
Benzo(a)pyrene	A	50.00	54.96	1.045862	1.149663		9.9	20
Benzo(b)fluoranthene	A	50.00	62.55	1.093698	1.368312		25.1	20 *
Benzo(g,h,i)perylene	A	50.00	51.51	1.033139	1.064428		3.0	20
Benzoic acid	A	50.00	49.73	0.2679395	0.2665043		-0.5	20
Benzo(k)fluoranthene	A	50.00	53.68	1.107729	1.189332		7.4	20
1,1-Biphenyl	A	50.00	50.48	1.444453	1.458191		1.0	20
4-Bromophenyl-phenylether	A	50.00	46.06	0.2284778	0.2104962		-7.9	20
Butylbenzylphthalate	A	50.00	64.11	0.5129818	0.657738		28.2	20 *
Caprolactam	A	50.00	47.41	0.1128421	0.107001		-5.2	20
Carbazole	A	50.00	50.32	1.044381	1.051116		0.6	20
4-Chloro-3-methylphenol	A	50.00	53.91	0.3113523	0.3356886		7.8	20
4-Chloroaniline	A	50.00	52.93	0.4225325	0.4473334		5.9	20
Bis(2-chloroethoxy)methane	A	50.00	48.22	0.4269873	0.4117524		-3.6	20
Bis(2-chloroethyl)ether	A	50.00	51.52	1.297842	1.337256		3.0	20
2,2'-Oxybis-1-chloropropane	A	50.00	53.73	1.947114	2.092478		7.5	20
2-Chloronaphthalene	A	50.00	56.63	1.087766	1.232018		13.3	20
2-Chlorophenol	A	50.00	50.71	1.315004	1.333572		1.4	20
4-Chlorophenyl phenyl ether	A	50.00	51.33	0.6233489	0.6399523		2.7	20
Chrysene	A	50.00	52.70	1.047865	1.104537		5.4	20
Dibenz(a,h)anthracene	A	50.00	52.44	1.004478	1.053527		4.9	20
Dibenzofuran	A	50.00	53.24	1.535116	1.634693		6.5	20
Di-n-butylphthalate	A	50.00	56.31	1.182012	1.331198		12.6	20
3,3'-Dichlorobenzidine	A	50.00	61.55	0.4067228	0.5007135		23.1	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I25109	Injection Date:	09/07/11
Lab Sample ID:	1I25109-CCV1	Injection Time:	14:14

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	48.66	0.3046728	0.2964943		-2.7	20
Diethylphthalate	A	50.00	57.77	1.194731	1.38047		15.5	20
2,4-Dimethylphenol	A	50.00	53.04	0.3636609	0.3857539		6.1	20
Dimethyl phthalate	A	50.00	53.61	1.244441	1.334336		7.2	20
4,6-Dinitro-2-methylphenol	A	50.00	51.42	0.1454148	0.1495432		2.8	20
2,4-Dinitrophenol	A	50.00	48.52	0.1854397	0.1799483	0.05	-3.0	20
2,4-Dinitrotoluene	A	50.00	55.48	0.3929838	0.4360337		11.0	20
2,6-Dinitrotoluene	A	50.00	53.74	0.2991862	0.3215488		7.5	20
Di-n-octylphthalate	A	50.00	67.41	1.204345	1.623661		34.8	20 *
1,2-Diphenylhydrazine	A	50.00	49.14	0.8507103	0.8360073		-1.7	20
Bis(2-ethylhexyl)phthalate	A	50.00	65.51	0.6793074	0.8900759		31.0	20 *
Fluoranthene	A	50.00	48.42	1.233837	1.194802		-3.2	20
Fluorene	A	50.00	52.49	1.337519	1.40402		5.0	20
Hexachlorobenzene	A	50.00	47.18	0.244362	0.2305721		-5.6	20
Hexachlorobutadiene	A	50.00	48.91	0.1868569	0.1827688		-2.2	20
Hexachlorocyclopentadiene	A	50.00	48.81	0.374975	0.366078	0.05	-2.4	20
Hexachloroethane	A	50.00	51.43	0.5464632	0.5621317		2.9	20
Indeno(1,2,3-cd)pyrene	A	50.00	55.43	1.038008	1.150831		10.9	20
Isophorone	A	50.00	48.16	0.7442763	0.7168892		-3.7	20
1-Methylnaphthalene	A	50.00	49.58	0.5872691	0.5823021		-0.8	20
2-Methylnaphthalene	A	50.00	49.99	0.5974192	0.5972772		-0.02	20
2-Methylphenol	A	50.00	51.65	1.208635	1.248458		3.3	20
3-Methylphenol/4-Methylphenol	A	50.00	51.85	1.268409	1.315459		3.7	20
4-Nitroaniline	A	50.00	56.35	0.3272887	0.3688706		12.7	20
3-Nitroaniline	A	50.00	53.89	0.3230815	0.34821		7.8	20
2-Nitroaniline	A	50.00	54.50	0.3700237	0.4033222		9.0	20
Nitrobenzene	A	50.00	51.61	0.4107927	0.4240184		3.2	20
4-Nitrophenol	A	50.00	53.11	0.2721678	0.2890861	0.05	6.2	20
2-Nitrophenol	A	50.00	51.30	0.1941449	0.1992122		2.6	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I25109	Injection Date:	09/07/11
Lab Sample ID:	1I25109-CCV1	Injection Time:	14:14

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	51.97	0.6728889	0.699385		3.9	20
N-Nitroso-di-n-propylamine	A	50.00	50.57	1.033966	1.045651	0.05	1.1	20
Pentachlorophenol	A	50.00	45.64	0.1623094	0.1481473		-8.7	20
Phenanthrene	A	50.00	51.99	1.075866	1.118688		4.0	20
Phenol	A	50.00	50.90	1.687698	1.718157		1.8	20
Pyrene	A	50.00	55.03	1.163766	1.280804		10.1	20
2,4,6-Trichlorophenol	A	50.00	48.76	0.382004	0.3725121		-2.5	20
2,4,5-Trichlorophenol	A	50.00	48.38	0.4142645	0.400826		-3.2	20
2-Fluorobiphenyl	A	50.00	54.14	1.265417	1.370151		8.3	20
2-Fluorophenol	A	100.0	97.71	1.142171	1.115988		-2.3	20
Nitrobenzene-d5	A	50.00	50.18	0.4075494	0.4089998		0.4	20
Phenol-d6	A	100.0	100.9	1.572986	1.586907		0.9	20
Terphenyl-d14	A	50.00	54.93	0.7462196	0.8197455		9.9	20
2,4,6-Tribromophenol	A	100.0	93.96	0.109869	0.1032377		-6.0	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_024
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:	1I25109	Injection Date:	09/07/11
Lab Sample ID:	1I25109-CCV2	Injection Time:	15:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	46.52	0.2344682	0.2181344		-7.0	20
Benzaldehyde	A	50.00	48.96	1.010105	0.9890868		-2.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV5.D	Calibration Date:	04/29/11 00:00
Sequence:	1I25210	Injection Date:	09/08/11
Lab Sample ID:	1I25210-CCV1	Injection Time:	13:29

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	52.42	1.110356	1.164047		4.8	20
Acenaphthylene	A	50.00	53.84	1.725208	1.857801		7.7	20
Acetophenone	A	50.00	53.41	1.801986	1.924812		6.8	20
Anthracene	A	50.00	51.06	1.092671	1.115754		2.1	20
Benzidine	A	50.00	61.69	0.641297	0.791187		23.4	20 *
Benzo(a)anthracene	A	50.00	54.70	1.119297	1.224471		9.4	20
Benzo(a)pyrene	A	50.00	54.56	1.045862	1.141189		9.1	20
Benzo(b)fluoranthene	A	50.00	61.84	1.093698	1.352724		23.7	20 *
Benzo(g,h,i)perylene	A	50.00	50.76	1.033139	1.048846		1.5	20
Benzoic acid	A	50.00	47.58	0.2679395	0.2549858		-4.8	20
Benzo(k)fluoranthene	A	50.00	53.68	1.107729	1.189316		7.4	20
1,1-Biphenyl	A	50.00	49.92	1.444453	1.442171		-0.2	20
4-Bromophenyl-phenylether	A	50.00	45.96	0.2284778	0.2100317		-8.1	20
Butylbenzylphthalate	A	50.00	64.39	0.5129818	0.6605819		28.8	20 *
Caprolactam	A	50.00	45.51	0.1128421	0.1027143		-9.0	20
Carbazole	A	50.00	49.47	1.044381	1.033239		-1.1	20
4-Chloro-3-methylphenol	A	50.00	52.39	0.3113523	0.3262575		4.8	20
4-Chloroaniline	A	50.00	51.25	0.4225325	0.4330898		2.5	20
Bis(2-chloroethoxy)methane	A	50.00	47.35	0.4269873	0.4043994		-5.3	20
Bis(2-chloroethyl)ether	A	50.00	51.08	1.297842	1.325872		2.2	20
2,2'-Oxybis-1-chloropropane	A	50.00	55.00	1.947114	2.141724		10.0	20
2-Chloronaphthalene	A	50.00	60.63	1.087766	1.319067		21.3	20 *
2-Chlorophenol	A	50.00	50.35	1.315004	1.324323		0.7	20
4-Chlorophenyl phenyl ether	A	50.00	51.32	0.6233489	0.6398111		2.6	20
Chrysene	A	50.00	52.37	1.047865	1.097607		4.7	20
Dibenz(a,h)anthracene	A	50.00	51.94	1.004478	1.043377		3.9	20
Dibenzofuran	A	50.00	52.76	1.535116	1.619991		5.5	20
Di-n-butylphthalate	A	50.00	55.69	1.182012	1.316522		11.4	20
3,3'-Dichlorobenzidine	A	50.00	60.20	0.4067228	0.4897094		20.4	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV5.D	Calibration Date:	04/29/11 00:00
Sequence:	1I25210	Injection Date:	09/08/11
Lab Sample ID:	1I25210-CCV1	Injection Time:	13:29

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	48.81	0.3046728	0.2974224		-2.4	20
Diethylphthalate	A	50.00	57.10	1.194731	1.364395		14.2	20
2,4-Dimethylphenol	A	50.00	52.25	0.3636609	0.3800535		4.5	20
Dimethyl phthalate	A	50.00	53.53	1.244441	1.332307		7.1	20
4,6-Dinitro-2-methylphenol	A	50.00	49.90	0.1454148	0.1451173		-0.2	20
2,4-Dinitrophenol	A	50.00	48.28	0.1854397	0.1790699	0.05	-3.4	20
2,4-Dinitrotoluene	A	50.00	55.45	0.3929838	0.4358236		10.9	20
2,6-Dinitrotoluene	A	50.00	53.29	0.2991862	0.3188899		6.6	20
Di-n-octylphthalate	A	50.00	67.66	1.204345	1.62979		35.3	20 *
1,2-Diphenylhydrazine	A	50.00	48.43	0.8507103	0.8240387		-3.1	20
Bis(2-ethylhexyl)phthalate	A	50.00	64.48	0.6793074	0.8760375		29.0	20 *
Fluoranthene	A	50.00	47.33	1.233837	1.16786		-5.3	20
Fluorene	A	50.00	52.20	1.337519	1.39637		4.4	20
Hexachlorobenzene	A	50.00	47.07	0.244362	0.2300492		-5.9	20
Hexachlorobutadiene	A	50.00	49.26	0.1868569	0.184095		-1.5	20
Hexachlorocyclopentadiene	A	50.00	45.88	0.374975	0.3441094	0.05	-8.2	20
Hexachloroethane	A	50.00	51.89	0.5464632	0.5671268		3.8	20
Indeno(1,2,3-cd)pyrene	A	50.00	54.20	1.038008	1.125258		8.4	20
Isophorone	A	50.00	47.16	0.7442763	0.7019418		-5.7	20
1-Methylnaphthalene	A	50.00	49.09	0.5872691	0.5766213		-1.8	20
2-Methylnaphthalene	A	50.00	49.49	0.5974192	0.5913848		-1.0	20
2-Methylphenol	A	50.00	51.72	1.208635	1.250163		3.4	20
3-Methylphenol/4-Methylphenol	A	50.00	51.98	1.268409	1.318635		4.0	20
4-Nitroaniline	A	50.00	55.00	0.3272887	0.3599875		10.0	20
3-Nitroaniline	A	50.00	52.99	0.3230815	0.3424263		6.0	20
2-Nitroaniline	A	50.00	53.63	0.3700237	0.3968647		7.3	20
Nitrobenzene	A	50.00	50.54	0.4107927	0.4152572		1.1	20
4-Nitrophenol	A	50.00	50.41	0.2721678	0.2743807	0.05	0.8	20
2-Nitrophenol	A	50.00	51.14	0.1941449	0.1985835		2.3	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV5.D	Calibration Date:	04/29/11 00:00
Sequence:	1I25210	Injection Date:	09/08/11
Lab Sample ID:	1I25210-CCV1	Injection Time:	13:29

