ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_039

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

SUBMITTAL TO:
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THIS DOCUMENT MEETS DoD QSM 4.2 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

Revision 01: The package was revised to remove the positive results for samples 1112117-01RE1 and -03RE1 for 2-Methylphenol.
Revision 02: Due to an internal evaluation, the laboratory discovered a calculation error with the Final Result for EDB that was previously reported. The Initial and Final volumes were reversed in the entry into LIMS causing the change in the Final Results that were reported on the Data Package and the EDD. This error affected all Detection Limits and the positive results reported. Each sample within this SDG with a positive result, is listed below with the original and the new Final Result.

Client ID	Original Result	Revised Result
GW0259	71.3 ug/L	63.8 ug/L
GW0260	1.54 ug/L	1.36 ug/L
GW0273	0.391 ug/L	0.345 ug/L
GW0320	5.84 ug/L	5.26 ug/L
GW0326	0.247 ug/L	0.217 ug/L
GW0334	125 ug/L	110 ug/L
GW0264	141 ug/L	126 ug/L
GW0265	148 ug/L	129 ug/L
GW0276	0.167 ug/L	0.150 ug/L

Analytical Information

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

Chromatographic Flags for Manual Integration:

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

A: The peak was manually integrated as it was not integrated in the original chromatogram.

B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The method blanks 1L14009-BLK1, 1L15008-BLK1, 1L19009-BLK1, and 1L20009-BLK1 have positive results for Hexachlorobutadiene.

The continuing calibration verifications exceeded criteria in 1L34906-CCV1 with a negative bias for Bromomethane and with a positive bias for Acetone, in 1L35002-CCV1 with a positive bias for Acetone, and in 1L35401-CCV1 and 1L35502-CCV1 with a negative bias for Chloromethane.

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

SW8270C BNA:
All surrogates were diluted out in samples 1112109-05RE1, 1112117-01RE1, and -03RE1.

The batch spikes associated to batch 1L15003 exceeded recovery criteria with a negative bias for Caprolactam and a positive bias for Butylbenzylphthalate, 4,6-Dinitro-2-methylphenol, Di-n-octylphthalate, 2-Nitroaniline, and 2-Nitrophenol. The batch spikes associated to batch 1L16001 exceeded recovery criteria with a negative bias for Caprolactam and 2-Methylphenol.

The internal standard Perylene-d12 exceeded criteria with a negative bias in 1112084-01 and 1112117-03RE1 and with a positive bias in 1L16001-BS1. Sample 1112117-03RE1 was analyzed to dilute for Acetophenone which is not a compound associated to Perylene-d12. Sample 1112084-01 was analyzed at a 1x but due to matrix, the surrogates and internals were affected. Sample 1112084-01 was then re-analyzed as a 10x with Perylene-d12 low. Only the 10x was provided in the report.

The initial calibration verification 1L35407-ICV2 exceeded criteria with a positive bias for Benzidine.

The continuing calibration verifications exceeded criteria in 1L35703-CCV1 with a positive bias for Benzidine, Benzoic Acid, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, Di-n-octylphthalate, Hexachlorocyclopentadiene, 2-Nitroaniline, and 2-Nitrophenol and with a negative bias for Benzaldehyde, in 1L36207-CCV1 with a positive bias for Benzidine, Benzoic Acid, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, Hexachlorocyclopentadiene, and 2-Nitrophenol and with a negative bias for

Benzaldehyde, in 1L36407-CCV1 CCV1 with a positive bias for Benzidine, Butylbenzylphthalate, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, Di-n-octylphthalate, Bis(2-ethylhexyl)phthalate, Hexachlorocyclopentadiene, Hexachloroethane, 2-Nitroaniline, 2-Nitrophenol, and Pyrene and with a negative bias for Benzaldehyde, in 1L36501-CCV1 with a positive bias for Benzidine, Benzoic Acid, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, Di-n-octylphthalate, Hexachlorocyclopentadiene, Hexachloroethane, Nitrobenzene, and 2-Nitrophenol and with a negative bias for Benzaldehyde, and in 2A00411-CCV1 with a positive bias for Benzidine, Benzo(b)fluoranthene, Benzoic Acid, 3,3'-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, Hexachlorocyclopentadiene, Hexachloroethane, 3-Nitroaniline, 2-Nitroaniline, 4-Nitrophenol, and 2-Nitrophenol and with a negative bias for Benzaldehyde.

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

SW8015B GRO:
The continuing calibration verifications exceeded criteria in 1L36405-CCV1, 1L36406-CCV2, 2A00405-CCV1, and –CCV2 with a negative bias for Bromofluorobenzene and 1L36405-CCV2 exceeded criteria with a positive bias for Gasoline Range Organics.

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

SW8015B DRO:
The batch spike associated to batch 1L13004 exceeded recovery criteria with a negative bias and exceeded relative percent difference criteria for Diesel Range Organics. Associated samples 1112084-01 and -03 were re-extracted; however, were not able to be re-extracted within the method recommended holding time. Both are included in the report.

The surrogate o-Terphenyl exceeded the retention time window in 1112091-03 and 1112109-01. 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:
No anomalies or deviations are noted.

SW6010B:
The continuing calibration verifications exceeded criteria in 1L36302-CCV6 with a positive bias for Iron and in 2A00605-CCV2 with a negative bias for Sodium.

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

been applied.

Wet Chemistry:
No anomalies or deviations are noted.

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 4.2 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 4.2 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 4.2 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 or an approved technical designee 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

1112084

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW149

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

Samples Shipment Date: 12 DEC 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306616387

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

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

Special Instructions:

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

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

1. Relinquished By (Signature/Affiliation) Shaw — Date: 12-12-11 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: 12/12/11 Time: 0:5

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	GW0259	KAFB-106005-WG-GW0259-REG	12 DEC 2011	14:27	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0259	KAFB-106005-WG-GW0259-REG	12 DEC 2011	14:27	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0259	KAFB-106005-WG-GW0259-REG	12 DEC 2011	14:27	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0259	KAFB-106005-WG-GW0259-REG	12 DEC 2011	14:27	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
02	GW0259	KAFB-106005-WG-GW0259-REG	12 DEC 2011	14:27	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
01	GW0259	KAFB-106005-WG-GW0259-REG	12 DEC 2011	14:27	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0259	KAFB-106005-WG-GW0259-REG	12 DEC 2011	14:27	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		

Kirtland_039 Summ Package

1112084

Shaw™
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW149

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0259	KAFB-106005-WG-GW0259-REG	12 DEC 2011	14:27	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0259	KAFB-106005-WG-GW0259-REG	12 DEC 2011	14:27	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0259	KAFB-106005-WG-GW0259-REG	12 DEC 2011	14:27	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
03	GW0260	KAFB-106006-WG-GW0260-REG	12 DEC 2011	10:34	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0260	KAFB-106006-WG-GW0260-REG	12 DEC 2011	10:34	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0260	KAFB-106006-WG-GW0260-REG	12 DEC 2011	10:34	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0260	KAFB-106006-WG-GW0260-REG	12 DEC 2011	10:34	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0260	KAFB-106006-WG-GW0260-REG	12 DEC 2011	10:34	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
04	GW0260	KAFB-106006-WG-GW0260-REG	12 DEC 2011	10:34	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0260	KAFB-106006-WG-GW0260-REG	12 DEC 2011	10:34	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0260	KAFB-106006-WG-GW0260-REG	12 DEC 2011	10:34	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0260	KAFB-106006-WG-GW0260-REG	12 DEC 2011	10:34	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0260	KAFB-106006-WG-GW0260-REG	12 DEC 2011	10:34	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
05	GW8149-TB	FIELDQC-BW-GW8149-TB-TB	12 DEC 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

Cooler Received/Opened On_ 12/13/11 @ 0815

1112084

1. Tracking #_____6387_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 0.0 Degrees Celsius + correction factor 0.0 = 0.0

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES ...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # ___

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

"GW0259" HAD 1 VOA BROKEN IN SHIPMENT

"GW0260" HAD 1 VOA BROKEN IN SHIPMENT

PLENTY OF VOLUME LEFT TO RUN ALL ANALYSIS.

Shaw
Shaw E & I, Inc.

1112091

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW150

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

Samples Shipment Date: 13 DEC 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306616398

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

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

Special Instructions:

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

1. Relinquished By (Signature/Affiliation) [signature] Shaw — Date: 12/13/11 Time: 1600
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

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

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) [signature] — Date: 12/14/11 Time: 0805

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 GW0255	KAFB3411-WG-GW0255-REG	13 DEC 2011	10:31	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0255	KAFB3411-WG-GW0255-REG	13 DEC 2011	10:31	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0255	KAFB3411-WG-GW0255-REG	13 DEC 2011	10:31	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0255	KAFB3411-WG-GW0255-REG	13 DEC 2011	10:31	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0255	KAFB3411-WG-GW0255-REG	13 DEC 2011	10:31	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0255	KAFB3411-WG-GW0255-REG	13 DEC 2011	10:31	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		

Kirtland_039 Summ Package

Shaw
Shaw E & I, Inc.

11/2009

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW150

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0255	KAFB3411-WG-GW0255-REG	13 DEC 2011	10:31	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0255	KAFB3411-WG-GW0255-REG	13 DEC 2011	10:31	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0255	KAFB3411-WG-GW0255-REG	13 DEC 2011	10:31	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
02	GW0255	KAFB3411-WG-GW0255-REG	13 DEC 2011	10:31	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0273	KAFB-106019-WG-GW0273-REG	13 DEC 2011	13:48	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0273	KAFB-106019-WG-GW0273-REG	13 DEC 2011	13:48	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0273	KAFB-106019-WG-GW0273-REG	13 DEC 2011	13:48	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0273	KAFB-106019-WG-GW0273-REG	13 DEC 2011	13:48	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0273	KAFB-106019-WG-GW0273-REG	13 DEC 2011	13:48	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
04	GW0273	KAFB-106019-WG-GW0273-REG	13 DEC 2011	13:48	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0273	KAFB-106019-WG-GW0273-REG	13 DEC 2011	13:48	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0273	KAFB-106019-WG-GW0273-REG	13 DEC 2011	13:48	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0273	KAFB-106019-WG-GW0273-REG	13 DEC 2011	13:48	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0273	KAFB-106019-WG-GW0273-REG	13 DEC 2011	13:48	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
06	GW8036-AB	FIELDQC-BW-GW8036-AB-FB	13 DEC 2011	10:31	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		
05	GW8150-TB	FIELDQC-BW-GW8150-TB-TB	13 DEC 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

1112091

Cooler Received/Opened On_ 12/14/11 @ 0815

1. Tracking #_____6402_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.1 *Degrees Celsius + correction factor 0.0* = 1.1

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (intial) RGT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RGT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

Cooler Received/Opened On_ 12/14/11 @ 0815

1. Tracking #_____6398_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.1 *Degrees Celsius + correction factor 0.0* = 2.1

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 2

I certify that I unloaded the cooler and answered questions 7-14 (intial) KG

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) KG

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

Shaw
Shaw E & I, Inc.

1112109

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW151

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

Samples Shipment Date: 15 DEC 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306616413

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) Date: 12/15/11 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: Time:

Comments:

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
Ø1	GW0320	KAFB-106064-WG-GW0320-REG	15 DEC 2011	11:08	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0320	KAFB-106064-WG-GW0320-REG	15 DEC 2011	11:08	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0320	KAFB-106064-WG-GW0320-REG	15 DEC 2011	11:08	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0320	KAFB-106064-WG-GW0320-REG	15 DEC 2011	11:08	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
Ø2	GW0320	KAFB-106064-WG-GW0320-REG	15 DEC 2011	11:08	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
Ø1	GW0320	KAFB-106064-WG-GW0320-REG	15 DEC 2011	11:08	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0320	KAFB-106064-WG-GW0320-REG	15 DEC 2011	11:08	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		

Shaw™
Shaw E & I, Inc.

1112109

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW151

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
01	GW0320	KAFB-106064-WG-GW0320-REG	15 DEC 2011	11:08	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0320	KAFB-106064-WG-GW0320-REG	15 DEC 2011	11:08	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0320	KAFB-106064-WG-GW0320-REG	15 DEC 2011	11:08	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
03	GW0326	KAFB-106069-WG-GW0326-REG	14 DEC 2011	11:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0326	KAFB-106069-WG-GW0326-REG	14 DEC 2011	11:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0326	KAFB-106069-WG-GW0326-REG	14 DEC 2011	11:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0326	KAFB-106069-WG-GW0326-REG	14 DEC 2011	11:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0326	KAFB-106069-WG-GW0326-REG	14 DEC 2011	11:45	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0326	KAFB-106069-WG-GW0326-REG	14 DEC 2011	11:45	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0326	KAFB-106069-WG-GW0326-REG	14 DEC 2011	11:45	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0326	KAFB-106069-WG-GW0326-REG	14 DEC 2011	11:45	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0326	KAFB-106069-WG-GW0326-REG	14 DEC 2011	11:45	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
04	GW0326	KAFB-106069-WG-GW0326-REG	14 DEC 2011	11:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0334	KAFB-106076-WG-GW0334-REG	14 DEC 2011	15:48	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0334	KAFB-106076-WG-GW0334-REG	14 DEC 2011	15:48	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0334	KAFB-106076-WG-GW0334-REG	14 DEC 2011	15:48	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0334	KAFB-106076-WG-GW0334-REG	14 DEC 2011	15:48	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0334	KAFB-106076-WG-GW0334-REG	14 DEC 2011	15:48	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
06	GW0334	KAFB-106076-WG-GW0334-REG	14 DEC 2011	15:48	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0334	KAFB-106076-WG-GW0334-REG	14 DEC 2011	15:48	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0334	KAFB-106076-WG-GW0334-REG	14 DEC 2011	15:48	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0334	KAFB-106076-WG-GW0334-REG	14 DEC 2011	15:48	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
	GW0334	KAFB-106076-WG-GW0334-REG	14 DEC 2011	15:48	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
07	GW8151-TB	FIELDQC-BW-GW8151-TB-TB	14 DEC 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

1/12/09

Cooler Received/Opened On_ 12/16/11 @ 0815

1. Tracking #_6424_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 2.4 *Degrees Celsius + correction factor* 0.0 = 2.4

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RGT

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (intial) RGT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RGT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) [illegible]

I certify that I attached a label with the unique LIMS number to each container (intial) [illegible]

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

1112109

Cooler Received/Opened On_ 12/16/11 @ 0815

1. Tracking # 6413 (last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.0 Degrees Celsius + correction factor 0.0 = 1.0

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) RCT

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 2

I certify that I unloaded the cooler and answered questions 7-14 (intial) RCT

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) RCT

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) [illegible]

I certify that I attached a label with the unique LIMS number to each container (intial) [illegible]

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

Shaw
Shaw E & I, Inc.

11/2117

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW152

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

Samples Shipment Date: 16 DEC 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/488306616435

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: 12/16/11 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: 12/17/11 Time: 0820

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0264	KAFB-106010-WG-GW0264-REG	15 DEC 2011	16:13	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0264	KAFB-106010-WG-GW0264-REG	15 DEC 2011	16:13	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0264	KAFB-106010-WG-GW0264-REG	15 DEC 2011	16:13	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0264	KAFB-106010-WG-GW0264-REG	15 DEC 2011	16:13	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0264	KAFB-106010-WG-GW0264-REG	15 DEC 2011	16:13	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
GW0264	KAFB-106010-WG-GW0264-REG	15 DEC 2011	16:13	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
GW0264	KAFB-106010-WG-GW0264-REG	15 DEC 2011	16:13	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0264	KAFB-106010-WG-GW0264-REG	15 DEC 2011	16:13	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300,			N		

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1112117

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW152

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
								Alkalinity by SM2320B					
02	GW0264	KAFB-106010-WG-GW0264-REG	15 DEC 2011	16:13	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
01	GW0264	KAFB-106010-WG-GW0264-REG	15 DEC 2011	16:13	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
03	GW0265	KAFB-106010-WG-GW0265-FD	15 DEC 2011	16:13	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0265	KAFB-106010-WG-GW0265-FD	15 DEC 2011	16:13	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0265	KAFB-106010-WG-GW0265-FD	15 DEC 2011	16:13	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
04	GW0265	KAFB-106010-WG-GW0265-FD	15 DEC 2011	16:13	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
03	GW0265	KAFB-106010-WG-GW0265-FD	15 DEC 2011	16:13	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0265	KAFB-106010-WG-GW0265-FD	15 DEC 2011	16:13	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0265	KAFB-106010-WG-GW0265-FD	15 DEC 2011	16:13	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0265	KAFB-106010-WG-GW0265-FD	15 DEC 2011	16:13	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0265	KAFB-106010-WG-GW0265-FD	15 DEC 2011	16:13	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0265	KAFB-106010-WG-GW0265-FD	15 DEC 2011	16:13	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
05	GW0276	KAFB-106021-WG-GW0276-REG	16 DEC 2011	14:02	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0276	KAFB-106021-WG-GW0276-REG	16 DEC 2011	14:02	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0276	KAFB-106021-WG-GW0276-REG	16 DEC 2011	14:02	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0276	KAFB-106021-WG-GW0276-REG	16 DEC 2011	14:02	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
06	GW0276	KAFB-106021-WG-GW0276-REG	16 DEC 2011	14:02	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
05	GW0276	KAFB-106021-WG-GW0276-REG	16 DEC 2011	14:02	250 mL HDPE	1	H2SO4<pH 2	Nitrate plus Nitrite by EPA 353.2, Ammonia by SM4500B			N		
	GW0276	KAFB-106021-WG-GW0276-REG	16 DEC 2011	14:02	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
	GW0276	KAFB-106021-WG-GW0276-REG	16 DEC 2011	14:02	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0276	KAFB-106021-WG-GW0276-REG	16 DEC 2011	14:02	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0276	KAFB-106021-WG-GW0276-REG	16 DEC 2011	14:02	250 mL HDPE	1	None except cool to 4 C	Chloride and Sulfate by EPA 300, Alkalinity by SM2320B			N		
07	GW8034-RB	FIELDQC-BW-GW8034-RB-ER	16 DEC 2011	09:22	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW8034-RB	FIELDQC-BW-GW8034-RB-ER	16 DEC 2011	09:22	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW8034-RB	FIELDQC-BW-GW8034-RB-ER	16 DEC 2011	09:22	1 L Amb. Glass	1	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		

1112117

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW152

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
07	GW8034-RB	FIELDQC-BW-GW8034-RB-ER	16 DEC 2011	09:22	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
08	GW8034-RB	FIELDQC-BW-GW8034-RB-ER	16 DEC 2011	09:22	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
07	GW8034-RB	FIELDQC-BW-GW8034-RB-ER	16 DEC 2011	09:22	1 L Amb. Glass	2	None except cool to 4 C	SVOCs by SW846 8270D			N		
09	GW8152-TB	FIELDQC-BW-GW8152-TB-TB	16 DEC 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

12/12/11

1112117

Cooler Received/Opened On 12/17/11 @ 0820

1. Tracking # 6446 (last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.6 *Degrees Celsius + correction factor 0.0* = 3.6

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

1112/17

Cooler Received/Opened On_ 12/17/11 @ 0820

1. Tracking #_____6457_____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.9 Degrees Celsius + correction factor 0.0 = 3.9

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES ...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES ...NO... and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 2

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

11/21/7

Cooler Received/Opened On_ 12/17/11 @ 0820

1. Tracking #_____ 64365 _____(last 4 digits, FedEx)

Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 1.2 *Degrees Celsius + correction factor 0.0* = 1.2

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES ...NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1-FRONT

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used: Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 3

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCR generated? YES...NO...#_____

Additional Details:

WORK ORDER

1112084

Printed: 1/12/2012 2:47:44PM

Empirical Laboratories, LLC

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

Project Manager: **Jennifer Chandler**
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: 01/06/2012 16:00 (15 day TAT)

Received By: Benjamin C. Wright

Logged In By: Benjamin C. Wright

Date Received: 12/13/2011 08:15

Date Logged In 12/13/2011 11:14

Samples Received at: **0°C**

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

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1112084

Printed: 1/12/2012 2:47:44PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1112084-01 GW0259 [Water] Sampled 12/12/2011 14:27 Mountain					
E300.0	01/03/2012 14:00	15	01/09/2012 15:27		Cl, SO4
SW8015B DRO	01/03/2012 14:00	15	12/19/2011 15:27		
SW8011	01/03/2012 14:00	15	12/26/2011 15:27		
SW8015B GRO	01/03/2012 14:00	15	12/26/2011 15:27		
SW8260B	01/03/2012 14:00	15	12/26/2011 15:27		
SW6010B	01/03/2012 14:00	15	06/09/2012 15:27		Ca, Pb, K, Na, Mg
SM4500NH3BG	01/03/2012 14:00	15	01/09/2012 15:27		
E353.2	01/03/2012 14:00	15	01/09/2012 15:27		
SM4500S2CF	01/03/2012 14:00	15	12/19/2011 15:27		
SW8270C	01/03/2012 14:00	15	12/19/2011 15:27		requires 3-Methlphenol/4-Methylphenol
SM2320B	01/03/2012 14:00	15	12/26/2011 15:27		carb/bicarb
1112084-02 GW0259 [Water] Sampled 12/12/2011 14:27 Mountain					
SW6010B	01/03/2012 14:00	15	06/09/2012 15:27		Fe & Mn

WORK ORDER

1112084

Printed: 1/12/2012 2:47:44PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1112084-03 GW0260 [Water] Sampled 12/12/2011 10:34 Mountain					
SW8260B	01/03/2012 14:00	15	12/26/2011 11:34		
SM4500NH3BG	01/03/2012 14:00	15	01/09/2012 11:34		
SW6010B	01/03/2012 14:00	15	06/09/2012 11:34		Ca, Pb, K, Na, Mg
SW8015B DRO	01/03/2012 14:00	15	12/19/2011 11:34		
SW8011	01/03/2012 14:00	15	12/26/2011 11:34		
SW8015B GRO	01/03/2012 14:00	15	12/26/2011 11:34		
SM2320B	01/03/2012 14:00	15	12/26/2011 11:34		carb/bicarb
SW8270C	01/03/2012 14:00	15	12/19/2011 11:34		requires 3-Methlphenol/4-Methylphenol
SM4500S2CF	01/03/2012 14:00	15	12/19/2011 11:34		
E353.2	01/03/2012 14:00	15	01/09/2012 11:34		
E300.0	01/03/2012 14:00	15	01/09/2012 11:34		Cl, SO4
1112084-04 GW0260 [Water] Sampled 12/12/2011 10:34 Mountain					
SW6010B	01/03/2012 14:00	15	06/09/2012 11:34		Fe & Mn
1112084-05 GW8149-TB [Water] Sampled 12/12/2011 08:00 Mountain					
SW8260B	01/03/2012 14:00	15	12/26/2011 09:00		

WORK ORDER

1112091

Printed: 1/12/2012 2:48:40PM

Empirical Laboratories, LLC

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

Project Manager: **Jennifer Chandler**
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: 01/09/2012 16:00 (15 day TAT)

Received By: Benjamin C. Wright

Logged In By: Benjamin C. Wright

Date Received: 12/14/2011 08:15

Date Logged In 12/14/2011 09:39

Samples Received at: **1.1°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

1112091

Printed: 1/12/2012 2:48:40PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1112091-01 GW0255 [Water] Sampled 12/13/2011 10:31 Mountain					
E353.2	01/04/2012 14:00	15	01/10/2012 11:31		
SW8015B DRO	01/04/2012 14:00	15	12/20/2011 11:31		
SW8011	01/04/2012 14:00	15	12/27/2011 11:31		
SW8015B GRO	01/04/2012 14:00	15	12/27/2011 11:31		
SW8260B	01/04/2012 14:00	15	12/27/2011 11:31		
SM2320B	01/04/2012 14:00	15	12/27/2011 11:31		carb/bicarb
SW6010B	01/04/2012 14:00	15	06/10/2012 11:31		Ca, Pb, K, Na, Mg
E300.0	01/04/2012 14:00	15	01/10/2012 11:31		Cl, SO4
SM4500S2CF	01/04/2012 14:00	15	12/20/2011 11:31		
SW8270C	01/04/2012 14:00	15	12/20/2011 11:31		requires 3-Methlphenol/4-Methylphenol
SM4500NH3BG	01/04/2012 14:00	15	01/10/2012 11:31		
1112091-02 GW0255 [Water] Sampled 12/13/2011 10:31 Mountain					**Field Filtered**
SW6010B	01/04/2012 14:00	15	06/10/2012 11:31		Fe & Mn

WORK ORDER

1112091

Printed: 1/12/2012 2:48:40PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1112091-03 GW0273 [Water] Sampled 12/13/2011 13:48 Mountain					
SM2320B	01/04/2012 14:00	15	12/27/2011 14:48		carb/bicarb
E300.0	01/04/2012 14:00	15	01/10/2012 14:48		Cl, SO4
SM4500S2CF	01/04/2012 14:00	15	12/20/2011 14:48		
SW8270C	01/04/2012 14:00	15	12/20/2011 14:48		requires 3-Methlphenol/4-Methylphenol
SM4500NH3BG	01/04/2012 14:00	15	01/10/2012 14:48		
SW8260B	01/04/2012 14:00	15	12/27/2011 14:48		
SW8015B GRO	01/04/2012 14:00	15	12/27/2011 14:48		
SW8011	01/04/2012 14:00	15	12/27/2011 14:48		
SW8015B DRO	01/04/2012 14:00	15	12/20/2011 14:48		
E353.2	01/04/2012 14:00	15	01/10/2012 14:48		
SW6010B	01/04/2012 14:00	15	06/10/2012 14:48		Ca, Pb, K, Na, Mg
1112091-04 GW0273 [Water] Sampled 12/13/2011 13:48 Mountain					**Field Filtered**
SW6010B	01/04/2012 14:00	15	06/10/2012 14:48		Fe & Mn
1112091-05 GW8150-TB [Water] Sampled 12/13/2011 08:00 Mountain					
SW8260B	01/04/2012 14:00	15	12/27/2011 09:00		
1112091-06 GW8036-AB [Water] Sampled 12/13/2011 10:31 Mountain					
SW8260B	01/04/2012 14:00	15	12/27/2011 11:31		

WORK ORDER

1112109

Printed: 1/12/2012 2:49:34PM

Empirical Laboratories, LLC

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

Project Manager: **Jennifer Chandler**
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: 01/11/2012 16:00 (15 day TAT)

Received By: Benjamin C. Wright

Logged In By: Benjamin C. Wright

Date Received: 12/16/2011 08:15

Date Logged In 12/16/2011 09:34

Samples Received at: **1°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

1112109

Printed: 1/12/2012 2:49:34PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1112109-01 GW0320 [Water] Sampled 12/15/2011 11:08 Mountain					
SM4500S2CF	01/06/2012 14:00	15	12/22/2011 12:08		
SW8011	01/06/2012 14:00	15	12/29/2011 12:08		
SW6010B	01/06/2012 14:00	15	06/12/2012 12:08		Ca, Pb, K, Na, Mg
SW8270C	01/06/2012 14:00	15	12/22/2011 12:08		requires 3-Methlphenol/4-Methylphenol
E353.2	01/06/2012 14:00	15	01/12/2012 12:08		
E300.0	01/06/2012 14:00	15	01/12/2012 12:08		Cl, SO4
SM4500NH3BG	01/06/2012 14:00	15	01/12/2012 12:08		
SM2320B	01/06/2012 14:00	15	12/29/2011 12:08		carb/bicarb
SW8260B	01/06/2012 14:00	15	12/29/2011 12:08		
SW8015B GRO	01/06/2012 14:00	15	12/29/2011 12:08		
SW8015B DRO	01/06/2012 14:00	15	12/22/2011 12:08		
1112109-02 GW0320 [Water] Sampled 12/15/2011 11:08 Mountain					**Field Filtered.**
SW6010B	01/06/2012 14:00	15	06/12/2012 12:08		Fe & Mn

WORK ORDER

1112109

Printed: 1/12/2012 2:49:34PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1112109-03 GW0326 [Water] Sampled 12/14/2011 11:45 Mountain					
E353.2	01/06/2012 14:00	15	01/11/2012 12:45		
SW6010B	01/06/2012 14:00	15	06/11/2012 12:45		Ca, Pb, K, Na, Mg
SW8015B DRO	01/06/2012 14:00	15	12/21/2011 12:45		
SW8011	01/06/2012 14:00	15	12/28/2011 12:45		
SW8015B GRO	01/06/2012 14:00	15	12/28/2011 12:45		
SW8260B	01/06/2012 14:00	15	12/28/2011 12:45		
SM2320B	01/06/2012 14:00	15	12/28/2011 12:45		carb/bicarb
SM4500S2CF	01/06/2012 14:00	15	12/21/2011 12:45		
SW8270C	01/06/2012 14:00	15	12/21/2011 12:45		requires 3-Methlphenol/4-Methylphenol
E300.0	01/06/2012 14:00	15	01/11/2012 12:45		Cl, SO4
SM4500NH3BG	01/06/2012 14:00	15	01/11/2012 12:45		
1112109-04 GW0326 [Water] Sampled 12/14/2011 11:45 Mountain					**Field Filtered.**
SW6010B	01/06/2012 14:00	15	06/11/2012 12:45		Fe & Mn

WORK ORDER

1112109

Printed: 1/12/2012 2:49:34PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1112109-05 GW0334 [Water] Sampled 12/14/2011 15:48 Mountain					
SW8260B	01/06/2012 14:00	15	12/28/2011 16:48		
SW8270C	01/06/2012 14:00	15	12/21/2011 16:48		requires 3-Methlphenol/4-Methylphenol
SM4500S2CF	01/06/2012 14:00	15	12/21/2011 16:48		
E353.2	01/06/2012 14:00	15	01/11/2012 16:48		
E300.0	01/06/2012 14:00	15	01/11/2012 16:48		Cl, SO4
SM2320B	01/06/2012 14:00	15	12/28/2011 16:48		carb/bicarb
SW8015B GRO	01/06/2012 14:00	15	12/28/2011 16:48		
SW8011	01/06/2012 14:00	15	12/28/2011 16:48		
SW8015B DRO	01/06/2012 14:00	15	12/21/2011 16:48		
SW6010B	01/06/2012 14:00	15	06/11/2012 16:48		Ca, Pb, K, Na, Mg
SM4500NH3BG	01/06/2012 14:00	15	01/11/2012 16:48		
1112109-06 GW0334 [Water] Sampled 12/14/2011 15:48 Mountain					**Field Filtered.**
SW6010B	01/06/2012 14:00	15	06/11/2012 16:48		Fe & Mn
1112109-07 GW8151-TB [Water] Sampled 12/14/2011 08:00 Mountain					
SW8260B	01/06/2012 14:00	15	12/28/2011 09:00		

WORK ORDER

1112117

Printed: 1/12/2012 2:50:16PM

Empirical Laboratories, LLC

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

Project Manager: **Jennifer Chandler**
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: 01/12/2012 16:00 (15 day TAT)

Received By: Benjamin C. Wright
Logged In By: Benjamin C. Wright

Date Received: 12/17/2011 08:20
Date Logged In 12/17/2011 09:31

Samples Received at: **1.2°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

1112117

Printed: 1/12/2012 2:50:16PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1112117-01 GW0264 [Water] Sampled 12/15/2011 16:13 Mountain					
E353.2	01/09/2012 14:00	15	01/12/2012 17:13		
E300.0	01/09/2012 14:00	15	01/12/2012 17:13		Cl, SO4
SW6010B	01/09/2012 14:00	15	06/12/2012 17:13		Ca, Pb, K, Na, Mg
SM4500S2CF	01/09/2012 14:00	15	12/22/2011 17:13		
SW8015B DRO	01/09/2012 14:00	15	12/22/2011 17:13		
SW8011	01/09/2012 14:00	15	12/29/2011 17:13		
SW8015B GRO	01/09/2012 14:00	15	12/29/2011 17:13		
SW8260B	01/09/2012 14:00	15	12/29/2011 17:13		
SM2320B	01/09/2012 14:00	15	12/29/2011 17:13		carb/bicarb
SM4500NH3BG	01/09/2012 14:00	15	01/12/2012 17:13		
SW8270C	01/09/2012 14:00	15	12/22/2011 17:13		requires 3-Methlphenol/4-Methylphenol
1112117-02 GW0264 [Water] Sampled 12/15/2011 16:13 Mountain					**field filtered**
SW6010B	01/09/2012 14:00	15	06/12/2012 17:13		Fe & Mn

WORK ORDER

1112117

Printed: 1/12/2012 2:50:16PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1112117-03 GW0265 [Water] Sampled 12/15/2011 16:13 Mountain					
SW6010B	01/09/2012 14:00	15	06/12/2012 17:13		Ca, Pb, K, Na, Mg
E300.0	01/09/2012 14:00	15	01/12/2012 17:13		Cl, SO4
SW8270C	01/09/2012 14:00	15	12/22/2011 17:13		requires 3-Methlphenol/4-Methylphenol
SM4500S2CF	01/09/2012 14:00	15	12/22/2011 17:13		
E353.2	01/09/2012 14:00	15	01/12/2012 17:13		
SM4500NH3BG	01/09/2012 14:00	15	01/12/2012 17:13		
SM2320B	01/09/2012 14:00	15	12/29/2011 17:13		carb/bicarb
SW8260B	01/09/2012 14:00	15	12/29/2011 17:13		
SW8015B GRO	01/09/2012 14:00	15	12/29/2011 17:13		
SW8015B DRO	01/09/2012 14:00	15	12/22/2011 17:13		
SW8011	01/09/2012 14:00	15	12/29/2011 17:13		
1112117-04 GW0265 [Water] Sampled 12/15/2011 16:13 Mountain					**field filtered**
SW6010B	01/09/2012 14:00	15	06/12/2012 17:13		Fe & Mn

WORK ORDER

1112117

Printed: 1/12/2012 2:50:16PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1112117-05 GW0276 [Water] Sampled 12/16/2011 14:02 Mountain					
SW8260B	01/09/2012 14:00	15	12/30/2011 15:02		
SW8270C	01/09/2012 14:00	15	12/23/2011 15:02		requires 3-Methlphenol/4-Methylphenol
SW8015B DRO	01/09/2012 14:00	15	12/23/2011 15:02		
SW8015B GRO	01/09/2012 14:00	15	12/30/2011 15:02		
SM2320B	01/09/2012 14:00	15	12/30/2011 15:02		carb/bicarb
SM4500NH3BG	01/09/2012 14:00	15	01/13/2012 15:02		
E300.0	01/09/2012 14:00	15	01/13/2012 15:02		Cl, SO4
E353.2	01/09/2012 14:00	15	01/13/2012 15:02		
SM4500S2CF	01/09/2012 14:00	15	12/23/2011 15:02		
SW6010B	01/09/2012 14:00	15	06/13/2012 15:02		Ca, Pb, K, Na, Mg
SW8011	01/09/2012 14:00	15	12/30/2011 15:02		
1112117-06 GW0276 [Water] Sampled 12/16/2011 14:02 Mountain					**field filtered**
SW6010B	01/09/2012 14:00	15	06/13/2012 15:02		Fe & Mn
1112117-07 GW8034-RB [Water] Sampled 12/16/2011 09:22 Mountain					
SW8015B DRO	01/09/2012 14:00	15	12/23/2011 10:22		
SW8015B GRO	01/09/2012 14:00	15	12/30/2011 10:22		
SW8260B	01/09/2012 14:00	15	12/30/2011 10:22		
SW8270C	01/09/2012 14:00	15	12/23/2011 10:22		requires 3-Methlphenol/4-Methylphenol
SW6010B	01/09/2012 14:00	15	06/13/2012 10:22		Ca, Pb, K, Na, Mg
1112117-08 GW8034-RB [Water] Sampled 12/16/2011 09:22 Mountain					**field filtered**
SW6010B	01/09/2012 14:00	15	06/13/2012 10:22		Fe & Mn

WORK ORDER

1112117

Printed: 1/12/2012 2:50:16PM

Empirical Laboratories, LLC

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

Project Manager: Jennifer Chandler
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1112117-09 GW8152-TB [Water] Sampled 12/16/2011 08:00 Mountain					
SW8260B	01/09/2012 14:00	15	12/30/2011 09:00		

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: Kirtland_039
MATRIX: Water

QC LEVEL: Level IV
Report Due: 1/6/2012 - 1/12/2012
Client Sample Count: 23

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	E353.2	SM2320B	SM4500NH3BG	SM4500S2CF
Client Sample	12/12/2011	12/13/2011	1112084-01	GW0259	X	X	X	X	X
Client Sample	12/12/2011	12/13/2011	1112084-02	GW0259					
Client Sample	12/12/2011	12/13/2011	1112084-03	GW0260	X	X	X	X	X
Client Sample	12/12/2011	12/13/2011	1112084-04	GW0260					
Trip Blank	12/12/2011	12/13/2011	1112084-05	GW8149-TB					
Client Sample	12/13/2011	12/14/2011	1112091-01	GW0255	X	X	X	X	X
Client Sample	12/13/2011	12/14/2011	1112091-02	GW0255					
Client Sample	12/13/2011	12/14/2011	1112091-03	GW0273	X	X	X	X	X
Client Sample	12/13/2011	12/14/2011	1112091-04	GW0273					
Trip Blank	12/13/2011	12/14/2011	1112091-05	GW8150-TB					
Client Sample	12/13/2011	12/14/2011	1112091-06	GW8036-AB					
Client Sample	12/15/2011	12/16/2011	1112109-01	GW0320	X	X	X	X	X
Client Sample	12/15/2011	12/16/2011	1112109-02	GW0320					
Client Sample	12/14/2011	12/16/2011	1112109-03	GW0326	X	X	X	X	X
Client Sample	12/14/2011	12/16/2011	1112109-04	GW0326					
Client Sample	12/14/2011	12/16/2011	1112109-05	GW0334	X	X	X	X	X
Client Sample	12/14/2011	12/16/2011	1112109-06	GW0334					
Trip Blank	12/14/2011	12/16/2011	1112109-07	GW8151-TB					
Client Sample	12/15/2011	12/17/2011	1112117-01	GW0264	X	X	X	X	X
Client Sample	12/15/2011	12/17/2011	1112117-02	GW0264					
Client Sample	12/15/2011	12/17/2011	1112117-03	GW0265	X	X	X	X	X
Client Sample	12/15/2011	12/17/2011	1112117-04	GW0265					
Client Sample	12/16/2011	12/17/2011	1112117-05	GW0276	X	X	X	X	X
Client Sample	12/16/2011	12/17/2011	1112117-06	GW0276					
Client Sample	12/16/2011	12/17/2011	1112117-07	GW8034-RB					
Client Sample	12/16/2011	12/17/2011	1112117-08	GW8034-RB					
Trip Blank	12/16/2011	12/17/2011	1112117-09	GW8152-TB					

Sample Type	Sampled	Received	Lab ID	Client ID	SW6010B	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270C
Client Sample	12/12/2011	12/13/2011	1112084-01	GW0259	X	X	X	X	X	X
Client Sample	12/12/2011	12/13/2011	1112084-02	GW0259	X					
Client Sample	12/12/2011	12/13/2011	1112084-03	GW0260	X	X	X	X	X	X
Client Sample	12/12/2011	12/13/2011	1112084-04	GW0260	X					
Trip Blank	12/12/2011	12/13/2011	1112084-05	GW8149-TB					X	
Client Sample	12/13/2011	12/14/2011	1112091-01	GW0255	X	X	X	X	X	X
Client Sample	12/13/2011	12/14/2011	1112091-02	GW0255	X					
Client Sample	12/13/2011	12/14/2011	1112091-03	GW0273	X	X	X	X	X	X
Client Sample	12/13/2011	12/14/2011	1112091-04	GW0273	X					
Trip Blank	12/13/2011	12/14/2011	1112091-05	GW8150-TB					X	
Client Sample	12/13/2011	12/14/2011	1112091-06	GW8036-AB					X	
Client Sample	12/15/2011	12/16/2011	1112109-01	GW0320	X	X	X	X	X	X
Client Sample	12/15/2011	12/16/2011	1112109-02	GW0320	X					
Client Sample	12/14/2011	12/16/2011	1112109-03	GW0326	X	X	X	X	X	X
Client Sample	12/14/2011	12/16/2011	1112109-04	GW0326	X					
Client Sample	12/14/2011	12/16/2011	1112109-05	GW0334	X	X	X	X	X	X
Client Sample	12/14/2011	12/16/2011	1112109-06	GW0334	X					
Trip Blank	12/14/2011	12/16/2011	1112109-07	GW8151-TB					X	
Client Sample	12/15/2011	12/17/2011	1112117-01	GW0264	X	X	X	X	X	X
Client Sample	12/15/2011	12/17/2011	1112117-02	GW0264	X					
Client Sample	12/15/2011	12/17/2011	1112117-03	GW0265	X	X	X	X	X	X
Client Sample	12/15/2011	12/17/2011	1112117-04	GW0265	X					
Client Sample	12/16/2011	12/17/2011	1112117-05	GW0276	X	X	X	X	X	X
Client Sample	12/16/2011	12/17/2011	1112117-06	GW0276	X					
Client Sample	12/16/2011	12/17/2011	1112117-07	GW8034-RB	X		X	X	X	X
Client Sample	12/16/2011	12/17/2011	1112117-08	GW8034-RB	X					
Trip Blank	12/16/2011	12/17/2011	1112117-09	GW8152-TB					X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0259

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-01	File ID:	1208401D.D
Sampled:	12/12/11 14:27	Prepared:	12/14/11 00:00	Analyzed:	12/14/11 15:48
Solids:		Preparation:	5030B	Dilution:	25

Batch: 1L14009 Sequence: 1L34906 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	181	62.5	125	250	X, J, D
71-43-2	Benzene	1750	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	55.7	6.25	12.5	25.0	D
78-93-3	2-Butanone	106	62.5	125	250	J, D
135-98-8	sec-Butylbenzene	43.0	6.25	12.5	25.0	D
98-06-6	tert-Butylbenzene		6.25	12.5	25.0	U
75-15-0	Carbon disulfide	6.79	6.25	12.5	25.0	J, D
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)	61.8	6.25	12.5	25.0	D
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	394	6.25	12.5	25.0	D
87-68-3	Hexachlorobutadiene		6.25	12.5	25.0	U

ANALYSIS DATA SHEET

GW0259

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-01	File ID:	1208401D.D
Sampled:	12/12/11 14:27	Prepared:	12/14/11 00:00	Analyzed:	12/14/11 15:48
Solids:		Preparation:	5030B	Dilution:	25

Batch: 1L14009 Sequence: 1L34906 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	660	31.2	62.5	125	D
98-82-8	Isopropylbenzene	59.0	6.25	12.5	25.0	D
99-87-6	p-Isopropyltoluene	56.2	6.25	12.5	25.0	D
75-09-2	Methylene chloride		12.5	25.0	50.0	U
91-20-3	Naphthalene	239	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	71.2	6.25	12.5	25.0	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	4920	6.25	12.5	25.0	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	188	6.25	12.5	25.0	D
95-63-6	1,2,4-Trimethylbenzene	446	6.25	12.5	25.0	D
75-01-4	Vinyl chloride		6.25	12.5	25.0	U
1330-20-7	Xylenes (total)	1470	18.8	37.5	75.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.75	103	75 - 120	
Dibromofluoromethane	30.00	30.62	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.52	102	70 - 120	
Toluene-d8	30.00	30.47	102	85 - 120	

ANALYSIS DATA SHEET

GW0260

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-03	File ID:	1208403.D
Sampled:	12/12/11 10:34	Prepared:	12/14/11 00:00	Analyzed:	12/14/11 13:34
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L14009 Sequence: 1L34906 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	4.06	2.50	5.00	10.0	X, J
71-43-2	Benzene	52.6	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene	1.63	0.250	0.500	1.00	
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene	3.67	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	1.30	0.250	0.500	1.00	
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	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	14.6	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0260

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-03	File ID:	1208403.D
Sampled:	12/12/11 10:34	Prepared:	12/14/11 00:00	Analyzed:	12/14/11 13:34
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L14009 Sequence: 1L34906 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	1.38	1.25	2.50	5.00	J
98-82-8	Isopropylbenzene	3.84	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	1.88	0.250	0.500	1.00	
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene	3.73	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	1.82	1.25	2.50	5.00	J
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene	6.13	0.250	0.500	1.00	
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	98.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	6.51	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	13.2	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)	73.4	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.68	102	75 - 120	
Dibromofluoromethane	30.00	30.15	100	85 - 115	
1,2-Dichloroethane-d4	30.00	30.72	102	70 - 120	
Toluene-d8	30.00	30.72	102	85 - 120	

ANALYSIS DATA SHEET

GW8149-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-05	File ID:	1208405.D
Sampled:	12/12/11 08:00	Prepared:	12/14/11 00:00	Analyzed:	12/14/11 13:07
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L14009 Sequence: 1L34906 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	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

GW8149-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-05	File ID:	1208405.D
Sampled:	12/12/11 08:00	Prepared:	12/14/11 00:00	Analyzed:	12/14/11 13:07
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L14009 Sequence: 1L34906 Calibration: 1339001 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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.43	105	75 - 120	
Dibromofluoromethane	30.00	30.60	102	85 - 115	
1,2-Dichloroethane-d4	30.00	31.90	106	70 - 120	
Toluene-d8	30.00	30.55	102	85 - 120	

ANALYSIS DATA SHEET

GW0255

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-01	File ID:	1209101.D
Sampled:	12/13/11 10:31	Prepared:	12/15/11 00:00	Analyzed:	12/15/11 12:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L15008 Sequence: 1L35002 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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

GW0255

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-01	File ID:	1209101.D
Sampled:	12/13/11 10:31	Prepared:	12/15/11 00:00	Analyzed:	12/15/11 12:37
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L15008 Sequence: 1L35002 Calibration: 1339001 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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.06	104	75 - 120	
Dibromofluoromethane	30.00	29.96	99.9	85 - 115	
1,2-Dichloroethane-d4	30.00	30.30	101	70 - 120	
Toluene-d8	30.00	29.88	99.6	85 - 120	

ANALYSIS DATA SHEET

GW0273

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-03	File ID:	1209103.D
Sampled:	12/13/11 13:48	Prepared:	12/15/11 00:00	Analyzed:	12/15/11 13:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L15008 Sequence: 1L35002 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene	0.321	0.250	0.500	1.00	J
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene	0.252	0.250	0.500	1.00	J
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene	1.01	0.250	0.500	1.00	
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)	0.342	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	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

GW0273

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-03	File ID:	1209103.D
Sampled:	12/13/11 13:48	Prepared:	12/15/11 00:00	Analyzed:	12/15/11 13:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L15008 Sequence: 1L35002 Calibration: 1339001 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	6.66	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	0.691	0.250	0.500	1.00	J
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	0.856	0.250	0.500	1.00	J
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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.36	101	75 - 120	
Dibromofluoromethane	30.00	30.31	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.55	102	70 - 120	
Toluene-d8	30.00	29.97	99.9	85 - 120	

ANALYSIS DATA SHEET

GW8150-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-05	File ID:	1209105.D
Sampled:	12/13/11 08:00	Prepared:	12/15/11 00:00	Analyzed:	12/15/11 10:49
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L15008 Sequence: 1L35002 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	0.268	0.250	0.500	1.00	J
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

GW8150-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-05	File ID:	1209105.D
Sampled:	12/13/11 08:00	Prepared:	12/15/11 00:00	Analyzed:	12/15/11 10:49
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L15008 Sequence: 1L35002 Calibration: 1339001 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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.58	102	75 - 120	
Dibromofluoromethane	30.00	30.14	100	85 - 115	
1,2-Dichloroethane-d4	30.00	30.80	103	70 - 120	
Toluene-d8	30.00	30.30	101	85 - 120	

ANALYSIS DATA SHEET

GW8036-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-06	File ID:	1209106.D
Sampled:	12/13/11 10:31	Prepared:	12/15/11 00:00	Analyzed:	12/15/11 11:16
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L15008 Sequence: 1L35002 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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

GW8036-AB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-06	File ID:	1209106.D
Sampled:	12/13/11 10:31	Prepared:	12/15/11 00:00	Analyzed:	12/15/11 11:16
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L15008 Sequence: 1L35002 Calibration: 1339001 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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.98	103	75 - 120	
Dibromofluoromethane	30.00	30.20	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.43	101	70 - 120	
Toluene-d8	30.00	31.21	104	85 - 120	

ANALYSIS DATA SHEET

GW0320

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-01	File ID:	1210901.D
Sampled:	12/15/11 11:08	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 12:50
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	20.2	2.50	5.00	10.0	
71-43-2	Benzene	65.4	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene	5.53	0.250	0.500	1.00	
78-93-3	2-Butanone	2.91	2.50	5.00	10.0	J
135-98-8	sec-Butylbenzene	5.23	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	4.75	0.250	0.500	1.00	
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane	0.624	0.500	1.00	2.00	J
75-34-3	1,1-Dichloroethane	0.370	0.250	0.500	1.00	J
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	57.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0320

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-01	File ID:	1210901.D
Sampled:	12/15/11 11:08	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 12:50
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	6.10	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	14.3	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	6.63	0.250	0.500	1.00	
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene	20.7	0.250	0.500	1.00	
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	12.6	0.250	0.500	1.00	
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	0.406	0.250	0.500	1.00	J
108-88-3	Toluene	267	0.250	0.500	1.00	E
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	23.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	56.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)	234	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.56	102	75 - 120	
Dibromofluoromethane	30.00	30.22	101	85 - 115	
1,2-Dichloroethane-d4	30.00	31.04	103	70 - 120	
Toluene-d8	30.00	30.85	103	85 - 120	

ANALYSIS DATA SHEET

GW0320

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-01RE1	File ID:	1210901D.D
Sampled:	12/15/11 11:08	Prepared:	12/20/11 00:00	Analyzed:	12/20/11 10:05
Solids:		Preparation:	5030B	Dilution:	2

Batch: 1L20009 Sequence: 1L35502 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	16.0	5.00	10.0	20.0	J, D
71-43-2	Benzene	56.3	0.500	1.00	2.00	D
108-86-1	Bromobenzene		0.500	1.00	2.00	U
74-97-5	Bromochloromethane		0.500	1.00	2.00	U
75-27-4	Bromodichloromethane		0.500	1.00	2.00	U
75-25-2	Bromoform		0.500	1.00	2.00	U
74-83-9	Bromomethane		1.00	2.00	4.00	U
104-51-8	n-Butylbenzene	4.77	0.500	1.00	2.00	D
78-93-3	2-Butanone		5.00	10.0	20.0	U
135-98-8	sec-Butylbenzene	4.45	0.500	1.00	2.00	D
98-06-6	tert-Butylbenzene		0.500	1.00	2.00	U
75-15-0	Carbon disulfide		0.500	1.00	2.00	U
56-23-5	Carbon tetrachloride		0.500	1.00	2.00	U
108-90-7	Chlorobenzene		0.500	1.00	2.00	U
75-00-3	Chloroethane		1.00	2.00	4.00	U
67-66-3	Chloroform		0.500	1.00	2.00	U
74-87-3	Chloromethane		0.500	1.00	2.00	Y, U
95-49-8	2-Chlorotoluene		0.500	1.00	2.00	U
106-43-4	4-Chlorotoluene		0.500	1.00	2.00	U
124-48-1	Dibromochloromethane		0.500	1.00	2.00	U
96-12-8	1,2-Dibromo-3-chloropropane		1.00	2.00	4.00	U
106-93-4	1,2-Dibromoethane (EDB)	4.14	0.500	1.00	2.00	D
74-95-3	Dibromomethane		0.500	1.00	2.00	U
95-50-1	1,2-Dichlorobenzene		0.500	1.00	2.00	U
541-73-1	1,3-Dichlorobenzene		0.500	1.00	2.00	U
106-46-7	1,4-Dichlorobenzene		0.500	1.00	2.00	U
75-71-8	Dichlorodifluoromethane		1.00	2.00	4.00	U
75-34-3	1,1-Dichloroethane		0.500	1.00	2.00	U
107-06-2	1,2-Dichloroethane	0.709	0.500	1.00	2.00	J, D
75-35-4	1,1-Dichloroethene		0.500	1.00	2.00	U
156-59-2	cis-1,2-Dichloroethene		0.500	1.00	2.00	U
156-60-5	trans-1,2-Dichloroethene		0.500	1.00	2.00	U
78-87-5	1,2-Dichloropropane		0.500	1.00	2.00	U
142-28-9	1,3-Dichloropropane		0.500	1.00	2.00	U
594-20-7	2,2-Dichloropropane		0.500	1.00	2.00	U
563-58-6	1,1-Dichloropropene		0.500	1.00	2.00	U
10061-01-5	cis-1,3-Dichloropropene		0.500	1.00	2.00	U
10061-02-6	trans-1,3-Dichloropropene		0.500	1.00	2.00	U
100-41-4	Ethylbenzene	50.0	0.500	1.00	2.00	D
87-68-3	Hexachlorobutadiene		0.500	1.00	2.00	U

ANALYSIS DATA SHEET

GW0320

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_039	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:	Water	Laboratory ID:	1112109-01RE1	File ID:	1210901D.D
Sampled:	12/15/11 11:08	Prepared:	12/20/11 00:00	Analyzed:	12/20/11 10:05
Solids:		Preparation:	5030B	Dilution:	2

Batch: 1L20009 Sequence: 1L35502 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		2.50	5.00	10.0	U
98-82-8	Isopropylbenzene	12.2	0.500	1.00	2.00	D
99-87-6	p-Isopropyltoluene	5.71	0.500	1.00	2.00	D
75-09-2	Methylene chloride		1.00	2.00	4.00	U
91-20-3	Naphthalene	17.7	0.500	1.00	2.00	D
108-10-1	4-Methyl-2-pentanone		2.50	5.00	10.0	U
1634-04-4	Methyl t-Butyl Ether		0.500	1.00	2.00	U
103-65-1	n-Propylbenzene	10.5	0.500	1.00	2.00	D
100-42-5	Styrene		0.500	1.00	2.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.500	1.00	2.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.500	1.00	2.00	U
127-18-4	Tetrachloroethene		0.500	1.00	2.00	U
108-88-3	Toluene	241	0.500	1.00	2.00	D
87-61-6	1,2,3-Trichlorobenzene		0.500	1.00	2.00	U
120-82-1	1,2,4-Trichlorobenzene		0.500	1.00	2.00	U
79-00-5	1,1,2-Trichloroethane		0.500	1.00	2.00	U
71-55-6	1,1,1-Trichloroethane		0.500	1.00	2.00	U
79-01-6	Trichloroethene		0.500	1.00	2.00	U
75-69-4	Trichlorofluoromethane		1.00	2.00	4.00	U
96-18-4	1,2,3-Trichloropropane		1.00	2.00	4.00	U
108-67-8	1,3,5-Trimethylbenzene	20.0	0.500	1.00	2.00	D
95-63-6	1,2,4-Trimethylbenzene	48.7	0.500	1.00	2.00	D
75-01-4	Vinyl chloride		0.500	1.00	2.00	U
1330-20-7	Xylenes (total)	205	1.50	3.00	6.00	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.43	101	75 - 120	
Dibromofluoromethane	30.00	30.19	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.33	101	70 - 120	
Toluene-d8	30.00	30.93	103	85 - 120	

ANALYSIS DATA SHEET

GW0326

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-03	File ID:	1210903.D
Sampled:	12/14/11 11:45	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 13:16
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene	0.748	0.250	0.500	1.00	J
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane	1.06	0.500	1.00	2.00	J
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	0.667	0.250	0.500	1.00	J
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0326

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-03	File ID:	1210903.D
Sampled:	12/14/11 11:45	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 13:16
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 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	0.341	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	0.897	0.250	0.500	1.00	J
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	0.336	0.250	0.500	1.00	J
108-88-3	Toluene	5.53	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	0.422	0.250	0.500	1.00	J
95-63-6	1,2,4-Trimethylbenzene	1.06	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)	5.21	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.69	102	75 - 120	
Dibromofluoromethane	30.00	30.14	100	85 - 115	
1,2-Dichloroethane-d4	30.00	31.00	103	70 - 120	
Toluene-d8	30.00	30.38	101	85 - 120	

ANALYSIS DATA SHEET

GW0334

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-05	File ID:	1210905D.D
Sampled:	12/14/11 15:48	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 15:58
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1960	125	250	500	D
71-43-2	Benzene	4320	12.5	25.0	50.0	D
108-86-1	Bromobenzene		12.5	25.0	50.0	U
74-97-5	Bromochloromethane		12.5	25.0	50.0	U
75-27-4	Bromodichloromethane		12.5	25.0	50.0	U
75-25-2	Bromoform		12.5	25.0	50.0	U
74-83-9	Bromomethane		25.0	50.0	100	U
104-51-8	n-Butylbenzene	23.4	12.5	25.0	50.0	J, D
78-93-3	2-Butanone	420	125	250	500	J, D
135-98-8	sec-Butylbenzene	16.4	12.5	25.0	50.0	J, D
98-06-6	tert-Butylbenzene		12.5	25.0	50.0	U
75-15-0	Carbon disulfide		12.5	25.0	50.0	U
56-23-5	Carbon tetrachloride		12.5	25.0	50.0	U
108-90-7	Chlorobenzene		12.5	25.0	50.0	U
75-00-3	Chloroethane		25.0	50.0	100	U
67-66-3	Chloroform		12.5	25.0	50.0	U
74-87-3	Chloromethane		12.5	25.0	50.0	Y, U
95-49-8	2-Chlorotoluene		12.5	25.0	50.0	U
106-43-4	4-Chlorotoluene		12.5	25.0	50.0	U
124-48-1	Dibromochloromethane		12.5	25.0	50.0	U
96-12-8	1,2-Dibromo-3-chloropropane		25.0	50.0	100	U
106-93-4	1,2-Dibromoethane (EDB)	111	12.5	25.0	50.0	D
74-95-3	Dibromomethane		12.5	25.0	50.0	U
95-50-1	1,2-Dichlorobenzene		12.5	25.0	50.0	U
541-73-1	1,3-Dichlorobenzene		12.5	25.0	50.0	U
106-46-7	1,4-Dichlorobenzene		12.5	25.0	50.0	U
75-71-8	Dichlorodifluoromethane		25.0	50.0	100	U
75-34-3	1,1-Dichloroethane		12.5	25.0	50.0	U
107-06-2	1,2-Dichloroethane		12.5	25.0	50.0	U
75-35-4	1,1-Dichloroethene		12.5	25.0	50.0	U
156-59-2	cis-1,2-Dichloroethene		12.5	25.0	50.0	U
156-60-5	trans-1,2-Dichloroethene		12.5	25.0	50.0	U
78-87-5	1,2-Dichloropropane		12.5	25.0	50.0	U
142-28-9	1,3-Dichloropropane		12.5	25.0	50.0	U
594-20-7	2,2-Dichloropropane		12.5	25.0	50.0	U
563-58-6	1,1-Dichloropropene		12.5	25.0	50.0	U
10061-01-5	cis-1,3-Dichloropropene		12.5	25.0	50.0	U
10061-02-6	trans-1,3-Dichloropropene		12.5	25.0	50.0	U
100-41-4	Ethylbenzene	704	12.5	25.0	50.0	D
87-68-3	Hexachlorobutadiene		12.5	25.0	50.0	U