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	51.50	0.6728889	0.6931494		3.0	20
N-Nitroso-di-n-propylamine	A	50.00	50.73	1.033966	1.049111	0.05	1.5	20
Pentachlorophenol	A	50.00	43.56	0.1623094	0.1414105		-12.9	20
Phenanthrene	A	50.00	51.15	1.075866	1.100569		2.3	20
Phenol	A	50.00	50.66	1.687698	1.71009		1.3	20
Pyrene	A	50.00	55.10	1.163766	1.282367		10.2	20
2,4,6-Trichlorophenol	A	50.00	48.48	0.382004	0.3704059		-3.0	20
2,4,5-Trichlorophenol	A	50.00	49.37	0.4142645	0.4090299		-1.3	20
2-Fluorobiphenyl	A	50.00	54.04	1.265417	1.367743		8.1	20
2-Fluorophenol	A	100.0	99.67	1.142171	1.13842		-0.3	20
Nitrobenzene-d5	A	50.00	50.14	0.4075494	0.408658		0.3	20
Phenol-d6	A	100.0	99.73	1.572986	1.568726		-0.3	20
Terphenyl-d14	A	50.00	55.42	0.7462196	0.8271516		10.8	20
2,4,6-Tribromophenol	A	100.0	89.68	0.109869	0.0985312		-10.3	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_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1122001
Lab File ID:	SEQ-CCV6.D	Calibration Date:	04/29/11 00:00
Sequence:	1I25210	Injection Date:	09/08/11
Lab Sample ID:	1I25210-CCV2	Injection Time:	14:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	46.32	0.2344682	0.2172074		-7.4	20
Benzaldehyde	A	50.00	51.74	1.010105	1.045329		3.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I25508	Injection Date:	09/10/11
Lab Sample ID:	1I25508-CCV1	Injection Time:	21:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	54.34	1.110356	1.206846		8.7	20
Acenaphthylene	A	50.00	55.67	1.725208	1.92078		11.3	20
Acetophenone	A	50.00	49.62	1.801986	1.788253		-0.8	20
Anthracene	A	50.00	55.67	1.092671	1.216543		11.3	20
Atrazine	A	50.00	46.95	0.2344682	0.2201572		-6.1	20
Benzaldehyde	A	50.00	31.14	1.010105	0.6291357		-37.7	20 *
Benzidine	A	50.00	61.16	0.641297	0.7844455		22.3	20 *
Benzo(a)anthracene	A	50.00	53.41	1.119297	1.195603		6.8	20
Benzo(a)pyrene	A	50.00	54.19	1.045862	1.133488		8.4	20
Benzo(b)fluoranthene	A	50.00	57.65	1.093698	1.260984		15.3	20
Benzo(g,h,i)perylene	A	50.00	51.19	1.033139	1.057726		2.4	20
Benzoic acid	A	50.00	39.13	0.2679395	0.2096886		-21.7	20 *
Benzo(k)fluoranthene	A	50.00	56.28	1.107729	1.246799		12.6	20
1,1-Biphenyl	A	50.00	53.44	1.444453	1.543948		6.9	20
4-Bromophenyl-phenylether	A	50.00	49.14	0.2284778	0.2245376		-1.7	20
Butylbenzylphthalate	A	50.00	56.88	0.5129818	0.58353		13.8	20
Caprolactam	A	50.00	49.70	0.1128421	0.1121623		-0.6	20
Carbazole	A	50.00	54.44	1.044381	1.137048		8.9	20
4-Chloro-3-methylphenol	A	50.00	51.18	0.3113523	0.3187179		2.4	20
4-Chloroaniline	A	50.00	53.68	0.4225325	0.4535897		7.4	20
Bis(2-chloroethoxy)methane	A	50.00	47.52	0.4269873	0.4057875		-5.0	20
Bis(2-chloroethyl)ether	A	50.00	51.90	1.297842	1.34722		3.8	20
2,2'-Oxybis-1-chloropropane	A	50.00	45.90	1.947114	1.78727		-8.2	20
2-Chloronaphthalene	A	50.00	57.89	1.087766	1.259403		15.8	20
2-Chlorophenol	A	50.00	52.55	1.315004	1.382028		5.1	20
4-Chlorophenyl phenyl ether	A	50.00	52.37	0.6233489	0.6528975		4.7	20
Chrysene	A	50.00	54.00	1.047865	1.131688		8.0	20
Dibenz(a,h)anthracene	A	50.00	53.45	1.004478	1.073719		6.9	20
Dibenzofuran	A	50.00	54.60	1.535116	1.676473		9.2	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I25508	Injection Date:	09/10/11
Lab Sample ID:	1I25508-CCV1	Injection Time:	21:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	56.03	1.182012	1.324556		12.1	20
3,3'-Dichlorobenzidine	A	50.00	58.70	0.4067228	0.4775141		17.4	20
2,4-Dichlorophenol	A	50.00	49.16	0.3046728	0.2995735		-1.7	20
Diethylphthalate	A	50.00	54.88	1.194731	1.311327		9.8	20
2,4-Dimethylphenol	A	50.00	48.54	0.3636609	0.3530118		-2.9	20
Dimethyl phthalate	A	50.00	52.07	1.244441	1.295925		4.1	20
4,6-Dinitro-2-methylphenol	A	50.00	49.52	0.1454148	0.1440296		-1.0	20
2,4-Dinitrophenol	A	50.00	44.78	0.1854397	0.16609	0.05	-10.4	20
2,4-Dinitrotoluene	A	50.00	53.24	0.3929838	0.418495		6.5	20
2,6-Dinitrotoluene	A	50.00	52.81	0.2991862	0.3160053		5.6	20
Di-n-octylphthalate	A	50.00	59.76	1.204345	1.43945		19.5	20
1,2-Diphenylhydrazine	A	50.00	47.02	0.8507103	0.7999335		-6.0	20
Bis(2-ethylhexyl)phthalate	A	50.00	58.69	0.6793074	0.7974386		17.4	20
Fluoranthene	A	50.00	50.70	1.233837	1.251118		1.4	20
Fluorene	A	50.00	53.41	1.337519	1.428756		6.8	20
Hexachlorobenzene	A	50.00	49.07	0.244362	0.2398091		-1.9	20
Hexachlorobutadiene	A	50.00	48.25	0.1868569	0.18032		-3.5	20
Hexachlorocyclopentadiene	A	50.00	48.80	0.374975	0.3660123	0.05	-2.4	20
Hexachloroethane	A	50.00	48.67	0.5464632	0.531918		-2.7	20
Indeno(1,2,3-cd)pyrene	A	50.00	52.17	1.038008	1.083128		4.3	20
Isophorone	A	50.00	45.04	0.7442763	0.6704933		-9.9	20
1-Methylnaphthalene	A	50.00	50.82	0.5872691	0.5968618		1.6	20
2-Methylnaphthalene	A	50.00	51.27	0.5974192	0.6126217		2.5	20
2-Methylphenol	A	50.00	48.87	1.208635	1.181239		-2.3	20
3-Methylphenol/4-Methylphenol	A	50.00	51.23	1.268409	1.29968		2.5	20
4-Nitroaniline	A	50.00	57.37	0.3272887	0.3755414		14.7	20
3-Nitroaniline	A	50.00	53.04	0.3230815	0.3427454		6.1	20
2-Nitroaniline	A	50.00	50.96	0.3700237	0.3771721		1.9	20
Nitrobenzene	A	50.00	45.82	0.4107927	0.3764941		-8.3	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I25508	Injection Date:	09/10/11
Lab Sample ID:	1I25508-CCV1	Injection Time:	21:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	49.04	0.2721678	0.2669252	0.05	-1.9	20
2-Nitrophenol	A	50.00	51.60	0.1941449	0.2003401		3.2	20
N-Nitrosodiphenylamine	A	50.00	55.33	0.6728889	0.7445986		10.7	20
N-Nitroso-di-n-propylamine	A	50.00	45.45	1.033966	0.9398183	0.05	-9.1	20
Pentachlorophenol	A	50.00	44.79	0.1623094	0.1453886		-10.4	20
Phenanthrene	A	50.00	54.86	1.075866	1.180373		9.7	20
Phenol	A	50.00	50.27	1.687698	1.696824		0.5	20
Pyrene	A	50.00	53.44	1.163766	1.243774		6.9	20
2,4,6-Trichlorophenol	A	50.00	48.05	0.382004	0.3670839		-3.9	20
2,4,5-Trichlorophenol	A	50.00	49.23	0.4142645	0.4078819		-1.5	20
2-Fluorobiphenyl	A	50.00	54.90	1.265417	1.389459		9.8	20
2-Fluorophenol	A	100.0	106.2	1.142171	1.21308		6.2	20
Nitrobenzene-d5	A	50.00	46.91	0.4075494	0.3823602		-6.2	20
Phenol-d6	A	100.0	103.9	1.572986	1.633734		3.9	20
Terphenyl-d14	A	50.00	56.72	0.7462196	0.8465471		13.4	20
2,4,6-Tribromophenol	A	100.0	107.7	0.109869	0.1183116		7.7	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_024
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:	1I25812	Injection Date:	09/14/11
Lab Sample ID:	1I25812-CCV1	Injection Time:	13:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	52.92	1.110356	1.175212		5.8	20
Acenaphthylene	A	50.00	54.76	1.725208	1.889414		9.5	20
Acetophenone	A	50.00	49.07	1.801986	1.768315		-1.9	20
Anthracene	A	50.00	52.51	1.092671	1.147578		5.0	20
Atrazine	A	50.00	45.45	0.2344682	0.2131289		-9.1	20
Benzaldehyde	A	50.00	42.13	1.010105	0.8511973		-15.7	20
Benzidine	A	50.00	73.36	0.641297	0.9409639		46.7	20 *
Benzo(a)anthracene	A	50.00	53.04	1.119297	1.187306		6.1	20
Benzo(a)pyrene	A	50.00	54.28	1.045862	1.135445		8.6	20
Benzo(b)fluoranthene	A	50.00	58.41	1.093698	1.277755		16.8	20
Benzo(g,h,i)perylene	A	50.00	48.45	1.033139	1.001166		-3.1	20
Benzoic acid	A	50.00	46.03	0.2679395	0.2466863		-7.9	20
Benzo(k)fluoranthene	A	50.00	54.18	1.107729	1.200257		8.4	20
1,1-Biphenyl	A	50.00	51.51	1.444453	1.488156		3.0	20
4-Bromophenyl-phenylether	A	50.00	45.14	0.2284778	0.2062569		-9.7	20
Butylbenzylphthalate	A	50.00	59.75	0.5129818	0.6130134		19.5	20
Caprolactam	A	50.00	50.72	0.1128421	0.1144652		1.4	20
Carbazole	A	50.00	51.56	1.044381	1.077039		3.1	20
4-Chloro-3-methylphenol	A	50.00	49.42	0.3113523	0.307744		-1.2	20
4-Chloroaniline	A	50.00	52.24	0.4225325	0.4414802		4.5	20
Bis(2-chloroethoxy)methane	A	50.00	46.07	0.4269873	0.3933935		-7.9	20
Bis(2-chloroethyl)ether	A	50.00	48.45	1.297842	1.257659		-3.1	20
2,2'-Oxybis-1-chloropropane	A	50.00	35.68	1.947114	1.389356		-28.6	20 *
2-Chloronaphthalene	A	50.00	59.57	1.087766	1.295888		19.1	20
2-Chlorophenol	A	50.00	51.87	1.315004	1.364212		3.7	20
4-Chlorophenyl phenyl ether	A	50.00	51.59	0.6233489	0.6431847		3.2	20
Chrysene	A	50.00	52.75	1.047865	1.105551		5.5	20
Dibenz(a,h)anthracene	A	50.00	49.30	1.004478	0.990323		-1.4	20
Dibenzofuran	A	50.00	53.69	1.535116	1.648523		7.4	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I25812	Injection Date:	09/14/11
Lab Sample ID:	1I25812-CCV1	Injection Time:	13:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	53.26	1.182012	1.259088		6.5	20
3,3'-Dichlorobenzidine	A	50.00	60.66	0.4067228	0.4934226		21.3	20 *
2,4-Dichlorophenol	A	50.00	52.07	0.3046728	0.3172568		4.1	20
Diethylphthalate	A	50.00	53.51	1.194731	1.278544		7.0	20
2,4-Dimethylphenol	A	50.00	50.08	0.3636609	0.3642252		0.2	20
Dimethyl phthalate	A	50.00	52.51	1.244441	1.306797		5.0	20
4,6-Dinitro-2-methylphenol	A	50.00	53.20	0.1454148	0.1547145		6.4	20
2,4-Dinitrophenol	A	50.00	44.89	0.1854397	0.1665057	0.05	-10.2	20
2,4-Dinitrotoluene	A	50.00	53.55	0.3929838	0.4208485		7.1	20
2,6-Dinitrotoluene	A	50.00	52.47	0.2991862	0.3139666		4.9	20
Di-n-octylphthalate	A	50.00	62.20	1.204345	1.498188		24.4	20 *
1,2-Diphenylhydrazine	A	50.00	44.35	0.8507103	0.7546616		-11.3	20
Bis(2-ethylhexyl)phthalate	A	50.00	60.71	0.6793074	0.8247643		21.4	20 *
Fluoranthene	A	50.00	49.00	1.233837	1.209168		-2.0	20
Fluorene	A	50.00	52.44	1.337519	1.402745		4.9	20
Hexachlorobenzene	A	50.00	42.73	0.244362	0.2088382		-14.5	20
Hexachlorobutadiene	A	50.00	47.50	0.1868569	0.1775319		-5.0	20
Hexachlorocyclopentadiene	A	50.00	47.66	0.374975	0.3574496	0.05	-4.7	20
Hexachloroethane	A	50.00	48.09	0.5464632	0.5255397		-3.8	20
Indeno(1,2,3-cd)pyrene	A	50.00	51.00	1.038008	1.058789		2.0	20
Isophorone	A	50.00	45.67	0.7442763	0.6798634		-8.7	20
1-Methylnaphthalene	A	50.00	51.46	0.5872691	0.6044217		2.9	20
2-Methylnaphthalene	A	50.00	51.39	0.5974192	0.6140817		2.8	20
2-Methylphenol	A	50.00	49.72	1.208635	1.201791		-0.6	20
3-Methylphenol/4-Methylphenol	A	50.00	51.81	1.268409	1.314348		3.6	20
4-Nitroaniline	A	50.00	55.69	0.3272887	0.3645205		11.4	20
3-Nitroaniline	A	50.00	53.61	0.3230815	0.3463764		7.2	20
2-Nitroaniline	A	50.00	45.49	0.3700237	0.3366483		-9.0	20
Nitrobenzene	A	50.00	46.44	0.4107927	0.3815161		-7.1	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I25812	Injection Date:	09/14/11
Lab Sample ID:	1I25812-CCV1	Injection Time:	13:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4-Nitrophenol	A	50.00	44.34	0.2721678	0.2413764	0.05	-11.3	20
2-Nitrophenol	A	50.00	52.98	0.1941449	0.2057002		6.0	20
N-Nitrosodiphenylamine	A	50.00	52.08	0.6728889	0.7008672		4.2	20
N-Nitroso-di-n-propylamine	A	50.00	44.94	1.033966	0.9293977	0.05	-10.1	20
Pentachlorophenol	A	50.00	40.80	0.1623094	0.132452		-18.4	20
Phenanthrene	A	50.00	52.11	1.075866	1.121353		4.2	20
Phenol	A	50.00	50.97	1.687698	1.720518		1.9	20
Pyrene	A	50.00	56.45	1.163766	1.313844		12.9	20
2,4,6-Trichlorophenol	A	50.00	49.79	0.382004	0.3804295		-0.4	20
2,4,5-Trichlorophenol	A	50.00	50.15	0.4142645	0.4154829		0.3	20
2-Fluorobiphenyl	A	50.00	55.31	1.265417	1.399866		10.6	20
2-Fluorophenol	A	100.0	108.4	1.142171	1.238356		8.4	20
Nitrobenzene-d5	A	50.00	46.24	0.4075494	0.3769146		-7.5	20
Phenol-d6	A	100.0	102.9	1.572986	1.618295		2.9	20
Terphenyl-d14	A	50.00	54.60	0.7462196	0.8148641		9.2	20
2,4,6-Tribromophenol	A	100.0	89.24	0.109869	9.804307E-02		-10.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I25914	Injection Date:	09/15/11
Lab Sample ID:	1I25914-CCV1	Injection Time:	16:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	52.23	1.110356	1.159914		4.5	20
Acenaphthylene	A	50.00	54.08	1.725208	1.866111		8.2	20
Acetophenone	A	50.00	48.75	1.801986	1.757057		-2.5	20
Anthracene	A	50.00	52.10	1.092671	1.138578		4.2	20
Benzidine	A	50.00	64.69	0.641297	0.8296638		29.4	20 *
Benzo(a)anthracene	A	50.00	53.71	1.119297	1.202343		7.4	20
Benzo(a)pyrene	A	50.00	53.87	1.045862	1.126908		7.7	20
Benzo(b)fluoranthene	A	50.00	60.22	1.093698	1.317253		20.4	20 *
Benzo(g,h,i)perylene	A	50.00	48.23	1.033139	0.9965152		-3.5	20
Benzoic acid	A	50.00	49.24	0.2679395	0.2638532		-1.5	20
Benzo(k)fluoranthene	A	50.00	53.49	1.107729	1.184974		7.0	20
1,1-Biphenyl	A	50.00	51.02	1.444453	1.473958		2.0	20
4-Bromophenyl-phenylether	A	50.00	45.41	0.2284778	0.2074867		-9.2	20
Butylbenzylphthalate	A	50.00	60.20	0.5129818	0.6176749		20.4	20 *
Caprolactam	A	50.00	49.79	0.1128421	0.1123599		-0.4	20
Carbazole	A	50.00	51.16	1.044381	1.068548		2.3	20
4-Chloro-3-methylphenol	A	50.00	48.83	0.3113523	0.3040896		-2.3	20
4-Chloroaniline	A	50.00	52.53	0.4225325	0.4439479		5.1	20
Bis(2-chloroethoxy)methane	A	50.00	45.93	0.4269873	0.3922185		-8.1	20
Bis(2-chloroethyl)ether	A	50.00	47.59	1.297842	1.23541		-4.8	20
2,2'-Oxybis-1-chloropropane	A	50.00	34.94	1.947114	1.360572		-30.1	20 *
2-Chloronaphthalene	A	50.00	54.35	1.087766	1.182344		8.7	20
2-Chlorophenol	A	50.00	50.91	1.315004	1.338959		1.8	20
4-Chlorophenyl phenyl ether	A	50.00	51.56	0.6233489	0.6427534		3.1	20
Chrysene	A	50.00	53.01	1.047865	1.110891		6.0	20
Dibenz(a,h)anthracene	A	50.00	49.06	1.004478	0.9855794		-1.9	20
Dibenzofuran	A	50.00	53.35	1.535116	1.638085		6.7	20
Di-n-butylphthalate	A	50.00	53.40	1.182012	1.262432		6.8	20
3,3'-Dichlorobenzidine	A	50.00	60.74	0.4067228	0.4940784		21.5	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I25914	Injection Date:	09/15/11
Lab Sample ID:	1I25914-CCV1	Injection Time:	16:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	51.15	0.3046728	0.3116677		2.3	20
Diethylphthalate	A	50.00	53.40	1.194731	1.276031		6.8	20
2,4-Dimethylphenol	A	50.00	49.78	0.3636609	0.362064		-0.4	20
Dimethyl phthalate	A	50.00	51.39	1.244441	1.279063		2.8	20
4,6-Dinitro-2-methylphenol	A	50.00	53.72	0.1454148	0.1562333		7.4	20
2,4-Dinitrophenol	A	50.00	49.54	0.1854397	0.1837447	0.05	-0.9	20
2,4-Dinitrotoluene	A	50.00	52.65	0.3929838	0.4138081		5.3	20
2,6-Dinitrotoluene	A	50.00	51.57	0.2991862	0.3085823		3.1	20
Di-n-octylphthalate	A	50.00	63.00	1.204345	1.517354		26.0	20 *
1,2-Diphenylhydrazine	A	50.00	43.94	0.8507103	0.7476778		-12.1	20
Bis(2-ethylhexyl)phthalate	A	50.00	61.13	0.6793074	0.8305462		22.3	20 *
Fluoranthene	A	50.00	48.60	1.233837	1.199381		-2.8	20
Fluorene	A	50.00	51.72	1.337519	1.383407		3.4	20
Hexachlorobenzene	A	50.00	42.42	0.244362	0.2073228		-15.2	20
Hexachlorobutadiene	A	50.00	47.29	0.1868569	0.1767128		-5.4	20
Hexachlorocyclopentadiene	A	50.00	46.24	0.374975	0.3467752	0.05	-7.5	20
Hexachloroethane	A	50.00	47.71	0.5464632	0.5214843		-4.6	20
Indeno(1,2,3-cd)pyrene	A	50.00	50.98	1.038008	1.058285		2.0	20
Isophorone	A	50.00	45.47	0.7442763	0.6768078		-9.1	20
1-Methylnaphthalene	A	50.00	50.57	0.5872691	0.5939651		1.1	20
2-Methylnaphthalene	A	50.00	50.65	0.5974192	0.6051311		1.3	20
2-Methylphenol	A	50.00	49.95	1.208635	1.207546		-0.09	20
3-Methylphenol/4-Methylphenol	A	50.00	50.62	1.268409	1.2841		1.2	20
4-Nitroaniline	A	50.00	51.95	0.3272887	0.3400814		3.9	20
3-Nitroaniline	A	50.00	52.11	0.3230815	0.336704		4.2	20
2-Nitroaniline	A	50.00	45.00	0.3700237	0.3330188		-10.0	20
Nitrobenzene	A	50.00	45.58	0.4107927	0.3744836		-8.8	20
4-Nitrophenol	A	50.00	43.99	0.2721678	0.2394693	0.05	-12.0	20
2-Nitrophenol	A	50.00	53.24	0.1941449	0.2067176		6.5	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I25914	Injection Date:	09/15/11
Lab Sample ID:	1I25914-CCV1	Injection Time:	16:56

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	51.60	0.6728889	0.6944006		3.2	20
N-Nitroso-di-n-propylamine	A	50.00	44.54	1.033966	0.9210907	0.05	-10.9	20
Pentachlorophenol	A	50.00	45.15	0.1623094	0.1465761		-9.7	20
Phenanthrene	A	50.00	52.19	1.075866	1.122894		4.4	20
Phenol	A	50.00	50.82	1.687698	1.715377		1.6	20
Pyrene	A	50.00	56.49	1.163766	1.314772		13.0	20
2,4,6-Trichlorophenol	A	50.00	50.26	0.382004	0.3839899		0.5	20
2,4,5-Trichlorophenol	A	50.00	49.86	0.4142645	0.4131122		-0.3	20
2-Fluorobiphenyl	A	50.00	54.07	1.265417	1.368508		8.1	20
2-Fluorophenol	A	100.0	108.3	1.142171	1.236521		8.3	20
Nitrobenzene-d5	A	50.00	46.25	0.4075494	0.3769596		-7.5	20
Phenol-d6	A	100.0	101.2	1.572986	1.592594		1.2	20
Terphenyl-d14	A	50.00	55.04	0.7462196	0.821414		10.1	20
2,4,6-Tribromophenol	A	100.0	90.46	0.109869	9.939207E-02		-9.5	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_024
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:	1I25914	Injection Date:	09/15/11
Lab Sample ID:	1I25914-CCV2	Injection Time:	17:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	46.33	0.2344682	0.2172471		-7.3	20
Benzaldehyde	A	50.00	49.39	1.010105	0.9977951		-1.2	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I26217	Injection Date:	09/17/11
Lab Sample ID:	1I26217-CCV1	Injection Time:	21:29

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	52.05	1.110356	1.155985		4.1	20
Acenaphthylene	A	50.00	53.53	1.725208	1.846968		7.1	20
Acetophenone	A	50.00	49.69	1.801986	1.790868		-0.6	20
Anthracene	A	50.00	52.03	1.092671	1.137107		4.1	20
Benzidine	A	50.00	57.42	0.641297	0.7364287		14.8	20
Benzo(a)anthracene	A	50.00	53.99	1.119297	1.208683		8.0	20
Benzo(a)pyrene	A	50.00	53.30	1.045862	1.114912		6.6	20
Benzo(b)fluoranthene	A	50.00	61.73	1.093698	1.350197		23.5	20 *
Benzo(g,h,i)perylene	A	50.00	48.88	1.033139	1.010003		-2.2	20
Benzoic acid	A	50.00	51.00	0.2679395	0.2732881		2.0	20
Benzo(k)fluoranthene	A	50.00	50.48	1.107729	1.118315		1.0	20
1,1-Biphenyl	A	50.00	50.63	1.444453	1.462787		1.3	20
4-Bromophenyl-phenylether	A	50.00	45.46	0.2284778	0.2077341		-9.1	20
Butylbenzylphthalate	A	50.00	59.84	0.5129818	0.6139219		19.7	20
Caprolactam	A	50.00	49.19	0.1128421	0.1110224		-1.6	20
Carbazole	A	50.00	51.11	1.044381	1.067519		2.2	20
4-Chloro-3-methylphenol	A	50.00	50.45	0.3113523	0.3141341		0.9	20
4-Chloroaniline	A	50.00	52.23	0.4225325	0.4413365		4.5	20
Bis(2-chloroethoxy)methane	A	50.00	45.80	0.4269873	0.391095		-8.4	20
Bis(2-chloroethyl)ether	A	50.00	49.15	1.297842	1.275796		-1.7	20
2,2'-Oxybis-1-chloropropane	A	50.00	35.67	1.947114	1.388988		-28.7	20 *
2-Chloronaphthalene	A	50.00	62.32	1.087766	1.355794		24.6	20 *
2-Chlorophenol	A	50.00	51.74	1.315004	1.360663		3.5	20
4-Chlorophenyl phenyl ether	A	50.00	51.66	0.6233489	0.6440555		3.3	20
Chrysene	A	50.00	52.26	1.047865	1.095198		4.5	20
Dibenz(a,h)anthracene	A	50.00	49.21	1.004478	0.9885479		-1.6	20
Dibenzofuran	A	50.00	53.16	1.535116	1.632236		6.3	20
Di-n-butylphthalate	A	50.00	52.70	1.182012	1.245889		5.4	20
3,3'-Dichlorobenzidine	A	50.00	59.53	0.4067228	0.4842113		19.1	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I26217	Injection Date:	09/17/11
Lab Sample ID:	1I26217-CCV1	Injection Time:	21:29

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2,4-Dichlorophenol	A	50.00	52.40	0.3046728	0.3192837		4.8	20
Diethylphthalate	A	50.00	52.70	1.194731	1.259196		5.4	20
2,4-Dimethylphenol	A	50.00	49.74	0.3636609	0.3617412		-0.5	20
Dimethyl phthalate	A	50.00	51.46	1.244441	1.280786		2.9	20
4,6-Dinitro-2-methylphenol	A	50.00	56.01	0.1454148	0.1628876		12.0	20
2,4-Dinitrophenol	A	50.00	52.33	0.1854397	0.1940695	0.05	4.7	20
2,4-Dinitrotoluene	A	50.00	54.04	0.3929838	0.4247332		8.1	20
2,6-Dinitrotoluene	A	50.00	52.67	0.2991862	0.3151442		5.3	20
Di-n-octylphthalate	A	50.00	62.08	1.204345	1.495272		24.2	20 *
1,2-Diphenylhydrazine	A	50.00	44.27	0.8507103	0.7531656		-11.5	20
Bis(2-ethylhexyl)phthalate	A	50.00	60.70	0.6793074	0.8247183		21.4	20 *
Fluoranthene	A	50.00	48.74	1.233837	1.202686		-2.5	20
Fluorene	A	50.00	51.90	1.337519	1.388307		3.8	20
Hexachlorobenzene	A	50.00	43.31	0.244362	0.2116641		-13.4	20
Hexachlorobutadiene	A	50.00	46.84	0.1868569	0.1750468		-6.3	20
Hexachlorocyclopentadiene	A	50.00	46.63	0.374975	0.3497213	0.05	-6.7	20
Hexachloroethane	A	50.00	48.60	0.5464632	0.5311429		-2.8	20
Indeno(1,2,3-cd)pyrene	A	50.00	51.38	1.038008	1.066661		2.8	20
Isophorone	A	50.00	45.40	0.7442763	0.6757485		-9.2	20
1-Methylnaphthalene	A	50.00	50.95	0.5872691	0.5984654		1.9	20
2-Methylnaphthalene	A	50.00	51.34	0.5974192	0.6134108		2.7	20
2-Methylphenol	A	50.00	51.17	1.208635	1.236838		2.3	20
3-Methylphenol/4-Methylphenol	A	50.00	51.38	1.268409	1.303483		2.8	20
4-Nitroaniline	A	50.00	52.03	0.3272887	0.3405959		4.1	20
3-Nitroaniline	A	50.00	52.48	0.3230815	0.3391387		5.0	20
2-Nitroaniline	A	50.00	44.27	0.3700237	0.3275876		-11.5	20
Nitrobenzene	A	50.00	45.70	0.4107927	0.3754402		-8.6	20
4-Nitrophenol	A	50.00	40.26	0.2721678	0.219136	0.05	-19.5	20
2-Nitrophenol	A	50.00	54.28	0.1941449	0.2107718		8.6	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1I26217	Injection Date:	09/17/11
Lab Sample ID:	1I26217-CCV1	Injection Time:	21:29

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
N-Nitrosodiphenylamine	A	50.00	52.30	0.6728889	0.7038673		4.6	20
N-Nitroso-di-n-propylamine	A	50.00	44.99	1.033966	0.9303372	0.05	-10.0	20
Pentachlorophenol	A	50.00	44.98	0.1623094	0.1460108		-10.0	20
Phenanthrene	A	50.00	52.05	1.075866	1.12006		4.1	20
Phenol	A	50.00	54.26	1.687698	1.831524		8.5	20
Pyrene	A	50.00	55.92	1.163766	1.301577		11.8	20
2,4,6-Trichlorophenol	A	50.00	49.40	0.382004	0.3773985		-1.2	20
2,4,5-Trichlorophenol	A	50.00	48.94	0.4142645	0.4055029		-2.1	20
2-Fluorobiphenyl	A	50.00	54.32	1.265417	1.374649		8.6	20
2-Fluorophenol	A	100.0	108.8	1.142171	1.242723		8.8	20
Nitrobenzene-d5	A	50.00	46.63	0.4075494	0.380053		-6.7	20
Phenol-d6	A	100.0	102.7	1.572986	1.614876		2.7	20
Terphenyl-d14	A	50.00	54.57	0.7462196	0.8144959		9.1	20
2,4,6-Tribromophenol	A	100.0	92.53	0.109869	0.1016662		-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_024
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:	1I26217	Injection Date:	09/17/11
Lab Sample ID:	1I26217-CCV2	Injection Time:	22:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Atrazine	A	50.00	45.71	0.2344682	0.2143334		-8.6	20
Benzaldehyde	A	50.00	51.01	1.010105	1.030602		2.0	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_024

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

Matrix: Laboratory ID: 1H12020-BLK1 File ID: H12020B1.D

Sampled: Prepared: Analyzed: 09/15/11 18:58

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H12020 Sequence: 1I25914 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	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	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	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	Q, 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	Y, 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	Q, U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	X, U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	Q, X, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H12020-BLK1 File ID: H12020B1.D

Sampled: Prepared: Analyzed: 09/15/11 18:58

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H12020 Sequence: 1I25914 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	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	Q, 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	Q, 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	21.30	42.6	50 - 110	
2-Fluorophenol	100.0	49.10	49.1	20 - 110	
Nitrobenzene-d5	50.00	24.88	49.8	40 - 110	
Phenol-d6	100.0	30.09	30.1	0 - 110	
Terphenyl-d14	50.00	39.16	78.3	50 - 135	
2,4,6-Tribromophenol	100.0	60.62	60.6	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_024

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

Matrix: | Laboratory ID: 1H12020-BS1 | File ID: H12020L1.D

Sampled: | Prepared: | Analyzed: 09/10/11 23:48

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1H12020 | Sequence: 1I25508 | Calibration: 1122001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	47.81	1.25	2.50	5.00	
208-96-8	Acenaphthylene	44.22	1.25	2.50	5.00	
98-86-2	Acetophenone	37.93	1.25	2.50	5.00	
120-12-7	Anthracene	52.48	1.25	2.50	5.00	
1912-24-9	Atrazine	41.36	1.25	2.50	5.00	
100-52-7	Benzaldehyde	34.59	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene	51.41	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	49.86	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	51.47	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	49.69	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	Y, U
207-08-9	Benzo(k)fluoranthene	53.61	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	40.23	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	51.71	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	60.78	1.25	2.50	5.00	
105-60-2	Caprolactam	6.510	1.25	2.50	5.00	
86-74-8	Carbazole	52.75	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	47.41	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	22.76	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	47.65	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	45.04	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	40.83	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	47.19	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	44.77	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	50.59	1.25	2.50	5.00	
218-01-9	Chrysene	52.29	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	51.09	1.25	2.50	5.00	
132-64-9	Dibenzofuran	50.65	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	57.35	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	40.76	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	44.44	1.25	2.50	5.00	
84-66-2	Diethylphthalate	56.65	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	44.71	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	53.94	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	51.40	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	42.92	12.5	25.0	50.0	X, J
121-14-2	2,4-Dinitrotoluene	53.84	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	51.48	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	63.11	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H12020-BS1 File ID: H12020L1.D

Sampled: Prepared: Analyzed: 09/10/11 23:48

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H12020 Sequence: 1I25508 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	45.49	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	62.62	1.25	2.50	5.00	
206-44-0	Fluoranthene	48.41	1.25	2.50	5.00	
86-73-7	Fluorene	49.11	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	47.38	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	30.68	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	27.60	1.25	2.50	5.00	
67-72-1	Hexachloroethane	25.54	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	53.47	1.25	2.50	5.00	
78-59-1	Isophorone	41.84	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	40.12	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	39.75	1.25	2.50	5.00	
95-48-7	2-Methylphenol	41.65	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	40.71	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	54.16	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	49.24	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	50.36	5.00	10.0	20.0	
98-95-3	Nitrobenzene	40.33	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	21.38	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	45.42	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	42.26	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	44.59	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	41.67	5.00	10.0	20.0	
85-01-8	Phenanthrene	52.94	1.25	2.50	5.00	
108-95-2	Phenol	22.31	1.25	2.50	5.00	
129-00-0	Pyrene	51.20	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	46.05	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	46.46	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	34.14	68.3	50 - 110	
2-Fluorophenol	100.0	61.07	61.1	20 - 110	
Nitrobenzene-d5	50.00	33.97	67.9	40 - 110	
Phenol-d6	100.0	37.74	37.7	0 - 110	
Terphenyl-d14	50.00	48.96	97.9	50 - 135	
2,4,6-Tribromophenol	100.0	85.51	85.5	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H12020-BSD1 File ID: H12020L2.D

Sampled: Prepared: Analyzed: 09/14/11 16:45

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H12020 Sequence: 1I25812 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	48.04	1.25	2.50	5.00	
208-96-8	Acenaphthylene	44.45	1.25	2.50	5.00	
98-86-2	Acetophenone	41.03	1.25	2.50	5.00	
120-12-7	Anthracene	52.09	1.25	2.50	5.00	
1912-24-9	Atrazine	40.72	1.25	2.50	5.00	
100-52-7	Benzaldehyde	40.73	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene	53.16	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	53.23	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	56.49	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	48.86	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	55.82	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	42.68	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	48.42	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	66.97	1.25	2.50	5.00	
105-60-2	Caprolactam	8.568	1.25	2.50	5.00	
86-74-8	Carbazole	52.83	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	45.91	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	49.37	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	48.96	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	48.10	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	33.46	1.25	2.50	5.00	Y
91-58-7	2-Chloronaphthalene	47.01	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	42.88	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	52.35	1.25	2.50	5.00	
218-01-9	Chrysene	53.79	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	50.33	1.25	2.50	5.00	
132-64-9	Dibenzofuran	52.78	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	57.43	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	46.71	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	49.47	1.25	2.50	5.00	
84-66-2	Diethylphthalate	57.96	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	43.39	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	57.31	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	54.11	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	37.57	12.5	25.0	50.0	J
121-14-2	2,4-Dinitrotoluene	55.48	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	53.72	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	70.46	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H12020-BSD1 File ID: H12020L2.D

Sampled: Prepared: Analyzed: 09/14/11 16:45

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H12020 Sequence: 1I25812 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	45.38	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	66.52	1.25	2.50	5.00	X
206-44-0	Fluoranthene	49.65	1.25	2.50	5.00	
86-73-7	Fluorene	50.01	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	43.69	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	28.65	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	21.99	1.25	2.50	5.00	
67-72-1	Hexachloroethane	24.70	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	49.74	1.25	2.50	5.00	
78-59-1	Isophorone	44.64	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	40.92	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	40.66	1.25	2.50	5.00	
95-48-7	2-Methylphenol	37.51	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	33.24	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	55.77	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	52.30	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	46.57	5.00	10.0	20.0	
98-95-3	Nitrobenzene	43.27	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	11.24	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	49.57	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	43.84	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	46.95	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	37.81	5.00	10.0	20.0	
85-01-8	Phenanthrene	53.43	1.25	2.50	5.00	
108-95-2	Phenol	13.67	1.25	2.50	5.00	
129-00-0	Pyrene	56.91	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	49.29	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	48.64	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	37.35	74.7	50 - 110	
2-Fluorophenol	100.0	43.78	43.8	20 - 110	
Nitrobenzene-d5	50.00	36.13	72.3	40 - 110	
Phenol-d6	100.0	22.98	23.0	0 - 110	
Terphenyl-d14	50.00	50.28	101	50 - 135	
2,4,6-Tribromophenol	100.0	76.15	76.2	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H16013-BLK1 File ID: H16013B1.D

Sampled: Prepared: Analyzed: 09/06/11 19:19

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H16013 Sequence: 1I25004 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	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	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	Q, 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	Q, X, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H16013-BLK1 File ID: H16013B1.D

Sampled: Prepared: Analyzed: 09/06/11 19:19

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H16013 Sequence: 1I25004 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	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	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	24.33	48.7	50 - 110	
2-Fluorophenol	100.0	30.79	30.8	20 - 110	
Nitrobenzene-d5	50.00	35.82	71.6	40 - 110	
Phenol-d6	100.0	16.79	16.8	0 - 110	
Terphenyl-d14	50.00	52.66	105	50 - 135	
2,4,6-Tribromophenol	100.0	73.08	73.1	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_024

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

Matrix: | Laboratory ID: 1H16013-BS1 | File ID: H16013L1.D

Sampled: | Prepared: | Analyzed: 09/06/11 19:59

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1H16013 | Sequence: 1I25004 | Calibration: 1122001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	43.58	1.25	2.50	5.00	
208-96-8	Acenaphthylene	38.40	1.25	2.50	5.00	
98-86-2	Acetophenone	42.67	1.25	2.50	5.00	
120-12-7	Anthracene	44.40	1.25	2.50	5.00	
1912-24-9	Atrazine	42.21	1.25	2.50	5.00	
100-52-7	Benzaldehyde	40.12	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene	50.74	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	49.38	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	52.07	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	47.77	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	52.53	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	45.66	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	45.24	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	65.96	1.25	2.50	5.00	X
105-60-2	Caprolactam	8.041	1.25	2.50	5.00	
86-74-8	Carbazole	45.50	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	24.94	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	32.67	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	41.47	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	39.75	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	45.00	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	42.93	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	19.35	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	46.98	1.25	2.50	5.00	
218-01-9	Chrysene	49.25	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	50.25	1.25	2.50	5.00	
132-64-9	Dibenzofuran	47.35	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	53.92	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	44.19	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	21.96	1.25	2.50	5.00	
84-66-2	Diethylphthalate	54.77	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	23.52	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	48.65	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	27.45	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	16.19	12.5	25.0	50.0	X, J
121-14-2	2,4-Dinitrotoluene	50.75	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	47.57	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	68.32	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1H16013-BS1
File ID: H16013L1.D
Sampled:
Prepared:
Analyzed: 09/06/11 19:59
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1H16013
Sequence: 1I25004
Calibration: 1122001
Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	43.75	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	65.68	1.25	2.50	5.00	X
206-44-0	Fluoranthene	43.04	1.25	2.50	5.00	
86-73-7	Fluorene	45.13	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	43.40	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	21.99	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	19.77	1.25	2.50	5.00	
67-72-1	Hexachloroethane	19.20	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	51.81	1.25	2.50	5.00	
78-59-1	Isophorone	38.22	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	35.98	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	36.57	1.25	2.50	5.00	
95-48-7	2-Methylphenol	17.79	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	17.65	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	43.61	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	38.95	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	44.85	5.00	10.0	20.0	
98-95-3	Nitrobenzene	40.19	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	9.167	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	24.08	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	38.80	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	43.18	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	29.47	5.00	10.0	20.0	
85-01-8	Phenanthrene	46.84	1.25	2.50	5.00	
108-95-2	Phenol	8.506	1.25	2.50	5.00	
129-00-0	Pyrene	51.58	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	25.49	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	25.26	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	28.12	56.2	50 - 110	
2-Fluorophenol	100.0	24.56	24.6	20 - 110	
Nitrobenzene-d5	50.00	34.20	68.4	40 - 110	
Phenol-d6	100.0	16.08	16.1	0 - 110	
Terphenyl-d14	50.00	49.52	99.0	50 - 135	
2,4,6-Tribromophenol	100.0	51.81	51.8	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H16013-BSD1 File ID: H16013L2.D

Sampled: Prepared: Analyzed: 09/06/11 20:40

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H16013 Sequence: 1I25004 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	41.19	1.25	2.50	5.00	
208-96-8	Acenaphthylene	34.99	1.25	2.50	5.00	
98-86-2	Acetophenone	39.69	1.25	2.50	5.00	
120-12-7	Anthracene	43.64	1.25	2.50	5.00	
1912-24-9	Atrazine	39.69	1.25	2.50	5.00	
100-52-7	Benzaldehyde	36.70	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene	48.09	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	46.46	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	52.38	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	46.02	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	48.91	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	43.38	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	43.61	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	63.02	1.25	2.50	5.00	X
105-60-2	Caprolactam	7.812	1.25	2.50	5.00	
86-74-8	Carbazole	44.29	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	21.16	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	26.99	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	38.27	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	36.16	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	42.07	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	40.56	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	18.22	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	43.74	1.25	2.50	5.00	
218-01-9	Chrysene	47.04	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	47.44	1.25	2.50	5.00	
132-64-9	Dibenzofuran	43.57	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	51.87	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	38.20	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	18.78	1.25	2.50	5.00	
84-66-2	Diethylphthalate	48.83	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	20.77	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	43.21	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	25.11	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	16.39	12.5	25.0	50.0	X, J
121-14-2	2,4-Dinitrotoluene	46.36	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	43.91	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	68.18	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H16013-BSD1 File ID: H16013L2.D

Sampled: Prepared: Analyzed: 09/06/11 20:40

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H16013 Sequence: 1I25004 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	42.88	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	62.90	1.25	2.50	5.00	X
206-44-0	Fluoranthene	41.55	1.25	2.50	5.00	
86-73-7	Fluorene	42.53	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	41.98	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	18.98	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	18.51	1.25	2.50	5.00	
67-72-1	Hexachloroethane	16.58	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	50.27	1.25	2.50	5.00	
78-59-1	Isophorone	35.29	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	33.33	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	32.93	1.25	2.50	5.00	
95-48-7	2-Methylphenol	17.94	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	16.38	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	39.24	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	33.98	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	40.66	5.00	10.0	20.0	
98-95-3	Nitrobenzene	37.37	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	9.393	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	21.30	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	37.36	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	27.57	5.00	10.0	20.0	
85-01-8	Phenanthrene	45.51	1.25	2.50	5.00	
108-95-2	Phenol	8.740	1.25	2.50	5.00	
129-00-0	Pyrene	49.26	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	20.47	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	20.08	1.25	2.50	5.00	

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	22.83	22.8	20 - 110	
Nitrobenzene-d5	50.00	29.14	58.3	40 - 110	
Phenol-d6	100.0	15.28	15.3	0 - 110	
Terphenyl-d14	50.00	48.29	96.6	50 - 135	
2,4,6-Tribromophenol	100.0	43.46	43.5	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H17011-BLK1 File ID: H17011B1.D

Sampled: Prepared: Analyzed: 09/07/11 02:45

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H17011 Sequence: 1I25004 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	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	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	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	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	Q, X, U

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_024	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1H17011-BLK1	File ID:	H17011B1.D
Sampled:		Prepared:		Analyzed:	09/07/11 02:45
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1H17011 Sequence: 1I25004 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	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	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	28.40	56.8	50 - 110	
2-Fluorophenol	100.0	49.13	49.1	20 - 110	
Nitrobenzene-d5	50.00	33.91	67.8	40 - 110	
Phenol-d6	100.0	31.90	31.9	0 - 110	
Terphenyl-d14	50.00	43.07	86.1	50 - 135	
2,4,6-Tribromophenol	100.0	80.82	80.8	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_024