ANALYSIS DATA SHEET

GW0334

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-05	File ID:	1210905D.D
Sampled:	12/14/11 15:48	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 15:58
Solids:		Preparation:	5030B	Dilution:	50

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	210	62.5	125	250	J, D
98-82-8	Isopropylbenzene	63.5	12.5	25.0	50.0	D
99-87-6	p-Isopropyltoluene	22.7	12.5	25.0	50.0	J, D
75-09-2	Methylene chloride		25.0	50.0	100	U
91-20-3	Naphthalene	278	12.5	25.0	50.0	D
108-10-1	4-Methyl-2-pentanone	118	62.5	125	250	J, D
1634-04-4	Methyl t-Butyl Ether		12.5	25.0	50.0	U
103-65-1	n-Propylbenzene	70.8	12.5	25.0	50.0	D
100-42-5	Styrene		12.5	25.0	50.0	U
79-34-5	1,1,2,2-Tetrachloroethane		12.5	25.0	50.0	U
630-20-6	1,1,1,2-Tetrachloroethane		12.5	25.0	50.0	U
127-18-4	Tetrachloroethene		12.5	25.0	50.0	U
108-88-3	Toluene	6400	12.5	25.0	50.0	D
87-61-6	1,2,3-Trichlorobenzene		12.5	25.0	50.0	U
120-82-1	1,2,4-Trichlorobenzene		12.5	25.0	50.0	U
79-00-5	1,1,2-Trichloroethane		12.5	25.0	50.0	U
71-55-6	1,1,1-Trichloroethane		12.5	25.0	50.0	U
79-01-6	Trichloroethene		12.5	25.0	50.0	U
75-69-4	Trichlorofluoromethane		25.0	50.0	100	U
96-18-4	1,2,3-Trichloropropane		25.0	50.0	100	U
108-67-8	1,3,5-Trimethylbenzene	112	12.5	25.0	50.0	D
95-63-6	1,2,4-Trimethylbenzene	390	12.5	25.0	50.0	D
75-01-4	Vinyl chloride		12.5	25.0	50.0	U
1330-20-7	Xylenes (total)	2950	37.5	75.0	150	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.47	102	75 - 120	
Dibromofluoromethane	30.00	30.58	102	85 - 115	
1,2-Dichloroethane-d4	30.00	31.17	104	70 - 120	
Toluene-d8	30.00	30.39	101	85 - 120	

ANALYSIS DATA SHEET

GW8151-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-07	File ID:	1210907.D
Sampled:	12/14/11 08:00	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 11:02
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

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

GW8151-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-07	File ID:	1210907.D
Sampled:	12/14/11 08:00	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 11:02
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.37	101	75 - 120	
Dibromofluoromethane	30.00	30.32	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.65	102	70 - 120	
Toluene-d8	30.00	30.44	101	85 - 120	

ANALYSIS DATA SHEET

GW0264

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-01	File ID:	1211701D.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 16:25
Solids:		Preparation:	5030B	Dilution:	100

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	3160	250	500	1000	D
71-43-2	Benzene	7620	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	U
75-25-2	Bromoform		25.0	50.0	100	U
74-83-9	Bromomethane		50.0	100	200	U
104-51-8	n-Butylbenzene		25.0	50.0	100	U
78-93-3	2-Butanone	1300	250	500	1000	D
135-98-8	sec-Butylbenzene		25.0	50.0	100	U
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide	26.5	25.0	50.0	100	J, D
56-23-5	Carbon tetrachloride		25.0	50.0	100	U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	Y, U
95-49-8	2-Chlorotoluene		25.0	50.0	100	U
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	U
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	U
106-93-4	1,2-Dibromoethane (EDB)	125	25.0	50.0	100	D
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene		25.0	50.0	100	U
75-71-8	Dichlorodifluoromethane		50.0	100	200	U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	U
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	1690	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	100	U

ANALYSIS DATA SHEET

GW0264

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-01	File ID:	1211701D.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 16:25
Solids:		Preparation:	5030B	Dilution:	100

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	293	125	250	500	J, D
98-82-8	Isopropylbenzene	108	25.0	50.0	100	D
99-87-6	p-Isopropyltoluene		25.0	50.0	100	U
75-09-2	Methylene chloride		50.0	100	200	U
91-20-3	Naphthalene	149	25.0	50.0	100	D
108-10-1	4-Methyl-2-pentanone	269	125	250	500	J, D
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	110	25.0	50.0	100	D
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	U
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	U
127-18-4	Tetrachloroethene		25.0	50.0	100	U
108-88-3	Toluene	13800	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	100	U
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	100	U
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	U
108-67-8	1,3,5-Trimethylbenzene	112	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	325	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	U
1330-20-7	Xylenes (total)	3280	75.0	150	300	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.18	101	75 - 120	
Dibromofluoromethane	30.00	30.28	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.37	101	70 - 120	
Toluene-d8	30.00	30.23	101	85 - 120	

ANALYSIS DATA SHEET

GW0265

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-03	File ID:	1211703D.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 16:51
Solids:		Preparation:	5030B	Dilution:	100

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	3330	250	500	1000	D
71-43-2	Benzene	7860	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	U
75-25-2	Bromoform		25.0	50.0	100	U
74-83-9	Bromomethane		50.0	100	200	U
104-51-8	n-Butylbenzene		25.0	50.0	100	U
78-93-3	2-Butanone	1330	250	500	1000	D
135-98-8	sec-Butylbenzene		25.0	50.0	100	U
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide	107	25.0	50.0	100	D
56-23-5	Carbon tetrachloride		25.0	50.0	100	U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	Y, U
95-49-8	2-Chlorotoluene		25.0	50.0	100	U
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	U
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	U
106-93-4	1,2-Dibromoethane (EDB)	138	25.0	50.0	100	D
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene		25.0	50.0	100	U
75-71-8	Dichlorodifluoromethane		50.0	100	200	U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	U
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	1760	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	100	U

ANALYSIS DATA SHEET

GW0265

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-03	File ID:	1211703D.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 16:51
Solids:		Preparation:	5030B	Dilution:	100

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	320	125	250	500	J, D
98-82-8	Isopropylbenzene	112	25.0	50.0	100	D
99-87-6	p-Isopropyltoluene		25.0	50.0	100	U
75-09-2	Methylene chloride		50.0	100	200	U
91-20-3	Naphthalene	152	25.0	50.0	100	D
108-10-1	4-Methyl-2-pentanone	275	125	250	500	J, D
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	121	25.0	50.0	100	D
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	U
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	U
127-18-4	Tetrachloroethene		25.0	50.0	100	U
108-88-3	Toluene	14100	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	100	U
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	100	U
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	U
108-67-8	1,3,5-Trimethylbenzene	112	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	338	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	U
1330-20-7	Xylenes (total)	3400	75.0	150	300	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.47	102	75 - 120	
Dibromofluoromethane	30.00	30.08	100	85 - 115	
1,2-Dichloroethane-d4	30.00	31.02	103	70 - 120	
Toluene-d8	30.00	30.59	102	85 - 120	

ANALYSIS DATA SHEET

GW0276

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-05	File ID:	1211705.D
Sampled:	12/16/11 14:02	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 15:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	3.96	2.50	5.00	10.0	J
71-43-2	Benzene	5.68	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	0.707	0.250	0.500	1.00	J
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	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	2.47	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0276

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-05	File ID:	1211705.D
Sampled:	12/16/11 14:02	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 15:04
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 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	5.03	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	0.413	0.250	0.500	1.00	J
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene	0.694	0.250	0.500	1.00	J
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	0.408	0.250	0.500	1.00	J
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	13.9	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	0.540	0.250	0.500	1.00	J
95-63-6	1,2,4-Trimethylbenzene	1.32	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)	7.60	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.62	102	75 - 120	
Dibromofluoromethane	30.00	29.84	99.5	85 - 115	
1,2-Dichloroethane-d4	30.00	30.45	102	70 - 120	
Toluene-d8	30.00	30.66	102	85 - 120	

ANALYSIS DATA SHEET

GW8034-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-07	File ID:	1211707.D
Sampled:	12/16/11 09:22	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 11:56
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene	1.02	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane	0.275	0.250	0.500	1.00	J
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	1.35	0.250	0.500	1.00	
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene	0.612	0.250	0.500	1.00	J
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	1.74	0.250	0.500	1.00	
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene	3.15	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8034-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-07	File ID:	1211707.D
Sampled:	12/16/11 09:22	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 11:56
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 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	0.602	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene	0.778	0.250	0.500	1.00	J
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene	3.25	0.250	0.500	1.00	
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	1.10	0.250	0.500	1.00	
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	9.19	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	1.70	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	5.21	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
1330-20-7	Xylenes (total)	7.82	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.38	101	75 - 120	
Dibromofluoromethane	30.00	30.07	100	85 - 115	
1,2-Dichloroethane-d4	30.00	30.56	102	70 - 120	
Toluene-d8	30.00	30.18	101	85 - 120	

ANALYSIS DATA SHEET

GW8152-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-09	File ID:	1211709.D
Sampled:	12/16/11 08:00	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 12:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

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

GW8152-TB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-09	File ID:	1211709.D
Sampled:	12/16/11 08:00	Prepared:	12/19/11 00:00	Analyzed:	12/19/11 12:23
Solids:		Preparation:	5030B	Dilution:	1