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

Matrix: | Laboratory ID: 1H17011-BS1 | File ID: H17011L1.D

Sampled: | Prepared: | Analyzed: 09/07/11 03:26

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1H17011 | Sequence: 1I25004 | Calibration: 1122001 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	46.01	1.25	2.50	5.00	
208-96-8	Acenaphthylene	42.41	1.25	2.50	5.00	
98-86-2	Acetophenone	42.31	1.25	2.50	5.00	
120-12-7	Anthracene	48.16	1.25	2.50	5.00	
1912-24-9	Atrazine	38.12	1.25	2.50	5.00	
100-52-7	Benzaldehyde	41.34	1.25	2.50	5.00	
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene	52.55	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	50.52	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	53.84	1.25	2.50	5.00	X
191-24-2	Benzo(g,h,i)perylene	48.80	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	53.32	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	40.91	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	47.64	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	68.28	1.25	2.50	5.00	X
105-60-2	Caprolactam	5.622	1.25	2.50	5.00	
86-74-8	Carbazole	49.19	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	40.51	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	41.30	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	49.30	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	47.78	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	52.34	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	46.13	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	34.86	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	47.69	1.25	2.50	5.00	
218-01-9	Chrysene	51.20	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	50.26	1.25	2.50	5.00	
132-64-9	Dibenzofuran	48.80	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	56.62	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	43.40	1.25	2.50	5.00	X
120-83-2	2,4-Dichlorophenol	39.12	1.25	2.50	5.00	
84-66-2	Diethylphthalate	57.55	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	40.35	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	54.68	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	49.38	5.00	10.0	20.0	
51-28-5	2,4-Dinitrophenol	35.68	12.5	25.0	50.0	X, J
121-14-2	2,4-Dinitrotoluene	54.18	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	51.96	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	69.21	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Matrix: Laboratory ID: 1H17011-BS1 File ID: H17011L1.D

Sampled: Prepared: Analyzed: 09/07/11 03:26

Solids: Preparation: EXT_3510 Dilution:

Batch: 1H17011 Sequence: 1I25004 Calibration: 1122001 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	46.78	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	67.74	1.25	2.50	5.00	X
206-44-0	Fluoranthene	45.10	1.25	2.50	5.00	
86-73-7	Fluorene	47.79	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	46.90	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	26.28	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	19.30	1.25	2.50	5.00	
67-72-1	Hexachloroethane	25.31	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	54.50	1.25	2.50	5.00	
78-59-1	Isophorone	43.95	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	41.83	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	41.93	1.25	2.50	5.00	
95-48-7	2-Methylphenol	31.20	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	27.19	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	49.76	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	44.08	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	51.86	5.00	10.0	20.0	
98-95-3	Nitrobenzene	45.94	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	11.29	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	43.55	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	50.82	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	42.63	5.00	10.0	20.0	
85-01-8	Phenanthrene	49.16	1.25	2.50	5.00	
108-95-2	Phenol	12.09	1.25	2.50	5.00	
129-00-0	Pyrene	53.54	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	44.38	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	42.85	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	32.49	65.0	50 - 110	
2-Fluorophenol	100.0	35.56	35.6	20 - 110	
Nitrobenzene-d5	50.00	38.00	76.0	40 - 110	
Phenol-d6	100.0	21.50	21.5	0 - 110	
Terphenyl-d14	50.00	44.51	89.0	50 - 135	
2,4,6-Tribromophenol	100.0	80.93	80.9	40 - 125	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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
GW0173-R	08/15/11 11:53	08/16/11 08:30	08/17/11 10:15	1.89	7.00	09/07/11 01:23	20.63	40.00	
GW0198	08/15/11 14:03	08/16/11 08:30	08/17/11 10:15	1.80	7.00	09/07/11 02:04	20.66	40.00	
GW0197	08/16/11 10:22	08/17/11 09:41	08/19/11 11:00	2.98	7.00	09/07/11 21:05	19.42	40.00	
GW0197	08/16/11 10:22	08/17/11 09:41	08/19/11 11:00	2.98	7.00	09/08/11 22:13	20.47	40.00	
GW0215	08/17/11 11:28	08/18/11 08:30	08/19/11 11:00	1.94	7.00	09/08/11 15:30	20.19	40.00	
GW0230	08/16/11 15:13	08/18/11 08:30	08/19/11 11:00	2.78	7.00	09/08/11 16:10	20.22	40.00	
GW0231	08/16/11 15:13	08/18/11 08:30	08/19/11 11:00	2.78	7.00	09/08/11 16:51	20.24	40.00	
GW0195	08/17/11 16:09	08/19/11 08:30	08/19/11 13:15	1.84	7.00	09/16/11 03:23	27.59	40.00	
GW0195	08/17/11 16:09	08/19/11 08:30	08/19/11 13:15	1.84	7.00	09/17/11 23:48	29.44	40.00	
GW0232	08/17/11 14:49	08/19/11 08:30	08/19/11 13:15	1.89	7.00	09/16/11 04:02	27.62	40.00	

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024
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
GW0173-R	1108174-01	014F1401.D	08/23/11 17:49
GW0198	1108174-03	015F1501.D	08/23/11 18:29
Calibration Check	1H24112-CCV2	016F1601.D	08/23/11 19:08
GW0197	1108181-01	017F1701.D	08/23/11 19:47
GW0215	1108205-01	018F1801.D	08/23/11 20:27
GW0230	1108205-03	019F1901.D	08/23/11 21:07
GW0231	1108205-05	020F2001.D	08/23/11 21:46
GW0195	1108210-01	021F2101.D	08/23/11 22:26
GW0232	1108210-03	022F2201.D	08/23/11 23:06
GW0232	1H22928-MS1	023F2301.D	08/23/11 23:46
GW0232	1H22928-MSD1	024F2401.D	08/24/11 00:26
Calibration Check	1H24112-CCV3	029F2901.D	08/24/11 03:45

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24207	Instrument:	GL-GCVOA2
Calibration:	1233001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H24207-CCV1	003F0301.D	08/25/11 07:58
LCS	1H24011-BS1	004F0401.D	08/25/11 08:38
Blank	1H24011-BLK1	005F0501.D	08/25/11 09:17
Calibration Check	1H24207-CCV2	016F1601.D	08/25/11 16:53
GW0197	1108181-01RE1	023F2301.D	08/25/11 21:40
GW0195	1108210-01RE1	024F2401.D	08/25/11 22:20
Calibration Check	1H24207-CCV3	025F2501.D	08/25/11 23:02

ANALYSIS DATA SHEET

GW0173-R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-01	File ID:	014F1401.D
Sampled:	08/15/11 11:53	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 17:49
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	0.05497	110	50 - 150	

ANALYSIS DATA SHEET

GW0198

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-03	File ID:	015F1501.D
Sampled:	08/15/11 14:03	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 18:29
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	0.05357	107	50 - 150	

ANALYSIS DATA SHEET

GW0197

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-01	File ID:	017F1701.D
Sampled:	08/16/11 10:22	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 19:47
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)	6.18	0.0500	0.100	0.150	E

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.07041	141	50 - 150	

ANALYSIS DATA SHEET

GW0197

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-01RE1	File ID:	023F2301.D
Sampled:	08/16/11 10:22	Prepared:	08/22/11 13:44	Analyzed:	08/25/11 21:40
Solids:		Preparation:	8015GRO	Dilution:	5

Batch: 1H24011 Sequence: 1H24207 Calibration: 1233001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	6.76	0.250	0.500	0.750	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05996	120	50 - 150	

ANALYSIS DATA SHEET

GW0215

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-01	File ID:	018F1801.D
Sampled:	08/17/11 11:28	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 20:27
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	0.05371	107	50 - 150	

ANALYSIS DATA SHEET

GW0230

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-03	File ID:	019F1901.D
Sampled:	08/16/11 15:13	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 21:07
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)	0.278	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05814	116	50 - 150	

ANALYSIS DATA SHEET

GW0231

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-05	File ID:	020F2001.D
Sampled:	08/16/11 15:13	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 21:46
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)	0.293	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05592	112	50 - 150	

ANALYSIS DATA SHEET

GW0195

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-01	File ID:	021F2101.D
Sampled:	08/17/11 16:09	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 22:26
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)	9.03	0.0500	0.100	0.150	E

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06228	125	50 - 150	

ANALYSIS DATA SHEET

GW0195

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-01RE1	File ID:	024F2401.D
Sampled:	08/17/11 16:09	Prepared:	08/22/11 13:44	Analyzed:	08/25/11 22:20
Solids:		Preparation:	8015GRO	Dilution:	10

Batch: 1H24011 Sequence: 1H24207 Calibration: 1233001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	11.3	0.500	1.00	1.50	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05915	118	50 - 150	

ANALYSIS DATA SHEET

GW0232

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-03	File ID:	022F2201.D
Sampled:	08/17/11 14:49	Prepared:	08/22/11 13:44	Analyzed:	08/23/11 23:06
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	0.05328	107	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H24011	Laboratory ID:	1H24011-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	0.6545	131	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0232

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_024

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H22928

% Solids:

Source Sample Name: **1108210-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	ND	0.6235	125		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	0.6190	124	0.719		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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.
GW0173-R	1108174-01	08/22/11 13:44	5.00	5.00
GW0198	1108174-03	08/22/11 13:44	5.00	5.00
GW0197	1108181-01	08/22/11 13:44	5.00	5.00
GW0215	1108205-01	08/22/11 13:44	5.00	5.00
GW0230	1108205-03	08/22/11 13:44	5.00	5.00
GW0231	1108205-05	08/22/11 13:44	5.00	5.00
GW0195	1108210-01	08/22/11 13:44	5.00	5.00
GW0232	1108210-03	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
GW0232	1H22928-MS1	08/22/11 13:44	5.00	5.00
GW0232	1H22928-MSD1	08/22/11 13:44	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H24011 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0197	1108181-01RE1	08/22/11 13:44	5.00	5.00
GW0195	1108210-01RE1	08/22/11 13:44	5.00	5.00
Blank	1H24011-BLK1	08/24/11 13:28	5.00	5.00
LCS	1H24011-BS1	08/24/11 13:28	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024	
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_024	
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_024
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_024
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_024
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

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1233001
Lab File ID:	029F2901.D	Calibration Date:	08/16/11 13:16
Sequence:	1H24112	Injection Date:	08/24/11
Lab Sample ID:	1H24112-CCV3	Injection Time:	03:45

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5387	1431085	1541934		7.7	20
Bromofluorobenzene	A	0.05000	0.05613	1249062	1402280		12.3	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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1H24207	Injection Date:	08/25/11
Lab Sample ID:	1H24207-CCV1	Injection Time:	07:58

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5787	1431085	1656388		15.7	20
Bromofluorobenzene	A	0.05000	0.05700	1249062	1423820		14.0	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_024
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:	1H24207	Injection Date:	08/25/11
Lab Sample ID:	1H24207-CCV2	Injection Time:	16:53

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5781	1431085	1654748		15.6	20
Bromofluorobenzene	A	0.05000	0.05774	1249062	1442360		15.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1H24207	Injection Date:	08/25/11
Lab Sample ID:	1H24207-CCV3	Injection Time:	23:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5562	1431085	1591908		11.2	20
Bromofluorobenzene	A	0.05000	0.05608	1249062	1401040		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_024
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	
GW0173-R (1108174-01) mg/L				Lab File ID: 014F1401.D		Analyzed: 08/23/11 17:49		
Bromofluorobenzene	0.05000	110	50 - 150	20.246	20.25	-0.0040	+/-0.210	
GW0198 (1108174-03) mg/L				Lab File ID: 015F1501.D		Analyzed: 08/23/11 18:29		
Bromofluorobenzene	0.05000	107	50 - 150	20.25	20.25	0.0000	+/-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	
GW0197 (1108181-01) mg/L				Lab File ID: 017F1701.D		Analyzed: 08/23/11 19:47		
Bromofluorobenzene	0.05000	141	50 - 150	20.253	20.25	0.0030	+/-0.210	
GW0215 (1108205-01) mg/L				Lab File ID: 018F1801.D		Analyzed: 08/23/11 20:27		
Bromofluorobenzene	0.05000	107	50 - 150	20.253	20.25	0.0030	+/-0.210	
GW0230 (1108205-03) mg/L				Lab File ID: 019F1901.D		Analyzed: 08/23/11 21:07		
Bromofluorobenzene	0.05000	116	50 - 150	20.256	20.25	0.0060	+/-0.210	
GW0231 (1108205-05) mg/L				Lab File ID: 020F2001.D		Analyzed: 08/23/11 21:46		
Bromofluorobenzene	0.05000	112	50 - 150	20.256	20.25	0.0060	+/-0.210	
GW0195 (1108210-01) mg/L				Lab File ID: 021F2101.D		Analyzed: 08/23/11 22:26		
Bromofluorobenzene	0.05000	125	50 - 150	20.253	20.25	0.0030	+/-0.210	
GW0232 (1108210-03) mg/L				Lab File ID: 022F2201.D		Analyzed: 08/23/11 23:06		
Bromofluorobenzene	0.05000	107	50 - 150	20.25	20.25	0.0000	+/-0.210	
Matrix Spike (1H22928-MS1) mg/L				Lab File ID: 023F2301.D		Analyzed: 08/23/11 23:46		
Bromofluorobenzene	0.05000	113	50 - 150	20.25	20.25	0.0000	+/-0.210	
Matrix Spike Dup (1H22928-MSD1) mg/L				Lab File ID: 024F2401.D		Analyzed: 08/24/11 00:26		
Bromofluorobenzene	0.05000	109	50 - 150	20.25	20.25	0.0000	+/-0.210	
Calibration Check (1H24112-CCV3) ug/mL				Lab File ID: 029F2901.D		Analyzed: 08/24/11 03:45		
Bromofluorobenzene	0.05000	112	80 - 120	20.25	20.25	0.0000	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24207	Instrument:	GL-GCVOA2
		Calibration:	1233001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1H24207-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 08/25/11 07:58		
Bromofluorobenzene	0.05000	114	80 - 120	20.253	20.253	0.0000	+/-0.210	
LCS (1H24011-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 08/25/11 08:38		
Bromofluorobenzene	0.05000	115	50 - 150	20.256	20.253	0.0030	+/-0.210	
Blank (1H24011-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 08/25/11 09:17		
Bromofluorobenzene	0.05000	106	50 - 150	20.256	20.253	0.0030	+/-0.210	
Calibration Check (1H24207-CCV2) ug/mL				Lab File ID: 016F1601.D		Analyzed: 08/25/11 16:53		
Bromofluorobenzene	0.05000	115	80 - 120	20.236	20.253	-0.0170	+/-0.210	
GW0197 (1108181-01RE1) mg/L				Lab File ID: 023F2301.D		Analyzed: 08/25/11 21:40		
Bromofluorobenzene	0.05000	120	50 - 150	20.253	20.253	0.0000	+/-0.210	
GW0195 (1108210-01RE1) mg/L				Lab File ID: 024F2401.D		Analyzed: 08/25/11 22:20		
Bromofluorobenzene	0.05000	118	50 - 150	20.25	20.253	-0.0030	+/-0.210	
Calibration Check (1H24207-CCV3) ug/mL				Lab File ID: 025F2501.D		Analyzed: 08/25/11 23:02		
Bromofluorobenzene	0.05000	112	80 - 120	20.246	20.253	-0.0070	+/-0.210	

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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
GW0173-R	08/15/11 11:53	08/16/11 08:30	08/22/11 13:44	N/A	14.00	08/23/11 17:49	8.21	14.00	
GW0198	08/15/11 14:03	08/16/11 08:30	08/22/11 13:44	N/A	14.00	08/23/11 18:29	8.14	14.00	
GW0197	08/16/11 10:22	08/17/11 09:41	08/22/11 13:44	N/A	14.00	08/23/11 19:47	7.35	14.00	
GW0197	08/16/11 10:22	08/17/11 09:41	08/22/11 13:44	N/A	14.00	08/25/11 21:40	9.43	14.00	
GW0215	08/17/11 11:28	08/18/11 08:30	08/22/11 13:44	N/A	14.00	08/23/11 20:27	6.33	14.00	
GW0230	08/16/11 15:13	08/18/11 08:30	08/22/11 13:44	N/A	14.00	08/23/11 21:07	7.20	14.00	
GW0231	08/16/11 15:13	08/18/11 08:30	08/22/11 13:44	N/A	14.00	08/23/11 21:46	7.23	14.00	
GW0195	08/17/11 16:09	08/19/11 08:30	08/22/11 13:44	N/A	14.00	08/23/11 22:26	6.22	14.00	
GW0195	08/17/11 16:09	08/19/11 08:30	08/22/11 13:44	N/A	14.00	08/25/11 22:20	8.22	14.00	
GW0232	08/17/11 14:49	08/19/11 08:30	08/22/11 13:44	N/A	14.00	08/23/11 23:06	6.30	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
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_024
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	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1H22928-MS1
File ID: 023F2301.D
Sampled:
Prepared:
Analyzed: 08/23/11 23:46
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)	0.6235	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05628	113	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1H22928-MSD1	File ID:	024F2401.D
Sampled:		Prepared:		Analyzed:	08/24/11 00:26
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)	0.6190	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05472	109	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1H24011-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	08/25/11 09:17
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1H24011 Sequence: 1H24207 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	0.05323	106	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1H24011-BS1	File ID:	004F0401.D
Sampled:		Prepared:		Analyzed:	08/25/11 08:38
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1H24011 Sequence: 1H24207 Calibration: 1233001 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.6545	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05745	115	50 - 150	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
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_024
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_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25107	Instrument:	GL-GCFID2
Calibration:	1243001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I25107-CCV1	050F5001.D	09/04/11 17:18
Calibration Check	1I25107-CCV2	055F5501.D	09/04/11 20:04
Blank	1H19005-BLK1	056F5601.D	09/04/11 20:37
LCS	1H19005-BS1	057F5701.D	09/04/11 21:10
LCS Dup	1H19005-BSD1	058F5801.D	09/04/11 21:43
GW0173-R	1108174-01	062F6201.D	09/04/11 23:57
GW0198	1108174-03	063F6301.D	09/05/11 00:30
GW0197	1108181-01RE1	065F6501.D	09/05/11 01:37
GW0215	1108205-01	066F6601.D	09/05/11 02:11
GW0230	1108205-03	067F6701.D	09/05/11 02:44
GW0231	1108205-05	068F6801.D	09/05/11 03:17
GW0232	1108210-03	070F7001.D	09/05/11 04:24
Calibration Check	1I25107-CCV3	071F7101.D	09/05/11 04:57

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25604	Instrument:	GL-GCFID2
Calibration:	1243001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I25604-CCV1	003F0301.D	09/07/11 16:46
GW0195	1108210-01RE1	008F0801.D	09/07/11 19:33
Calibration Check	1I25604-CCV2	014F1401.D	09/07/11 22:52

ANALYSIS DATA SHEET

GW0173-R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-01	File ID:	062F6201.D
Sampled:	08/15/11 11:53	Prepared:	08/22/11 10:00	Analyzed:	09/04/11 23:57
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H19005 Sequence: 1I25107 Calibration: 1243001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01167	59.5	30 - 140	Y

ANALYSIS DATA SHEET

GW0198

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-03	File ID:	063F6301.D
Sampled:	08/15/11 14:03	Prepared:	08/22/11 10:00	Analyzed:	09/05/11 00:30
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H19005 Sequence: 1I25107 Calibration: 1243001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01147	58.5	30 - 140	Y

ANALYSIS DATA SHEET

GW0197

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-01RE1	File ID:	065F6501.D
Sampled:	08/16/11 10:22	Prepared:	08/22/11 10:00	Analyzed:	09/05/11 01:37
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1H19005 Sequence: 1I25107 Calibration: 1243001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	8.72	0.980	0.980	0.980	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01036	52.8	30 - 140	Y

ANALYSIS DATA SHEET

GW0215

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-01	File ID:	066F6601.D
Sampled:	08/17/11 11:28	Prepared:	08/22/11 10:00	Analyzed:	09/05/11 02:11
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H19005 Sequence: 1I25107 Calibration: 1243001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0971	0.0971	0.0971	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01942	0.01022	52.6	30 - 140	Y

ANALYSIS DATA SHEET

GW0230

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-03	File ID:	067F6701.D
Sampled:	08/16/11 15:13	Prepared:	08/22/11 10:00	Analyzed:	09/05/11 02:44
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H19005 Sequence: 1I25107 Calibration: 1243001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.624	0.0971	0.0971	0.0971	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01942	0.01081	55.7	30 - 140	Y

ANALYSIS DATA SHEET

GW0231

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-05	File ID:	068F6801.D
Sampled:	08/16/11 15:13	Prepared:	08/22/11 10:00	Analyzed:	09/05/11 03:17
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H19005 Sequence: 1I25107 Calibration: 1243001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.627	0.0971	0.0971	0.0971	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01942	0.01185	61.0	30 - 140	Y

ANALYSIS DATA SHEET

GW0195

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-01RE1	File ID:	008F0801.D
Sampled:	08/17/11 16:09	Prepared:	08/22/11 10:00	Analyzed:	09/07/11 19:33
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1H19005 Sequence: 1I25604 Calibration: 1243001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	9.34	0.980	0.980	0.980	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01250	63.7	30 - 140	Y

ANALYSIS DATA SHEET

GW0232

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-03	File ID:	070F7001.D
Sampled:	08/17/11 14:49	Prepared:	08/22/11 10:00	Analyzed:	09/05/11 04:24
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1H19005 Sequence: 1I25107 Calibration: 1243001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01179	60.1	30 - 140	Y

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H19005	Laboratory ID:	1H19005-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	0.6056	60.6	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	0.6688	66.9	9.92	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H19005 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0173-R	1108174-01	08/22/11 10:00	1,020.00	1.00
GW0198	1108174-03	08/22/11 10:00	1,020.00	1.00
GW0197	1108181-01RE1	08/22/11 10:00	1,020.00	1.00
GW0215	1108205-01	08/22/11 10:00	1,030.00	1.00
GW0230	1108205-03	08/22/11 10:00	1,030.00	1.00
GW0231	1108205-05	08/22/11 10:00	1,030.00	1.00
GW0195	1108210-01RE1	08/22/11 10:00	1,020.00	1.00
GW0232	1108210-03	08/22/11 10:00	1,020.00	1.00
Blank	1H19005-BLK1	08/21/11 10:00	1,000.00	1.00
LCS	1H19005-BS1	08/21/11 10:00	1,000.00	1.00
LCS Dup	1H19005-BSD1	08/21/11 10:00	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024	
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_024	
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_024
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_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1243001
Lab File ID:	050F5001.D	Calibration Date:	08/29/11 22:44
Sequence:	1I25107	Injection Date:	09/04/11
Lab Sample ID:	1I25107-CCV1	Injection Time:	17:18

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	909.0	2283.651	2075.91		-9.1	20
o-Terphenyl	A	50.00	35.92	3467.799	2491.06		-28.2	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_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1243001
Lab File ID:	055F5501.D	Calibration Date:	08/29/11 22:44
Sequence:	1I25107	Injection Date:	09/04/11
Lab Sample ID:	1I25107-CCV2	Injection Time:	20:04

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1030	2283.651	2353.261		3.0	20
o-Terphenyl	A	50.00	40.23	3467.799	2790.28		-19.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1243001
Lab File ID:	071F7101.D	Calibration Date:	08/29/11 22:44
Sequence:	1I25107	Injection Date:	09/05/11
Lab Sample ID:	1I25107-CCV3	Injection Time:	04:57

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	947.7	2283.651	2164.203		-5.2	20
o-Terphenyl	A	50.00	37.33	3467.799	2589.22		-25.3	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_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1243001
Lab File ID:	003F0301.D	Calibration Date:	08/29/11 22:44
Sequence:	1I25604	Injection Date:	09/07/11
Lab Sample ID:	1I25604-CCV1	Injection Time:	16:46

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	847.2	2283.651	1934.613		-15.3	20
o-Terphenyl	A	50.00	34.20	3467.799	2372.36		-31.6	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_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1243001
Lab File ID:	014F1401.D	Calibration Date:	08/29/11 22:44
Sequence:	1I25604	Injection Date:	09/07/11
Lab Sample ID:	1I25604-CCV2	Injection Time:	22:52

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	847.0	2283.651	1934.205		-15.3	20
o-Terphenyl	A	50.00	34.53	3467.799	2395.14		-30.9	20 *

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

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25107	Instrument:	GL-GCFID2
		Calibration:	1243001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25107-CCV1) mg/L				Lab File ID: 050F5001.D		Analyzed: 09/04/11 17:18		
o-Terphenyl	50.00	71.8	80 - 120	11.37	11.37	0.0000	+/-0.050	*
Calibration Check (1I25107-CCV2) mg/L				Lab File ID: 055F5501.D		Analyzed: 09/04/11 20:04		
o-Terphenyl	50.00	80.5	80 - 120	11.35	11.37	-0.0200	+/-0.050	
Blank (1H19005-BLK1) mg/L				Lab File ID: 056F5601.D		Analyzed: 09/04/11 20:37		
o-Terphenyl	0.02000	59.2	30 - 140	11.32	11.37	-0.0500	+/-0.050	
LCS (1H19005-BS1) mg/L				Lab File ID: 057F5701.D		Analyzed: 09/04/11 21:10		
o-Terphenyl	0.02000	58.2	30 - 140	11.333	11.37	-0.0370	+/-0.050	
LCS Dup (1H19005-BSD1) mg/L				Lab File ID: 058F5801.D		Analyzed: 09/04/11 21:43		
o-Terphenyl	0.02000	53.5	30 - 140	11.326	11.37	-0.0440	+/-0.050	
GW0173-R (1108174-01) mg/L				Lab File ID: 062F6201.D		Analyzed: 09/04/11 23:57		
o-Terphenyl	0.01961	59.5	30 - 140	11.316	11.37	-0.0540	+/-0.050	*
GW0198 (1108174-03) mg/L				Lab File ID: 063F6301.D		Analyzed: 09/05/11 00:30		
o-Terphenyl	0.01961	58.5	30 - 140	11.326	11.37	-0.0440	+/-0.050	
GW0197 (1108181-01RE1) mg/L				Lab File ID: 065F6501.D		Analyzed: 09/05/11 01:37		
o-Terphenyl	0.01961	52.8	30 - 140	11.32	11.37	-0.0500	+/-0.050	
GW0215 (1108205-01) mg/L				Lab File ID: 066F6601.D		Analyzed: 09/05/11 02:11		
o-Terphenyl	0.01942	52.6	30 - 140	11.326	11.37	-0.0440	+/-0.050	
GW0230 (1108205-03) mg/L				Lab File ID: 067F6701.D		Analyzed: 09/05/11 02:44		
o-Terphenyl	0.01942	55.7	30 - 140	11.313	11.37	-0.0570	+/-0.050	*
GW0231 (1108205-05) mg/L				Lab File ID: 068F6801.D		Analyzed: 09/05/11 03:17		
o-Terphenyl	0.01942	61.0	30 - 140	11.336	11.37	-0.0340	+/-0.050	
GW0232 (1108210-03) mg/L				Lab File ID: 070F7001.D		Analyzed: 09/05/11 04:24		
o-Terphenyl	0.01961	60.1	30 - 140	11.333	11.37	-0.0370	+/-0.050	
Calibration Check (1I25107-CCV3) mg/L				Lab File ID: 071F7101.D		Analyzed: 09/05/11 04:57		
o-Terphenyl	50.00	74.7	80 - 120	11.35	11.37	-0.0200	+/-0.050	*

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I25604	Instrument:	GL-GCFID2
		Calibration:	1243001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1I25604-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 09/07/11 16:46		
o-Terphenyl	50.00	68.4	80 - 120	11.41	11.41	0.0000	+/-0.050	*
GW0195 (1108210-01RE1) mg/L				Lab File ID: 008F0801.D		Analyzed: 09/07/11 19:33		
o-Terphenyl	0.01961	63.7	30 - 140	11.376	11.41	-0.0340	+/-0.050	
Calibration Check (1I25604-CCV2) mg/L				Lab File ID: 014F1401.D		Analyzed: 09/07/11 22:52		
o-Terphenyl	50.00	69.1	80 - 120	11.36	11.41	-0.0500	+/-0.050	*

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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
GW0173-R	08/15/11 11:53	08/16/11 08:30	08/22/11 10:00	6.88	7.00	09/04/11 23:57	13.58	40.00	
GW0198	08/15/11 14:03	08/16/11 08:30	08/22/11 10:00	6.79	7.00	09/05/11 00:30	13.60	40.00	
GW0197	08/16/11 10:22	08/17/11 09:41	08/22/11 10:00	5.94	7.00	09/05/11 01:37	13.65	40.00	
GW0215	08/17/11 11:28	08/18/11 08:30	08/22/11 10:00	4.90	7.00	09/05/11 02:11	13.67	40.00	
GW0230	08/16/11 15:13	08/18/11 08:30	08/22/11 10:00	5.74	7.00	09/05/11 02:44	13.70	40.00	
GW0231	08/16/11 15:13	08/18/11 08:30	08/22/11 10:00	5.74	7.00	09/05/11 03:17	13.72	40.00	
GW0195	08/17/11 16:09	08/19/11 08:30	08/22/11 10:00	4.70	7.00	09/07/11 19:33	16.40	40.00	
GW0232	08/17/11 14:49	08/19/11 08:30	08/22/11 10:00	4.76	7.00	09/05/11 04:24	13.77	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H19005-BLK1	File ID:	056F5601.D
Sampled:		Prepared:		Analyzed:	09/04/11 20:37
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1H19005	Sequence:	1I25107	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	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01183	59.2	30 - 140	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H19005-BS1	File ID:	057F5701.D
Sampled:		Prepared:		Analyzed:	09/04/11 21:10
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1H19005	Sequence:	1I25107	Calibration:	1243001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6056	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01165	58.2	30 - 140	Y

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1H19005-BSD1	File ID:	058F5801.D
Sampled:		Prepared:		Analyzed:	09/04/11 21:43
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1H19005	Sequence:	1I25107	Calibration:	1243001	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6688	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01070	53.5	30 - 140	Y

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
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_024
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_024
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
GW0173-R	1108174-01	019R0101.D	08/19/11 22:41
GW0198	1108174-03	020R0101.D	08/19/11 23:02
Calibration Check	1H23604-CCV2	022R0101.D	08/19/11 23:45
Calibration Check	1H23604-CCV2	022F0101.D	08/19/11 23:45
GW0197	1108181-01	027F0101.D	08/20/11 01:34
GW0197	1108181-01	027R0101.D	08/20/11 01:34
GW0215	1108205-01	028F0101.D	08/20/11 01:55
GW0230	1108205-03	029R0101.D	08/20/11 02:17
GW0230	1108205-03	029F0101.D	08/20/11 02:17
GW0231	1108205-05	030R0101.D	08/20/11 02:38
GW0231	1108205-05	030F0101.D	08/20/11 02:38
GW0232	1108210-03	032R0101.D	08/20/11 03:22
Calibration Check	1H23604-CCV3	033R0101.D	08/20/11 03:43
Calibration Check	1H23604-CCV3	033F0101.D	08/20/11 03:43

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24105	Instrument:	GL-ECD2
Calibration:	1217001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1H24105-CCV1	002R0101.D	08/23/11 14:43
Calibration Check	1H24105-CCV1	002F0101.D	08/23/11 14:43
GW0195	1108210-01RE1	003R0101.D	08/23/11 15:04
GW0195	1108210-01RE1	003F0101.D	08/23/11 15:04
Calibration Check	1H24105-CCV2	004R0101.D	08/23/11 15:26
Calibration Check	1H24105-CCV2	004F0101.D	08/23/11 15:26

ANALYSIS DATA SHEET

GW0173-R

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-01	File ID:	019R0101.D
Sampled:	08/15/11 11:53	Prepared:	08/19/11 10:30	Analyzed:	08/19/11 22:41
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		0.00960	0.0192	0.0288	UX

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0198

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-03	File ID:	020R0101.D
Sampled:	08/15/11 14:03	Prepared:	08/19/11 10:30	Analyzed:	08/19/11 23:02
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		0.00942	0.0188	0.0283	UX

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0197

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-01	File ID:	027F0101.D
Sampled:	08/16/11 10:22	Prepared:	08/19/11 10:30	Analyzed:	08/20/11 01:34
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	2.19	0.0523	0.105	0.157	XP

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0215

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-01	File ID:	028F0101.D
Sampled:	08/17/11 11:28	Prepared:	08/19/11 10:30	Analyzed:	08/20/11 01:55
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		0.00955	0.0191	0.0286	UX

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0230

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-03	File ID:	029F0101.D
Sampled:	08/16/11 15:13	Prepared:	08/19/11 10:30	Analyzed:	08/20/11 02:17
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	0.192	0.00941	0.0188	0.0282	X

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0231

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-05	File ID:	030R0101.D
Sampled:	08/16/11 15:13	Prepared:	08/19/11 10:30	Analyzed:	08/20/11 02:38
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 [2C]	0.101	0.00951	0.0190	0.0285	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0195

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-01RE1	File ID:	003F0101.D
Sampled:	08/17/11 16:09	Prepared:	08/19/11 10:30	Analyzed:	08/23/11 15:04
Solids:		Preparation:	EDB	Dilution:	200

Batch: 1H19011 Sequence: 1H24105 Calibration: 1217001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	147	1.91	3.82	5.73	DXP

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0232

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_024
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-03	File ID:	032R0101.D
Sampled:	08/17/11 14:49	Prepared:	08/19/11 10:30	Analyzed:	08/20/11 03:22
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		0.00957	0.0191	0.0287	UX

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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.
GW0173-R	1108174-01	08/19/11 10:30	36.44	35.00
GW0198	1108174-03	08/19/11 10:30	37.15	35.00
GW0197	1108181-01	08/19/11 10:30	6.69	35.00
GW0215	1108205-01	08/19/11 10:30	36.65	35.00
GW0230	1108205-03	08/19/11 10:30	37.18	35.00
GW0231	1108205-05	08/19/11 10:30	36.79	35.00
GW0195	1108210-01RE1	08/19/11 10:30	36.64	35.00
GW0232	1108210-03	08/19/11 10:30	36.58	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_024
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_024
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_024	
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_024	
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_024
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_024
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_024
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

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	033F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1H23604	Injection Date:	08/20/11
Lab Sample ID:	1H23604-CCV3	Injection Time:	03:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5782	48203.33	21466		15.6	20
1,2-Dibromoethane [2C]	A	0.5000	0.4277	41296.5	35322		-14.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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:	1H24105	Injection Date:	08/23/11
Lab Sample ID:	1H24105-CCV1	Injection Time:	14:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.7248	48203.33	25354		45.0	20 *
1,2-Dibromoethane [2C]	A	0.5000	0.4640	41296.5	38322		-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

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	1217001
Lab File ID:	004F0101.D	Calibration Date:	07/24/11 05:45
Sequence:	1H24105	Injection Date:	08/23/11
Lab Sample ID:	1H24105-CCV2	Injection Time:	15:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.6231	48203.33	22656		24.6	20 *
1,2-Dibromoethane [2C]	A	0.5000	0.4019	41296.5	33194		-19.6	20

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

* Values outside of QC limits

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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
GW0173-R	08/15/11 11:53	08/16/11 08:30	08/19/11 10:30	N/A	14.00	08/19/11 22:41	4.41	14.00	
GW0198	08/15/11 14:03	08/16/11 08:30	08/19/11 10:30	N/A	14.00	08/19/11 23:02	4.33	14.00	
GW0197	08/16/11 10:22	08/17/11 09:41	08/19/11 10:30	N/A	14.00	08/20/11 01:34	3.59	14.00	
GW0215	08/17/11 11:28	08/18/11 08:30	08/19/11 10:30	N/A	14.00	08/20/11 01:55	2.56	14.00	
GW0230	08/16/11 15:13	08/18/11 08:30	08/19/11 10:30	N/A	14.00	08/20/11 02:17	3.42	14.00	
GW0231	08/16/11 15:13	08/18/11 08:30	08/19/11 10:30	N/A	14.00	08/20/11 02:38	3.43	14.00	
GW0195	08/17/11 16:09	08/19/11 08:30	08/19/11 10:30	N/A	14.00	08/23/11 15:04	5.91	14.00	
GW0232	08/17/11 14:49	08/19/11 08:30	08/19/11 10:30	N/A	14.00	08/20/11 03:22	2.48	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024
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

GW0197

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108181-01 Date(s) Analyzed: 08/20/2011 08/20/2011

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	2.19	
	2	0.70	0.65	0.71	1.27	53

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0230

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108205-03 Date(s) Analyzed: 08/20/2011 08/20/2011

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	0.192	
	2	0.70	0.65	0.71	0.178	8

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0231

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108205-05 Date(s) Analyzed: 08/20/2011 08/20/2011

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	0.0955	
	2	0.70	0.65	0.71	0.101	6

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0195

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1108210-01RE1 Date(s) Analyzed: 08/23/2011 08/23/2011

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	147	
	2	0.70	0.65	0.71	90.5	48

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_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-ECD2

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

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0173-R

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Ground Water
Sampled: 08/15/11 11:53
% Solids: 0.00

SDG: Kirtland_024
Project: Kirtland AFB 2011
Laboratory ID: 1108174-01
Received: 08/16/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	41200	1000	2000	5000	1	X	SW6010B	1H22915	08/23/11 17:14
7439-92-1	Lead		1.50	3.00	3.00	1	Y U	SW6010B	1H22915	08/23/11 17:14
7439-95-4	Magnesium	5680	1000	3000	5000	1		SW6010B	1H22915	08/23/11 17:14
7440-09-7	Potassium	2100	1000	3000	5000	1	J	SW6010B	1H22915	08/23/11 17:14
7440-23-5	Sodium	23800	1000	3000	5000	1	X	SW6010B	1H22915	08/23/11 17:14

ANALYSIS DATA SHEET

GW0173-R

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-02
Sampled:	08/15/11 11:53	Received:	08/16/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1H22916	08/22/11 19:30
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1H22916	08/22/11 19:30

ANALYSIS DATA SHEET

GW0198

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-03
Sampled:	08/15/11 14:03	Received:	08/16/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	39900	1000	2000	5000	1	X	SW6010B	1H22915	08/23/11 17:19
7439-92-1	Lead		1.50	3.00	3.00	1	Y U	SW6010B	1H22915	08/23/11 17:19
7439-95-4	Magnesium	5080	1000	3000	5000	1		SW6010B	1H22915	08/23/11 17:19
7440-09-7	Potassium	2130	1000	3000	5000	1	J	SW6010B	1H22915	08/23/11 17:19
7440-23-5	Sodium	25000	1000	3000	5000	1	X	SW6010B	1H22915	08/23/11 17:19

ANALYSIS DATA SHEET

GW0198

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-04
Sampled:	08/15/11 14:03	Received:	08/16/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1H22916	08/22/11 19:34
7439-96-5	Manganese (dissolved)	4.10	3.00	6.00	15.0	1	J	SW6010B	1H22916	08/22/11 19:34

ANALYSIS DATA SHEET

GW0197

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-01
Sampled:	08/16/11 10:22	Received:	08/17/11 09:41
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	105000	1000	2000	5000	1		SW6010B	1H22915	08/24/11 14:25
7439-92-1	Lead		1.50	3.00	3.00	1	Y U	SW6010B	1H22915	08/23/11 19:26
7439-95-4	Magnesium	15600	1000	3000	5000	1		SW6010B	1H22915	08/23/11 19:26
7440-09-7	Potassium	3490	1000	3000	5000	1	J	SW6010B	1H22915	08/23/11 19:26
7440-23-5	Sodium	41900	1000	3000	5000	1	X	SW6010B	1H22915	08/23/11 19:26

ANALYSIS DATA SHEET

GW0197

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108181-02
Sampled:	08/16/11 10:22	Received:	08/17/11 09:41
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	2820	30.0	60.0	100	1		SW6010B	1H22916	08/22/11 19:39
7439-96-5	Manganese (dissolved)	3090	3.00	6.00	15.0	1		SW6010B	1H22916	08/22/11 19:39