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.71	102	75 - 120	
Dibromofluoromethane	30.00	30.11	100	85 - 115	
1,2-Dichloroethane-d4	30.00	30.10	100	70 - 120	
Toluene-d8	30.00	30.42	101	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L34906	Instrument:	MS-VOA6
		Calibration:	1339001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1L34906-CCV1) ug/L				Lab File ID: 1214CCV1.D		Analyzed: 12/14/11 07:45		
Bromofluorobenzene	30.00	104	80 - 120	12.226	12.226	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	80 - 120	6.909	6.909	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	7.402	7.402	0.0000	+/-1.000	
Toluene-d8	30.00	105	80 - 120	9.607	9.607	0.0000	+/-1.000	
LCS (1L14009-BS1) ug/L				Lab File ID: 1214LCS1.D		Analyzed: 12/14/11 08:11		
Bromofluorobenzene	30.00	103	75 - 120	12.227	12.226	0.0010	+/-1.000	
Dibromofluoromethane	30.00	99.9	85 - 115	6.91	6.909	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.9	70 - 120	7.402	7.402	0.0000	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.608	9.607	0.0010	+/-1.000	
Blank (1L14009-BLK1) ug/L				Lab File ID: 1214BLK1.D		Analyzed: 12/14/11 09:32		
Bromofluorobenzene	30.00	104	75 - 120	12.224	12.226	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.908	6.909	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.4	7.402	-0.0020	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.605	9.607	-0.0020	+/-1.000	
GW8149-TB (1112084-05) ug/L				Lab File ID: 1208405.D		Analyzed: 12/14/11 13:07		
Bromofluorobenzene	30.00	105	75 - 120	12.225	12.226	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.908	6.909	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	7.401	7.402	-0.0010	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.616	9.607	0.0090	+/-1.000	
GW0260 (1112084-03) ug/L				Lab File ID: 1208403.D		Analyzed: 12/14/11 13:34		
Bromofluorobenzene	30.00	102	75 - 120	12.228	12.226	0.0020	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.911	6.909	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.403	7.402	0.0010	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.609	9.607	0.0020	+/-1.000	
GW0259 (1112084-01) ug/L				Lab File ID: 1208401D.D		Analyzed: 12/14/11 15:48		
Bromofluorobenzene	30.00	103	75 - 120	12.224	12.226	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.908	6.909	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.41	7.402	0.0080	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.615	9.607	0.0080	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35002	Instrument:	MS-VOA6
		Calibration:	1339001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1L35002-CCV1) ug/L				Lab File ID: 1215CCV1.D		Analyzed: 12/15/11 08:08		
Bromofluorobenzene	30.00	105	80 - 120	12.229	12.229	0.0000	+/-1.000	
Dibromofluoromethane	30.00	99.2	80 - 120	6.923	6.923	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	7.415	7.415	0.0000	+/-1.000	
Toluene-d8	30.00	106	80 - 120	9.62	9.62	0.0000	+/-1.000	
LCS (1L15008-BS1) ug/L				Lab File ID: 1215LCS1.D		Analyzed: 12/15/11 08:35		
Bromofluorobenzene	30.00	103	75 - 120	12.231	12.229	0.0020	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.914	6.923	-0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.416	7.415	0.0010	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.622	9.62	0.0020	+/-1.000	
Blank (1L15008-BLK1) ug/L				Lab File ID: 1215BLK1.D		Analyzed: 12/15/11 10:22		
Bromofluorobenzene	30.00	101	75 - 120	12.231	12.229	0.0020	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.914	6.923	-0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.406	7.415	-0.0090	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.622	9.62	0.0020	+/-1.000	
GW8150-TB (1112091-05) ug/L				Lab File ID: 1209105.D		Analyzed: 12/15/11 10:49		
Bromofluorobenzene	30.00	102	75 - 120	12.234	12.229	0.0050	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.917	6.923	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.41	7.415	-0.0050	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.615	9.62	-0.0050	+/-1.000	
GW8036-AB (1112091-06) ug/L				Lab File ID: 1209106.D		Analyzed: 12/15/11 11:16		
Bromofluorobenzene	30.00	103	75 - 120	12.23	12.229	0.0010	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.913	6.923	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.415	7.415	0.0000	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.621	9.62	0.0010	+/-1.000	
GW0255 (1112091-01) ug/L				Lab File ID: 1209101.D		Analyzed: 12/15/11 12:37		
Bromofluorobenzene	30.00	104	75 - 120	12.231	12.229	0.0020	+/-1.000	
Dibromofluoromethane	30.00	99.9	85 - 115	6.914	6.923	-0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.406	7.415	-0.0090	+/-1.000	
Toluene-d8	30.00	99.6	85 - 120	9.621	9.62	0.0010	+/-1.000	
GW0273 (1112091-03) ug/L				Lab File ID: 1209103.D		Analyzed: 12/15/11 13:04		
Bromofluorobenzene	30.00	101	75 - 120	12.234	12.229	0.0050	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.917	6.923	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.409	7.415	-0.0060	+/-1.000	
Toluene-d8	30.00	99.9	85 - 120	9.615	9.62	-0.0050	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35401	Instrument:	MS-VOA6
		Calibration:	1339001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1L35401-CCV1) ug/L				Lab File ID: 1219CCV1.D		Analyzed: 12/19/11 07:46		
Bromofluorobenzene	30.00	106	80 - 120	12.231	12.231	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	80 - 120	6.914	6.914	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	7.406	7.406	0.0000	+/-1.000	
Toluene-d8	30.00	104	80 - 120	9.612	9.612	0.0000	+/-1.000	
LCS (1L19009-BS1) ug/L				Lab File ID: 1219LCS1.D		Analyzed: 12/19/11 08:21		
Bromofluorobenzene	30.00	102	75 - 120	12.224	12.231	-0.0070	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.908	6.914	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.4	7.406	-0.0060	+/-1.000	
Toluene-d8	30.00	104	85 - 120	9.606	9.612	-0.0060	+/-1.000	
Blank (1L19009-BLK1) ug/L				Lab File ID: 1219BLK1.D		Analyzed: 12/19/11 09:41		
Bromofluorobenzene	30.00	102	75 - 120	12.221	12.231	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.914	6.914	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.406	7.406	0.0000	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.612	9.612	0.0000	+/-1.000	
GW8151-TB (1112109-07) ug/L				Lab File ID: 1210907.D		Analyzed: 12/19/11 11:02		
Bromofluorobenzene	30.00	101	75 - 120	12.23	12.231	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.913	6.914	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.405	7.406	-0.0010	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.611	9.612	-0.0010	+/-1.000	
GW8034-RB (1112117-07) ug/L				Lab File ID: 1211707.D		Analyzed: 12/19/11 11:56		
Bromofluorobenzene	30.00	101	75 - 120	12.228	12.231	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.911	6.914	-0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.404	7.406	-0.0020	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.609	9.612	-0.0030	+/-1.000	
GW8152-TB (1112117-09) ug/L				Lab File ID: 1211709.D		Analyzed: 12/19/11 12:23		
Bromofluorobenzene	30.00	102	75 - 120	12.229	12.231	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.912	6.914	-0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	7.404	7.406	-0.0020	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.61	9.612	-0.0020	+/-1.000	
GW0320 (1112109-01) ug/L				Lab File ID: 1210901.D		Analyzed: 12/19/11 12:50		
Bromofluorobenzene	30.00	102	75 - 120	12.231	12.231	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.914	6.914	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.407	7.406	0.0010	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.612	9.612	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35401	Instrument:	MS-VOA6
		Calibration:	1339001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0326 (1112109-03) ug/L				Lab File ID: 1210903.D		Analyzed: 12/19/11 13:16		
Bromofluorobenzene	30.00	102	75 - 120	12.234	12.231	0.0030	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.918	6.914	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.41	7.406	0.0040	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.615	9.612	0.0030	+/-1.000	
GW0276 (1112117-05) ug/L				Lab File ID: 1211705.D		Analyzed: 12/19/11 15:04		
Bromofluorobenzene	30.00	102	75 - 120	12.225	12.231	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	99.5	85 - 115	6.918	6.914	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.41	7.406	0.0040	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.616	9.612	0.0040	+/-1.000	
GW0334 (1112109-05) ug/L				Lab File ID: 1210905D.D		Analyzed: 12/19/11 15:58		
Bromofluorobenzene	30.00	102	75 - 120	12.23	12.231	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	6.914	6.914	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	7.406	7.406	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.611	9.612	-0.0010	+/-1.000	
GW0264 (1112117-01) ug/L				Lab File ID: 1211701D.D		Analyzed: 12/19/11 16:25		
Bromofluorobenzene	30.00	101	75 - 120	12.23	12.231	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.914	6.914	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.416	7.406	0.0100	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.621	9.612	0.0090	+/-1.000	
GW0265 (1112117-03) ug/L				Lab File ID: 1211703D.D		Analyzed: 12/19/11 16:51		
Bromofluorobenzene	30.00	102	75 - 120	12.234	12.231	0.0030	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.917	6.914	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.409	7.406	0.0030	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.615	9.612	0.0030	+/-1.000	
LCS Dup (1L19009-BSD1) ug/L				Lab File ID: 1219LCD1.D		Analyzed: 12/19/11 17:18		
Bromofluorobenzene	30.00	103	75 - 120	12.228	12.231	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.921	6.914	0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.413	7.406	0.0070	+/-1.000	
Toluene-d8	30.00	102	85 - 120	9.619	9.612	0.0070	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35502	Instrument:	MS-VOA6
		Calibration:	1339001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1L35502-CCV1) ug/L				Lab File ID: 1220CCV1.D		Analyzed: 12/20/11 07:31		
Bromofluorobenzene	30.00	105	80 - 120	12.238	12.238	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	80 - 120	6.921	6.921	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	80 - 120	7.413	7.413	0.0000	+/-1.000	
Toluene-d8	30.00	105	80 - 120	9.619	9.619	0.0000	+/-1.000	
LCS (1L20009-BS1) ug/L				Lab File ID: 1220LCS1.D		Analyzed: 12/20/11 08:17		
Bromofluorobenzene	30.00	103	75 - 120	12.235	12.238	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.928	6.921	0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	7.42	7.413	0.0070	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.626	9.619	0.0070	+/-1.000	
Blank (1L20009-BLK1) ug/L				Lab File ID: 1220BLK1.D		Analyzed: 12/20/11 09:38		
Bromofluorobenzene	30.00	102	75 - 120	12.235	12.238	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.919	6.921	-0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	7.411	7.413	-0.0020	+/-1.000	
Toluene-d8	30.00	101	85 - 120	9.616	9.619	-0.0030	+/-1.000	
GW0320 (1112109-01RE1) ug/L				Lab File ID: 1210901D.D		Analyzed: 12/20/11 10:05		
Bromofluorobenzene	30.00	101	75 - 120	12.236	12.238	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	6.92	6.921	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	7.412	7.413	-0.0010	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.617	9.619	-0.0020	+/-1.000	
LCS Dup (1L20009-BSD1) ug/L				Lab File ID: 1220LCD1.D		Analyzed: 12/20/11 10:32		
Bromofluorobenzene	30.00	104	75 - 120	12.238	12.238	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	6.921	6.921	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.8	70 - 120	7.414	7.413	0.0010	+/-1.000	
Toluene-d8	30.00	103	85 - 120	9.619	9.619	0.0000	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L14009	Laboratory ID:	1L14009-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	81.1	81.1	40 - 140
Benzene	50.00	48.6	97.3	80 - 120
Bromobenzene	50.00	48.6	97.1	75 - 125
Bromochloromethane	50.00	50.1	100	65 - 130
Bromodichloromethane	50.00	46.5	92.9	75 - 120
Bromoform	50.00	44.7	89.4	70 - 130
Bromomethane	50.00	37.3	74.6	30 - 145
n-Butylbenzene	50.00	51.0	102	70 - 135
2-Butanone	100.0	98.9	98.9	30 - 150
sec-Butylbenzene	50.00	50.2	100	70 - 125
tert-Butylbenzene	50.00	49.6	99.2	70 - 130
Carbon disulfide	50.00	43.8	87.6	35 - 160
Carbon tetrachloride	50.00	51.6	103	65 - 140
Chlorobenzene	50.00	48.1	96.3	80 - 120
Chloroethane	50.00	54.5	109	60 - 135
Chloroform	50.00	44.3	88.6	65 - 135
Chloromethane	50.00	39.4	78.7	40 - 125
2-Chlorotoluene	50.00	47.8	95.6	75 - 125
4-Chlorotoluene	50.00	47.4	94.7	75 - 130
Dibromochloromethane	50.00	51.7	103	60 - 135
1,2-Dibromo-3-chloropropane	50.00	52.8	106	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.4	98.8	80 - 120
Dibromomethane	50.00	47.4	94.8	75 - 125
1,2-Dichlorobenzene	50.00	48.3	96.5	70 - 120
1,3-Dichlorobenzene	50.00	47.4	94.9	75 - 125
1,4-Dichlorobenzene	50.00	48.6	97.1	75 - 125
Dichlorodifluoromethane	50.00	45.8	91.7	30 - 155
1,1-Dichloroethane	50.00	48.4	96.8	70 - 135
1,2-Dichloroethane	50.00	45.3	90.6	70 - 130
1,1-Dichloroethene	50.00	46.6	93.3	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L14009	Laboratory ID:	1L14009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	48.5	96.9	70 - 125
trans-1,2-Dichloroethene	50.00	47.8	95.6	60 - 140
1,2-Dichloropropane	50.00	48.2	96.3	75 - 125
1,3-Dichloropropane	50.00	49.6	99.2	75 - 125
2,2-Dichloropropane	50.00	50.6	101	70 - 135
1,1-Dichloropropene	50.00	48.9	97.9	75 - 130
cis-1,3-Dichloropropene	50.00	51.1	102	70 - 130
trans-1,3-Dichloropropene	50.00	45.8	91.7	55 - 140
Ethylbenzene	50.00	49.2	98.4	75 - 125
Hexachlorobutadiene	50.00	53.2	106	50 - 140
2-Hexanone	100.0	98.9	98.9	55 - 130
Isopropylbenzene	50.00	47.6	95.2	75 - 125
p-Isopropyltoluene	50.00	46.8	93.6	75 - 130
Methylene chloride	50.00	45.2	90.5	55 - 140
Naphthalene	50.00	50.7	101	55 - 140
4-Methyl-2-pentanone	100.0	99.9	99.9	60 - 135
Methyl t-Butyl Ether	50.00	50.2	100	65 - 125
n-Propylbenzene	50.00	48.9	97.7	70 - 130
Styrene	50.00	48.9	97.7	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.9	99.8	65 - 130
1,1,1,2-Tetrachloroethane	50.00	49.9	99.9	80 - 130
Tetrachloroethene	50.00	50.6	101	45 - 150
Toluene	50.00	49.3	98.7	75 - 120
1,2,3-Trichlorobenzene	50.00	48.0	96.1	55 - 140
1,2,4-Trichlorobenzene	50.00	48.6	97.2	65 - 135
1,1,2-Trichloroethane	50.00	51.5	103	75 - 125
1,1,1-Trichloroethane	50.00	50.0	100	65 - 130
Trichloroethene	50.00	48.4	96.8	70 - 125
Trichlorofluoromethane	50.00	50.4	101	60 - 145
1,2,3-Trichloropropane	50.00	48.3	96.6	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L14009	Laboratory ID:	1L14009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	50.6	101	75 - 130
1,2,4-Trimethylbenzene	50.00	49.1	98.1	75 - 130
Vinyl chloride	50.00	56.1	112	50 - 145
Xylenes (total)	150.0	147	97.8	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L15008	Laboratory ID:	1L15008-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	79.3	79.3	40 - 140
Benzene	50.00	49.2	98.4	80 - 120
Bromobenzene	50.00	47.5	95.0	75 - 125
Bromochloromethane	50.00	49.8	99.5	65 - 130
Bromodichloromethane	50.00	45.5	90.9	75 - 120
Bromoform	50.00	43.6	87.2	70 - 130
Bromomethane	50.00	37.8	75.5	30 - 145
n-Butylbenzene	50.00	50.8	102	70 - 135
2-Butanone	100.0	94.6	94.6	30 - 150
sec-Butylbenzene	50.00	50.4	101	70 - 125
tert-Butylbenzene	50.00	49.6	99.2	70 - 130
Carbon disulfide	50.00	43.5	87.0	35 - 160
Carbon tetrachloride	50.00	51.4	103	65 - 140
Chlorobenzene	50.00	48.3	96.7	80 - 120
Chloroethane	50.00	54.6	109	60 - 135
Chloroform	50.00	44.0	88.0	65 - 135
Chloromethane	50.00	38.2	76.5	40 - 125
2-Chlorotoluene	50.00	46.9	93.9	75 - 125
4-Chlorotoluene	50.00	46.7	93.3	75 - 130
Dibromochloromethane	50.00	50.5	101	60 - 135
1,2-Dibromo-3-chloropropane	50.00	52.3	105	50 - 130
1,2-Dibromoethane (EDB)	50.00	48.7	97.4	80 - 120
Dibromomethane	50.00	47.0	94.0	75 - 125
1,2-Dichlorobenzene	50.00	48.3	96.7	70 - 120
1,3-Dichlorobenzene	50.00	48.4	96.9	75 - 125
1,4-Dichlorobenzene	50.00	48.6	97.2	75 - 125
Dichlorodifluoromethane	50.00	46.4	92.8	30 - 155
1,1-Dichloroethane	50.00	47.6	95.3	70 - 135
1,2-Dichloroethane	50.00	44.4	88.9	70 - 130
1,1-Dichloroethene	50.00	47.1	94.2	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L15008	Laboratory ID:	1L15008-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	48.3	96.7	70 - 125
trans-1,2-Dichloroethene	50.00	48.8	97.7	60 - 140
1,2-Dichloropropane	50.00	48.1	96.2	75 - 125
1,3-Dichloropropane	50.00	47.7	95.3	75 - 125
2,2-Dichloropropane	50.00	50.2	100	70 - 135
1,1-Dichloropropene	50.00	49.1	98.3	75 - 130
cis-1,3-Dichloropropene	50.00	51.1	102	70 - 130
trans-1,3-Dichloropropene	50.00	45.2	90.4	55 - 140
Ethylbenzene	50.00	49.8	99.6	75 - 125
Hexachlorobutadiene	50.00	54.6	109	50 - 140
2-Hexanone	100.0	94.3	94.3	55 - 130
Isopropylbenzene	50.00	47.8	95.5	75 - 125
p-Isopropyltoluene	50.00	47.2	94.4	75 - 130
Methylene chloride	50.00	45.4	90.9	55 - 140
Naphthalene	50.00	50.0	100	55 - 140
4-Methyl-2-pentanone	100.0	97.3	97.3	60 - 135
Methyl t-Butyl Ether	50.00	48.3	96.7	65 - 125
n-Propylbenzene	50.00	48.7	97.4	70 - 130
Styrene	50.00	49.4	98.8	65 - 135
1,1,2,2-Tetrachloroethane	50.00	47.8	95.6	65 - 130
1,1,1,2-Tetrachloroethane	50.00	50.3	101	80 - 130
Tetrachloroethene	50.00	51.7	103	45 - 150
Toluene	50.00	49.3	98.7	75 - 120
1,2,3-Trichlorobenzene	50.00	48.6	97.1	55 - 140
1,2,4-Trichlorobenzene	50.00	49.3	98.6	65 - 135
1,1,2-Trichloroethane	50.00	50.8	102	75 - 125
1,1,1-Trichloroethane	50.00	49.8	99.6	65 - 130
Trichloroethene	50.00	48.9	97.8	70 - 125
Trichlorofluoromethane	50.00	50.8	102	60 - 145
1,2,3-Trichloropropane	50.00	46.9	93.8	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L15008	Laboratory ID:	1L15008-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	49.9	99.8	75 - 130
1,2,4-Trimethylbenzene	50.00	48.2	96.4	75 - 130
Vinyl chloride	50.00	56.0	112	50 - 145
Xylenes (total)	150.0	147	97.7	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L19009	Laboratory ID:	1L19009-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	96.5	96.5	40 - 140
Benzene	50.00	50.2	100	80 - 120
Bromobenzene	50.00	48.9	97.8	75 - 125
Bromochloromethane	50.00	51.0	102	65 - 130
Bromodichloromethane	50.00	47.9	95.8	75 - 120
Bromoform	50.00	47.2	94.4	70 - 130
Bromomethane	50.00	40.1	80.2	30 - 145
n-Butylbenzene	50.00	51.8	104	70 - 135
2-Butanone	100.0	108	108	30 - 150
sec-Butylbenzene	50.00	49.9	99.8	70 - 125
tert-Butylbenzene	50.00	49.5	99.0	70 - 130
Carbon disulfide	50.00	43.8	87.6	35 - 160
Carbon tetrachloride	50.00	51.5	103	65 - 140
Chlorobenzene	50.00	49.9	99.9	80 - 120
Chloroethane	50.00	55.2	110	60 - 135
Chloroform	50.00	45.4	90.9	65 - 135
Chloromethane	50.00	38.7	77.4	40 - 125
2-Chlorotoluene	50.00	47.7	95.3	75 - 125
4-Chlorotoluene	50.00	47.8	95.6	75 - 130
Dibromochloromethane	50.00	53.6	107	60 - 135
1,2-Dibromo-3-chloropropane	50.00	55.4	111	50 - 130
1,2-Dibromoethane (EDB)	50.00	50.5	101	80 - 120
Dibromomethane	50.00	49.1	98.3	75 - 125
1,2-Dichlorobenzene	50.00	49.7	99.4	70 - 120
1,3-Dichlorobenzene	50.00	49.1	98.2	75 - 125
1,4-Dichlorobenzene	50.00	49.7	99.4	75 - 125
Dichlorodifluoromethane	50.00	43.5	87.0	30 - 155
1,1-Dichloroethane	50.00	49.9	99.9	70 - 135
1,2-Dichloroethane	50.00	46.8	93.6	70 - 130
1,1-Dichloroethene	50.00	47.3	94.7	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L19009	Laboratory ID:	1L19009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	50.2	100	70 - 125
trans-1,2-Dichloroethene	50.00	49.4	98.8	60 - 140
1,2-Dichloropropane	50.00	50.3	101	75 - 125
1,3-Dichloropropane	50.00	50.1	100	75 - 125
2,2-Dichloropropane	50.00	52.9	106	70 - 135
1,1-Dichloropropene	50.00	48.4	96.8	75 - 130
cis-1,3-Dichloropropene	50.00	53.8	108	70 - 130
trans-1,3-Dichloropropene	50.00	47.5	95.1	55 - 140
Ethylbenzene	50.00	49.7	99.4	75 - 125
Hexachlorobutadiene	50.00	55.2	110	50 - 140
2-Hexanone	100.0	103	103	55 - 130
Isopropylbenzene	50.00	47.4	94.8	75 - 125
p-Isopropyltoluene	50.00	47.0	93.9	75 - 130
Methylene chloride	50.00	46.6	93.1	55 - 140
Naphthalene	50.00	53.6	107	55 - 140
4-Methyl-2-pentanone	100.0	106	106	60 - 135
Methyl t-Butyl Ether	50.00	52.2	104	65 - 125
n-Propylbenzene	50.00	48.4	96.7	70 - 130
Styrene	50.00	50.3	101	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.3	101	65 - 130
1,1,1,2-Tetrachloroethane	50.00	51.1	102	80 - 130
Tetrachloroethene	50.00	50.7	101	45 - 150
Toluene	50.00	50.0	99.9	75 - 120
1,2,3-Trichlorobenzene	50.00	50.3	101	55 - 140
1,2,4-Trichlorobenzene	50.00	50.7	101	65 - 135
1,1,2-Trichloroethane	50.00	53.7	107	75 - 125
1,1,1-Trichloroethane	50.00	51.2	102	65 - 130
Trichloroethene	50.00	49.4	98.7	70 - 125
Trichlorofluoromethane	50.00	49.3	98.6	60 - 145
1,2,3-Trichloropropane	50.00	48.5	97.1	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L19009	Laboratory ID:	1L19009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	50.0	100	75 - 130
1,2,4-Trimethylbenzene	50.00	49.0	98.1	75 - 130
Vinyl chloride	50.00	55.8	112	50 - 145
Xylenes (total)	150.0	148	98.6	75 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	88.8	88.8	8.36	30	40 - 140
Benzene	50.00	50.2	100	0.0733	30	80 - 120
Bromobenzene	50.00	49.5	99.1	1.31	30	75 - 125
Bromochloromethane	50.00	51.0	102	0.134	30	65 - 130
Bromodichloromethane	50.00	46.8	93.6	2.28	30	75 - 120
Bromoform	50.00	44.6	89.2	5.59	30	70 - 130
Bromomethane	50.00	35.2	70.3	13.2	30	30 - 145
n-Butylbenzene	50.00	50.5	101	2.56	30	70 - 135
2-Butanone	100.0	105	105	2.54	30	30 - 150
sec-Butylbenzene	50.00	50.2	100	0.606	30	70 - 125
tert-Butylbenzene	50.00	50.1	100	1.15	30	70 - 130
Carbon disulfide	50.00	43.1	86.2	1.68	30	35 - 160
Carbon tetrachloride	50.00	50.4	101	2.32	30	65 - 140
Chlorobenzene	50.00	48.5	97.0	2.91	30	80 - 120
Chloroethane	50.00	54.7	109	1.03	30	60 - 135
Chloroform	50.00	45.1	90.1	0.829	30	65 - 135
Chloromethane	50.00	40.5	81.0	4.58	30	40 - 125
2-Chlorotoluene	50.00	47.8	95.7	0.357	30	75 - 125
4-Chlorotoluene	50.00	48.5	97.0	1.50	30	75 - 130
Dibromochloromethane	50.00	51.6	103	3.79	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	54.9	110	0.930	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	50.4	101	0.131	30	80 - 120
Dibromomethane	50.00	49.0	98.1	0.234	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L19009	Laboratory ID:	1L19009-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.
1,2-Dichlorobenzene	50.00	48.8	97.7	1.79	30	70 - 120
1,3-Dichlorobenzene	50.00	48.7	97.5	0.785	30	75 - 125
1,4-Dichlorobenzene	50.00	49.0	98.0	1.43	30	75 - 125
Dichlorodifluoromethane	50.00	44.5	89.0	2.24	30	30 - 155
1,1-Dichloroethane	50.00	49.3	98.6	1.29	30	70 - 135
1,2-Dichloroethane	50.00	46.0	92.0	1.68	30	70 - 130
1,1-Dichloroethene	50.00	46.9	93.8	0.927	30	70 - 130
cis-1,2-Dichloroethene	50.00	49.9	99.8	0.614	30	70 - 125
trans-1,2-Dichloroethene	50.00	47.8	95.7	3.17	30	60 - 140
1,2-Dichloropropane	50.00	49.9	99.8	0.803	30	75 - 125
1,3-Dichloropropane	50.00	49.8	99.6	0.621	30	75 - 125
2,2-Dichloropropane	50.00	45.0	90.0	16.2	30	70 - 135
1,1-Dichloropropene	50.00	48.4	96.9	0.0650	30	75 - 130
cis-1,3-Dichloropropene	50.00	52.0	104	3.49	30	70 - 130
trans-1,3-Dichloropropene	50.00	45.3	90.7	4.73	30	55 - 140
Ethylbenzene	50.00	49.8	99.6	0.252	30	75 - 125
Hexachlorobutadiene	50.00	47.1	94.3	15.7	30	50 - 140
2-Hexanone	100.0	103	103	0.609	30	55 - 130
Isopropylbenzene	50.00	47.2	94.4	0.397	30	75 - 125
p-Isopropyltoluene	50.00	46.8	93.7	0.248	30	75 - 130
Methylene chloride	50.00	47.3	94.6	1.56	30	55 - 140
Naphthalene	50.00	51.0	102	5.07	30	55 - 140
4-Methyl-2-pentanone	100.0	107	107	1.27	30	60 - 135
Methyl t-Butyl Ether	50.00	50.1	100	4.24	30	65 - 125
n-Propylbenzene	50.00	49.4	98.8	2.11	30	70 - 130
Styrene	50.00	49.3	98.6	2.04	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	51.7	103	2.72	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	50.0	100	2.11	30	80 - 130
Tetrachloroethene	50.00	49.2	98.5	2.83	30	45 - 150
Toluene	50.00	49.5	99.0	1.00	30	75 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L19009	Laboratory ID:	1L19009-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.
1,2,3-Trichlorobenzene	50.00	48.0	96.0	4.66	30	55 - 140
1,2,4-Trichlorobenzene	50.00	49.2	98.5	2.96	30	65 - 135
1,1,2-Trichloroethane	50.00	52.6	105	1.92	30	75 - 125
1,1,1-Trichloroethane	50.00	49.7	99.4	2.96	30	65 - 130
Trichloroethene	50.00	49.1	98.3	0.470	30	70 - 125
Trichlorofluoromethane	50.00	49.5	99.0	0.390	30	60 - 145
1,2,3-Trichloropropane	50.00	48.3	96.5	0.545	30	75 - 125
1,3,5-Trimethylbenzene	50.00	51.1	102	2.13	30	75 - 130
1,2,4-Trimethylbenzene	50.00	49.8	99.6	1.55	30	75 - 130
Vinyl chloride	50.00	54.1	108	3.09	30	50 - 145
Xylenes (total)	150.0	147	97.8	0.747	30	75 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L20009	Laboratory ID:	1L20009-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	101	101	40 - 140
Benzene	50.00	51.1	102	80 - 120
Bromobenzene	50.00	50.3	101	75 - 125
Bromochloromethane	50.00	52.1	104	65 - 130
Bromodichloromethane	50.00	48.3	96.7	75 - 120
Bromoform	50.00	47.0	94.1	70 - 130
Bromomethane	50.00	38.3	76.6	30 - 145
n-Butylbenzene	50.00	53.7	107	70 - 135
2-Butanone	100.0	111	111	30 - 150
sec-Butylbenzene	50.00	51.9	104	70 - 125
tert-Butylbenzene	50.00	51.6	103	70 - 130
Carbon disulfide	50.00	45.4	90.7	35 - 160
Carbon tetrachloride	50.00	51.3	103	65 - 140
Chlorobenzene	50.00	50.2	100	80 - 120
Chloroethane	50.00	56.7	113	60 - 135
Chloroform	50.00	46.0	91.9	65 - 135
Chloromethane	50.00	39.5	78.9	40 - 125
2-Chlorotoluene	50.00	49.3	98.7	75 - 125
4-Chlorotoluene	50.00	49.2	98.4	75 - 130
Dibromochloromethane	50.00	54.3	109	60 - 135
1,2-Dibromo-3-chloropropane	50.00	56.2	112	50 - 130
1,2-Dibromoethane (EDB)	50.00	50.8	102	80 - 120
Dibromomethane	50.00	49.7	99.4	75 - 125
1,2-Dichlorobenzene	50.00	50.7	101	70 - 120
1,3-Dichlorobenzene	50.00	50.3	101	75 - 125
1,4-Dichlorobenzene	50.00	50.9	102	75 - 125
Dichlorodifluoromethane	50.00	45.0	90.1	30 - 155
1,1-Dichloroethane	50.00	50.5	101	70 - 135
1,2-Dichloroethane	50.00	47.1	94.1	70 - 130
1,1-Dichloroethene	50.00	48.3	96.6	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L20009	Laboratory ID:	1L20009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	51.0	102	70 - 125
trans-1,2-Dichloroethene	50.00	50.1	100	60 - 140
1,2-Dichloropropane	50.00	51.0	102	75 - 125
1,3-Dichloropropane	50.00	51.6	103	75 - 125
2,2-Dichloropropane	50.00	53.0	106	70 - 135
1,1-Dichloropropene	50.00	50.0	100	75 - 130
cis-1,3-Dichloropropene	50.00	54.2	108	70 - 130
trans-1,3-Dichloropropene	50.00	48.2	96.5	55 - 140
Ethylbenzene	50.00	50.6	101	75 - 125
Hexachlorobutadiene	50.00	56.9	114	50 - 140
2-Hexanone	100.0	106	106	55 - 130
Isopropylbenzene	50.00	47.9	95.8	75 - 125
p-Isopropyltoluene	50.00	48.6	97.2	75 - 130
Methylene chloride	50.00	47.8	95.5	55 - 140
Naphthalene	50.00	54.7	109	55 - 140
4-Methyl-2-pentanone	100.0	106	106	60 - 135
Methyl t-Butyl Ether	50.00	52.6	105	65 - 125
n-Propylbenzene	50.00	50.6	101	70 - 130
Styrene	50.00	51.3	103	65 - 135
1,1,2,2-Tetrachloroethane	50.00	51.1	102	65 - 130
1,1,1,2-Tetrachloroethane	50.00	52.1	104	80 - 130
Tetrachloroethene	50.00	51.3	103	45 - 150
Toluene	50.00	51.0	102	75 - 120
1,2,3-Trichlorobenzene	50.00	51.5	103	55 - 140
1,2,4-Trichlorobenzene	50.00	51.9	104	65 - 135
1,1,2-Trichloroethane	50.00	54.0	108	75 - 125
1,1,1-Trichloroethane	50.00	50.9	102	65 - 130
Trichloroethene	50.00	49.6	99.2	70 - 125
Trichlorofluoromethane	50.00	50.4	101	60 - 145
1,2,3-Trichloropropane	50.00	49.7	99.4	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L20009	Laboratory ID:	1L20009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	52.2	104	75 - 130
1,2,4-Trimethylbenzene	50.00	51.3	103	75 - 130
Vinyl chloride	50.00	56.6	113	50 - 145
Xylenes (total)	150.0	153	102	75 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	106	106	5.25	30	40 - 140
Benzene	50.00	50.8	102	0.494	30	80 - 120
Bromobenzene	50.00	50.2	100	0.132	30	75 - 125
Bromochloromethane	50.00	51.3	103	1.62	30	65 - 130
Bromodichloromethane	50.00	47.7	95.4	1.30	30	75 - 120
Bromoform	50.00	43.8	87.5	7.20	30	70 - 130
Bromomethane	50.00	39.5	79.0	3.17	30	30 - 145
n-Butylbenzene	50.00	52.8	106	1.85	30	70 - 135
2-Butanone	100.0	106	106	4.57	30	30 - 150
sec-Butylbenzene	50.00	52.1	104	0.386	30	70 - 125
tert-Butylbenzene	50.00	51.0	102	1.20	30	70 - 130
Carbon disulfide	50.00	43.7	87.3	3.83	30	35 - 160
Carbon tetrachloride	50.00	50.6	101	1.35	30	65 - 140
Chlorobenzene	50.00	49.8	99.6	0.746	30	80 - 120
Chloroethane	50.00	56.1	112	1.14	30	60 - 135
Chloroform	50.00	45.2	90.5	1.61	30	65 - 135
Chloromethane	50.00	41.5	83.0	4.99	30	40 - 125
2-Chlorotoluene	50.00	50.1	100	1.46	30	75 - 125
4-Chlorotoluene	50.00	48.8	97.6	0.790	30	75 - 130
Dibromochloromethane	50.00	51.7	103	4.96	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.1	100	11.4	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.3	98.5	2.97	30	80 - 120
Dibromomethane	50.00	48.5	97.0	2.47	30	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L20009	Laboratory ID:	1L20009-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.
1,2-Dichlorobenzene	50.00	50.4	101	0.660	30	70 - 120
1,3-Dichlorobenzene	50.00	50.0	100	0.531	30	75 - 125
1,4-Dichlorobenzene	50.00	50.7	101	0.367	30	75 - 125
Dichlorodifluoromethane	50.00	43.6	87.2	3.26	30	30 - 155
1,1-Dichloroethane	50.00	49.4	98.8	2.21	30	70 - 135
1,2-Dichloroethane	50.00	46.5	92.9	1.29	30	70 - 130
1,1-Dichloroethene	50.00	47.0	94.0	2.75	30	70 - 130
cis-1,2-Dichloroethene	50.00	50.2	100	1.61	30	70 - 125
trans-1,2-Dichloroethene	50.00	49.5	99.1	1.20	30	60 - 140
1,2-Dichloropropane	50.00	50.6	101	0.840	30	75 - 125
1,3-Dichloropropane	50.00	49.5	99.1	4.03	30	75 - 125
2,2-Dichloropropane	50.00	50.7	101	4.57	30	70 - 135
1,1-Dichloropropene	50.00	48.8	97.6	2.53	30	75 - 130
cis-1,3-Dichloropropene	50.00	52.7	105	2.81	30	70 - 130
trans-1,3-Dichloropropene	50.00	46.3	92.6	4.12	30	55 - 140
Ethylbenzene	50.00	50.1	100	0.890	30	75 - 125
Hexachlorobutadiene	50.00	50.4	101	12.1	30	50 - 140
2-Hexanone	100.0	98.1	98.1	8.14	30	55 - 130
Isopropylbenzene	50.00	47.8	95.5	0.255	30	75 - 125
p-Isopropyltoluene	50.00	47.9	95.9	1.41	30	75 - 130
Methylene chloride	50.00	47.7	95.5	0.0570	30	55 - 140
Naphthalene	50.00	49.0	98.0	11.0	30	55 - 140
4-Methyl-2-pentanone	100.0	96.7	96.7	9.57	30	60 - 135
Methyl t-Butyl Ether	50.00	49.0	98.1	7.10	30	65 - 125
n-Propylbenzene	50.00	51.2	102	1.13	30	70 - 130
Styrene	50.00	50.0	100	2.45	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.1	98.1	4.00	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	51.5	103	1.06	30	80 - 130
Tetrachloroethene	50.00	50.4	101	1.70	30	45 - 150
Toluene	50.00	50.2	100	1.60	30	75 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L20009	Laboratory ID:	1L20009-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.
1,2,3-Trichlorobenzene	50.00	48.2	96.3	6.66	30	55 - 140
1,2,4-Trichlorobenzene	50.00	49.6	99.2	4.53	30	65 - 135
1,1,2-Trichloroethane	50.00	51.9	104	3.97	30	75 - 125
1,1,1-Trichloroethane	50.00	50.3	101	1.26	30	65 - 130
Trichloroethene	50.00	49.8	99.7	0.510	30	70 - 125
Trichlorofluoromethane	50.00	49.7	99.4	1.49	30	60 - 145
1,2,3-Trichloropropane	50.00	47.0	94.1	5.51	30	75 - 125
1,3,5-Trimethylbenzene	50.00	51.9	104	0.523	30	75 - 130
1,2,4-Trimethylbenzene	50.00	50.5	101	1.52	30	75 - 130
Vinyl chloride	50.00	55.5	111	1.93	30	50 - 145
Xylenes (total)	150.0	151	101	1.57	30	75 - 130

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L14009 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0259	1112084-01	12/14/11 00:00	5.00	5.00
GW0260	1112084-03	12/14/11 00:00	5.00	5.00
GW8149-TB	1112084-05	12/14/11 00:00	5.00	5.00
Blank	1L14009-BLK1	12/14/11 00:00	5.00	5.00
LCS	1L14009-BS1	12/14/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L15008 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0255	1112091-01	12/15/11 00:00	5.00	5.00
GW0273	1112091-03	12/15/11 00:00	5.00	5.00
GW8150-TB	1112091-05	12/15/11 00:00	5.00	5.00
GW8036-AB	1112091-06	12/15/11 00:00	5.00	5.00
Blank	1L15008-BLK1	12/15/11 00:00	5.00	5.00
LCS	1L15008-BS1	12/15/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L19009 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0320	1112109-01	12/19/11 00:00	5.00	5.00
GW0326	1112109-03	12/19/11 00:00	5.00	5.00
GW0334	1112109-05	12/19/11 00:00	5.00	5.00
GW8151-TB	1112109-07	12/19/11 00:00	5.00	5.00
GW0264	1112117-01	12/19/11 00:00	5.00	5.00
GW0265	1112117-03	12/19/11 00:00	5.00	5.00
GW0276	1112117-05	12/19/11 00:00	5.00	5.00
GW8034-RB	1112117-07	12/19/11 00:00	5.00	5.00
GW8152-TB	1112117-09	12/19/11 00:00	5.00	5.00
Blank	1L19009-BLK1	12/19/11 00:00	5.00	5.00
LCS	1L19009-BS1	12/19/11 00:00	5.00	5.00
LCS Dup	1L19009-BSD1	12/19/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L20009 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0320	1112109-01RE1	12/20/11 00:00	5.00	5.00
Blank	1L20009-BLK1	12/20/11 00:00	5.00	5.00
LCS	1L20009-BS1	12/20/11 00:00	5.00	5.00
LCS Dup	1L20009-BSD1	12/20/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1202TUN1.D	Injection Date:	12/02/11
Instrument ID:	MS-VOA6	Injection Time:	11:11
Sequence:	1L33901	Lab Sample ID:	1L33901-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	29.9	PASS
75	30 - 60% of 95	53.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.98	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	52.9	PASS
175	5 - 9% of 174	7.77	PASS
176	95 - 101% of 174	95.3	PASS
177	5 - 9% of 176	6.78	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1214TUN1.D	Injection Date:	12/14/11
Instrument ID:	MS-VOA6	Injection Time:	07:18
Sequence:	1L34906	Lab Sample ID:	1L34906-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	24.4	PASS
75	30 - 60% of 95	48.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.67	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	74.7	PASS
175	5 - 9% of 174	7.25	PASS
176	95 - 101% of 174	97	PASS
177	5 - 9% of 176	6.21	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1215TUN1.D	Injection Date:	12/15/11
Instrument ID:	MS-VOA6	Injection Time:	07:41
Sequence:	1L35002	Lab Sample ID:	1L35002-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.8	PASS
75	30 - 60% of 95	50.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.83	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	69.1	PASS
175	5 - 9% of 174	7.79	PASS
176	95 - 101% of 174	96.8	PASS
177	5 - 9% of 176	6.88	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1219TUN1.D	Injection Date:	12/19/11
Instrument ID:	MS-VOA6	Injection Time:	07:19
Sequence:	1L35401	Lab Sample ID:	1L35401-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	27.3	PASS
75	30 - 60% of 95	51.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.8	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	60.3	PASS
175	5 - 9% of 174	7.57	PASS
176	95 - 101% of 174	95.5	PASS
177	5 - 9% of 176	7.15	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1220TUN1.D	Injection Date:	12/20/11
Instrument ID:	MS-VOA6	Injection Time:	07:04
Sequence:	1L35502	Lab Sample ID:	1L35502-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	24.7	PASS
75	30 - 60% of 95	50.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.73	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	69.8	PASS
175	5 - 9% of 174	7.28	PASS
176	95 - 101% of 174	97.4	PASS
177	5 - 9% of 176	6.44	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33901	Instrument:	MS-VOA6
Calibration:	1339001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1L33901-TUN1	1202TUN1.D	12/02/11 11:11
Cal Standard	1L33901-CAL1	1201CAL1.D	12/02/11 12:56
Cal Standard	1L33901-CAL2	1201CAL2.D	12/02/11 13:22
Cal Standard	1L33901-CAL3	1201CAL3.D	12/02/11 13:49
Cal Standard	1L33901-CAL4	1201CAL4.D	12/02/11 14:16
Cal Standard	1L33901-CAL5	1201CAL5.D	12/02/11 14:43
Cal Standard	1L33901-CAL6	1201CAL6.D	12/02/11 15:10
Cal Standard	1L33901-CAL7	1201CAL7.D	12/02/11 15:37
Cal Standard	1L33901-CAL8	1201CAL8.D	12/02/11 16:03
Cal Standard	1L33901-CAL9	1201CAL9.D	12/02/11 16:30
Initial Cal Check	1L33901-ICV2	1202ICV2.D	12/02/11 17:51

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L34906	Instrument:	MS-VOA6
Calibration:	1339001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1L34906-TUN1	1214TUN1.D	12/14/11 07:18
Calibration Check	1L34906-CCV1	1214CCV1.D	12/14/11 07:45
LCS	1L14009-BS1	1214LCS1.D	12/14/11 08:11
Blank	1L14009-BLK1	1214BLK1.D	12/14/11 09:32
GW8149-TB	1112084-05	1208405.D	12/14/11 13:07
GW0260	1112084-03	1208403.D	12/14/11 13:34
GW0259	1112084-01	1208401D.D	12/14/11 15:48

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35002	Instrument:	MS-VOA6
Calibration:	1339001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1L35002-TUN1	1215TUN1.D	12/15/11 07:41
Calibration Check	1L35002-CCV1	1215CCV1.D	12/15/11 08:08
LCS	1L15008-BS1	1215LCS1.D	12/15/11 08:35
Blank	1L15008-BLK1	1215BLK1.D	12/15/11 10:22
GW8150-TB	1112091-05	1209105.D	12/15/11 10:49
GW8036-AB	1112091-06	1209106.D	12/15/11 11:16
GW0255	1112091-01	1209101.D	12/15/11 12:37
GW0273	1112091-03	1209103.D	12/15/11 13:04

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35401	Instrument:	MS-VOA6
Calibration:	1339001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1L35401-TUN1	1219TUN1.D	12/19/11 07:19
Calibration Check	1L35401-CCV1	1219CCV1.D	12/19/11 07:46
LCS	1L19009-BS1	1219LCS1.D	12/19/11 08:21
Blank	1L19009-BLK1	1219BLK1.D	12/19/11 09:41
GW8151-TB	1112109-07	1210907.D	12/19/11 11:02
GW8034-RB	1112117-07	1211707.D	12/19/11 11:56
GW8152-TB	1112117-09	1211709.D	12/19/11 12:23
GW0320	1112109-01	1210901.D	12/19/11 12:50
GW0326	1112109-03	1210903.D	12/19/11 13:16
GW0276	1112117-05	1211705.D	12/19/11 15:04
GW0334	1112109-05	1210905D.D	12/19/11 15:58
GW0264	1112117-01	1211701D.D	12/19/11 16:25
GW0265	1112117-03	1211703D.D	12/19/11 16:51
LCS Dup	1L19009-BSD1	1219LCD1.D	12/19/11 17:18

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35502	Instrument:	MS-VOA6
Calibration:	1339001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1L35502-TUN1	1220TUN1.D	12/20/11 07:04
Calibration Check	1L35502-CCV1	1220CCV1.D	12/20/11 07:31
LCS	1L20009-BS1	1220LCS1.D	12/20/11 08:17
Blank	1L20009-BLK1	1220BLK1.D	12/20/11 09:38
GW0320	1112109-01RE1	1210901D.D	12/20/11 10:05
LCS Dup	1L20009-BSD1	1220LCD1.D	12/20/11 10:32