ANALYSIS DATA SHEET

GW0215

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 08/17/11 11:28
% Solids: 0.00

SDG: Kirtland_024
Project: Kirtland AFB 2011
Laboratory ID: 1108205-01
Received: 08/18/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	36200	1000	2000	5000	1		SW6010B	1H29001	09/01/11 17:27
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H29001	09/01/11 17:27
7439-95-4	Magnesium	4790	1000	3000	5000	1	J	SW6010B	1H29001	09/01/11 17:27
7440-09-7	Potassium	2100	1000	3000	5000	1	J	SW6010B	1H29001	09/01/11 17:27
7440-23-5	Sodium	23100	1000	3000	5000	1		SW6010B	1H29001	09/01/11 17:27

ANALYSIS DATA SHEET

GW0215

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-02
Sampled:	08/17/11 11:28	Received:	08/18/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1H22922	08/22/11 20:31
7439-96-5	Manganese (dissolved)	62.2	3.00	6.00	15.0	1		SW6010B	1H22922	08/22/11 20:31

ANALYSIS DATA SHEET

GW0230

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 08/16/11 15:13
% Solids: 0.00

SDG: Kirtland_024
Project: Kirtland AFB 2011
Laboratory ID: 1108205-03
Received: 08/18/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	52200	1000	2000	5000	1		SW6010B	1H29001	09/01/11 17:32
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H29001	09/01/11 17:32
7439-95-4	Magnesium	7390	1000	3000	5000	1		SW6010B	1H29001	09/01/11 17:32
7440-09-7	Potassium	2740	1000	3000	5000	1	J	SW6010B	1H29001	09/01/11 17:32
7440-23-5	Sodium	26000	1000	3000	5000	1		SW6010B	1H29001	09/01/11 17:32

ANALYSIS DATA SHEET

GW0230

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-04
Sampled:	08/16/11 15:13	Received:	08/18/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1H22922	08/22/11 20:35
7439-96-5	Manganese (dissolved)	206	3.00	6.00	15.0	1		SW6010B	1H22922	08/22/11 20:35

ANALYSIS DATA SHEET

GW0231

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 08/16/11 15:13
% Solids: 0.00

SDG: Kirtland_024
Project: Kirtland AFB 2011
Laboratory ID: 1108205-05
Received: 08/18/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	51800	1000	2000	5000	1		SW6010B	1H29001	09/01/11 17:36
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H29001	09/01/11 17:36
7439-95-4	Magnesium	7300	1000	3000	5000	1		SW6010B	1H29001	09/01/11 17:36
7440-09-7	Potassium	2700	1000	3000	5000	1	J	SW6010B	1H29001	09/01/11 17:36
7440-23-5	Sodium	25800	1000	3000	5000	1		SW6010B	1H29001	09/01/11 17:36

ANALYSIS DATA SHEET

GW0231

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108205-06
Sampled:	08/16/11 15:13	Received:	08/18/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1H22922	08/22/11 20:40
7439-96-5	Manganese (dissolved)	201	3.00	6.00	15.0	1		SW6010B	1H22922	08/22/11 20:40

ANALYSIS DATA SHEET

GW0195

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 08/17/11 16:09
% Solids: 0.00

SDG: Kirtland_024
Project: Kirtland AFB 2011
Laboratory ID: 1108210-01
Received: 08/19/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	58000	1000	2000	5000	1		SW6010B	1H29002	09/01/11 19:00
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H29002	09/01/11 19:00
7439-95-4	Magnesium	7780	1000	3000	5000	1		SW6010B	1H29002	09/01/11 19:00
7440-09-7	Potassium	2600	1000	3000	5000	1	J	SW6010B	1H29002	09/01/11 19:00
7440-23-5	Sodium	28700	1000	3000	5000	1		SW6010B	1H29002	09/01/11 19:00

ANALYSIS DATA SHEET

GW0195

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-02
Sampled:	08/17/11 16:09	Received:	08/19/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	291	30.0	60.0	100	1		SW6010B	1H22922	08/22/11 20:44
7439-96-5	Manganese (dissolved)	514	3.00	6.00	15.0	1		SW6010B	1H22922	08/22/11 20:44

ANALYSIS DATA SHEET

GW0232

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 08/17/11 14:49
% Solids: 0.00

SDG: Kirtland_024
Project: Kirtland AFB 2011
Laboratory ID: 1108210-03
Received: 08/19/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	36300	1000	2000	5000	1		SW6010B	1H29002	09/01/11 19:05
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1H29002	09/01/11 19:05
7439-95-4	Magnesium	4740	1000	3000	5000	1	J	SW6010B	1H29002	09/01/11 19:05
7440-09-7	Potassium	2140	1000	3000	5000	1	J	SW6010B	1H29002	09/01/11 19:05
7440-23-5	Sodium	23200	1000	3000	5000	1		SW6010B	1H29002	09/01/11 19:05

ANALYSIS DATA SHEET

GW0232

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-04
Sampled:	08/17/11 14:49	Received:	08/19/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1H22922	08/22/11 20:49
7439-96-5	Manganese (dissolved)	24.6	3.00	6.00	15.0	1		SW6010B	1H22922	08/22/11 20:49

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

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

SDG: Kirtland_024
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-CCV3	Calcium	50000	54730	109	ug/L	+/- 10.00%
	Lead	1000	903.0	90.3	ug/L	+/- 10.00%
	Magnesium	50000	50870	102	ug/L	+/- 10.00%
	Potassium	10000	9791	97.9	ug/L	+/- 10.00%
	Sodium	50000	52970	106	ug/L	+/- 10.00%
1H23613-CCV4	**Calcium**	**50000**	**58780**	**118**	**ug/L**	+/- 10.00%
	Lead	**1000**	**888.5**	**88.9**	**ug/L**	+/- 10.00%
	Magnesium	50000	53130	106	ug/L	+/- 10.00%
	Potassium	10000	9807	98.1	ug/L	+/- 10.00%
	Sodium	**50000**	**57450**	**115**	**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%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

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

SDG: Kirtland_024
Project: Kirtland AFB 2011
Calibration: 1237002
Sequence: 1H23705

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23705-ICV1	Iron (dissolved)	10000	10580	106	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	996.5	99.6	ug/L	+/- 10.00%
1H23705-CCV1	Iron (dissolved)	10000	10820	108	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1024	102	ug/L	+/- 10.00%
1H23705-CCV3	Iron (dissolved)	10000	10740	107	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	999.7	100	ug/L	+/- 10.00%
1H23705-CCV4	Iron (dissolved)	10000	10720	107	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	990.5	99.1	ug/L	+/- 10.00%
1H23705-CCV5	Iron (dissolved)	10000	10340	103	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1031	103	ug/L	+/- 10.00%
1H23705-CCV6	Iron (dissolved)	10000	10240	102	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	974.7	97.5	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_024
Project: Kirtland AFB 2011
Calibration: 1242003
Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23804-ICV1	Calcium	50000	53030	106	ug/L	+/- 10.00%
	Lead	1000	969.0	96.9	ug/L	+/- 10.00%
	Magnesium	50000	50140	100	ug/L	+/- 10.00%
	Potassium	10000	9193	91.9	ug/L	+/- 10.00%
	Sodium	50000	51790	104	ug/L	+/- 10.00%
1H23804-CCV1	Calcium	50000	52820	106	ug/L	+/- 10.00%
	Lead	1000	963.7	96.4	ug/L	+/- 10.00%
	Magnesium	50000	49750	99.5	ug/L	+/- 10.00%
	Potassium	10000	9903	99.0	ug/L	+/- 10.00%
	Sodium	50000	51800	104	ug/L	+/- 10.00%
1H23804-CCV2	Calcium	50000	52610	105	ug/L	+/- 10.00%
	Lead	1000	963.4	96.3	ug/L	+/- 10.00%
	Magnesium	50000	49480	99.0	ug/L	+/- 10.00%
	Potassium	10000	9903	99.0	ug/L	+/- 10.00%
	Sodium	50000	51660	103	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

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

SDG: Kirtland_024
Project: Kirtland AFB 2011
Calibration: 1245001
Sequence: 1I24510

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1I24510-ICV1	Calcium	50000	52470	105	ug/L	+/- 10.00%
	Lead	1000	988.9	98.9	ug/L	+/- 10.00%
	Magnesium	50000	50440	101	ug/L	+/- 10.00%
	Potassium	10000	9364	93.6	ug/L	+/- 10.00%
	Sodium	50000	51380	103	ug/L	+/- 10.00%
1I24510-CCV1	Calcium	50000	52240	104	ug/L	+/- 10.00%
	Lead	1000	973.7	97.4	ug/L	+/- 10.00%
	Magnesium	50000	49970	99.9	ug/L	+/- 10.00%
	Potassium	10000	9988	99.9	ug/L	+/- 10.00%
	Sodium	50000	51230	102	ug/L	+/- 10.00%
1I24510-CCV2	Calcium	50000	52100	104	ug/L	+/- 10.00%
	Lead	1000	974.2	97.4	ug/L	+/- 10.00%
	Magnesium	50000	49800	99.6	ug/L	+/- 10.00%
	Potassium	10000	9995	100	ug/L	+/- 10.00%
	Sodium	50000	51280	103	ug/L	+/- 10.00%
1I24510-CCV3	Calcium	50000	53060	106	ug/L	+/- 10.00%
	Lead	1000	949.6	95.0	ug/L	+/- 10.00%
	Magnesium	50000	49620	99.2	ug/L	+/- 10.00%
	Potassium	10000	10020	100	ug/L	+/- 10.00%
	Sodium	50000	52060	104	ug/L	+/- 10.00%
1I24510-CCV4	Calcium	50000	54500	109	ug/L	+/- 10.00%
	Lead	1000	933.6	93.4	ug/L	+/- 10.00%
	Magnesium	50000	50150	100	ug/L	+/- 10.00%
	Potassium	10000	10160	102	ug/L	+/- 10.00%
	Sodium	50000	54040	108	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_024

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_024

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	Iron (dissolved)	60.00	61.12	102	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.104	102	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_024

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1242003

Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1H23804-CRL1	Calcium	2000	2103	105	ug/L	80 - 120
	Lead	3.000	3.000	100	ug/L	80 - 120
	Magnesium	3000	3034	101	ug/L	80 - 120
	Potassium	3000	2908	97.0	ug/L	80 - 120
	Sodium	3000	2961	98.7	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_024

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1245001

Sequence: 1I24510

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1I24510-CRL1	Calcium	2000	2147	107	ug/L	80 - 120
	Lead	3.000	3.497	117	ug/L	80 - 120
	Magnesium	3000	3103	103	ug/L	80 - 120
	Potassium	3000	2997	99.9	ug/L	80 - 120
	Sodium	3000	3108	104	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
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-CCB3	Calcium	25.1	1000	5000	ug/L	U	SW6010B
	Lead	0.620	1.50	3.00	ug/L	U	SW6010B
	Magnesium	13.6	1000	5000	ug/L	U	SW6010B
	Potassium	28.5	1000	5000	ug/L	U	SW6010B
	Sodium	216	1000	5000	ug/L	U	SW6010B
1H22915-BLK1	Calcium	23.7	1000	5000	ug/L	U	SW6010B
	Lead	0.531	1.50	3.00	ug/L	U	SW6010B
	Magnesium	8.90	1000	5000	ug/L	U	SW6010B
	Potassium	26.7	1000	5000	ug/L	U	SW6010B
	Sodium	178	1000	5000	ug/L	U	SW6010B
1H23613-CCB4	Calcium	8.15	1000	5000	ug/L	U	SW6010B
	Lead	0.432	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.90	1000	5000	ug/L	U	SW6010B
	Potassium	-12.8	1000	5000	ug/L	U	SW6010B
	Sodium	68.1	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

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
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	Iron (dissolved)	0.4297	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.07330	3.00	15.0	ug/L	U	SW6010B
1H23705-CCB1	Iron (dissolved)	6.97	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0710	3.00	15.0	ug/L	U	SW6010B
1H23705-CCB3	Iron (dissolved)	-0.371	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0876	3.00	15.0	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	Iron (dissolved)	-0.341	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.120	3.00	15.0	ug/L	U	SW6010B
1H23705-CCB5	Iron (dissolved)	-1.49	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.433	3.00	15.0	ug/L	U	SW6010B
1H22922-BLK1	Iron (dissolved)	0.567	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.231	3.00	15.0	ug/L	U	SW6010B
1H23705-CCB6	Iron (dissolved)	3.26	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.399	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1H23804
Calibration: 1242003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23804-ICB1	Calcium	0.3900	1000	5000	ug/L	U	SW6010B
	Lead	-0.07939	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-1.750	1000	5000	ug/L	U	SW6010B
	Potassium	-6.710	1000	5000	ug/L	U	SW6010B
	Sodium	20.27	1000	5000	ug/L	U	SW6010B
1H23804-CCB1	Calcium	2.13	1000	5000	ug/L	U	SW6010B
	Lead	0.218	1.50	3.00	ug/L	U	SW6010B
	Magnesium	1.66	1000	5000	ug/L	U	SW6010B
	Potassium	-10.3	1000	5000	ug/L	U	SW6010B
	Sodium	17.2	1000	5000	ug/L	U	SW6010B
1H23804-CCB2	Calcium	-0.0600	1000	5000	ug/L	U	SW6010B
	Lead	-0.223	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-5.38	1000	5000	ug/L	U	SW6010B
	Potassium	19.0	1000	5000	ug/L	U	SW6010B
	Sodium	64.5	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1I24510
Calibration: 1245001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1I24510-ICB1	Calcium	0.3400	1000	5000	ug/L	U	SW6010B
	Lead	-0.3574	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-3.090	1000	5000	ug/L	U	SW6010B
	Potassium	17.02	1000	5000	ug/L	U	SW6010B
	Sodium	45.51	1000	5000	ug/L	U	SW6010B
1I24510-CCB1	Calcium	1.06	1000	5000	ug/L	U	SW6010B
	Lead	-0.0376	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.87	1000	5000	ug/L	U	SW6010B
	Potassium	17.8	1000	5000	ug/L	U	SW6010B
	Sodium	33.1	1000	5000	ug/L	U	SW6010B
1H29001-BLK1	Calcium	14.9	1000	5000	ug/L	U	SW6010B
	Lead	0.367	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.410	1000	5000	ug/L	U	SW6010B
	Potassium	9.70	1000	5000	ug/L	U	SW6010B
	Sodium	31.7	1000	5000	ug/L	U	SW6010B
1I24510-CCB2	Calcium	2.10	1000	5000	ug/L	U	SW6010B
	Lead	0.445	1.50	3.00	ug/L	U	SW6010B
	Magnesium	3.69	1000	5000	ug/L	U	SW6010B
	Potassium	26.0	1000	5000	ug/L	U	SW6010B
	Sodium	15.0	1000	5000	ug/L	U	SW6010B
1I24510-CCB3	Calcium	5.38	1000	5000	ug/L	U	SW6010B
	Lead	0.604	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.25	1000	5000	ug/L	U	SW6010B
	Potassium	85.0	1000	5000	ug/L	U	SW6010B
	Sodium	121	1000	5000	ug/L	U	SW6010B
1H29002-BLK1	Calcium	8.96	1000	5000	ug/L	U	SW6010B
	Lead	0.539	1.50	3.00	ug/L	U	SW6010B
	Magnesium	2.66	1000	5000	ug/L	U	SW6010B
	Potassium	57.6	1000	5000	ug/L	U	SW6010B
	Sodium	99.9	1000	5000	ug/L	U	SW6010B
1I24510-CCB4	Calcium	37.6	1000	5000	ug/L	U	SW6010B
	Lead	0.534	1.50	3.00	ug/L	U	SW6010B
	Magnesium	76.8	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1I24510
Calibration: 1245001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1I24510-CCB4	Potassium	137	1000	5000	ug/L	U	SW6010B
	Sodium	1530	1000	5000	ug/L	J	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
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_024

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	Iron (dissolved)	200000	207,870.00	104	ug/L
	Manganese (dissolved)		-3.69		ug/L
1H23705-IFB1	Iron (dissolved)	200000	211,880.00	106	ug/L
	Manganese (dissolved)	500.0	485.74	97.1	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1242003
Sequence: 1H23804

Lab Sample ID	Analyte	True	Found	%R	Units
1H23804-IFA1	Calcium	500000	500,080.00	100	ug/L
	Lead		5.02		ug/L
	Magnesium	500000	496,580.00	99.3	ug/L
	Potassium		-40.17		ug/L
	Sodium		66.94		ug/L
1H23804-IFB1	Calcium	500000	488,070.00	97.6	ug/L
	Lead	50.00	48.70	97.4	ug/L
	Magnesium	500000	489,710.00	97.9	ug/L
	Potassium		-21.23		ug/L
	Sodium		124.04		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1245001
Sequence: 1I24510

Lab Sample ID	Analyte	True	Found	%R	Units
1I24510-IFA1	Calcium	500000	490,910.00	98.2	ug/L
	Lead		3.71		ug/L
	Magnesium	500000	492,190.00	98.4	ug/L
	Potassium		-5.98		ug/L
	Sodium		102.63		ug/L
1I24510-IFB1	Calcium	500000	485,950.00	97.2	ug/L
	Lead	50.00	50.40	101	ug/L
	Magnesium	500000	492,320.00	98.5	ug/L
	Potassium		0.07		ug/L
	Sodium		113.22		ug/L

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H22915	Laboratory ID:	1H22915-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	5615	112	80 - 120
Lead	250.0	231.0	92.4	80 - 120
Magnesium	5000	5212	104	80 - 120
Potassium	5000	4745	94.9	80 - 120
Sodium	5000	5395	108	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H22922	Laboratory ID:	1H22922-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	1096	110	80 - 120
Manganese (dissolved)	500.0	506.3	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H29001	Laboratory ID:	1H29001-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	5185	104	80 - 120
Lead	250.0	250.1	100	80 - 120
Magnesium	5000	5023	100	80 - 120
Potassium	5000	4862	97.2	80 - 120
Sodium	5000	4982	99.6	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H29002	Laboratory ID:	1H29002-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	5376	108	80 - 120
Lead	250.0	242.9	97.2	80 - 120
Magnesium	5000	5044	101	80 - 120
Potassium	5000	4852	97.0	80 - 120
Sodium	5000	5246	105	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** Kirtland_024

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_024

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
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
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
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

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_024

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
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
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
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

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_024

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
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
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
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

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_024

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
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
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
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

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_024

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
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
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
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

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_024

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				
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				
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				
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				

Comments:

FORM XA-IN

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

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: Kirtland_024

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
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
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
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

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H22915 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0173-R	1108174-01	08/22/11 07:57	50.00	50.00
GW0198	1108174-03	08/22/11 07:57	50.00	50.00
GW0197	1108181-01	08/22/11 07:57	50.00	50.00
GW0197	1108181-01RE1	08/22/11 07:57	50.00	50.00
Blank	1H22915-BLK1	08/22/11 07:57	50.00	50.00
LCS	1H22915-BS1	08/22/11 07:57	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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.
GW0173-R	1108174-02	08/22/11 08:12	50.00	50.00
GW0198	1108174-04	08/22/11 08:12	50.00	50.00
GW0197	1108181-02	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