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L34906	Instrument:	MS-VOA6
		Calibration:	1339001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1L34906-CCV1)			Lab File ID: 1214CCV1.D			Analyzed: 12/14/11 07:45			
Fluorobenzene	984856	7.923	912087	7.912	108	50 - 200	0.0110	+/-0.50	
Chlorobenzene-d5	411595	11.035	399003	11.023	103	50 - 200	0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	341397	13.427	322907	13.406	106	50 - 200	0.0210	+/-0.50	
LCS (1L14009-BS1)			Lab File ID: 1214LCS1.D			Analyzed: 12/14/11 08:11			
Fluorobenzene	973181	7.924	984856	7.923	99	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	411557	11.035	411595	11.035	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	342686	13.428	341397	13.427	100	50 - 200	0.0010	+/-0.50	
Blank (1L14009-BLK1)			Lab File ID: 1214BLK1.D			Analyzed: 12/14/11 09:32			
Fluorobenzene	947599	7.922	984856	7.923	96	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	402359	11.033	411595	11.035	98	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	341737	13.425	341397	13.427	100	50 - 200	-0.0020	+/-0.50	
GW8149-TB (1112084-05)			Lab File ID: 1208405.D			Analyzed: 12/14/11 13:07			
Fluorobenzene	928379	7.932	984856	7.923	94	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	403440	11.034	411595	11.035	98	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	338665	13.426	341397	13.427	99	50 - 200	-0.0010	+/-0.50	
GW0260 (1112084-03)			Lab File ID: 1208403.D			Analyzed: 12/14/11 13:34			
Fluorobenzene	940901	7.925	984856	7.923	96	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	405423	11.036	411595	11.035	99	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	333435	13.429	341397	13.427	98	50 - 200	0.0020	+/-0.50	
GW0259 (1112084-01)			Lab File ID: 1208401D.D			Analyzed: 12/14/11 15:48			
Fluorobenzene	950076	7.932	984856	7.923	96	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	407462	11.033	411595	11.035	99	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	340286	13.425	341397	13.427	100	50 - 200	-0.0020	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35002	Instrument:	MS-VOA6
		Calibration:	1339001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1L35002-CCV1)			Lab File ID: 1215CCV1.D			Analyzed: 12/15/11 08:08			
Fluorobenzene	983279	7.937	912087	7.912	108	50 - 200	0.0250	+/-0.50	
Chlorobenzene-d5	409037	11.038	399003	11.023	103	50 - 200	0.0150	+/-0.50	
1,4-Dichlorobenzene-d4	349152	13.431	322907	13.406	108	50 - 200	0.0250	+/-0.50	
LCS (1L15008-BS1)			Lab File ID: 1215LCS1.D			Analyzed: 12/15/11 08:35			
Fluorobenzene	976164	7.938	983279	7.937	99	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	415394	11.039	409037	11.038	102	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	351664	13.432	349152	13.431	101	50 - 200	0.0010	+/-0.50	
Blank (1L15008-BLK1)			Lab File ID: 1215BLK1.D			Analyzed: 12/15/11 10:22			
Fluorobenzene	955667	7.928	983279	7.937	97	50 - 200	-0.0090	+/-0.50	
Chlorobenzene-d5	409809	11.039	409037	11.038	100	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	348475	13.432	349152	13.431	100	50 - 200	0.0010	+/-0.50	
GW8150-TB (1112091-05)			Lab File ID: 1209105.D			Analyzed: 12/15/11 10:49			
Fluorobenzene	952306	7.932	983279	7.937	97	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	411657	11.043	409037	11.038	101	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	342815	13.435	349152	13.431	98	50 - 200	0.0040	+/-0.50	
GW8036-AB (1112091-06)			Lab File ID: 1209106.D			Analyzed: 12/15/11 11:16			
Fluorobenzene	931813	7.937	983279	7.937	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	399670	11.038	409037	11.038	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	342363	13.431	349152	13.431	98	50 - 200	0.0000	+/-0.50	
GW0255 (1112091-01)			Lab File ID: 1209101.D			Analyzed: 12/15/11 12:37			
Fluorobenzene	945978	7.938	983279	7.937	96	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	404672	11.039	409037	11.038	99	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	337036	13.432	349152	13.431	97	50 - 200	0.0010	+/-0.50	
GW0273 (1112091-03)			Lab File ID: 1209103.D			Analyzed: 12/15/11 13:04			
Fluorobenzene	939409	7.931	983279	7.937	96	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	406956	11.042	409037	11.038	99	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	337817	13.435	349152	13.431	97	50 - 200	0.0040	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35401	Instrument:	MS-VOA6
		Calibration:	1339001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1L35401-CCV1)			Lab File ID: 1219CCV1.D			Analyzed: 12/19/11 07:46			
Fluorobenzene	959264	7.928	912087	7.912	105	50 - 200	0.0160	+/-0.50	
Chlorobenzene-d5	405469	11.039	399003	11.023	102	50 - 200	0.0160	+/-0.50	
1,4-Dichlorobenzene-d4	339536	13.432	322907	13.406	105	50 - 200	0.0260	+/-0.50	
LCS (1L19009-BS1)			Lab File ID: 1219LCS1.D			Analyzed: 12/19/11 08:21			
Fluorobenzene	963284	7.922	959264	7.928	100	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	414983	11.033	405469	11.039	102	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	350742	13.426	339536	13.432	103	50 - 200	-0.0060	+/-0.50	
Blank (1L19009-BLK1)			Lab File ID: 1219BLK1.D			Analyzed: 12/19/11 09:41			
Fluorobenzene	954033	7.928	959264	7.928	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	413945	11.039	405469	11.039	102	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	347913	13.422	339536	13.432	102	50 - 200	-0.0100	+/-0.50	
GW8151-TB (1112109-07)			Lab File ID: 1210907.D			Analyzed: 12/19/11 11:02			
Fluorobenzene	925877	7.927	959264	7.928	97	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	400952	11.038	405469	11.039	99	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	333925	13.431	339536	13.432	98	50 - 200	-0.0010	+/-0.50	
GW8034-RB (1112117-07)			Lab File ID: 1211707.D			Analyzed: 12/19/11 11:56			
Fluorobenzene	939060	7.925	959264	7.928	98	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	405662	11.037	405469	11.039	100	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	336725	13.429	339536	13.432	99	50 - 200	-0.0030	+/-0.50	
GW8152-TB (1112117-09)			Lab File ID: 1211709.D			Analyzed: 12/19/11 12:23			
Fluorobenzene	941841	7.926	959264	7.928	98	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	408188	11.037	405469	11.039	101	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	339489	13.43	339536	13.432	100	50 - 200	-0.0020	+/-0.50	
GW0320 (1112109-01)			Lab File ID: 1210901.D			Analyzed: 12/19/11 12:50			
Fluorobenzene	941755	7.928	959264	7.928	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	407289	11.04	405469	11.039	100	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	339641	13.432	339536	13.432	100	50 - 200	0.0000	+/-0.50	
GW0326 (1112109-03)			Lab File ID: 1210903.D			Analyzed: 12/19/11 13:16			
Fluorobenzene	944137	7.932	959264	7.928	98	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	411117	11.043	405469	11.039	101	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	345754	13.435	339536	13.432	102	50 - 200	0.0030	+/-0.50	
GW0276 (1112117-05)			Lab File ID: 1211705.D			Analyzed: 12/19/11 15:04			
Fluorobenzene	944370	7.932	959264	7.928	98	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	407025	11.043	405469	11.039	100	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	335865	13.436	339536	13.432	99	50 - 200	0.0040	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35401	Instrument:	MS-VOA6
		Calibration:	1339001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0334 (1112109-05)			Lab File ID: 1210905D.D			Analyzed: 12/19/11 15:58			
Fluorobenzene	940207	7.928	959264	7.928	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	409503	11.039	405469	11.039	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	340235	13.431	339536	13.432	100	50 - 200	-0.0010	+/-0.50	
GW0264 (1112117-01)			Lab File ID: 1211701D.D			Analyzed: 12/19/11 16:25			
Fluorobenzene	956392	7.938	959264	7.928	100	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	421823	11.039	405469	11.039	104	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	353233	13.431	339536	13.432	104	50 - 200	-0.0010	+/-0.50	
GW0265 (1112117-03)			Lab File ID: 1211703D.D			Analyzed: 12/19/11 16:51			
Fluorobenzene	949519	7.931	959264	7.928	99	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	411305	11.042	405469	11.039	101	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	338269	13.435	339536	13.432	100	50 - 200	0.0030	+/-0.50	
LCS Dup (1L19009-BSD1)			Lab File ID: 1219LCD1.D			Analyzed: 12/19/11 17:18			
Fluorobenzene	963957	7.935	959264	7.928	100	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	417480	11.036	405469	11.039	103	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	342983	13.429	339536	13.432	101	50 - 200	-0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35502	Instrument:	MS-VOA6
		Calibration:	1339001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1L35502-CCV1)			Lab File ID: 1220CCV1.D			Analyzed: 12/20/11 07:31			
Fluorobenzene	1004801	7.935	912087	7.912	110	50 - 200	0.0230	+/-0.50	
Chlorobenzene-d5	424507	11.046	399003	11.023	106	50 - 200	0.0230	+/-0.50	
1,4-Dichlorobenzene-d4	352435	13.439	322907	13.406	109	50 - 200	0.0330	+/-0.50	
LCS (1L20009-BS1)			Lab File ID: 1220LCS1.D			Analyzed: 12/20/11 08:17			
Fluorobenzene	997292	7.942	1004801	7.935	99	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	424813	11.043	424507	11.046	100	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	355112	13.436	352435	13.439	101	50 - 200	-0.0030	+/-0.50	
Blank (1L20009-BLK1)			Lab File ID: 1220BLK1.D			Analyzed: 12/20/11 09:38			
Fluorobenzene	966161	7.943	1004801	7.935	96	50 - 200	0.0080	+/-0.50	
Chlorobenzene-d5	417231	11.044	424507	11.046	98	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	349833	13.437	352435	13.439	99	50 - 200	-0.0020	+/-0.50	
GW0320 (1112109-01RE1)			Lab File ID: 1210901D.D			Analyzed: 12/20/11 10:05			
Fluorobenzene	961494	7.934	1004801	7.935	96	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	417706	11.045	424507	11.046	98	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	346201	13.437	352435	13.439	98	50 - 200	-0.0020	+/-0.50	
LCS Dup (1L20009-BSD1)			Lab File ID: 1220LCD1.D			Analyzed: 12/20/11 10:32			
Fluorobenzene	955753	7.936	1004801	7.935	95	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	408125	11.047	424507	11.046	96	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	334635	13.439	352435	13.439	95	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	12/2/11 12:56 12/2/11 16:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	1	~~0.1335068~~	2	0.115004	4	0.1026466	10	8.805739E-02	20	9.520158E-02	100	8.970188E-02
Acrolein	2.502	~~5.448614E-02~~	5.005	3.794261E-02	10.01	3.488523E-02	25.02	4.195848E-02	50.05	3.095955E-02	250.2	3.152662E-02
Acrylonitrile	2.498	9.892984E-02	4.997	9.193731E-02	9.994	0.0854141	24.98	8.660182E-02	49.97	8.492225E-02	249.8	8.480822E-02
Benzene	0.5	1.002005	1	0.9758361	2	0.9595949	5	0.978979	10	0.9794671	50	0.9909189
Bromobenzene	0.5	0.7391788	1	0.6681687	2	0.6894439	5	0.6865754	10	0.6952162	50	0.6960435
Bromochloromethane	0.5	0.1324911	1	0.1218955	2	0.1282403	5	0.1260209	10	0.1296094	50	0.1341506
Tert-Amyl Methyl Ether	0.5	0.7624464	1	0.7558796	2	0.7334115	5	0.7284437	10	0.7254022	50	0.7422215
Bromodichloromethane	0.5	0.3331935	1	0.3240349	2	0.3209468	5	0.3336853	10	0.3364801	50	0.3567313
Bromoform	0.5	0.2331787	1	0.2405203	2	0.2240867	5	0.2703438	10	0.2829285	50	0.3404156
Bromomethane	0.5	0.1444822	1	0.1341993	2	0.1277955	5	0.131823	10	0.1269451	50	0.1435023
Bromofluorobenzene	30	0.8541456	35	0.8436867	40	0.8297531	50	0.7954482	60	0.7980153	70	0.8121436
n-Butylbenzene	0.5	1.98795	1	1.781137	2	1.882095	5	1.993521	10	2.02932	50	2.056779
2-Butanone	1	0.1303616	2	0.1540838	4	0.1595014	10	0.158452	20	0.1680283	100	0.1684123
sec-Butylbenzene	0.5	2.483589	1	2.363522	2	2.555168	5	2.619856	10	2.656116	50	2.736126
tert-Butylbenzene	0.5	1.953531	1	1.89139	2	1.934006	5	2.05692	10	2.032876	50	2.0767
Carbon disulfide	0.5	0.5808772	1	0.5571692	2	0.5490907	5	0.5657355	10	0.5841041	50	0.599884
Carbon tetrachloride	0.5	0.2254053	1	0.2244611	2	0.2392809	5	0.2581596	10	0.2718225	50	0.2852396
Chlorobenzene	0.5	1.533055	1	1.460602	2	1.445997	5	1.479192	10	1.487546	50	1.477133
Chloroethane	0.5	0.1324911	1	0.135107	2	0.1320625	5	0.1522552	10	0.1509981	50	0.1539355
Chloroform	0.5	0.6031557	1	0.5231151	2	0.4763212	5	0.4660608	10	0.456383	50	0.451927
2-Chloroethyl vinyl ether	0.9975	0.1822542	1.995	0.1767971	3.99	0.1830155	9.975	0.1841501	19.95	0.1870279	99.75	0.1888081
Chloromethane	0.5	0.3318831	1	0.336137	2	0.3108807	5	0.293972	10	0.3069757	50	0.3034021
1-Chlorohexane	0.5	0.8930669	1	0.7044626	2	0.687695	5	0.6963406	10	0.698309	50	0.6997354
2-Chlorotoluene	0.5	2.158745	1	1.992133	2	2.116465	5	2.120673	10	2.088939	50	2.058458
4-Chlorotoluene	0.5	2.550753	1	2.339514	2	2.37103	5	2.408384	10	2.367994	50	2.39072
Cyclohexane	0.5	0.4145098	1	0.4069009	2	0.4081318	5	0.4436222	10	0.4451632	50	0.4491153
Dibromochloromethane	0.5	~~0.4374949~~	1	0.4411956	2	0.4540983	5	0.4996053	10	0.5192106	50	0.5784628
1,2-Dibromo-3-chloropropane	0.5	~~9.060662E-02~~	1	9.390929E-02	2	0.1036358	5	0.1139957	10	0.1172084	50	0.1291988
1,2-Dibromoethane (EDB)	0.5	0.5783136	1	0.5343962	2	0.5237999	5	0.5272742	10	0.5423116	50	0.5557494
Dibromomethane	0.5	0.170561	1	0.1671104	2	0.1622774	5	0.1689247	10	0.1688625	50	0.169655
1,2-Dichlorobenzene	0.5	1.201701	1	1.162647	2	1.19531	5	1.216716	10	1.204904	50	1.216591

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	12/2/11_12:56 12/2/11_16:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.266818	1	1.245475	2	1.283741	5	1.262816	10	1.26732	50	1.280375
1,4-Dichlorobenzene	0.5	1.364867	1	1.232086	2	1.30333	5	1.285652	10	1.255977	50	1.277823
Dichlorodifluoromethane	0.5	0.1733786	1	0.1679845	2	0.1980608	5	0.2103747	10	0.2373484	50	0.234764
1,1-Dichloroethane	0.5	0.5333062	1	0.5024742	2	0.4966512	5	0.510471	10	0.5104416	50	0.5192727
1,2-Dichloroethane	0.5	0.4359364	1	0.4319456	2	0.4249197	5	0.4350177	10	0.4290417	50	0.4271111
1,1-Dichloroethene	0.5	0.1794724	1	0.1720521	2	0.1787358	5	0.1727927	10	0.177266	50	0.1754209
cis-1,2-Dichloroethene	0.5	0.2685206	1	0.2552207	2	0.2641415	5	0.2606396	10	0.2566904	50	0.2573129
trans-1,2-Dichloroethene	0.5	0.2340545	1	0.228159	2	0.2366285	5	0.2381549	10	0.2363687	50	0.2313858
1,2-Dichloroethene (total)	1	0.2512876	2	0.2416899	4	0.250385	10	0.2493973	20	0.2465295	100	0.2443493
1,2-Dichloropropane	0.5	0.2845742	1	0.2876612	2	0.292643	5	0.300695	10	0.2974696	50	0.3003158
1,3-Dichloropropane	0.5	0.937424	1	0.9039929	2	0.9104232	5	0.929181	10	0.9175159	50	0.9163508
2,2-Dichloropropane	0.5	0.3592724	1	0.3162693	2	0.3315072	5	0.3397636	10	0.3362344	50	0.3368897
1,1-Dichloropropene	0.5	0.3378458	1	0.336137	2	0.345725	5	0.3499206	10	0.3487637	50	0.3481776
cis-1,3-Dichloropropene	0.5	0.392559	1	0.3932188	2	0.386039	5	0.3991001	10	0.4014546	50	0.4224178
trans-1,3-Dichloropropene	0.5	0.9261829	1	0.845752	2	0.8467973	5	0.8682491	10	0.9171167	50	0.9478911
Diisopropyl Ether	0.5	1.212798	1	1.152023	2	1.180309	5	1.170869	10	1.187482	50	1.170344
Ethylbenzene	0.5	2.539445	1	2.461764	2	2.421141	5	2.486778	10	2.470395	50	2.534855
Ethyl tert-Butyl Ether	0.5	0.9231787	1	0.9304866	2	0.9137453	5	0.9168204	10	0.9091511	50	0.9219623
Ethyl Methacrylate	0.5	0.7680467	1	0.7746112	2	0.7892095	5	0.8097533	10	0.8173916	50	0.8206621
Hexachlorobutadiene	0.5	0.246703	1	0.2473776	2	0.2613283	5	0.2661757	10	0.2865042	50	0.2857134
2-Hexanone	1	0.4875486	2	0.5340527	4	0.4947607	10	0.5060864	20	0.5162769	100	0.5174374
Iodomethane	0.5	0.1737062	1	0.1821036	2	0.2086871	5	0.2429045	10	0.2606771	50	0.28194
Isopropylbenzene	0.5	2.026148	1	1.930269	2	1.998101	5	2.033473	10	2.077852	50	2.123442
p-Isopropyltoluene	0.5	2.145349	1	1.957228	2	2.161147	5	2.198788	10	2.20484	50	2.251905
Methylene chloride	0.5	0.2826084	1	0.2411016	2	0.2240252	5	0.2126442	10	0.2118662	50	0.209038
Methyl Acetate	0.5	~~0.2769733~~	1	0.2230492	2	0.1836618	5	0.1813248	10	0.1829438	50	0.1735973
Methylcyclohexane	0.5	0.274942	1	0.2619105	2	0.283483	5	0.311865	10	0.3164753	50	0.3224161
Naphthalene	0.5	1.5885	1	1.664697	2	1.633033	5	1.698935	10	1.700216	50	1.750177
Methyl Methacrylate	0.5	0.3451846	1	0.3392634	2	0.302149	5	0.3225679	10	0.3027173	50	0.3121504
4-Methyl-2-pentanone	1	0.3091787	2	0.3391121	4	0.3165892	10	0.313059	20	0.3127666	100	0.3168388
Methyl t-Butyl Ether	0.5	0.7098956	1	0.6671642	2	0.6562926	5	0.6598384	10	0.6532626	50	0.6610719

INITIAL CALIBRATION DATA

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	12/2/11_12:56 12/2/11_16:30

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	3.316723	1	3.053945	2	3.201376	5	3.311244	10	3.329717	50	3.354984
Styrene	0.5	1.614022	1	1.581587	2	1.583061	5	1.607236	10	1.619222	50	1.675655
1,1,2,2-Tetrachloroethane	0.5	0.8052268	1	0.7738051	2	0.8065123	5	0.8251726	10	0.8210343	50	0.809272
1,1,1,2-Tetrachloroethane	0.5	0.4501033	1	0.4262346	2	0.4443997	5	0.4567033	10	0.4761345	50	0.5069457
tert-Butyl alcohol	2.5	0.0153197	5	1.742036E-02	10	1.738757E-02	25	1.675366E-02	50	1.631297E-02	250	1.607894E-02
Tetrachloroethene	0.5	0.4897513	1	0.4618814	2	0.4568909	5	0.485064	10	0.4875532	50	0.4936236
Toluene	0.5	1.375223	1	1.295268	2	1.289121	5	1.297088	10	1.311957	50	1.298828
1,2,3-Trichlorobenzene	0.5	0.5873616	1	0.5966056	2	0.6072629	5	0.6305531	10	0.6251325	50	0.6535163
1,2,4-Trichlorobenzene	0.5	0.7255971	1	0.6719546	2	0.695274	5	0.7152276	10	0.7112657	50	0.7380298
1,1,2-Trichloroethane	0.5	0.4137973	1	0.4069228	2	0.4336822	5	0.3782678	10	0.4411404	50	0.4408192
1,1,1-Trichloroethane	0.5	0.3041005	1	0.3060161	2	0.3272402	5	0.3252387	10	0.3342038	50	0.3449766
Tetrahydrofuran	0.5	~~0.1486102~~	1	0.1211895	2	9.128721E-02	5	0.1038651	10	0.0824896	50	8.214604E-02
Trichloroethene	0.5	0.2489287	1	0.238345	2	0.239528	5	0.2488842	10	0.2437795	50	0.2512145
Trichlorofluoromethane	0.5	0.2765801	1	0.2766348	2	0.2887055	5	0.3094376	10	0.3154794	50	0.3167173
1,2,3-Trichloropropane	0.5	0.1917079	1	0.1813634	2	0.1695934	5	0.1724047	10	0.1719354	50	0.1780242
1,3,5-Trimethylbenzene	0.5	2.216234	1	2.064896	2	2.194122	5	2.219803	10	2.228759	50	2.215423
1,2,4-Trimethylbenzene	0.5	2.307027	1	2.196111	2	2.252003	5	2.331569	10	2.314326	50	2.322284
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.1418612	1	0.1570925	2	0.1615525	5	0.1714244	10	0.181049	50	0.1771013
Vinyl chloride	0.5	0.2279607	1	0.2161577	2	0.2166444	5	0.2024149	10	0.2247415	50	0.2158719
m,p-Xylene	1	1.986804	2	1.855235	4	1.882095	10	1.921309	20	1.933239	100	1.900597
o-Xylene	0.5	2.05972	1	1.98996	2	1.939758	5	1.979218	10	1.983467	50	1.994397
Vinyl acetate	0.996	0.7294896	1.992	0.7054183	3.984	0.7498626	9.96	0.7611268	19.92	0.7239881	99.62	0.7667232
Xylenes (total)	1.5	2.01111	3	1.900143	6	1.901316	15	1.940612	30	1.949982	150	1.931863
Dibromofluoromethane	30	0.2843011	35	0.282926	40	0.2744935	50	0.2732338	60	0.2679904	70	0.2718021
1,2-Dichloroethane-d4	30	6.265917E-02	35	6.214546E-02	40	6.073376E-02	50	5.965812E-02	60	5.817955E-02	70	5.887879E-02
Toluene-d8	30	2.190576	35	2.146662	40	2.085626	50	2.050112	60	2.031659	70	2.014296
tert-Amyl alcohol	2.5	1.344569E-02	5	1.530249E-02	10	1.413873E-02	25	1.493673E-02	50	1.475772E-02	250	1.523969E-02
tert-Amyl ethyl ether	0.5	0.7491449	1	0.7449877	2	0.7572341	5	0.7536715	10	0.7405085	50	0.7641413

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	12/2/11 12:56 12/2/11 16:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	200	8.840897E-02	300	8.644501E-02	400	9.108873E-02						
Acrolein	500.5	3.149494E-02	750.8	0.0318388	1001	3.384793E-02						
Acrylonitrile	499.7	8.496367E-02	749.6	8.649634E-02	999.4	9.186434E-02						
Benzene	100	0.9894263	150	0.9715035	200	0.9818608						
Bromobenzene	100	0.714747	150	0.7092306	200	0.7305181						
Bromochloromethane	100	0.1344122	150	0.1305726	200	0.1311365						
Tert-Amyl Methyl Ether	100	0.7537619	150	0.7446632	200	0.786556						
Bromodichloromethane	100	0.3589106	150	0.3571183	200	0.3630629						
Bromoform	100	0.3661335	150	0.391121	200	0.4160858						
Bromomethane	100	0.1574809	150	0.1587643	200	0.1680458						
Bromofluorobenzene	30	0.8980685	30	0.9115712	30	0.9192461						
n-Butylbenzene	100	2.073833	150	2.048648	200	2.092546						
2-Butanone	200	0.1640302	300	0.1697161	400	0.1806348						
sec-Butylbenzene	100	2.767019	150	2.730533	200	2.757759						
tert-Butylbenzene	100	2.089633	150	2.100392	200	2.129154						
Carbon disulfide	100	0.609053	150	0.6069116	200	0.6313036						
Carbon tetrachloride	100	0.2952832	150	0.2995244	200	0.3102955						
Chlorobenzene	100	1.527017	150	1.524809	200	1.546824						
Chloroethane	100	0.154309	150	0.1530577	200	0.1573824						
Chloroform	100	0.4550283	150	0.4438055	200	0.4509299						
2-Chloroethyl vinyl ether	199.5	0.1876605	299.2	0.1824008	399	0.1904231						
Chloromethane	100	0.3088806	150	0.2990345	200	0.3002767						
1-Chlorohexane	100	0.7122009	150	0.718332	200	0.7326156						
2-Chlorotoluene	100	2.099223	150	2.065336	200	2.121417						
4-Chlorotoluene	100	2.409792	150	2.36533	200	2.400291						
Cyclohexane	100	0.441049	150	0.4466005	200	0.4521092						
Dibromochloromethane	100	0.6191405	150	0.6384233	200	~~0.6634735~~						
1,2-Dibromo-3-chloropropane	100	0.134974	150	0.1449978	200	~~0.1594623~~						
1,2-Dibromoethane (EDB)	100	0.5720409	150	0.588615	200	0.6034833						
Dibromomethane	100	0.1705194	150	0.1688986	200	0.1732102						
1,2-Dichlorobenzene	100	1.234286	150	1.224689	200	1.282363						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	12/2/11 12:56 12/2/11 16:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.292089	150	1.283864	200	1.333423						
1,4-Dichlorobenzene	100	1.293533	150	1.280083	200	1.322659						
Dichlorodifluoromethane	100	0.2385143	150	0.2358743	200	0.2429939						
1,1-Dichloroethane	100	0.5183913	150	0.5120131	200	0.5291962						
1,2-Dichloroethane	100	0.4186895	150	0.4164762	200	0.4226428						
1,1-Dichloroethene	100	0.1785253	150	0.1823586	200	0.1891092						
cis-1,2-Dichloroethene	100	0.2597177	150	0.2531185	200	0.2579039						
trans-1,2-Dichloroethene	100	0.2306269	150	0.2199495	200	0.2343372						
1,2-Dichloroethene (total)	200	0.2451723	300	0.236534	400	0.2461206						
1,2-Dichloropropane	100	0.3000777	150	0.2887026	200	0.2929761						
1,3-Dichloropropane	100	0.9393526	150	0.9494214	200	0.9579985						
2,2-Dichloropropane	100	0.3368294	150	0.3300862	200	0.3372767						
1,1-Dichloropropene	100	0.3470379	150	0.3414935	200	0.3493534						
cis-1,3-Dichloropropene	100	0.4267715	150	0.4135858	200	0.4245388						
trans-1,3-Dichloropropene	100	0.972261	150	0.9734898	200	0.9599525						
Diisopropyl Ether	100	1.175522	150	1.159228	200	1.166127						
Ethylbenzene	100	2.568226	150	2.57405	200	2.597315						
Ethyl tert-Butyl Ether	100	0.9217934	150	0.8974108	200	0.927432						
Ethyl Methacrylate	100	0.8418982	150	0.85206	200	0.8814133						
Hexachlorobutadiene	100	0.2996034	150	0.3146827	200	0.3253979						
2-Hexanone	200	0.5244386	300	0.5449157	400	0.5752291						
Iodomethane	100	0.297591	150	0.2948543	200	0.3052985						
Isopropylbenzene	100	2.187137	150	2.169812	200	2.198334						
p-Isopropyltoluene	100	2.282021	150	2.252886	200	2.281687						
Methylene chloride	100	0.2087665	150	0.2059103	200	0.2110542						
Methyl Acetate	100	0.1787537	150	0.1988192	200	0.1921216						
Methylcyclohexane	100	0.322653	150	0.3283052	200	0.3352882						
Naphthalene	100	1.748949	150	1.834333	200	1.976985						
Methyl Methacrylate	100	0.3082128	150	0.3107941	200	0.3194078						
4-Methyl-2-pentanone	200	0.3108313	300	0.3172145	400	0.3253686						
Methyl t-Butyl Ether	100	0.66349	150	0.6612446	200	0.7103944						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	12/2/11 12:56 12/2/11 16:30

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	3.441499	150	3.335973	200	3.408908						
Styrene	100	1.695862	150	1.676053	200	1.705701						
1,1,2,2-Tetrachloroethane	100	0.8282633	150	0.8489838	200	0.8841465						
1,1,1,2-Tetrachloroethane	100	0.5233785	150	0.5314258	200	0.5418289						
tert-Butyl alcohol	500	1.621478E-02	750	1.714877E-02	1000	1.970285E-02						
Tetrachloroethene	100	0.5100607	150	0.5260919	200	0.5322746						
Toluene	100	1.319835	150	1.290192	200	1.262059						
1,2,3-Trichlorobenzene	100	0.6654253	150	0.6790509	200	0.7161985						
1,2,4-Trichlorobenzene	100	0.7626978	150	0.7655099	200	0.8032105						
1,1,2-Trichloroethane	100	0.4504669	150	0.4539716	200	0.4569663						
1,1,1-Trichloroethane	100	0.3492062	150	0.3484508	200	0.3608943						
Tetrahydrofuran	100	8.127669E-02	150	8.455516E-02	200	9.106678E-02						
Trichloroethene	100	0.2501071	150	0.2462037	200	0.2529705						
Trichlorofluoromethane	100	0.3192711	150	0.317632	200	0.333782						
1,2,3-Trichloropropane	100	0.1805381	150	0.1855056	200	0.1923391						
1,3,5-Trimethylbenzene	100	2.27872	150	2.247244	200	2.268678						
1,2,4-Trimethylbenzene	100	2.343087	150	2.310269	200	2.327643						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.1796221	150	0.1867588	200	0.1905967						
Vinyl chloride	100	0.2275457	150	0.215752	200	0.217276						
m,p-Xylene	200	1.941335	300	1.901735	400	1.901628						
o-Xylene	100	2.000015	150	1.997585	200	2.034674						
Vinyl acetate	199.2	0.7657224	298.9	0.7166116	398.5	0.7906878						
Xylenes (total)	300	1.960895	450	1.933685	600	1.945977						
Dibromofluoromethane	30	0.2854826	30	0.2818059	30	0.2898564						
1,2-Dichloroethane-d4	30	6.268374E-02	30	6.257563E-02	30	6.451151E-02						
Toluene-d8	30	2.26642	30	2.330644	30	2.330357						
tert-Amyl alcohol	500	1.514499E-02	750	1.649139E-02	1000	1.840683E-02						
tert-Amyl ethyl ether	100	0.7643227	150	0.7422557	200	0.7530616						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1339001	Instrument:	MS-VOA6
Matrix:	Water	Calibration Dates:	12/2/11 12:56 12/2/11 16:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	9.456927E-02	10.30949	3.796125	9.293671E-02			15	
Acrolein	3.430677E-02	11.30235	3.676625	7.809149E-02			15	
Acrylonitrile	8.843754E-02	5.480833	4.627667	0.1299552			15	
Benzene	0.9810657	1.244646	7.651333	5.109562E-02			15	
Bromobenzene	0.7032358	3.186943	12.37278	2.888442E-02			15	
Bromochloromethane	0.1298366	3.093364	6.754222	4.976159E-02			15	
Tert-Amyl Methyl Ether	0.7480873	2.56294	7.847111	4.524242E-02			15	
Bromodichloromethane	0.3426849	4.743756	8.632666	3.748277E-02			15	
Bromoform	0.3072015	23.65786	11.78089	3.841048E-02	0.9964697		SPCC (0.1)	
Bromomethane	0.1436709	10.3684	2.844444	0.104006			15	
Bromofluorobenzene	0.851342	5.642258	12.21067	2.850399E-02			15	
n-Butylbenzene	1.993981	5.081419	13.79922	2.634329E-02			15	
2-Butanone	0.1614689	8.671298	6.222556	5.469666E-02			15	
sec-Butylbenzene	2.629965	5.297701	13.26211	2.095415E-02			15	
tert-Butylbenzene	2.0294	4.105309	13.02589	2.441336E-02			15	
Carbon disulfide	0.5871254	4.600465	4.785222	7.274708E-02			15	
Carbon tetrachloride	0.2677191	12.15376	7.620667	4.266387E-02			15	
Chlorobenzene	1.498019	2.380656	11.05689	2.792981E-02			SPCC (0.3)	
Chloroethane	0.1468443	7.079039	2.979	0.113385			15	
Chloroform	0.4807474	10.74666	6.728	5.512917E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1847264	2.270002	8.989222	0.037974			15	
Chloromethane	0.3101603	4.683572	2.260444	0.1500729			SPCC (0.1)	
1-Chlorohexane	0.7269731	8.762584	11.02389	3.711602E-02			15	
2-Chlorotoluene	2.091265	2.306145	12.59256	2.281191E-02			15	
4-Chlorotoluene	2.400423	2.538382	12.65489	2.093695E-02			15	
Cyclohexane	0.4341335	4.282556	7.550778	5.139886E-02			15	
Dibromochloromethane	0.5357338	14.56021	10.29414	3.788382E-02			15	
1,2-Dibromo-3-chloropropane	0.1197028	14.96539	14.39957	2.629119E-02			15	
1,2-Dibromoethane (EDB)	0.5584427	5.118421	10.50533	3.471372E-02			15	
Dibromomethane	0.168891	1.771221	8.569111	3.221419E-02			15	
1,2-Dichlorobenzene	1.215467	2.668239	13.75767	1.437621E-02			15	
1,3-Dichlorobenzene	1.279547	1.924144	13.35089	2.124435E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_039	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1339001		Instrument:	MS-VOA6	
Matrix:	Water		Calibration Dates:	12/2/11 12:56	12/2/11 16:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.290668	2.954774	13.43933	2.530624E-02			15	
Dichlorodifluoromethane	0.2154771	13.64077	2.044778	0.1891542			15	
1,1-Dichloroethane	0.5146908	2.287848	5.771778	5.562889E-02			SPCC (0.1)	
1,2-Dichloroethane	0.4268645	1.605534	7.482889	4.150366E-02			15	
1,1-Dichloroethene	0.1784148	2.895736	4.26	0.0960822			CCC (20)	
cis-1,2-Dichloroethene	0.2592518	1.819308	6.478444	5.016468E-02			15	
trans-1,2-Dichloroethene	0.232185	2.40763	5.401	6.347852E-02			15	
1,2-Dichloroethene (total)	0.2457184	1.875522	0	0			15	
1,2-Dichloropropane	0.2939017	2.061186	8.456333	3.039512E-02			CCC (20)	
1,3-Dichloropropane	0.9290734	1.976735	10.036	2.607692E-02			15	
2,2-Dichloropropane	0.3360143	3.332965	6.582667	4.900901E-02			15	
1,1-Dichloropropene	0.3449394	1.499759	7.501333	5.641364E-02			15	
cis-1,3-Dichloropropene	0.4066317	3.799258	9.201667	3.429753E-02			15	
trans-1,3-Dichloropropene	0.9175214	5.651074	9.671667	2.872507E-02			15	
Diisopropyl Ether	1.174967	1.506658	6.148222	4.787027E-02			15	
Ethylbenzene	2.517108	2.370301	11.20433	2.912745E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.9179978	1.105193	6.606444	4.809911E-02			15	
Ethyl Methacrylate	0.8172273	4.543462	9.861	3.290663E-02			15	
Hexachlorobutadiene	0.2814985	10.05995	15.75867	1.874251E-02			15	
2-Hexanone	0.5223051	5.13048	9.973778	2.997856E-02			15	
Iodomethane	0.2497514	20.34564	4.453556	8.760914E-02	0.9994937		0.995	
Isopropylbenzene	2.08273	4.477281	12.10033	2.645974E-02			15	
p-Isopropyltoluene	2.192872	4.613879	13.40011	0.0287984			15	
Methylene chloride	0.2230016	11.14927	4.740556	9.654804E-02			15	
Methyl Acetate	0.1892839	8.30823	4.614625	8.504183E-02			15	
Methylcyclohexane	0.3063709	8.527561	8.781222	3.546714E-02			15	
Naphthalene	1.732869	6.708777	15.62956	1.520968E-02			15	
Methyl Methacrylate	0.3180497	4.820813	8.590889	4.146269E-02			15	
4-Methyl-2-pentanone	0.3178843	2.91065	9.127111	3.875109E-02			15	
Methyl t-Butyl Ether	0.671406	3.323622	5.406444	7.033515E-02			15	
n-Propylbenzene	3.306041	3.505189	12.50856	2.923911E-02			15	
Styrene	1.639822	2.959544	11.67711	3.154861E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_039	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1339001		Instrument:	MS-VOA6	
Matrix:	Water		Calibration Dates:	12/2/11 12:56	12/2/11 16:30

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.8224907	3.758332	12.027	2.930954E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4841283	8.803367	11.09944	2.521904E-02			15	
tert-Butyl alcohol	1.692662E-02	7.363223	4.423222	0.1062945			15	
Tetrachloroethene	0.493688	5.21373	10.40267	2.952502E-02			15	
Toluene	1.304397	2.379552	9.673889	3.873018E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.640123	6.580751	15.91478	1.556871E-02			15	
1,2,4-Trichlorobenzene	0.7320852	5.480661	15.47733	2.096431E-02			15	
1,1,2-Trichloroethane	0.4306705	6.056433	9.827222	3.637868E-02			15	
1,1,1-Trichloroethane	0.3333697	5.885625	7.282778	5.190059E-02			15	
Tetrahydrofuran	9.223451E-02	15.06605	6.94425	3.706035E-02	0.9966094		0.995	
Trichloroethene	0.2466624	2.082319	8.407222	3.474499E-02			15	
Trichlorofluoromethane	0.3060266	6.663545	3.475667	0.1016077			15	
1,2,3-Trichloropropane	0.1803791	4.619362	12.14956	2.892179E-02			15	
1,3,5-Trimethylbenzene	2.214875	2.817883	12.68667	2.284223E-02			15	
1,2,4-Trimethylbenzene	2.30048	2.037037	13.05644	3.054658E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1718954	9.128151	4.335556	8.367357E-02			15	
Vinyl chloride	0.2182628	3.598105	2.404667	0.1885356			CCC (20)	
m,p-Xylene	1.913775	1.974659	11.31489	2.314191E-02			15	
o-Xylene	1.997644	1.69672	11.70644	2.887201E-02			15	
Vinyl acetate	0.7455145	3.771553	5.848333	6.087468E-02			15	
Xylenes (total)	1.941731	1.707398	0	0			15	
Dibromofluoromethane	0.2790991	2.650415	6.901	4.303995E-02			15	
1,2-Dichloroethane-d4	6.133619E-02	3.411187	7.393111	3.928713E-02			15	
Toluene-d8	2.160706	5.805526	9.598444	3.439024E-02			15	
tert-Amyl alcohol	1.531825E-02	9.321093	7.108778	4.275988E-02			15	
tert-Amyl ethyl ether	0.7521476	1.165375	8.723333	4.038806E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1202ICV2.D	Calibration Date:	12/02/11 12:56
Sequence:	1L33901	Injection Date:	12/02/11
Lab Sample ID:	1L33901-ICV2	Injection Time:	17:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	179.5	9.456927E-02	8.488365E-02		-10.2	20
Benzene	A	100.0	97.51	0.9810657	0.9566367		-2.5	20
Bromobenzene	A	100.0	99.24	0.7032358	0.6979082		-0.8	20
Bromochloromethane	A	100.0	100.8	0.1298366	0.1309325		0.8	20
Bromodichloromethane	A	100.0	95.41	0.3426849	0.3269566		-4.6	20
Bromoform	L	100.0	94.10	0.3072015	0.3719793	0.1	-5.9	20
Bromomethane	A	100.0	113.2	0.1436709	0.1626795		13.2	20
n-Butylbenzene	A	100.0	100.8	1.993981	2.009997		0.8	20
2-Butanone	A	200.0	201.8	0.1614689	0.1629145		0.9	20
sec-Butylbenzene	A	100.0	101.3	2.629965	2.665156		1.3	20
tert-Butylbenzene	A	100.0	100.8	2.0294	2.046153		0.8	20
Carbon disulfide	A	100.0	85.26	0.5871254	0.5005983		-14.7	20
Carbon tetrachloride	A	100.0	108.4	0.2677191	0.290305		8.4	20
Chlorobenzene	A	100.0	98.32	1.498019	1.472813	0.3	-1.7	20
Chloroethane	A	100.0	105.8	0.1468443	0.1553361		5.8	20
Chloroform	A	100.0	89.48	0.4807474	0.4301593		-10.5	20
Chloromethane	A	100.0	93.81	0.3101603	0.2909525	0.1	-6.2	20
2-Chlorotoluene	A	100.0	96.74	2.091265	2.02315		-3.3	20
4-Chlorotoluene	A	100.0	94.98	2.400423	2.279854		-5.0	20
Dibromochloromethane	A	100.0	111.3	0.5357338	0.5964436		11.3	20
1,2-Dibromo-3-chloropropane	A	100.0	114.5	0.1197028	0.1370405		14.5	20
1,2-Dibromoethane (EDB)	A	100.0	101.3	0.5584427	0.5658607		1.3	20
Dibromomethane	A	100.0	97.54	0.168891	0.1647322		-2.5	20
1,2-Dichlorobenzene	A	100.0	100.7	1.215467	1.223493		0.7	20
1,3-Dichlorobenzene	A	100.0	98.12	1.279547	1.255508		-1.9	20
1,4-Dichlorobenzene	A	100.0	99.46	1.290668	1.283762		-0.5	20
Dichlorodifluoromethane	A	100.0	98.48	0.2154771	0.2122045		-1.5	20
1,1-Dichloroethane	A	100.0	97.24	0.5146908	0.5004974	0.1	-2.8	20
1,2-Dichloroethane	A	100.0	92.62	0.4268645	0.3953552		-7.4	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1202ICV2.D	Calibration Date:	12/02/11 12:56
Sequence:	1L33901	Injection Date:	12/02/11
Lab Sample ID:	1L33901-ICV2	Injection Time:	17:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,1-Dichloroethene	A	100.0	91.13	0.1784148	0.1625944		-8.9	20
cis-1,2-Dichloroethene	A	100.0	97.44	0.2592518	0.2526214		-2.6	20
trans-1,2-Dichloroethene	A	100.0	94.84	0.232185	0.2201966		-5.2	20
1,2-Dichloropropane	A	100.0	96.31	0.2939017	0.2830659		-3.7	20
1,3-Dichloropropane	A	100.0	99.55	0.9290734	0.9249057		-0.4	20
2,2-Dichloropropane	A	100.0	93.92	0.3360143	0.3155692		-6.1	20
1,1-Dichloropropene	A	100.0	96.62	0.3449394	0.3332664		-3.4	20
cis-1,3-Dichloropropene	A	100.0	102.7	0.4066317	0.4175693		2.7	20
trans-1,3-Dichloropropene	A	100.0	91.62	0.9175214	0.8406251		-8.4	20
Ethylbenzene	A	100.0	99.69	2.517108	2.509306		-0.3	20
Hexachlorobutadiene	A	100.0	100.4	0.2814985	0.2825556		0.4	20
2-Hexanone	A	200.0	197.7	0.5223051	0.5162415		-1.2	20
Isopropylbenzene	A	100.0	95.69	2.08273	1.993059		-4.3	20
p-Isopropyltoluene	A	100.0	96.09	2.192872	2.107202		-3.9	20
Methylene chloride	A	100.0	89.39	0.2230016	0.1993456		-10.6	20
Naphthalene	A	100.0	99.17	1.732869	1.718416		-0.8	20
4-Methyl-2-pentanone	A	200.0	195.1	0.3178843	0.3100285		-2.5	20
Methyl t-Butyl Ether	A	100.0	99.12	0.671406	0.6655083		-0.9	20
n-Propylbenzene	A	100.0	98.13	3.306041	3.244083		-1.9	20
Styrene	A	100.0	98.87	1.639822	1.621358		-1.1	20
1,1,2,2-Tetrachloroethane	A	100.0	99.82	0.8224907	0.8209889	0.3	-0.2	20
1,1,1,2-Tetrachloroethane	A	100.0	105.0	0.4841283	0.5083942		5.0	20
Tetrachloroethene	A	100.0	102.6	0.493688	0.5064671		2.6	20
Toluene	A	100.0	97.15	1.304397	1.267257		-2.8	20
1,2,3-Trichlorobenzene	A	100.0	100.3	0.640123	0.6419152		0.3	20
1,2,4-Trichlorobenzene	A	100.0	100.9	0.7320852	0.738916		0.9	20
1,1,2-Trichloroethane	A	100.0	102.5	0.4306705	0.4414345		2.5	20
1,1,1-Trichloroethane	A	100.0	103.5	0.3333697	0.3449148		3.5	20
Trichloroethene	A	100.0	97.35	0.2466624	0.2401354		-2.6	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1202ICV2.D	Calibration Date:	12/02/11 12:56
Sequence:	1L33901	Injection Date:	12/02/11
Lab Sample ID:	1L33901-ICV2	Injection Time:	17:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Trichlorofluoromethane	A	100.0	102.2	0.3060266	0.3126162		2.2	20
1,2,3-Trichloropropane	A	100.0	98.38	0.1803791	0.1774589		-1.6	20
1,3,5-Trimethylbenzene	A	100.0	100.9	2.214875	2.235835		0.9	20
1,2,4-Trimethylbenzene	A	100.0	98.36	2.30048	2.262837		-1.6	20
Vinyl chloride	A	100.0	112.4	0.2182628	0.2453467		12.4	20
Xylenes (total)	A	300.0	290.9	1.941731	1.882884		-3.0	20
Bromofluorobenzene	A	30.00	31.18	0.851342	0.8847088		3.9	20
Dibromofluoromethane	A	30.00	30.52	0.2790991	0.2839505		1.7	20
1,2-Dichloroethane-d4	A	30.00	30.32	6.133619E-02	0.0619875		1.1	20
Toluene-d8	A	30.00	31.28	2.160706	2.252598		4.3	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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1214CCV1.D	Calibration Date:	12/02/11 12:56
Sequence:	1L34906	Injection Date:	12/14/11
Lab Sample ID:	1L34906-CCV1	Injection Time:	07:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	248.1	9.456927E-02	0.1173231		24.1	20 *
Benzene	A	100.0	97.68	0.9810657	0.9583611		-2.3	20
Bromobenzene	A	100.0	97.63	0.7032358	0.6865948		-2.4	20
Bromochloromethane	A	100.0	99.03	0.1298366	0.1285763		-1.0	20
Bromodichloromethane	A	100.0	97.94	0.3426849	0.3356221		-2.1	20
Bromoform	L	100.0	91.98	0.3072015	0.3633135	0.1	-8.0	20
Bromomethane	A	100.0	79.41	0.1436709	0.1140956		-20.6	20 *
n-Butylbenzene	A	100.0	104.2	1.993981	2.077757		4.2	20
2-Butanone	A	200.0	226.8	0.1614689	0.1831064		13.4	20
sec-Butylbenzene	A	100.0	103.5	2.629965	2.72241		3.5	20
tert-Butylbenzene	A	100.0	100.3	2.0294	2.035307		0.3	20
Carbon disulfide	A	100.0	105.0	0.5871254	0.6164165		5.0	20
Carbon tetrachloride	A	100.0	106.9	0.2677191	0.28618		6.9	20
Chlorobenzene	A	100.0	98.84	1.498019	1.480601	0.3	-1.2	20
Chloroethane	A	100.0	101.4	0.1468443	0.1488297		1.4	20
Chloroform	A	100.0	89.38	0.4807474	0.4296762		-10.6	20
Chloromethane	A	100.0	82.39	0.3101603	0.2555466	0.1	-17.6	20
2-Chlorotoluene	A	100.0	96.46	2.091265	2.017149		-3.5	20
4-Chlorotoluene	A	100.0	96.70	2.400423	2.321182		-3.3	20
Dibromochloromethane	A	100.0	109.3	0.5357338	0.5856857		9.3	20
1,2-Dibromo-3-chloropropane	A	100.0	115.2	0.1197028	0.1378527		15.2	20
1,2-Dibromoethane (EDB)	A	100.0	99.43	0.5584427	0.5552626		-0.6	20
Dibromomethane	A	100.0	97.31	0.168891	0.1643442		-2.7	20
1,2-Dichlorobenzene	A	100.0	98.58	1.215467	1.198261		-1.4	20
1,3-Dichlorobenzene	A	100.0	97.59	1.279547	1.248736		-2.4	20
1,4-Dichlorobenzene	A	100.0	96.62	1.290668	1.247036		-3.4	20
Dichlorodifluoromethane	A	100.0	106.7	0.2154771	0.2299155		6.7	20
1,1-Dichloroethane	A	100.0	96.90	0.5146908	0.4987119	0.1	-3.1	20
1,2-Dichloroethane	A	100.0	91.81	0.4268645	0.3919194		-8.2	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1214CCV1.D	Calibration Date:	12/02/11 12:56
Sequence:	1L34906	Injection Date:	12/14/11
Lab Sample ID:	1L34906-CCV1	Injection Time:	07:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	99.42	0.1784148	0.1773804		-0.6	20
cis-1,2-Dichloroethene	A	100.0	96.59	0.2592518	0.2504215		-3.4	20
trans-1,2-Dichloroethene	A	100.0	98.23	0.232185	0.228086		-1.8	20
1,2-Dichloropropane	A	100.0	97.59	0.2939017	0.2868142		-2.4	20
1,3-Dichloropropane	A	100.0	98.59	0.9290734	0.9159667		-1.4	20
2,2-Dichloropropane	A	100.0	101.7	0.3360143	0.3416571		1.7	20
1,1-Dichloropropene	A	100.0	99.46	0.3449394	0.3430845		-0.5	20
cis-1,3-Dichloropropene	A	100.0	99.38	0.4066317	0.4041085		-0.6	20
trans-1,3-Dichloropropene	A	100.0	101.1	0.9175214	0.9279763		1.1	20
Ethylbenzene	A	100.0	99.50	2.517108	2.504478		-0.5	20
Hexachlorobutadiene	A	100.0	108.3	0.2814985	0.3048709		8.3	20
2-Hexanone	A	200.0	216.8	0.5223051	0.5663309		8.4	20
Isopropylbenzene	A	100.0	101.2	2.08273	2.107942		1.2	20
p-Isopropyltoluene	A	100.0	99.83	2.192872	2.189119		-0.2	20
Methylene chloride	A	100.0	91.46	0.2230016	0.2039461		-8.5	20
Naphthalene	A	100.0	107.5	1.732869	1.863639		7.5	20
4-Methyl-2-pentanone	A	200.0	200.4	0.3178843	0.3185135		0.2	20
Methyl t-Butyl Ether	A	100.0	97.19	0.671406	0.6525683		-2.8	20
n-Propylbenzene	A	100.0	101.1	3.306041	3.343478		1.1	20
Styrene	A	100.0	98.35	1.639822	1.612725		-1.7	20
1,1,2,2-Tetrachloroethane	A	100.0	101.1	0.8224907	0.8316207	0.3	1.1	20
1,1,1,2-Tetrachloroethane	A	100.0	103.1	0.4841283	0.4991963		3.1	20
Tetrachloroethene	A	100.0	103.0	0.493688	0.5085375		3.0	20
Toluene	A	100.0	97.16	1.304397	1.267347		-2.8	20
1,2,3-Trichlorobenzene	A	100.0	100.7	0.640123	0.644351		0.7	20
1,2,4-Trichlorobenzene	A	100.0	102.6	0.7320852	0.7510444		2.6	20
1,1,2-Trichloroethane	A	100.0	103.4	0.4306705	0.4453851		3.4	20
1,1,1-Trichloroethane	A	100.0	100.4	0.3333697	0.334576		0.4	20
Trichloroethene	A	100.0	98.49	0.2466624	0.2429356		-1.5	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1214CCV1.D	Calibration Date:	12/02/11 12:56
Sequence:	1L34906	Injection Date:	12/14/11
Lab Sample ID:	1L34906-CCV1	Injection Time:	07:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	102.7	0.3060266	0.3141758		2.7	20
1,2,3-Trichloropropane	A	100.0	99.21	0.1803791	0.1789563		-0.8	20
1,3,5-Trimethylbenzene	A	100.0	99.26	2.214875	2.198409		-0.7	20
1,2,4-Trimethylbenzene	A	100.0	98.81	2.30048	2.27319		-1.2	20
Vinyl chloride	A	100.0	95.80	0.2182628	0.2090895		-4.2	20
Xylenes (total)	A	300.0	291.2	1.941731	1.884504		-2.9	20
Bromofluorobenzene	A	30.00	31.09	0.851342	0.8821779		3.6	20
Dibromofluoromethane	A	30.00	30.35	0.2790991	0.2823276		1.2	20
1,2-Dichloroethane-d4	A	30.00	30.68	6.133619E-02	6.273303E-02		2.3	20
Toluene-d8	A	30.00	31.52	2.160706	2.270088		5.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1215CCV1.D	Calibration Date:	12/02/11 12:56
Sequence:	1L35002	Injection Date:	12/15/11
Lab Sample ID:	1L35002-CCV1	Injection Time:	08:08

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	270.7	9.456927E-02	0.1280006		35.4	20 *
Benzene	A	100.0	97.45	0.9810657	0.9560838		-2.5	20
Bromobenzene	A	100.0	99.17	0.7032358	0.6973751		-0.8	20
Bromochloromethane	A	100.0	98.45	0.1298366	0.1278284		-1.5	20
Bromodichloromethane	A	100.0	97.98	0.3426849	0.3357521		-2.0	20
Bromoform	L	100.0	91.47	0.3072015	0.3612311	0.1	-8.5	20
Bromomethane	A	100.0	82.90	0.1436709	0.1191022		-17.1	20
n-Butylbenzene	A	100.0	102.6	1.993981	2.046911		2.7	20
2-Butanone	A	200.0	239.4	0.1614689	0.1932558		19.7	20
sec-Butylbenzene	A	100.0	101.4	2.629965	2.667394		1.4	20
tert-Butylbenzene	A	100.0	99.80	2.0294	2.025419		-0.2	20
Carbon disulfide	A	100.0	105.8	0.5871254	0.6209541		5.8	20
Carbon tetrachloride	A	100.0	106.4	0.2677191	0.2849695		6.4	20
Chlorobenzene	A	100.0	99.20	1.498019	1.485972	0.3	-0.8	20
Chloroethane	A	100.0	104.6	0.1468443	0.1536141		4.6	20
Chloroform	A	100.0	88.25	0.4807474	0.424245		-11.8	20
Chloromethane	A	100.0	82.15	0.3101603	0.254794	0.1	-17.9	20
2-Chlorotoluene	A	100.0	95.54	2.091265	1.998074		-4.5	20
4-Chlorotoluene	A	100.0	96.35	2.400423	2.312759		-3.7	20
Dibromochloromethane	A	100.0	111.0	0.5357338	0.5946042		11.0	20
1,2-Dibromo-3-chloropropane	A	100.0	112.2	0.1197028	0.1343638		12.2	20
1,2-Dibromoethane (EDB)	A	100.0	100.9	0.5584427	0.5634392		0.9	20
Dibromomethane	A	100.0	96.44	0.168891	0.1628736		-3.6	20
1,2-Dichlorobenzene	A	100.0	98.62	1.215467	1.198672		-1.4	20
1,3-Dichlorobenzene	A	100.0	98.75	1.279547	1.263608		-1.2	20
1,4-Dichlorobenzene	A	100.0	97.67	1.290668	1.260629		-2.3	20
Dichlorodifluoromethane	A	100.0	110.3	0.2154771	0.2376452		10.3	20
1,1-Dichloroethane	A	100.0	96.77	0.5146908	0.4980723	0.1	-3.2	20
1,2-Dichloroethane	A	100.0	90.73	0.4268645	0.3872993		-9.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1215CCV1.D	Calibration Date:	12/02/11 12:56
Sequence:	1L35002	Injection Date:	12/15/11
Lab Sample ID:	1L35002-CCV1	Injection Time:	08:08

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	102.5	0.1784148	0.1828553		2.5	20
cis-1,2-Dichloroethene	A	100.0	97.45	0.2592518	0.2526495		-2.5	20
trans-1,2-Dichloroethene	A	100.0	99.63	0.232185	0.2313238		-0.4	20
1,2-Dichloropropane	A	100.0	96.38	0.2939017	0.283256		-3.6	20
1,3-Dichloropropane	A	100.0	98.47	0.9290734	0.9149062		-1.5	20
2,2-Dichloropropane	A	100.0	102.8	0.3360143	0.3453003		2.8	20
1,1-Dichloropropene	A	100.0	99.19	0.3449394	0.3421376		-0.8	20
cis-1,3-Dichloropropene	A	100.0	99.79	0.4066317	0.4057973		-0.2	20
trans-1,3-Dichloropropene	A	100.0	100.8	0.9175214	0.9253261		0.9	20
Ethylbenzene	A	100.0	99.15	2.517108	2.495729		-0.8	20
Hexachlorobutadiene	A	100.0	108.4	0.2814985	0.3051072		8.4	20
2-Hexanone	A	200.0	227.8	0.5223051	0.5949258		13.9	20
Isopropylbenzene	A	100.0	104.1	2.08273	2.168184		4.1	20
p-Isopropyltoluene	A	100.0	100.8	2.192872	2.210116		0.8	20
Methylene chloride	A	100.0	92.19	0.2230016	0.2055875		-7.8	20
Naphthalene	A	100.0	103.9	1.732869	1.80094		3.9	20
4-Methyl-2-pentanone	A	200.0	195.2	0.3178843	0.3102328		-2.4	20
Methyl t-Butyl Ether	A	100.0	95.29	0.671406	0.6397773		-4.7	20
n-Propylbenzene	A	100.0	100.3	3.306041	3.315872		0.3	20
Styrene	A	100.0	102.0	1.639822	1.673031		2.0	20
1,1,2,2-Tetrachloroethane	A	100.0	98.12	0.8224907	0.807025	0.3	-1.9	20
1,1,1,2-Tetrachloroethane	A	100.0	104.7	0.4841283	0.5067766		4.7	20
Tetrachloroethene	A	100.0	106.3	0.493688	0.524918		6.3	20
Toluene	A	100.0	97.42	1.304397	1.270771		-2.6	20
1,2,3-Trichlorobenzene	A	100.0	100.2	0.640123	0.6416131		0.2	20
1,2,4-Trichlorobenzene	A	100.0	101.9	0.7320852	0.7458792		1.9	20
1,1,2-Trichloroethane	A	100.0	103.6	0.4306705	0.4462701		3.6	20
1,1,1-Trichloroethane	A	100.0	100.2	0.3333697	0.3340387		0.2	20
Trichloroethene	A	100.0	98.60	0.2466624	0.2432227		-1.4	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1215CCV1.D	Calibration Date:	12/02/11 12:56
Sequence:	1L35002	Injection Date:	12/15/11
Lab Sample ID:	1L35002-CCV1	Injection Time:	08:08