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H22922 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0215	1108205-02	08/22/11 09:33	50.00	50.00
GW0230	1108205-04	08/22/11 09:33	50.00	50.00
GW0231	1108205-06	08/22/11 09:33	50.00	50.00
GW0195	1108210-02	08/22/11 09:33	50.00	50.00
GW0232	1108210-04	08/22/11 09:33	50.00	50.00
Blank	1H22922-BLK1	08/22/11 09:33	50.00	50.00
LCS	1H22922-BS1	08/22/11 09:33	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H29001 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0215	1108205-01	08/29/11 07:47	50.00	50.00
GW0230	1108205-03	08/29/11 07:47	50.00	50.00
GW0231	1108205-05	08/29/11 07:47	50.00	50.00
Blank	1H29001-BLK1	08/29/11 07:47	50.00	50.00
LCS	1H29001-BS1	08/29/11 07:47	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H29002 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0195	1108210-01	08/29/11 07:56	50.00	50.00
GW0232	1108210-03	08/29/11 07:56	50.00	50.00
Blank	1H29002-BLK1	08/29/11 07:56	50.00	50.00
LCS	1H29002-BS1	08/29/11 07:56	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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-CCV3	082311C-029	08/23/11 16:52
Calibration Blank	1H23613-CCB3	082311C-030	08/23/11 16:59
Blank	1H22915-BLK1	082311C-031	08/23/11 17:03
LCS	1H22915-BS1	082311C-032	08/23/11 17:08
GW0173-R	1108174-01	082311C-033	08/23/11 17:14
GW0198	1108174-03	082311C-034	08/23/11 17:19
Calibration Check	1H23613-CCV4	082311C-047	08/23/11 18:19
Calibration Blank	1H23613-CCB4	082311C-048	08/23/11 18:27
GW0197	1108181-01	082311C-061	08/23/11 19:26
Calibration Check	1H23613-CCV5	082311C-062	08/23/11 19:32
Calibration Blank	1H23613-CCB5	082311C-063	08/23/11 19:40

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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-CAL2	082211A-002	08/22/11 13:05
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-CAL6	082211A-006	08/22/11 13:22
Initial Cal Check	1H23705-ICV1	082211B-001	08/22/11 14:02
Initial Cal Blank	1H23705-ICB1	082211B-002	08/22/11 14:09
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 B	1H23705-IFB1	082211B-009	08/22/11 14:47
Calibration Check	1H23705-CCV1	082211B-011	08/22/11 14:57
Calibration Blank	1H23705-CCB1	082211B-012	08/22/11 15:04
Calibration Check	1H23705-CCV3	082211B-041	08/22/11 17:27
Calibration Blank	1H23705-CCB3	082211B-042	08/22/11 17:34
Blank	1H22916-BLK1	082211B-043	08/22/11 17:39
LCS	1H22916-BS1	082211B-044	08/22/11 17:44
Calibration Check	1H23705-CCV4	082211B-058	08/22/11 18:50
Calibration Blank	1H23705-CCB4	082211B-059	08/22/11 18:58
GW0173-R	1108174-02	082211B-066	08/22/11 19:30
GW0198	1108174-04	082211B-067	08/22/11 19:34
GW0197	1108181-02	082211B-068	08/22/11 19:39
Calibration Check	1H23705-CCV5	082211B-069	08/22/11 19:44
Calibration Blank	1H23705-CCB5	082211B-070	08/22/11 19:52
Blank	1H22922-BLK1	082211B-071	08/22/11 19:56
LCS	1H22922-BS1	082211B-072	08/22/11 20:01
GW0215	1108205-02	082211B-078	08/22/11 20:31
GW0230	1108205-04	082211B-079	08/22/11 20:35
GW0231	1108205-06	082211B-080	08/22/11 20:40
GW0195	1108210-02	082211B-081	08/22/11 20:44
GW0232	1108210-04	082211B-082	08/22/11 20:49
Calibration Check	1H23705-CCV6	082211B-086	08/22/11 21:08

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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 Blank	1H23705-CCB6	082211B-087	08/22/11 21:15

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23804	Instrument:	ME-ICP
Calibration:	1242003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23804-CAL1	082411A-001	08/24/11 12:09
Cal Standard	1H23804-CAL2	082411A-002	08/24/11 12:13
Cal Standard	1H23804-CAL3	082411A-003	08/24/11 12:17
Cal Standard	1H23804-CAL5	082411A-005	08/24/11 12:26
Cal Standard	1H23804-CAL6	082411A-006	08/24/11 12:31
Cal Standard	1H23804-CAL7	082411A-007	08/24/11 12:36
Cal Standard	1H23804-CAL8	082411A-008	08/24/11 12:41
Initial Cal Check	1H23804-ICV1	082411B-001	08/24/11 13:09
Initial Cal Blank	1H23804-ICB1	082411B-002	08/24/11 13:17
Instrument RL Check	1H23804-CRL1	082411B-003	08/24/11 13:24
Interference Check A	1H23804-IFA1	082411B-005	08/24/11 13:34
Interference Check B	1H23804-IFB1	082411B-006	08/24/11 13:39
Calibration Check	1H23804-CCV1	082411B-008	08/24/11 13:50
Calibration Blank	1H23804-CCB1	082411B-009	08/24/11 13:57
GW0197	1108181-01RE1	082411B-015	08/24/11 14:25
Calibration Check	1H23804-CCV2	082411B-019	08/24/11 14:50
Calibration Blank	1H23804-CCB2	082411B-020	08/24/11 14:57

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I24510	Instrument:	ME-ICP
Calibration:	1245001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1I24510-CAL1	090111A-001	09/01/11 13:38
Cal Standard	1I24510-CAL2	090111A-002	09/01/11 13:43
Cal Standard	1I24510-CAL3	090111A-003	09/01/11 13:47
Cal Standard	1I24510-CAL5	090111A-005	09/01/11 13:55
Cal Standard	1I24510-CAL6	090111A-006	09/01/11 14:00
Cal Standard	1I24510-CAL7	090111A-007	09/01/11 14:05
Cal Standard	1I24510-CAL8	090111A-008	09/01/11 14:10
Initial Cal Check	1I24510-ICV1	090111B-001	09/01/11 14:41
Initial Cal Blank	1I24510-ICB1	090111B-002	09/01/11 14:48
Instrument RL Check	1I24510-CRL1	090111B-004	09/01/11 15:00
Interference Check A	1I24510-IFA1	090111B-007	09/01/11 15:16
Interference Check B	1I24510-IFB1	090111B-008	09/01/11 15:21
Calibration Check	1I24510-CCV1	090111C-001	09/01/11 15:34
Calibration Blank	1I24510-CCB1	090111C-002	09/01/11 15:42
Blank	1H29001-BLK1	090111C-003	09/01/11 15:46
LCS	1H29001-BS1	090111C-004	09/01/11 15:51
Calibration Check	1I24510-CCV2	090111C-015	09/01/11 16:44
Calibration Blank	1I24510-CCB2	090111C-016	09/01/11 16:51
GW0215	1108205-01	090111C-024	09/01/11 17:27
GW0230	1108205-03	090111C-025	09/01/11 17:32
GW0231	1108205-05	090111C-026	09/01/11 17:36
Calibration Check	1I24510-CCV3	090111C-031	09/01/11 18:01
Calibration Blank	1I24510-CCB3	090111C-032	09/01/11 18:08
Blank	1H29002-BLK1	090111C-033	09/01/11 18:13
LCS	1H29002-BS1	090111C-034	09/01/11 18:17
GW0195	1108210-01	090111C-043	09/01/11 19:00
GW0232	1108210-03	090111C-044	09/01/11 19:05
Calibration Check	1I24510-CCV4	090111C-049	09/01/11 19:30
Calibration Blank	1I24510-CCB4	090111C-050	09/01/11 19:37

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024
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_024	
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_024	
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

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_024	
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	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1242003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/24/11 12:09 8/24/11 12:41

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	2.1298E-05	10000	2.0934E-05			500000	2.0856E-05		
Antimony	0	0	100	0.0006413	1000	6.6712E-04					10000	6.6106E-04
Arsenic	0	0	100	0.0002714	1000	2.8809E-04					10000	2.8769E-04
Barium	0	0	50	0.0115904	1000	0.01096	5000	0.0110838				
Beryllium	0	0	100	0.0031404	1000	0.0031305					10000	0.0030326
Boron	0	0	50	0.000016	1000	1.605E-05					5000	1.6128E-05
Cadmium	0	0	100	0.015824	1000	0.015993					10000	0.015104
Calcium	0	0	1100	6.783636E-05	50000	6.5502E-05					10000	
Chromium	0	0	100	0.0000525	1000	5.024E-05					10000	5.0604E-05
Cobalt	0	0	100	0.0055675	1000	0.0054676					10000	0.0055357
Copper	0	0	100	0.0000794	1000	7.545E-05					10000	7.620001E-05
Iron	0	0	5100	2.176078E-05	10000	2.0456E-05			500000	1.9944E-05	10000	
Lead	0	0	100	0.0013762	1000	0.0013285					10000	0.0013394
Magnesium	0	0	5100		50000	2.6476E-06			500000	2.6962E-06	10000	
Manganese	0	0	100	0.0002929	1000	2.8257E-04	10000	2.7834E-04			10000	
Molybdenum	0	0	100	0.0036254	1000	0.0037009					10000	0.0035976
Nickel	0	0	100	0.0029952	1000	0.0030244					10000	0.0030692
Potassium	0	0	1000	9.96E-06	10000	1.3402E-05						
Selenium	0	0	100	0.000394	1000	4.0573E-04					10000	3.8779E-04
Silver	0	0	20	0.0000605	500	0.0000566	2000	5.8895E-05				
Sodium	0	0	1000		50000	4.3338E-05						
Strontium	0	0	100	0.001754	1000	0.001727					10000	0.00172
Thallium	0	0	100	0.0007718	1000	7.4553E-04					10000	0.0007601
Tin	0	0	50	0.0013372	1000	0.0013152					5000	1.28218E-03
Titanium	0	0	100	0.0002534	1000	2.4636E-04					10000	2.4735E-04
Vanadium	0	0	100	0.0000534	1000	0.0000523					10000	5.1606E-05
Zinc	0	0	100	0.0066835	1000	0.0067464					10000	0.006463

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1242003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/24/11 12:09 8/24/11 12:41

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	6.4072E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.5649E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3618E-05										
Selenium												
Silver												
Sodium	100000	4.4133E-05	500000	4.2918E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1242003	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	8/24/11 12:09 8/24/11 12:41

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.5772E-05	66.67785	6.590605	186.6526	1		0.998	
Antimony	4.9237E-04	66.70426	16.48114	191.0124	0.9999988		0.998	
Arsenic	2.11795E-04	66.76766	16.87024	196.1461	0.9999997		0.998	
Barium	8.40855E-03	66.74551	1.842182	170.1049	0.9999933		0.998	
Beryllium	2.325875E-03	66.69948	23.51014	195.5878	0.9999904		0.998	
Boron	1.20445E-05	66.6681	2.17486	141.3411	0.9999986		0.998	
Cadmium	1.173025E-02	66.74761	1.48725	134.3019	0.9999676		0.998	
Calcium	4.935259E-05	66.74075	2.139465	152.1084	0.9999953		0.998	
Chromium	3.8336E-05	66.71675	15.52016	193.3144	0.9999991		0.998	
Cobalt	0.0041427	66.67425	0.5211875	82.47643	0.9999983		0.998	
Copper	5.77625E-05	66.73259	0.8866925	54.50862	0.9999982		0.998	
Iron	1.55402E-05	66.84809	13.49044	194.9622	0.9999994		0.998	
Lead	1.011025E-03	66.69722	9.694932	187.953	0.999999		0.998	
Magnesium	1.977175E-06	66.723	41.12999	198.9628	0.9999038		0.998	
Manganese	2.134525E-04	66.7282	3.51221	161.7503	0.9999982		0.998	
Molybdenum	2.730975E-03	66.68582	2.17037	155.931	0.9999921		0.998	
Nickel	0.0022722	66.68012	1.429618	147.3478	0.9999984		0.998	
Potassium	9.245E-06	69.08704	1.748115	163.9921	0.9999994		0.998	
Selenium	2.9688E-04	66.71374	11.49879	186.2794	0.9999801		0.998	
Silver	4.399875E-05	66.76583	3.150522	131.4859	0.9998891		0.998	
Sodium	3.259725E-05	66.68458	2.341118	156.6472	0.9999675		0.998	
Strontium	1.30025E-03	66.6762	5.23815	188.0273	0.9999998		0.998	
Thallium	5.693575E-04	66.69338	1.419545	126.8002	0.9999963		0.998	
Tin	9.83645E-04	66.70629	7.23423	187.6377	0.9999722		0.998	
Titanium	1.867775E-04	66.68748	4.651775	190.0491	0.9999996		0.998	
Vanadium	3.93265E-05	66.69312	6.575285	183.1687	0.9999986		0.998	
Zinc	4.973225E-03	66.71143	3.783605	182.3717	0.9999821		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1245001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	9/1/11_13:38 9/1/11_14:10

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.1026E-05	10000	2.088E-05			500000	2.1206E-05		
Antimony	0	0	100	0.0006314	1000	6.5266E-04					10000	6.4903E-04
Arsenic	0	0	100	0.000261	1000	2.7649E-04					10000	2.7077E-04
Barium	0	0	50	0.0116086	1000	0.010879	5000	0.011149				
Beryllium	0	0	100	0.0031284	1000	0.0031375					10000	0.0030528
Boron	0	0	50	0.0000156	1000	1.575E-05					5000	1.5608E-05
Cadmium	0	0	100	0.016088	1000	0.016024					10000	0.015297
Calcium	0	0	1100	6.757273E-05	50000	6.5724E-05					10000	
Chromium	0	0	100	0.0000522	1000	5.085E-05					10000	5.1017E-05
Cobalt	0	0	100	0.0056284	1000	0.0054711					10000	0.0056039
Copper	0	0	100	7.849999E-05	1000	7.366E-05					10000	7.3733E-05
Iron	0	0	5100	2.101373E-05	10000	2.0208E-05			500000	1.94034E-05	10000	
Lead	0	0	100	0.0014045	1000	0.001343					10000	0.0013803
Magnesium	0	0	5100		50000	2.7198E-06			500000	2.7156E-06	10000	
Manganese	0	0	100	0.0003001	1000	2.8698E-04	10000	2.8384E-04			10000	
Molybdenum	0	0	100	0.0036818	1000	0.0037348					10000	0.0037223
Nickel	0	0	100	0.003007	1000	0.0030077					10000	0.0030564
Potassium	0	0	1000	9.87E-06	10000	1.3299E-05						
Selenium	0	0	100	0.0004027	1000	4.0546E-04					10000	3.9786E-04
Silver	0	0	20	0.0000585	500	5.652E-05	2000	5.888E-05				
Sodium	0	0	1000		50000	4.2802E-05						
Strontium	0	0	100	0.00172	1000	0.001695					10000	0.00169
Thallium	0	0	100	0.0007544	1000	7.3368E-04					10000	7.4631E-04
Tin	0	0	50	0.0013636	1000	0.0013474					5000	1.33594E-03
Titanium	0	0	100	0.0002525	1000	2.4598E-04					10000	2.4479E-04
Vanadium	0	0	100	0.0000539	1000	5.281E-05					10000	5.2569E-05
Zinc	0	0	100	0.0069664	1000	0.006961					10000	0.0068478

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1245001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	9/1/11 13:38 9/1/11 14:10

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	6.2184E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.6019E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	0.0000135										
Selenium												
Silver												
Sodium	100000	4.1823E-05	500000	4.1122E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_024	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1245001		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	9/1/11 13:38	9/1/11 14:10

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.5778E-05	66.67202	2.837295	184.3434	0.9999999		0.998	
Antimony	4.832725E-04	66.69435	12.24764	194.2005	0.9999994		0.998	
Arsenic	2.02065E-04	66.74176	14.99934	189.9864	0.9999944		0.998	
Barium	8.40915E-03	66.76281	2.210383	185.5597	0.9999721		0.998	
Beryllium	2.329675E-03	66.68658	25.62311	195.0639	0.9999928		0.998	
Boron	1.17395E-05	66.66925	6.289522	184.0315	0.9999967		0.998	
Cadmium	1.185225E-02	66.73534	4.909175	186.9548	0.9999793		0.998	
Calcium	4.887018E-05	66.82346	2.686517	170.1067	0.9999685		0.998	
Chromium	3.851675E-05	66.68492	17.99597	193.2947	0.9999998		0.998	
Cobalt	4.17585E-03	66.6872	1.073733	162.7591	0.999994		0.998	
Copper	5.647325E-05	66.78716	2.179663	122.4769	0.9999996		0.998	
Iron	1.515628E-05	66.80763	25.756	196.7322	0.9999994		0.998	
Lead	1.03195E-03	66.71172	5.25762	180.5704	0.999992		0.998	
Magnesium	2.009325E-06	66.72205	50.71405	198.5196	0.9999179		0.998	
Manganese	2.1773E-04	66.74509	1.859678	148.1086	0.9999991		0.998	
Molybdenum	2.784725E-03	66.67162	33.65808	198.1933	0.9999998		0.998	
Nickel	2.267775E-03	66.67447	1.66235	175.1938	0.999998		0.998	
Potassium	9.16725E-06	69.09888	2.749885	110.0008	0.9999991		0.998	
Selenium	3.01505E-04	66.67481	10.56317	189.0697	0.9999969		0.998	
Silver	4.3475E-05	66.70913	1.92807	114.0328	0.9998848		0.998	
Sodium	3.143675E-05	66.70268	2.61226	135.7367	0.9999823		0.998	
Strontium	1.27625E-03	66.6746	1.7085	163.2433	0.9999999		0.998	
Thallium	5.585975E-04	66.68414	3.859845	178.7085	0.9999972		0.998	
Tin	1.011735E-03	66.6761	8.502412	192.4419	0.9999968		0.998	
Titanium	1.858175E-04	66.69161	5.171348	180.524	0.9999999		0.998	
Vanadium	3.981975E-05	66.68252	3.184288	153.2439	0.9999999		0.998	
Zinc	0.0051938	66.67498	1.4853	171.0501	0.9999976		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0173-R

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-01
Sampled:	08/15/11 11:53	Received:	08/16/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1H25011	08/29/11 14:24
18496-25-8	Sulfide	0.811	0.678	1.69	3.39	1	J	SM4500S2CF	1H17008	08/17/11 12:37
10-09-3	Alkalinity, Bicarbonate (as CACO3)	123	1.00	1.00	1.00	1		SM2320B	1H29005	08/29/11 10:17
16887-00-6	Chloride	7.50	0.170	0.330	1.00	1	M	E300.0	1H16011	08/16/11 20:27
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1H22923	08/22/11 11:48
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H29005	08/29/11 10:17
14808-79-8	Sulfate as SO4	26.7	0.330	1.00	2.50	1	M	E300.0	1H16011	08/16/11 20:27

ANALYSIS DATA SHEET

GW0198

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Ground Water	Laboratory ID:	1108174-03
Sampled:	08/15/11 14:03	Received:	08/16/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1H25011	08/29/11 14:25
18496-25-8	Sulfide		0.741	1.85	3.70	1	U	SM4500S2CF	1H17008	08/17/11 12:38
10-09-3	Alkalinity, Bicarbonate (as CACO3)	113	1.00	1.00	1.00	1		SM2320B	1H29005	08/29/11 10:26
16887-00-6	Chloride	7.58	0.170	0.330	1.00	1	M	E300.0	1H16011	08/16/11 20:44
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1H22923	08/22/11 11:50
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H29005	08/29/11 10:26
14808-79-8	Sulfate as SO4	28.0	0.330	1.00	2.50	1	M	E300.0	1H16011	08/16/11 20:44

ANALYSIS DATA SHEET

GW0197

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 08/16/11 10:22
% Solids: 0.00

SDG: Kirtland_024
Project: Kirtland AFB 2011
Laboratory ID: 1108181-01
Received: 08/17/11 09:41

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	1H25011	08/29/11 14:26
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	1H17008	08/17/11 12:39
10-09-3	Alkalinity, Bicarbonate (as CACO3)	207	1.00	1.00	1.00	1		SM2320B	1H29005	08/29/11 10:35
16887-00-6	Chloride	74.5	0.170	0.330	1.00	1	M	E300.0	1H18013	08/18/11 20:05
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1H22923	08/22/11 11:51
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H29005	08/29/11 10:35
14808-79-8	Sulfate as SO4	87.8	0.330	1.00	2.00	1		E300.0	1H18013	08/18/11 20:05

ANALYSIS DATA SHEET

GW0215

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 08/17/11 11:28
% Solids: 0.00

SDG: Kirtland_024
Project: Kirtland AFB 2011
Laboratory ID: 1108205-01
Received: 08/18/11 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1H25011	08/29/11 14:27
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	1H23530	08/23/11 17:53
10-09-3	Alkalinity, Bicarbonate (as CACO3)	116	1.00	1.00	1.00	1		SM2320B	1H31001	08/31/11 13:20
16887-00-6	Chloride	8.10	0.170	0.330	1.00	1	M	E300.0	1H26015	08/26/11 19:24
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1H22923	08/22/11 11:54
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H31001	08/31/11 13:20
14808-79-8	Sulfate as SO4	27.6	0.330	1.00	2.00	1		E300.0	1H26015	08/26/11 19:24

ANALYSIS DATA SHEET

GW0230

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 08/16/11 15:13
% Solids: 0.00

SDG: Kirtland_024
Project: Kirtland AFB 2011
Laboratory ID: 1108205-03
Received: 08/18/11 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1H25011	08/29/11 14:29
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	1H23530	08/23/11 17:54
10-09-3	Alkalinity, Bicarbonate (as CACO3)	134	1.00	1.00	1.00	1		SM2320B	1H29005	08/29/11 10:50
16887-00-6	Chloride	17.2	0.170	0.330	1.00	1	M	E300.0	1H26015	08/26/11 19:42
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1H22923	08/22/11 11:56
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H29005	08/29/11 10:50
14808-79-8	Sulfate as SO4	36.3	0.330	1.00	2.00	1		E300.0	1H26015	08/26/11 19:42

ANALYSIS DATA SHEET

GW0231

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 08/16/11 15:13
% Solids: 0.00

SDG: Kirtland_024
Project: Kirtland AFB 2011
Laboratory ID: 1108205-05
Received: 08/18/11 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1H25011	08/29/11 14:30
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	1H23530	08/23/11 17:55
10-09-3	Alkalinity, Bicarbonate (as CACO3)	136	1.00	1.00	1.00	1		SM2320B	1H29005	08/29/11 11:00
16887-00-6	Chloride	17.2	0.170	0.330	1.00	1	M	E300.0	1H26015	08/26/11 19:59
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1H22923	08/22/11 11:57
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H29005	08/29/11 11:00
14808-79-8	Sulfate as SO4	36.3	0.330	1.00	2.00	1		E300.0	1H26015	08/26/11 19:59

ANALYSIS DATA SHEET

GW0195

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1108210-01
Sampled:	08/17/11 16:09	Received:	08/19/11 08:30
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1H25011	08/29/11 14:32
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	1H23530	08/23/11 17:56
10-09-3	Alkalinity, Bicarbonate (as CACO3)	174	1.00	1.00	1.00	1		SM2320B	1H31001	08/31/11 13:35
16887-00-6	Chloride	13.0	0.170	0.330	1.00	1	M	E300.0	1H26015	08/26/11 20:16
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1H22923	08/22/11 12:00
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H31001	08/31/11 13:35
14808-79-8	Sulfate as SO4	29.8	0.330	1.00	2.00	1		E300.0	1H26015	08/26/11 20:16

ANALYSIS DATA SHEET

GW0232

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 08/17/11 14:49
% Solids: 0.00

SDG: Kirtland_024
Project: Kirtland AFB 2011
Laboratory ID: 1108210-03
Received: 08/19/11 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1H25011	08/29/11 14:33
18496-25-8	Sulfide		0.678	1.69	3.39	1	U	SM4500S2CF	1H23530	08/23/11 17:56
10-09-3	Alkalinity, Bicarbonate (as CACO3)	106	1.00	1.00	1.00	1		SM2320B	1H31001	08/31/11 13:50
16887-00-6	Chloride	7.79	0.170	0.330	1.00	1	M	E300.0	1H26015	08/26/11 20:34
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1H22923	08/22/11 12:01
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1H31001	08/31/11 13:50
14808-79-8	Sulfate as SO4	27.3	0.330	1.00	2.00	1		E300.0	1H26015	08/26/11 20:34

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

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

SDG: Kirtland_024
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_024
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

E353.2

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

SDG: Kirtland_024
Project: Kirtland AFB 2011
Calibration: 1234003
Sequence: 1H23407

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23407-ICV1	Nitrate/Nitrite as N	1.200	1.283	107	mg/L	+/- 10.00%
1H23407-CCV1	Nitrate/Nitrite as N	1.200	1.116	93.0	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

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

SDG: Kirtland_024
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1H23524

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H23524-CCV1	Chloride	25.00	23.73	94.9	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	23.39	93.5	mg/L	+/- 10.00%
1H23524-CCV2	Chloride	25.00	24.68	98.7	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.60	98.4	mg/L	+/- 10.00%
1H23524-CCV3	Chloride	25.00	24.60	98.4	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.69	98.8	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_024
Project: Kirtland AFB 2011
Calibration: 1221003
Sequence: 1H24113

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1H24113-ICV1	Ammonia as N	2.000	2.186	109	mg/L	+/- 10.00%
1H24113-CCV1	Ammonia as N	2.000	2.165	108	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

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

SDG: Kirtland_024
Project: Kirtland AFB 2011
Calibration: 1124002
Sequence: 1I24415

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1I24415-CCV1	Chloride	25.00	24.79	99.2	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.77	99.1	mg/L	+/- 10.00%
1I24415-CCV2	Chloride	25.00	24.96	99.9	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	24.87	99.5	mg/L	+/- 10.00%
1I24415-CCV3	Chloride	25.00	25.22	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.12	100	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_024

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_024

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	Chloride	1.000	0.9180	91.8	mg/L	75 - 125
	Sulfate as SO4	1.000	0.7950	79.5	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_024

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1124002

Sequence: 1I24415

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1I24415-CRL1	Chloride	1.000	0.8210	82.1	mg/L	75 - 125
	Sulfate as SO4	1.000	0.7760	77.6	mg/L	75 - 125

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
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_024
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_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H18013

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H18013-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
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H22923

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H22923-BLK1	Nitrate/Nitrite as N	-0.0284	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H23530

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23530-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H25011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H25011-BLK1	Ammonia as N	0.00196	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H26015

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H26015-BLK1	Chloride	-0.0500	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	-0.0970	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H29005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H29005-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1H31001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H31001-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
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_024
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
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1H23407
Calibration: 1234003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H23407-ICB1	Nitrate/Nitrite as N	-0.008391	0.0500	0.300	mg/L	U	E353.2
1H23407-CCB1	Nitrate/Nitrite as N	-0.0228	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
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	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
1H23524-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
1H23524-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
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1H24113
Calibration: 1221003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1H24113-ICB1	Ammonia as N	-0.01020	0.110	0.300	mg/L	U	SM4500NH3BG
1H24113-CCB1	Ammonia as N	-0.00957	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_024
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1I24415
Calibration: 1124002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1I24415-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
1I24415-CCB2	Chloride	-0.168	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1I24415-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

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E353.2

GW0232

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_024

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H22923

% Solids:

Source Sample Name: **1108210-03**

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	ND	2.436	97.4		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	2.507	100	2.87		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0215

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_024

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1H25011

% Solids:

Source Sample Name: **1108205-01**

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	4.905	98.1		75 - 125

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024
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_024
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.
Chloride	4.800	4.900	102	90 - 110
Sulfate as SO4	24.00	23.41	97.6	90 - 110

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H22923	Laboratory ID:	1H22923-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	33.10	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H23530	Laboratory ID:	1H23530-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	1217	101	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1200	1200	100	1.42	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H25011	Laboratory ID:	1H25011-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	4.847	96.9	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H26015	Laboratory ID:	1H26015-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.044	105	90 - 110
Sulfate as SO4	24.00	24.42	102	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H29005	Laboratory ID:	1H29005-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	1038	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1H31001	Laboratory ID:	1H31001-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	1007	101	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** Kirtland_024

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_024
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_024
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_024

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.
GW0173-R	1108174-01	08/16/11 12:18	5.00	5.00
GW0198	1108174-03	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

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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.
GW0173-R	1108174-01	08/17/11 11:03	295.00	200.00
GW0198	1108174-03	08/17/11 11:03	270.00	200.00
GW0197	1108181-01	08/17/11 11:03	295.00	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

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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.
GW0197	1108181-01	08/18/11 12:06	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

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H22923 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0173-R	1108174-01	08/22/11 09:34	4.00	20.00
GW0198	1108174-03	08/22/11 09:34	4.00	20.00
GW0197	1108181-01	08/22/11 09:34	4.00	20.00
GW0215	1108205-01	08/22/11 09:34	4.00	20.00
GW0230	1108205-03	08/22/11 09:34	4.00	20.00
GW0231	1108205-05	08/22/11 09:34	4.00	20.00
GW0195	1108210-01	08/22/11 09:34	4.00	20.00
GW0232	1108210-03	08/22/11 09:34	4.00	20.00
Blank	1H22923-BLK1	08/22/11 09:34	20.00	20.00
LCS	1H22923-BS1	08/22/11 09:34	1.00	20.00
GW0232	1H22923-MS1	08/22/11 09:34	4.00	20.00
GW0232	1H22923-MSD1	08/22/11 09:34	4.00	20.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H23530 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0215	1108205-01	08/23/11 16:14	295.00	200.00
GW0230	1108205-03	08/23/11 16:14	295.00	200.00
GW0231	1108205-05	08/23/11 16:14	295.00	200.00
GW0195	1108210-01	08/23/11 16:14	295.00	200.00
GW0232	1108210-03	08/23/11 16:14	295.00	200.00
Blank	1H23530-BLK1	08/23/11 16:14	250.00	200.00
LCS	1H23530-BS1	08/23/11 16:14	3.00	250.00
LCS Dup	1H23530-BSD1	08/23/11 16:14	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H25011 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0173-R	1108174-01	08/25/11 08:51	100.00	100.00
GW0198	1108174-03	08/25/11 08:51	100.00	100.00
GW0197	1108181-01	08/25/11 08:51	100.00	100.00
GW0215	1108205-01	08/25/11 08:51	100.00	100.00
GW0230	1108205-03	08/25/11 08:51	100.00	100.00
GW0231	1108205-05	08/25/11 08:51	100.00	100.00
GW0195	1108210-01	08/25/11 08:51	100.00	100.00
GW0232	1108210-03	08/25/11 08:51	100.00	100.00
Blank	1H25011-BLK1	08/25/11 08:51	100.00	100.00
LCS	1H25011-BS1	08/25/11 08:51	100.00	100.00
GW0215	1H25011-MS1	08/25/11 08:51	100.00	100.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H26015 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0215	1108205-01	08/26/11 12:21	5.00	5.00
GW0230	1108205-03	08/26/11 12:21	5.00	5.00
GW0231	1108205-05	08/26/11 12:21	5.00	5.00
GW0195	1108210-01	08/26/11 12:21	5.00	5.00
GW0232	1108210-03	08/26/11 12:21	5.00	5.00
Blank	1H26015-BLK1	08/26/11 12:21	5.00	5.00
LCS	1H26015-BS1	08/26/11 12:21	5.00	5.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H29005 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0173-R	1108174-01	08/29/11 08:22	25.00	25.00
GW0198	1108174-03	08/29/11 08:22	25.00	25.00
GW0197	1108181-01	08/29/11 08:22	25.00	25.00
GW0230	1108205-03	08/29/11 08:22	25.00	25.00
GW0231	1108205-05	08/29/11 08:22	25.00	25.00
Blank	1H29005-BLK1	08/29/11 08:22	25.00	25.00
LCS	1H29005-BS1	08/29/11 08:22	5.00	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_024

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

Batch: 1H31001 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0215	1108205-01	08/31/11 07:28	25.00	25.00
GW0195	1108210-01	08/31/11 07:28	25.00	25.00
GW0232	1108210-03	08/31/11 07:28	25.00	25.00
Blank	1H31001-BLK1	08/31/11 07:28	25.00	25.00
LCS	1H31001-BS1	08/31/11 07:28	5.00	25.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_024

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1H29005-BS1	082911-003	08/29/11 10:00
Blank	1H29005-BLK1	082911-004	08/29/11 10:07
LCS	1H31001-BS1	083111A-003	08/31/11 12:20
Blank	1H31001-BLK1	083111A-004	08/31/11 12:30

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_024

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1H17008-BS1	081711-002	08/17/11 12:25
Blank	1H17008-BLK1	081711-003	08/17/11 12:26
LCS	1H23530-BS1	082311-002	08/23/11 17:48
LCS Dup	1H23530-BSD1	082311-003	08/23/11 17:49
Blank	1H23530-BLK1	082311-004	08/23/11 17:50

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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_024
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
Calibration Check	1H23005-CCV2	081611-018	08/16/11 18:59
Calibration Blank	1H23005-CCB2	081611-019	08/16/11 19:17
GW0173-R	1108174-01	081611-023	08/16/11 20:27
GW0198	1108174-03	081611-024	08/16/11 20:44
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

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H23407	Instrument:	WC-Lachat
Calibration:	1234003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H23407-CAL1	M_8-22-2011_11-29-00AM-00	08/22/11 11:30
Cal Standard	1H23407-CAL2	M_8-22-2011_11-29-00AM-00	08/22/11 11:31
Cal Standard	1H23407-CAL3	M_8-22-2011_11-29-00AM-00	08/22/11 11:32
Cal Standard	1H23407-CAL4	M_8-22-2011_11-29-00AM-00	08/22/11 11:34
Cal Standard	1H23407-CAL5	M_8-22-2011_11-29-00AM-00	08/22/11 11:35
Cal Standard	1H23407-CAL6	M_8-22-2011_11-29-00AM-00	08/22/11 11:37
Cal Standard	1H23407-CAL7	M_8-22-2011_11-29-00AM-00	08/22/11 11:38
Cal Standard	1H23407-CAL8	M_8-22-2011_11-29-00AM-00	08/22/11 11:40
Initial Cal Check	1H23407-ICV1	M_8-22-2011_11-29-00AM-00	08/22/11 11:41
Initial Cal Blank	1H23407-ICB1	M_8-22-2011_11-29-00AM-01	08/22/11 11:43
Blank	1H22923-BLK1	M_8-22-2011_11-29-00AM-01	08/22/11 11:45
LCS	1H22923-BS1	M_8-22-2011_11-29-00AM-01	08/22/11 11:47
GW0173-R	1108174-01	M_8-22-2011_11-29-00AM-01	08/22/11 11:48
GW0198	1108174-03	M_8-22-2011_11-29-00AM-01	08/22/11 11:50
GW0197	1108181-01	M_8-22-2011_11-29-00AM-01	08/22/11 11:51
GW0215	1108205-01	M_8-22-2011_11-29-00AM-01	08/22/11 11:54
GW0230	1108205-03	M_8-22-2011_11-29-00AM-01	08/22/11 11:56
GW0231	1108205-05	M_8-22-2011_11-29-00AM-02	08/22/11 11:57
GW0195	1108210-01	M_8-22-2011_11-29-00AM-02	08/22/11 12:00
GW0232	1108210-03	M_8-22-2011_11-29-00AM-02	08/22/11 12:01
GW0232	1H22923-MS1	M_8-22-2011_11-29-00AM-02	08/22/11 12:03
GW0232	1H22923-MSD1	M_8-22-2011_11-29-00AM-02	08/22/11 12:04
Calibration Check	1H23407-CCV1	M_8-22-2011_11-29-00AM-02	08/22/11 12:06
Calibration Blank	1H23407-CCB1	M_8-22-2011_11-29-00AM-02	08/22/11 12:07

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
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
GW0197	1108181-01	081811-025	08/18/11 20:05
Calibration Check	1H23524-CCV3	081811-028	08/18/11 20:57
Calibration Blank	1H23524-CCB3	081811-029	08/18/11 21:15

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1H24113	Instrument:	WC-Lachat
Calibration:	1221003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1H24113-CAL1	M_8-29-2011_02-11-34PM-00	08/29/11 14:12
Cal Standard	1H24113-CAL2	M_8-29-2011_02-11-34PM-00	08/29/11 14:13
Cal Standard	1H24113-CAL3	M_8-29-2011_02-11-34PM-00	08/29/11 14:14
Cal Standard	1H24113-CAL4	M_8-29-2011_02-11-34PM-00	08/29/11 14:15
Cal Standard	1H24113-CAL5	M_8-29-2011_02-11-34PM-00	08/29/11 14:16
Cal Standard	1H24113-CAL6	M_8-29-2011_02-11-34PM-00	08/29/11 14:17
Cal Standard	1H24113-CAL7	M_8-29-2011_02-11-34PM-00	08/29/11 14:18
Cal Standard	1H24113-CAL8	M_8-29-2011_02-11-34PM-00	08/29/11 14:19
Initial Cal Check	1H24113-ICV1	M_8-29-2011_02-11-34PM-00	08/29/11 14:20
Initial Cal Blank	1H24113-ICB1	M_8-29-2011_02-11-34PM-01	08/29/11 14:21
Blank	1H25011-BLK1	M_8-29-2011_02-11-34PM-01	08/29/11 14:22
LCS	1H25011-BS1	M_8-29-2011_02-11-34PM-01	08/29/11 14:23
GW0173-R	1108174-01	M_8-29-2011_02-11-34PM-01	08/29/11 14:24
GW0198	1108174-03	M_8-29-2011_02-11-34PM-01	08/29/11 14:25
GW0197	1108181-01	M_8-29-2011_02-11-34PM-01	08/29/11 14:26
GW0215	1108205-01	M_8-29-2011_02-11-34PM-01	08/29/11 14:27
GW0215	1H25011-MS1	M_8-29-2011_02-11-34PM-01	08/29/11 14:28
GW0230	1108205-03	M_8-29-2011_02-11-34PM-01	08/29/11 14:29
GW0231	1108205-05	M_8-29-2011_02-11-34PM-01	08/29/11 14:30
GW0195	1108210-01	M_8-29-2011_02-11-34PM-02	08/29/11 14:32
GW0232	1108210-03	M_8-29-2011_02-11-34PM-02	08/29/11 14:33
Calibration Check	1H24113-CCV1	M_8-29-2011_02-11-34PM-02	08/29/11 14:34
Calibration Blank	1H24113-CCB1	M_8-29-2011_02-11-34PM-02	08/29/11 14:35

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_024
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I24415	Instrument:	WC-IC
Calibration:	1124002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1I24415-CCV1	082611-002	08/26/11 14:11
Calibration Blank	1I24415-CCB1	082611-003	08/26/11 14:28
Instrument RL Check	1I24415-CRL1	082611-004	08/26/11 14:45
LCS	1H26015-BS1	082611-006	08/26/11 15:20
Blank	1H26015-BLK1	082611-007	08/26/11 15:38
Calibration Check	1I24415-CCV2	082611-018	08/26/11 18:49
Calibration Blank	1I24415-CCB2	082611-019	08/26/11 19:07
GW0215	1108205-01	082611-020	08/26/11 19:24
GW0230	1108205-03	082611-021	08/26/11 19:42
GW0231	1108205-05	082611-022	08/26/11 19:59
GW0195	1108210-01	082611-023	08/26/11 20:16
GW0232	1108210-03	082611-024	08/26/11 20:34
Calibration Check	1I24415-CCV3	082611-030	08/26/11 22:18
Calibration Blank	1I24415-CCB3	082611-031	08/26/11 22:36