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	104.7	0.3060266	0.3205452		4.7	20
1,2,3-Trichloropropane	A	100.0	98.42	0.1803791	0.1775399		-1.6	20
1,3,5-Trimethylbenzene	A	100.0	97.89	2.214875	2.168167		-2.1	20
1,2,4-Trimethylbenzene	A	100.0	97.54	2.30048	2.243778		-2.5	20
Vinyl chloride	A	100.0	95.74	0.2182628	0.2089717		-4.3	20
Xylenes (total)	A	300.0	296.8	1.941731	1.920872		-1.1	20
Bromofluorobenzene	A	30.00	31.43	0.851342	0.8918264		4.8	20
Dibromofluoromethane	A	30.00	29.76	0.2790991	0.2768868		-0.8	20
1,2-Dichloroethane-d4	A	30.00	30.60	6.133619E-02	6.255498E-02		2.0	20
Toluene-d8	A	30.00	31.82	2.160706	2.291749		6.1	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1219CCV1.D	Calibration Date:	12/02/11 12:56
Sequence:	1L35401	Injection Date:	12/19/11
Lab Sample ID:	1L35401-CCV1	Injection Time:	07:46

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	185.6	9.456927E-02	8.775024E-02		-7.2	20	
Benzene	A	100.0	99.52	0.9810657	0.9764051		-0.5	20	
Bromobenzene	A	100.0	101.4	0.7032358	0.7129427		1.4	20	
Bromochloromethane	A	100.0	101.6	0.1298366	0.1319827		1.7	20	
Bromodichloromethane	A	100.0	102.3	0.3426849	0.3505997		2.3	20	
Bromoform	L	100.0	95.39	0.3072015	0.377252	0.1	-4.6	20	
Bromomethane	A	100.0	87.79	0.1436709	0.1261279		-12.2	20	
n-Butylbenzene	A	100.0	107.1	1.993981	2.136214		7.1	20	
2-Butanone	A	200.0	208.3	0.1614689	0.1681882		4.2	20	
sec-Butylbenzene	A	100.0	104.1	2.629965	2.736888		4.1	20	
tert-Butylbenzene	A	100.0	102.8	2.0294	2.086104		2.8	20	
Carbon disulfide	A	100.0	104.5	0.5871254	0.613824		4.5	20	
Carbon tetrachloride	A	100.0	106.5	0.2677191	0.285107		6.5	20	
Chlorobenzene	A	100.0	103.5	1.498019	1.550366	0.3	3.5	20	
Chloroethane	A	100.0	101.6	0.1468443	0.1491234		1.6	20	
Chloroform	A	100.0	91.87	0.4807474	0.4416567		-8.1	20	
Chloromethane	A	100.0	76.95	0.3101603	0.2386717	0.1	-23.0	20	*
2-Chlorotoluene	A	100.0	100.1	2.091265	2.092634		0.07	20	
4-Chlorotoluene	A	100.0	99.11	2.400423	2.378996		-0.9	20	
Dibromochloromethane	A	100.0	114.2	0.5357338	0.6120608		14.2	20	
1,2-Dibromo-3-chloropropane	A	100.0	116.9	0.1197028	0.1399531		16.9	20	
1,2-Dibromoethane (EDB)	A	100.0	101.8	0.5584427	0.5687769		1.9	20	
Dibromomethane	A	100.0	99.26	0.168891	0.1676338		-0.7	20	
1,2-Dichlorobenzene	A	100.0	101.7	1.215467	1.235933		1.7	20	
1,3-Dichlorobenzene	A	100.0	101.4	1.279547	1.297281		1.4	20	
1,4-Dichlorobenzene	A	100.0	99.88	1.290668	1.289108		-0.1	20	
Dichlorodifluoromethane	A	100.0	89.17	0.2154771	0.1921448		-10.8	20	
1,1-Dichloroethane	A	100.0	100.0	0.5146908	0.5147093	0.1	0.004	20	
1,2-Dichloroethane	A	100.0	93.74	0.4268645	0.4001496		-6.3	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1219CCV1.D	Calibration Date:	12/02/11 12:56
Sequence:	1L35401	Injection Date:	12/19/11
Lab Sample ID:	1L35401-CCV1	Injection Time:	07:46

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	102.6	0.1784148	0.1830044		2.6	20
cis-1,2-Dichloroethene	A	100.0	99.62	0.2592518	0.2582627		-0.4	20
trans-1,2-Dichloroethene	A	100.0	100.0	0.232185	0.2322771		0.04	20
1,2-Dichloropropane	A	100.0	100.4	0.2939017	0.295009		0.4	20
1,3-Dichloropropane	A	100.0	100.6	0.9290734	0.9350409		0.6	20
2,2-Dichloropropane	A	100.0	106.4	0.3360143	0.3574272		6.4	20
1,1-Dichloropropene	A	100.0	98.78	0.3449394	0.3407259		-1.2	20
cis-1,3-Dichloropropene	A	100.0	105.0	0.4066317	0.4268782		5.0	20
trans-1,3-Dichloropropene	A	100.0	105.2	0.9175214	0.9653288		5.2	20
Ethylbenzene	A	100.0	101.7	2.517108	2.56025		1.7	20
Hexachlorobutadiene	A	100.0	111.9	0.2814985	0.3151345		11.9	20
2-Hexanone	A	200.0	201.8	0.5223051	0.5271074		0.9	20
Isopropylbenzene	A	100.0	103.0	2.08273	2.146061		3.0	20
p-Isopropyltoluene	A	100.0	102.7	2.192872	2.252289		2.7	20
Methylene chloride	A	100.0	94.95	0.2230016	0.2117442		-5.0	20
Naphthalene	A	100.0	106.0	1.732869	1.836791		6.0	20
4-Methyl-2-pentanone	A	200.0	197.2	0.3178843	0.3134187		-1.4	20
Methyl t-Butyl Ether	A	100.0	101.5	0.671406	0.6815772		1.5	20
n-Propylbenzene	A	100.0	102.2	3.306041	3.378956		2.2	20
Styrene	A	100.0	103.8	1.639822	1.702804		3.8	20
1,1,2,2-Tetrachloroethane	A	100.0	101.8	0.8224907	0.8375403	0.3	1.8	20
1,1,1,2-Tetrachloroethane	A	100.0	108.3	0.4841283	0.5243461		8.3	20
Tetrachloroethene	A	100.0	104.6	0.493688	0.5163628		4.6	20
Toluene	A	100.0	99.20	1.304397	1.29398		-0.8	20
1,2,3-Trichlorobenzene	A	100.0	103.0	0.640123	0.6594229		3.0	20
1,2,4-Trichlorobenzene	A	100.0	105.7	0.7320852	0.7738137		5.7	20
1,1,2-Trichloroethane	A	100.0	104.4	0.4306705	0.4494603		4.4	20
1,1,1-Trichloroethane	A	100.0	101.0	0.3333697	0.3366741		1.0	20
Trichloroethene	A	100.0	100.4	0.2466624	0.2477775		0.5	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1219CCV1.D	Calibration Date:	12/02/11 12:56
Sequence:	1L35401	Injection Date:	12/19/11
Lab Sample ID:	1L35401-CCV1	Injection Time:	07:46

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	96.56	0.3060266	0.2955		-3.4	20
1,2,3-Trichloropropane	A	100.0	98.69	0.1803791	0.1780116		-1.3	20
1,3,5-Trimethylbenzene	A	100.0	101.9	2.214875	2.256261		1.9	20
1,2,4-Trimethylbenzene	A	100.0	100.4	2.30048	2.308692		0.4	20
Vinyl chloride	A	100.0	91.34	0.2182628	0.1993713		-8.7	20
Xylenes (total)	A	300.0	299.6	1.941731	1.938723		-0.2	20
Bromofluorobenzene	A	30.00	31.85	0.851342	0.9039187		6.2	20
Dibromofluoromethane	A	30.00	30.45	0.2790991	0.2832536		1.5	20
1,2-Dichloroethane-d4	A	30.00	30.74	6.133619E-02	6.284401E-02		2.5	20
Toluene-d8	A	30.00	31.34	2.160706	2.257174		4.5	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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1220CCV1.D	Calibration Date:	12/02/11 12:56
Sequence:	1L35502	Injection Date:	12/20/11
Lab Sample ID:	1L35502-CCV1	Injection Time:	07:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	172.9	9.456927E-02	8.175395E-02		-13.6	20	
Benzene	A	100.0	100.8	0.9810657	0.9885662		0.8	20	
Bromobenzene	A	100.0	99.84	0.7032358	0.7021329		-0.2	20	
Bromochloromethane	A	100.0	100.8	0.1298366	0.1309098		0.8	20	
Bromodichloromethane	A	100.0	102.9	0.3426849	0.3526134		2.9	20	
Bromoform	L	100.0	96.13	0.3072015	0.3802962	0.1	-3.9	20	
Bromomethane	A	100.0	84.81	0.1436709	0.1218522		-15.2	20	
n-Butylbenzene	A	100.0	105.4	1.993981	2.101845		5.4	20	
2-Butanone	A	200.0	206.5	0.1614689	0.1667499		3.3	20	
sec-Butylbenzene	A	100.0	103.3	2.629965	2.71582		3.3	20	
tert-Butylbenzene	A	100.0	101.6	2.0294	2.061668		1.6	20	
Carbon disulfide	A	100.0	105.0	0.5871254	0.6165248		5.0	20	
Carbon tetrachloride	A	100.0	103.7	0.2677191	0.2776789		3.7	20	
Chlorobenzene	A	100.0	101.4	1.498019	1.519419	0.3	1.4	20	
Chloroethane	A	100.0	102.9	0.1468443	0.1511248		2.9	20	
Chloroform	A	100.0	92.00	0.4807474	0.4423103		-8.0	20	
Chloromethane	A	100.0	78.26	0.3101603	0.2427272	0.1	-21.7	20	*
2-Chlorotoluene	A	100.0	98.95	2.091265	2.069232		-1.1	20	
4-Chlorotoluene	A	100.0	100.1	2.400423	2.402386		0.08	20	
Dibromochloromethane	A	100.0	114.5	0.5357338	0.6132422		14.5	20	
1,2-Dibromo-3-chloropropane	A	100.0	116.9	0.1197028	0.1399867		16.9	20	
1,2-Dibromoethane (EDB)	A	100.0	103.0	0.5584427	0.5750675		3.0	20	
Dibromomethane	A	100.0	101.1	0.168891	0.1707362		1.1	20	
1,2-Dichlorobenzene	A	100.0	100.6	1.215467	1.222265		0.6	20	
1,3-Dichlorobenzene	A	100.0	100.3	1.279547	1.282907		0.3	20	
1,4-Dichlorobenzene	A	100.0	99.89	1.290668	1.289258		-0.1	20	
Dichlorodifluoromethane	A	100.0	88.39	0.2154771	0.1904688		-11.6	20	
1,1-Dichloroethane	A	100.0	100.2	0.5146908	0.5155286	0.1	0.2	20	
1,2-Dichloroethane	A	100.0	94.88	0.4268645	0.40499		-5.1	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1220CCV1.D	Calibration Date:	12/02/11 12:56
Sequence:	1L35502	Injection Date:	12/20/11
Lab Sample ID:	1L35502-CCV1	Injection Time:	07:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	101.3	0.1784148	0.1806892		1.3	20
cis-1,2-Dichloroethene	A	100.0	99.98	0.2592518	0.2592077		-0.02	20
trans-1,2-Dichloroethene	A	100.0	100.3	0.232185	0.2328213		0.3	20
1,2-Dichloropropane	A	100.0	101.1	0.2939017	0.2971039		1.1	20
1,3-Dichloropropane	A	100.0	102.2	0.9290734	0.949426		2.2	20
2,2-Dichloropropane	A	100.0	105.6	0.3360143	0.3549766		5.6	20
1,1-Dichloropropene	A	100.0	98.52	0.3449394	0.3398324		-1.5	20
cis-1,3-Dichloropropene	A	100.0	104.3	0.4066317	0.4240858		4.3	20
trans-1,3-Dichloropropene	A	100.0	104.8	0.9175214	0.9615976		4.8	20
Ethylbenzene	A	100.0	99.98	2.517108	2.516599		-0.02	20
Hexachlorobutadiene	A	100.0	110.5	0.2814985	0.3111961		10.5	20
2-Hexanone	A	200.0	205.2	0.5223051	0.5357615		2.6	20
Isopropylbenzene	A	100.0	102.0	2.08273	2.124388		2.0	20
p-Isopropyltoluene	A	100.0	101.7	2.192872	2.230061		1.7	20
Methylene chloride	A	100.0	96.71	0.2230016	0.2156675		-3.3	20
Naphthalene	A	100.0	105.8	1.732869	1.833693		5.8	20
4-Methyl-2-pentanone	A	200.0	207.3	0.3178843	0.3294255		3.6	20
Methyl t-Butyl Ether	A	100.0	102.2	0.671406	0.6860397		2.2	20
n-Propylbenzene	A	100.0	102.1	3.306041	3.376203		2.1	20
Styrene	A	100.0	101.1	1.639822	1.657416		1.1	20
1,1,2,2-Tetrachloroethane	A	100.0	104.6	0.8224907	0.8599943	0.3	4.6	20
1,1,1,2-Tetrachloroethane	A	100.0	106.3	0.4841283	0.5147251		6.3	20
Tetrachloroethene	A	100.0	103.0	0.493688	0.5084743		3.0	20
Toluene	A	100.0	99.02	1.304397	1.291602		-1.0	20
1,2,3-Trichlorobenzene	A	100.0	102.3	0.640123	0.6548476		2.3	20
1,2,4-Trichlorobenzene	A	100.0	104.7	0.7320852	0.7668035		4.7	20
1,1,2-Trichloroethane	A	100.0	105.8	0.4306705	0.4558688		5.9	20
1,1,1-Trichloroethane	A	100.0	100.3	0.3333697	0.3344937		0.3	20
Trichloroethene	A	100.0	101.3	0.2466624	0.2497907		1.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA6	Calibration:	1339001
Lab File ID:	1220CCV1.D	Calibration Date:	12/02/11 12:56
Sequence:	1L35502	Injection Date:	12/20/11
Lab Sample ID:	1L35502-CCV1	Injection Time:	07:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	97.18	0.3060266	0.2973917		-2.8	20
1,2,3-Trichloropropane	A	100.0	100.5	0.1803791	0.1812408		0.5	20
1,3,5-Trimethylbenzene	A	100.0	102.4	2.214875	2.268461		2.4	20
1,2,4-Trimethylbenzene	A	100.0	100.9	2.30048	2.321677		0.9	20
Vinyl chloride	A	100.0	90.64	0.2182628	0.1978323		-9.4	20
Xylenes (total)	A	300.0	293.4	1.941731	1.899079		-2.2	20
Bromofluorobenzene	A	30.00	31.43	0.851342	0.8918699		4.8	20
Dibromofluoromethane	A	30.00	30.06	0.2790991	0.2796454		0.2	20
1,2-Dichloroethane-d4	A	30.00	30.08	6.133619E-02	0.0615087		0.3	20
Toluene-d8	A	30.00	31.60	2.160706	2.275774		5.3	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_039

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

Matrix: Laboratory ID: 1L14009-BLK1 File ID: 1214BLK1.D

Sampled: Prepared: Analyzed: 12/14/11 09:32

Solids: Preparation: 5030B Dilution:

Batch: 1L14009 Sequence: 1L34906 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	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	0.375	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1L14009-BLK1
File ID: 1214BLK1.D
Sampled:
Prepared:
Analyzed: 12/14/11 09:32
Solids:
Preparation: 5030B
Dilution:
Batch: 1L14009
Sequence: 1L34906
Calibration: 1339001
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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.21	104	75 - 120	
Dibromofluoromethane	30.00	30.05	100	85 - 115	
1,2-Dichloroethane-d4	30.00	31.02	103	70 - 120	
Toluene-d8	30.00	30.67	102	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L14009-BS1 File ID: 1214LCS1.D

Sampled: Prepared: Analyzed: 12/14/11 08:11

Solids: Preparation: 5030B Dilution:

Batch: 1L14009 Sequence: 1L34906 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	81.1	2.50	5.00	10.0	X
71-43-2	Benzene	48.6	0.250	0.500	1.00	
108-86-1	Bromobenzene	48.6	0.250	0.500	1.00	
74-97-5	Bromochloromethane	50.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	46.5	0.250	0.500	1.00	
75-25-2	Bromoform	44.7	0.250	0.500	1.00	
74-83-9	Bromomethane	37.3	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	51.0	0.250	0.500	1.00	
78-93-3	2-Butanone	98.9	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	50.2	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	49.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	43.8	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.6	0.250	0.500	1.00	
108-90-7	Chlorobenzene	48.1	0.250	0.500	1.00	
75-00-3	Chloroethane	54.5	0.500	1.00	2.00	
67-66-3	Chloroform	44.3	0.250	0.500	1.00	
74-87-3	Chloromethane	39.4	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	47.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	47.4	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	51.7	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	52.8	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	49.4	0.250	0.500	1.00	
74-95-3	Dibromomethane	47.4	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	48.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	47.4	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	48.6	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	45.8	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	48.4	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	45.3	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	46.6	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	48.5	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	47.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	48.2	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.6	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	50.6	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	48.9	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.1	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	45.8	0.250	0.500	1.00	
100-41-4	Ethylbenzene	49.2	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	53.2	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L14009-BS1 File ID: 1214LCS1.D

Sampled: Prepared: Analyzed: 12/14/11 08:11

Solids: Preparation: 5030B Dilution:

Batch: 1L14009 Sequence: 1L34906 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	98.9	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	47.6	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	46.8	0.250	0.500	1.00	
75-09-2	Methylene chloride	45.2	0.500	1.00	2.00	
91-20-3	Naphthalene	50.7	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	99.9	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	50.2	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	48.9	0.250	0.500	1.00	
100-42-5	Styrene	48.9	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	49.9	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	50.6	0.250	0.500	1.00	
108-88-3	Toluene	49.3	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.0	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	48.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	51.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.0	0.250	0.500	1.00	
79-01-6	Trichloroethene	48.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	50.4	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	48.3	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	50.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	49.1	0.250	0.500	1.00	
75-01-4	Vinyl chloride	56.1	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	147	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.97	103	75 - 120	
Dibromofluoromethane	30.00	29.98	99.9	85 - 115	
1,2-Dichloroethane-d4	30.00	29.97	99.9	70 - 120	
Toluene-d8	30.00	31.22	104	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L15008-BLK1 File ID: 1215BLK1.D

Sampled: Prepared: Analyzed: 12/15/11 10:22

Solids: Preparation: 5030B Dilution:

Batch: 1L15008 Sequence: 1L35002 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	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	0.333	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L15008-BLK1 File ID: 1215BLK1.D

Sampled: Prepared: Analyzed: 12/15/11 10:22

Solids: Preparation: 5030B Dilution:

Batch: 1L15008 Sequence: 1L35002 Calibration: 1339001 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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.40	101	75 - 120	
Dibromofluoromethane	30.00	30.31	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.99	103	70 - 120	
Toluene-d8	30.00	30.44	101	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1L15008-BS1
File ID: 1215LCS1.D
Sampled:
Prepared:
Analyzed: 12/15/11 08:35
Solids:
Preparation: 5030B
Dilution:
Batch: 1L15008
Sequence: 1L35002
Calibration: 1339001
Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	79.3	2.50	5.00	10.0	X
71-43-2	Benzene	49.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	47.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	49.8	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	45.5	0.250	0.500	1.00	
75-25-2	Bromoform	43.6	0.250	0.500	1.00	
74-83-9	Bromomethane	37.8	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.8	0.250	0.500	1.00	
78-93-3	2-Butanone	94.6	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	50.4	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	49.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	43.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.4	0.250	0.500	1.00	
108-90-7	Chlorobenzene	48.3	0.250	0.500	1.00	
75-00-3	Chloroethane	54.6	0.500	1.00	2.00	
67-66-3	Chloroform	44.0	0.250	0.500	1.00	
74-87-3	Chloromethane	38.2	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	46.9	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	46.7	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	50.5	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	52.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	48.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	47.0	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	48.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	48.4	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	48.6	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	46.4	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	47.6	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	44.4	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	47.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	48.3	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	48.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	48.1	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	47.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	50.2	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	49.1	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.1	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	45.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	49.8	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	54.6	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L15008-BS1 File ID: 1215LCS1.D

Sampled: Prepared: Analyzed: 12/15/11 08:35

Solids: Preparation: 5030B Dilution:

Batch: 1L15008 Sequence: 1L35002 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	94.3	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	47.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	47.2	0.250	0.500	1.00	
75-09-2	Methylene chloride	45.4	0.500	1.00	2.00	
91-20-3	Naphthalene	50.0	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	97.3	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	48.3	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	48.7	0.250	0.500	1.00	
100-42-5	Styrene	49.4	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	47.8	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	50.3	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.7	0.250	0.500	1.00	
108-88-3	Toluene	49.3	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.6	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	49.3	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	49.8	0.250	0.500	1.00	
79-01-6	Trichloroethene	48.9	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	50.8	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	46.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	49.9	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	48.2	0.250	0.500	1.00	
75-01-4	Vinyl chloride	56.0	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	147	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.87	103	75 - 120	
Dibromofluoromethane	30.00	30.19	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.59	102	70 - 120	
Toluene-d8	30.00	30.97	103	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L19009-BLK1 File ID: 1219BLK1.D

Sampled: Prepared: Analyzed: 12/19/11 09:41

Solids: Preparation: 5030B Dilution:

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	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	0.392	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1L19009-BLK1
File ID: 1219BLK1.D
Sampled:
Prepared:
Analyzed: 12/19/11 09:41
Solids:
Preparation: 5030B
Dilution:
Batch: 1L19009
Sequence: 1L35401
Calibration: 1339001
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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.60	102	75 - 120	
Dibromofluoromethane	30.00	30.69	102	85 - 115	
1,2-Dichloroethane-d4	30.00	31.12	104	70 - 120	
Toluene-d8	30.00	30.54	102	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_039

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

Matrix: | Laboratory ID: 1L19009-BS1 | File ID: 1219LCS1.D

Sampled: | Prepared: | Analyzed: 12/19/11 08:21

Solids: | Preparation: 5030B | Dilution:

Batch: 1L19009 | Sequence: 1L35401 | Calibration: 1339001 | Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	96.5	2.50	5.00	10.0	
71-43-2	Benzene	50.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	48.9	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.0	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	47.9	0.250	0.500	1.00	
75-25-2	Bromoform	47.2	0.250	0.500	1.00	
74-83-9	Bromomethane	40.1	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.8	0.250	0.500	1.00	
78-93-3	2-Butanone	108	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	49.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	49.5	0.250	0.500	1.00	
75-15-0	Carbon disulfide	43.8	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.5	0.250	0.500	1.00	
108-90-7	Chlorobenzene	49.9	0.250	0.500	1.00	
75-00-3	Chloroethane	55.2	0.500	1.00	2.00	
67-66-3	Chloroform	45.4	0.250	0.500	1.00	
74-87-3	Chloromethane	38.7	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	47.7	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	47.8	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	53.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	55.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	50.5	0.250	0.500	1.00	
74-95-3	Dibromomethane	49.1	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.7	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	49.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	49.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	43.5	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	49.9	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	46.8	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	47.3	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	50.2	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	49.4	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	50.3	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.1	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	52.9	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	48.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.8	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	47.5	0.250	0.500	1.00	
100-41-4	Ethylbenzene	49.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	55.2	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1L19009-BS1
File ID: 1219LCS1.D
Sampled:
Prepared:
Analyzed: 12/19/11 08:21
Solids:
Preparation: 5030B
Dilution:
Batch: 1L19009
Sequence: 1L35401
Calibration: 1339001
Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	103	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	47.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	47.0	0.250	0.500	1.00	
75-09-2	Methylene chloride	46.6	0.500	1.00	2.00	
91-20-3	Naphthalene	53.6	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	106	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	52.2	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	48.4	0.250	0.500	1.00	
100-42-5	Styrene	50.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	50.3	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	51.1	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	50.7	0.250	0.500	1.00	
108-88-3	Toluene	50.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	50.3	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.7	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	53.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	51.2	0.250	0.500	1.00	
79-01-6	Trichloroethene	49.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	49.3	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	48.5	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	50.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	49.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	55.8	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	148	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.70	102	75 - 120	
Dibromofluoromethane	30.00	30.44	101	85 - 115	
1,2-Dichloroethane-d4	30.00	31.00	103	70 - 120	
Toluene-d8	30.00	31.06	104	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L19009-BSD1 File ID: 1219LCD1.D

Sampled: Prepared: Analyzed: 12/19/11 17:18

Solids: Preparation: 5030B Dilution:

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	88.8	2.50	5.00	10.0	
71-43-2	Benzene	50.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	49.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.0	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	46.8	0.250	0.500	1.00	
75-25-2	Bromoform	44.6	0.250	0.500	1.00	
74-83-9	Bromomethane	35.2	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.5	0.250	0.500	1.00	
78-93-3	2-Butanone	105	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	50.2	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	50.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	43.1	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	50.4	0.250	0.500	1.00	
108-90-7	Chlorobenzene	48.5	0.250	0.500	1.00	
75-00-3	Chloroethane	54.7	0.500	1.00	2.00	
67-66-3	Chloroform	45.1	0.250	0.500	1.00	
74-87-3	Chloromethane	40.5	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	47.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	48.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	51.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	54.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	50.4	0.250	0.500	1.00	
74-95-3	Dibromomethane	49.0	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	48.8	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	48.7	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	49.0	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	44.5	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	49.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	46.0	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	46.9	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	49.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	47.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	49.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	45.0	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	48.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	45.3	0.250	0.500	1.00	
100-41-4	Ethylbenzene	49.8	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	47.1	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L19009-BSD1 File ID: 1219LCD1.D

Sampled: Prepared: Analyzed: 12/19/11 17:18

Solids: Preparation: 5030B Dilution:

Batch: 1L19009 Sequence: 1L35401 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	103	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	47.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	46.8	0.250	0.500	1.00	
75-09-2	Methylene chloride	47.3	0.500	1.00	2.00	
91-20-3	Naphthalene	51.0	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	107	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	50.1	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	49.4	0.250	0.500	1.00	
100-42-5	Styrene	49.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	51.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	50.0	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	49.2	0.250	0.500	1.00	
108-88-3	Toluene	49.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.0	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	49.2	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	52.6	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	49.7	0.250	0.500	1.00	
79-01-6	Trichloroethene	49.1	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	49.5	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	48.3	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	51.1	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	49.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride	54.1	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	147	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.86	103	75 - 120	
Dibromofluoromethane	30.00	30.27	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.36	101	70 - 120	
Toluene-d8	30.00	30.65	102	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L20009-BLK1 File ID: 1220BLK1.D

Sampled: Prepared: Analyzed: 12/20/11 09:38

Solids: Preparation: 5030B Dilution:

Batch: 1L20009 Sequence: 1L35502 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	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	0.371	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L20009-BLK1 File ID: 1220BLK1.D

Sampled: Prepared: Analyzed: 12/20/11 09:38

Solids: Preparation: 5030B Dilution:

Batch: 1L20009 Sequence: 1L35502 Calibration: 1339001 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
1330-20-7	Xylenes (total)		0.750	1.50	3.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.56	102	75 - 120	
Dibromofluoromethane	30.00	30.17	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.62	102	70 - 120	
Toluene-d8	30.00	30.44	101	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L20009-BS1 File ID: 1220LCS1.D

Sampled: Prepared: Analyzed: 12/20/11 08:17

Solids: Preparation: 5030B Dilution:

Batch: 1L20009 Sequence: 1L35502 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	101	2.50	5.00	10.0	
71-43-2	Benzene	51.1	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.3	0.250	0.500	1.00	
74-97-5	Bromochloromethane	52.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	48.3	0.250	0.500	1.00	
75-25-2	Bromoform	47.0	0.250	0.500	1.00	
74-83-9	Bromomethane	38.3	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	53.7	0.250	0.500	1.00	
78-93-3	2-Butanone	111	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	51.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	45.4	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.3	0.250	0.500	1.00	
108-90-7	Chlorobenzene	50.2	0.250	0.500	1.00	
75-00-3	Chloroethane	56.7	0.500	1.00	2.00	
67-66-3	Chloroform	46.0	0.250	0.500	1.00	
74-87-3	Chloromethane	39.5	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	49.3	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	54.3	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	56.2	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	50.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	49.7	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	50.7	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.3	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	45.0	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	50.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	47.1	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	48.3	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	51.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	50.1	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.0	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	51.6	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	53.0	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	50.0	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	54.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	48.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	50.6	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	56.9	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1L20009-BS1
File ID: 1220LCS1.D
Sampled:
Prepared:
Analyzed: 12/20/11 08:17
Solids:
Preparation: 5030B
Dilution:
Batch: 1L20009
Sequence: 1L35502
Calibration: 1339001
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	47.9	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	48.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	47.8	0.500	1.00	2.00	
91-20-3	Naphthalene	54.7	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	106	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	52.6	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	50.6	0.250	0.500	1.00	
100-42-5	Styrene	51.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	51.1	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	51.3	0.250	0.500	1.00	
108-88-3	Toluene	51.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.5	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	51.9	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	54.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	49.6	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	50.4	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	49.7	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.2	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.3	0.250	0.500	1.00	
75-01-4	Vinyl chloride	56.6	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	153	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.94	103	75 - 120	
Dibromofluoromethane	30.00	30.09	100	85 - 115	
1,2-Dichloroethane-d4	30.00	30.88	103	70 - 120	
Toluene-d8	30.00	30.96	103	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L20009-BSD1 File ID: 1220LCD1.D

Sampled: Prepared: Analyzed: 12/20/11 10:32

Solids: Preparation: 5030B Dilution:

Batch: 1L20009 Sequence: 1L35502 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	106	2.50	5.00	10.0	
71-43-2	Benzene	50.8	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.3	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	47.7	0.250	0.500	1.00	
75-25-2	Bromoform	43.8	0.250	0.500	1.00	
74-83-9	Bromomethane	39.5	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	52.8	0.250	0.500	1.00	
78-93-3	2-Butanone	106	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	52.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.0	0.250	0.500	1.00	
75-15-0	Carbon disulfide	43.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	50.6	0.250	0.500	1.00	
108-90-7	Chlorobenzene	49.8	0.250	0.500	1.00	
75-00-3	Chloroethane	56.1	0.500	1.00	2.00	
67-66-3	Chloroform	45.2	0.250	0.500	1.00	
74-87-3	Chloromethane	41.5	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	50.1	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	48.8	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	51.7	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	50.1	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	49.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	48.5	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	50.4	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.0	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	43.6	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	49.4	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	46.5	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	47.0	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	50.2	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	49.5	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	50.6	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	50.7	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	48.8	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.7	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	50.1	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	50.4	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L20009-BSD1 File ID: 1220LCD1.D

Sampled: Prepared: Analyzed: 12/20/11 10:32

Solids: Preparation: 5030B Dilution:

Batch: 1L20009 Sequence: 1L35502 Calibration: 1339001 Instrument: MS-VOA6

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	98.1	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	47.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	47.9	0.250	0.500	1.00	
75-09-2	Methylene chloride	47.7	0.500	1.00	2.00	
91-20-3	Naphthalene	49.0	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	96.7	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	49.0	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.2	0.250	0.500	1.00	
100-42-5	Styrene	50.0	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.1	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	51.5	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	50.4	0.250	0.500	1.00	
108-88-3	Toluene	50.2	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.2	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	49.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	51.9	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.3	0.250	0.500	1.00	
79-01-6	Trichloroethene	49.8	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	49.7	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	47.0	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	51.9	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	50.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	55.5	0.250	0.500	1.00	
1330-20-7	Xylenes (total)	151	0.750	1.50	3.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.09	104	75 - 120	
Dibromofluoromethane	30.00	30.00	100	85 - 115	
1,2-Dichloroethane-d4	30.00	29.33	97.8	70 - 120	
Toluene-d8	30.00	30.78	103	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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
GW0259	12/12/11 14:27	12/13/11 08:15	12/14/11 00:00	N/A	14.00	12/14/11 15:48	2.01	14.00	
GW0260	12/12/11 10:34	12/13/11 08:15	12/14/11 00:00	N/A	14.00	12/14/11 13:34	2.08	14.00	
GW8149-TB	12/12/11 08:00	12/13/11 08:15	12/14/11 00:00	N/A	14.00	12/14/11 13:07	2.17	14.00	
GW0255	12/13/11 10:31	12/14/11 08:15	12/15/11 00:00	N/A	14.00	12/15/11 12:37	2.05	14.00	
GW0273	12/13/11 13:48	12/14/11 08:15	12/15/11 00:00	N/A	14.00	12/15/11 13:04	1.93	14.00	
GW8150-TB	12/13/11 08:00	12/14/11 08:15	12/15/11 00:00	N/A	14.00	12/15/11 10:49	2.08	14.00	
GW8036-AB	12/13/11 10:31	12/14/11 08:15	12/15/11 00:00	N/A	14.00	12/15/11 11:16	1.99	14.00	
GW0320	12/15/11 11:08	12/16/11 08:15	12/19/11 00:00	N/A	14.00	12/19/11 12:50	4.03	14.00	
GW0320	12/15/11 11:08	12/16/11 08:15	12/20/11 00:00	N/A	14.00	12/20/11 10:05	4.91	14.00	
GW0326	12/14/11 11:45	12/16/11 08:15	12/19/11 00:00	N/A	14.00	12/19/11 13:16	5.02	14.00	
GW0334	12/14/11 15:48	12/16/11 08:15	12/19/11 00:00	N/A	14.00	12/19/11 15:58	4.97	14.00	
GW8151-TB	12/14/11 08:00	12/16/11 08:15	12/19/11 00:00	N/A	14.00	12/19/11 11:02	5.08	14.00	
GW0264	12/15/11 16:13	12/17/11 08:20	12/19/11 00:00	N/A	14.00	12/19/11 16:25	3.97	14.00	
GW0265	12/15/11 16:13	12/17/11 08:20	12/19/11 00:00	N/A	14.00	12/19/11 16:51	3.98	14.00	
GW0276	12/16/11 14:02	12/17/11 08:20	12/19/11 00:00	N/A	14.00	12/19/11 15:04	3.00	14.00	
GW8034-RB	12/16/11 09:22	12/17/11 08:20	12/19/11 00:00	N/A	14.00	12/19/11 11:56	3.07	14.00	
GW8152-TB	12/16/11 08:00	12/17/11 08:20	12/19/11 00:00	N/A	14.00	12/19/11 12:23	3.14	14.00	

Data for SW8270C Forms

ANALYSIS DATA SHEET

GW0259

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-01	File ID:	1208401D.D
Sampled:	12/12/11 14:27	Prepared:	12/15/11 09:30	Analyzed:	12/23/11 21:29
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1L15003 Sequence: 1L36207 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		11.8	23.6	47.2	U
208-96-8	Acenaphthylene		11.8	23.6	47.2	U
98-86-2	Acetophenone	212	11.8	23.6	47.2	D
120-12-7	Anthracene		11.8	23.6	47.2	U
1912-24-9	Atrazine		11.8	23.6	47.2	U
100-52-7	Benzaldehyde		11.8	23.6	47.2	Y, U
92-87-5	Benzidine		118	236	472	X, U
56-55-3	Benzo(a)anthracene		11.8	23.6	47.2	U
50-32-8	Benzo(a)pyrene		11.8	23.6	47.2	S, U
205-99-2	Benzo(b)fluoranthene		11.8	23.6	47.2	S, U
191-24-2	Benzo(g,h,i)perylene		11.8	23.6	47.2	S, U
65-85-0	Benzoic acid		118	236	472	X, U
207-08-9	Benzo(k)fluoranthene		11.8	23.6	47.2	S, U
92-52-4	1,1-Biphenyl	32.2	11.8	23.6	47.2	J, D
101-55-3	4-Bromophenyl-phenylether		11.8	23.6	47.2	U
85-68-7	Butylbenzylphthalate		11.8	23.6	47.2	Q, U
105-60-2	Caprolactam		11.8	23.6	47.2	Q, U
86-74-8	Carbazole		11.8	23.6	47.2	U
59-50-7	4-Chloro-3-methylphenol		11.8	23.6	47.2	U
106-47-8	4-Chloroaniline		11.8	23.6	47.2	U
111-91-1	Bis(2-chloroethoxy)methane		11.8	23.6	47.2	U
111-44-4	Bis(2-chloroethyl)ether		11.8	23.6	47.2	U
108-60-1	2,2'-Oxybis-1-chloropropane		11.8	23.6	47.2	U
91-58-7	2-Chloronaphthalene		11.8	23.6	47.2	U
95-57-8	2-Chlorophenol		11.8	23.6	47.2	U
7005-72-3	4-Chlorophenyl phenyl ether		11.8	23.6	47.2	U
218-01-9	Chrysene		11.8	23.6	47.2	U
53-70-3	Dibenz(a,h)anthracene		11.8	23.6	47.2	S, U
132-64-9	Dibenzofuran		11.8	23.6	47.2	U
84-74-2	Di-n-butylphthalate		11.8	23.6	47.2	U
91-94-1	3,3'-Dichlorobenzidine		11.8	23.6	47.2	U
120-83-2	2,4-Dichlorophenol		11.8	23.6	47.2	U
84-66-2	Diethylphthalate		11.8	23.6	47.2	U
105-67-9	2,4-Dimethylphenol	400	47.2	94.3	189	D
131-11-3	Dimethyl phthalate		11.8	23.6	47.2	U
534-52-1	4,6-Dinitro-2-methylphenol		47.2	94.3	189	Q, X, U
51-28-5	2,4-Dinitrophenol		9.43	236	472	X, U
121-14-2	2,4-Dinitrotoluene		11.8	23.6	47.2	U
606-20-2	2,6-Dinitrotoluene		11.8	23.6	47.2	U
117-84-0	Di-n-octylphthalate		11.8	23.6	47.2	Q, S, U

ANALYSIS DATA SHEET

GW0259

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-01	File ID:	1208401D.D
Sampled:	12/12/11 14:27	Prepared:	12/15/11 09:30	Analyzed:	12/23/11 21:29
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1L15003 Sequence: 1L36207 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		11.8	23.6	47.2	U
117-81-7	Bis(2-ethylhexyl)phthalate		11.8	23.6	47.2	U
206-44-0	Fluoranthene		11.8	23.6	47.2	U
86-73-7	Fluorene		11.8	23.6	47.2	U
118-74-1	Hexachlorobenzene		11.8	23.6	47.2	U
87-68-3	Hexachlorobutadiene		11.8	23.6	47.2	U
77-47-4	Hexachlorocyclopentadiene		11.8	23.6	47.2	X, U
67-72-1	Hexachloroethane		11.8	23.6	47.2	U
193-39-5	Indeno(1,2,3-cd)pyrene		11.8	23.6	47.2	S, U
78-59-1	Isophorone		11.8	23.6	47.2	U
90-12-0	1-Methylnaphthalene	135	11.8	23.6	47.2	D
91-57-6	2-Methylnaphthalene	123	11.8	23.6	47.2	D
95-48-7	2-Methylphenol	123	11.8	23.6	47.2	D
108-39-4/106	3-Methylphenol/4-Methylphenol	152	11.8	23.6	47.2	D
91-20-3	Naphthalene	104	11.8	23.6	47.2	D
100-01-6	4-Nitroaniline		47.2	94.3	189	U
99-09-2	3-Nitroaniline		47.2	94.3	189	U
88-74-4	2-Nitroaniline		47.2	94.3	189	Q, U
98-95-3	Nitrobenzene		11.8	23.6	47.2	U
100-02-7	4-Nitrophenol		47.2	94.3	189	U
88-75-5	2-Nitrophenol		11.8	23.6	47.2	Q, X, U
86-30-6	N-Nitrosodiphenylamine		11.8	23.6	47.2	U
621-64-7	N-Nitroso-di-n-propylamine		11.8	23.6	47.2	U
87-86-5	Pentachlorophenol		47.2	94.3	189	U
85-01-8	Phenanthrene		11.8	23.6	47.2	U
108-95-2	Phenol	31.8	11.8	23.6	47.2	J, D
129-00-0	Pyrene		11.8	23.6	47.2	U
88-06-2	2,4,6-Trichlorophenol		11.8	23.6	47.2	U
95-95-4	2,4,5-Trichlorophenol		11.8	23.6	47.2	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	39.25	83.2	50 - 110	
2-Fluorophenol	94.34	32.78	34.7	20 - 110	
Nitrobenzene-d5	47.17	48.29	102	40 - 110	
Phenol-d6	94.34	67.46	71.5	0 - 110	
Terphenyl-d14	47.17	47.94	102	50 - 135	
2,4,6-Tribromophenol	94.34	83.67	88.7	40 - 125	

ANALYSIS DATA SHEET

GW0260

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-03	File ID:	1208403.D
Sampled:	12/12/11 10:34	Prepared:	12/15/11 09:30	Analyzed:	12/23/11 11:06
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L15003 Sequence: 1L36207 Calibration: 1355004 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	15.1	1.18	2.36	4.72	
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	Y, 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	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	X, 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, U
105-60-2	Caprolactam	1.66	1.18	2.36	4.72	Q, J
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	Q, X, U
51-28-5	2,4-Dinitrophenol		0.943	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, U

ANALYSIS DATA SHEET

GW0260

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-03	File ID:	1208403.D
Sampled:	12/12/11 10:34	Prepared:	12/15/11 09:30	Analyzed:	12/23/11 11:06
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L15003 Sequence: 1L36207 Calibration: 1355004 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	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	X, 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	1.56	1.18	2.36	4.72	J
91-57-6	2-Methylnaphthalene	1.56	1.18	2.36	4.72	J
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
91-20-3	Naphthalene	2.22	1.18	2.36	4.72	J
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	Q, U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	Q, X, 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	37.72	80.0	50 - 110	
2-Fluorophenol	94.34	28.47	30.2	20 - 110	
Nitrobenzene-d5	47.17	42.39	89.9	40 - 110	
Phenol-d6	94.34	17.97	19.0	0 - 110	
Terphenyl-d14	47.17	42.78	90.7	50 - 135	
2,4,6-Tribromophenol	94.34	83.25	88.2	40 - 125	

ANALYSIS DATA SHEET

GW0255

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-01	File ID:	1209101.D
Sampled:	12/13/11 10:31	Prepared:	12/15/11 09:30	Analyzed:	12/23/11 11:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L15003 Sequence: 1L36207 Calibration: 1355004 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	Y, 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	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	X, 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, U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	Q, X, U
51-28-5	2,4-Dinitrophenol		0.943	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, U

ANALYSIS DATA SHEET

GW0255

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-01	File ID:	1209101.D
Sampled:	12/13/11 10:31	Prepared:	12/15/11 09:30	Analyzed:	12/23/11 11:37
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L15003 Sequence: 1L36207 Calibration: 1355004 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	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	X, 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
91-20-3	Naphthalene		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	Q, U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	Q, X, 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	36.02	76.4	50 - 110	
2-Fluorophenol	94.34	29.45	31.2	20 - 110	
Nitrobenzene-d5	47.17	41.76	88.5	40 - 110	
Phenol-d6	94.34	18.49	19.6	0 - 110	
Terphenyl-d14	47.17	41.70	88.4	50 - 135	
2,4,6-Tribromophenol	94.34	69.65	73.8	40 - 125	

ANALYSIS DATA SHEET

GW0273

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-03	File ID:	1209103.D
Sampled:	12/13/11 13:48	Prepared:	12/15/11 09:30	Analyzed:	12/23/11 12:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L15003 Sequence: 1L36207 Calibration: 1355004 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	Y, 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	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	X, 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, U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	Q, X, U
51-28-5	2,4-Dinitrophenol		0.943	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, U

ANALYSIS DATA SHEET

GW0273

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-03	File ID:	1209103.D
Sampled:	12/13/11 13:48	Prepared:	12/15/11 09:30	Analyzed:	12/23/11 12:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L15003 Sequence: 1L36207 Calibration: 1355004 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	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	X, 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
91-20-3	Naphthalene		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	Q, U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	Q, X, 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	36.87	78.2	50 - 110	
2-Fluorophenol	94.34	31.73	33.6	20 - 110	
Nitrobenzene-d5	47.17	42.20	89.5	40 - 110	
Phenol-d6	94.34	18.11	19.2	0 - 110	
Terphenyl-d14	47.17	44.76	94.9	50 - 135	
2,4,6-Tribromophenol	94.34	80.90	85.7	40 - 125	

ANALYSIS DATA SHEET

GW0320

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-01	File ID:	1210901.D
Sampled:	12/15/11 11:08	Prepared:	12/19/11 09:30	Analyzed:	12/29/11 19:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L16001 Sequence: 1L36407 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone	23.2	1.23	2.45	4.90	
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	Y, U
92-87-5	Benzidine		12.3	24.5	49.0	X, U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	X, U
105-60-2	Caprolactam	8.52	1.23	2.45	4.90	Q
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	X, U
51-28-5	2,4-Dinitrophenol		0.980	24.5	49.0	X, U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	X, U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	X, U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	X, U

ANALYSIS DATA SHEET

GW0320

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-01	File ID:	1210901.D
Sampled:	12/15/11 11:08	Prepared:	12/19/11 09:30	Analyzed:	12/29/11 19:32
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L16001 Sequence: 1L36407 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.23	2.45	4.90	X, U
206-44-0	Fluoranthene		1.23	2.45	4.90	U
86-73-7	Fluorene		1.23	2.45	4.90	U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	U
77-47-4	Hexachlorocyclopentadiene		1.23	2.45	4.90	X, U
67-72-1	Hexachloroethane		1.23	2.45	4.90	X, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene	5.33	1.23	2.45	4.90	
91-57-6	2-Methylnaphthalene	4.78	1.23	2.45	4.90	J
95-48-7	2-Methylphenol		1.23	2.45	4.90	Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene	8.23	1.23	2.45	4.90	
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	X, U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	X, U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	U
85-01-8	Phenanthrene		1.23	2.45	4.90	U
108-95-2	Phenol		1.23	2.45	4.90	U
129-00-0	Pyrene		1.23	2.45	4.90	X, U
88-06-2	2,4,6-Trichlorophenol		1.23	2.45	4.90	U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	27.00	55.1	50 - 110	
2-Fluorophenol	98.04	21.40	21.8	20 - 110	
Nitrobenzene-d5	49.02	31.00	63.2	40 - 110	
Phenol-d6	98.04	13.01	13.3	0 - 110	
Terphenyl-d14	49.02	29.87	60.9	50 - 135	
2,4,6-Tribromophenol	98.04	62.24	63.5	40 - 125	

ANALYSIS DATA SHEET

GW0326

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-03	File ID:	1210903.D
Sampled:	12/14/11 11:45	Prepared:	12/19/11 09:30	Analyzed:	12/29/11 20:03
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L16001 Sequence: 1L36407 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	Y, U
92-87-5	Benzidine		12.3	24.5	49.0	X, U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	X, U
105-60-2	Caprolactam		1.23	2.45	4.90	Q, U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	X, U
51-28-5	2,4-Dinitrophenol		0.980	24.5	49.0	X, U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	X, U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	X, U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	X, U

ANALYSIS DATA SHEET

GW0326

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-03	File ID:	1210903.D
Sampled:	12/14/11 11:45	Prepared:	12/19/11 09:30	Analyzed:	12/29/11 20:03
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L16001 Sequence: 1L36407 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.23	2.45	4.90	X, U
206-44-0	Fluoranthene		1.23	2.45	4.90	U
86-73-7	Fluorene		1.23	2.45	4.90	U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	U
77-47-4	Hexachlorocyclopentadiene		1.23	2.45	4.90	X, U
67-72-1	Hexachloroethane		1.23	2.45	4.90	X, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	X, U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	X, U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	U
85-01-8	Phenanthrene		1.23	2.45	4.90	U
108-95-2	Phenol		1.23	2.45	4.90	U
129-00-0	Pyrene		1.23	2.45	4.90	X, U
88-06-2	2,4,6-Trichlorophenol		1.23	2.45	4.90	U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	26.99	55.1	50 - 110	
2-Fluorophenol	98.04	21.00	21.4	20 - 110	
Nitrobenzene-d5	49.02	31.30	63.9	40 - 110	
Phenol-d6	98.04	13.15	13.4	0 - 110	
Terphenyl-d14	49.02	27.57	56.2	50 - 135	
2,4,6-Tribromophenol	98.04	55.38	56.5	40 - 125	

ANALYSIS DATA SHEET

GW0334

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-05	File ID:	1210905D.D
Sampled:	12/14/11 15:48	Prepared:	12/19/11 09:30	Analyzed:	12/30/11 23:33
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1L16001 Sequence: 1L36501 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		12.3	24.5	49.0	U
208-96-8	Acenaphthylene		12.3	24.5	49.0	U
98-86-2	Acetophenone	3940	12.3	24.5	49.0	D, E
120-12-7	Anthracene		12.3	24.5	49.0	U
1912-24-9	Atrazine		12.3	24.5	49.0	U
100-52-7	Benzaldehyde		12.3	24.5	49.0	Y, U
92-87-5	Benzidine		123	245	490	X, U
56-55-3	Benzo(a)anthracene		12.3	24.5	49.0	U
50-32-8	Benzo(a)pyrene		12.3	24.5	49.0	U
205-99-2	Benzo(b)fluoranthene		12.3	24.5	49.0	U
191-24-2	Benzo(g,h,i)perylene		12.3	24.5	49.0	U
65-85-0	Benzoic acid		123	245	490	X, U
207-08-9	Benzo(k)fluoranthene		12.3	24.5	49.0	U
92-52-4	1,1-Biphenyl		12.3	24.5	49.0	U
101-55-3	4-Bromophenyl-phenylether		12.3	24.5	49.0	U
85-68-7	Butylbenzylphthalate		12.3	24.5	49.0	U
105-60-2	Caprolactam		12.3	24.5	49.0	Q, U
86-74-8	Carbazole		12.3	24.5	49.0	U
59-50-7	4-Chloro-3-methylphenol		12.3	24.5	49.0	U
106-47-8	4-Chloroaniline		12.3	24.5	49.0	U
111-91-1	Bis(2-chloroethoxy)methane		12.3	24.5	49.0	U
111-44-4	Bis(2-chloroethyl)ether		12.3	24.5	49.0	U
108-60-1	2,2'-Oxybis-1-chloropropane		12.3	24.5	49.0	U
91-58-7	2-Chloronaphthalene		12.3	24.5	49.0	U
95-57-8	2-Chlorophenol		12.3	24.5	49.0	U
7005-72-3	4-Chlorophenyl phenyl ether		12.3	24.5	49.0	U
218-01-9	Chrysene		12.3	24.5	49.0	U
53-70-3	Dibenz(a,h)anthracene		12.3	24.5	49.0	U
132-64-9	Dibenzofuran		12.3	24.5	49.0	U
84-74-2	Di-n-butylphthalate		12.3	24.5	49.0	U
91-94-1	3,3'-Dichlorobenzidine		12.3	24.5	49.0	U
120-83-2	2,4-Dichlorophenol		12.3	24.5	49.0	U
84-66-2	Diethylphthalate	36.8	12.3	24.5	49.0	J, D
105-67-9	2,4-Dimethylphenol		49.0	98.0	196	U
131-11-3	Dimethyl phthalate		12.3	24.5	49.0	U
534-52-1	4,6-Dinitro-2-methylphenol		49.0	98.0	196	X, U
51-28-5	2,4-Dinitrophenol		9.80	245	490	X, U
121-14-2	2,4-Dinitrotoluene		12.3	24.5	49.0	U
606-20-2	2,6-Dinitrotoluene		12.3	24.5	49.0	U
117-84-0	Di-n-octylphthalate		12.3	24.5	49.0	X, U

ANALYSIS DATA SHEET

GW0334

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-05	File ID:	1210905D.D
Sampled:	12/14/11 15:48	Prepared:	12/19/11 09:30	Analyzed:	12/30/11 23:33
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1L16001 Sequence: 1L36501 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		12.3	24.5	49.0	U
117-81-7	Bis(2-ethylhexyl)phthalate		12.3	24.5	49.0	U
206-44-0	Fluoranthene		12.3	24.5	49.0	U
86-73-7	Fluorene		12.3	24.5	49.0	U
118-74-1	Hexachlorobenzene		12.3	24.5	49.0	U
87-68-3	Hexachlorobutadiene		12.3	24.5	49.0	U
77-47-4	Hexachlorocyclopentadiene		12.3	24.5	49.0	X, U
67-72-1	Hexachloroethane		12.3	24.5	49.0	X, U
193-39-5	Indeno(1,2,3-cd)pyrene		12.3	24.5	49.0	U
78-59-1	Isophorone		12.3	24.5	49.0	U
90-12-0	1-Methylnaphthalene	79.9	12.3	24.5	49.0	D
91-57-6	2-Methylnaphthalene	99.0	12.3	24.5	49.0	D
95-48-7	2-Methylphenol		12.3	24.5	49.0	Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		12.3	24.5	49.0	U
91-20-3	Naphthalene	169	12.3	24.5	49.0	D
100-01-6	4-Nitroaniline		49.0	98.0	196	U
99-09-2	3-Nitroaniline		49.0	98.0	196	U
88-74-4	2-Nitroaniline		49.0	98.0	196	U
98-95-3	Nitrobenzene		12.3	24.5	49.0	X, U
100-02-7	4-Nitrophenol		49.0	98.0	196	U
88-75-5	2-Nitrophenol		12.3	24.5	49.0	X, U
86-30-6	N-Nitrosodiphenylamine		12.3	24.5	49.0	U
621-64-7	N-Nitroso-di-n-propylamine		12.3	24.5	49.0	U
87-86-5	Pentachlorophenol		49.0	98.0	196	U
85-01-8	Phenanthrene		12.3	24.5	49.0	U
108-95-2	Phenol		12.3	24.5	49.0	U
129-00-0	Pyrene		12.3	24.5	49.0	U
88-06-2	2,4,6-Trichlorophenol		12.3	24.5	49.0	U
95-95-4	2,4,5-Trichlorophenol		12.3	24.5	49.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	34.53	70.4	50 - 110	
2-Fluorophenol	98.04	28.24	28.8	20 - 110	
Nitrobenzene-d5	49.02	41.50	84.7	40 - 110	
Phenol-d6	98.04	99.89	102	0 - 110	
Terphenyl-d14	49.02	40.11	81.8	50 - 135	
2,4,6-Tribromophenol	98.04	80.52	82.1	40 - 125	

ANALYSIS DATA SHEET

GW0334

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-05RE1	File ID:	1210905D.D
Sampled:	12/14/11 15:48	Prepared:	12/19/11 09:30	Analyzed:	12/31/11 16:33
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 1L16001 Sequence: 2A00411 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		123	245	490	U
208-96-8	Acenaphthylene		123	245	490	U
98-86-2	Acetophenone	4950	123	245	490	D
120-12-7	Anthracene		123	245	490	U
1912-24-9	Atrazine		123	245	490	U
100-52-7	Benzaldehyde		123	245	490	Y, U
92-87-5	Benzidine		1230	2450	4900	X, U
56-55-3	Benzo(a)anthracene		123	245	490	U
50-32-8	Benzo(a)pyrene		123	245	490	U
205-99-2	Benzo(b)fluoranthene		123	245	490	X, U
191-24-2	Benzo(g,h,i)perylene		123	245	490	U
65-85-0	Benzoic acid		1230	2450	4900	X, U
207-08-9	Benzo(k)fluoranthene		123	245	490	U
92-52-4	1,1-Biphenyl		123	245	490	U
101-55-3	4-Bromophenyl-phenylether		123	245	490	U
85-68-7	Butylbenzylphthalate		123	245	490	U
105-60-2	Caprolactam		123	245	490	Q, U
86-74-8	Carbazole		123	245	490	U
59-50-7	4-Chloro-3-methylphenol		123	245	490	U
106-47-8	4-Chloroaniline		123	245	490	U
111-91-1	Bis(2-chloroethoxy)methane		123	245	490	U
111-44-4	Bis(2-chloroethyl)ether		123	245	490	U
108-60-1	2,2'-Oxybis-1-chloropropane		123	245	490	U
91-58-7	2-Chloronaphthalene		123	245	490	U
95-57-8	2-Chlorophenol		123	245	490	U
7005-72-3	4-Chlorophenyl phenyl ether		123	245	490	U
218-01-9	Chrysene		123	245	490	U
53-70-3	Dibenz(a,h)anthracene		123	245	490	U
132-64-9	Dibenzofuran		123	245	490	U
84-74-2	Di-n-butylphthalate		123	245	490	U
91-94-1	3,3'-Dichlorobenzidine		123	245	490	X, U
120-83-2	2,4-Dichlorophenol		123	245	490	U
84-66-2	Diethylphthalate		123	245	490	U
105-67-9	2,4-Dimethylphenol		490	980	1960	U
131-11-3	Dimethyl phthalate		123	245	490	U
534-52-1	4,6-Dinitro-2-methylphenol		490	980	1960	X, U
51-28-5	2,4-Dinitrophenol		98.0	2450	4900	X, U
121-14-2	2,4-Dinitrotoluene		123	245	490	X, U
606-20-2	2,6-Dinitrotoluene		123	245	490	X, U
117-84-0	Di-n-octylphthalate		123	245	490	U

ANALYSIS DATA SHEET

GW0334

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-05RE1	File ID:	1210905D.D
Sampled:	12/14/11 15:48	Prepared:	12/19/11 09:30	Analyzed:	12/31/11 16:33
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 1L16001 Sequence: 2A00411 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		123	245	490	U
117-81-7	Bis(2-ethylhexyl)phthalate		123	245	490	U
206-44-0	Fluoranthene		123	245	490	U
86-73-7	Fluorene		123	245	490	U
118-74-1	Hexachlorobenzene		123	245	490	U
87-68-3	Hexachlorobutadiene		123	245	490	U
77-47-4	Hexachlorocyclopentadiene		123	245	490	X, U
67-72-1	Hexachloroethane		123	245	490	X, U
193-39-5	Indeno(1,2,3-cd)pyrene		123	245	490	U
78-59-1	Isophorone		123	245	490	U
90-12-0	1-Methylnaphthalene		123	245	490	U
91-57-6	2-Methylnaphthalene		123	245	490	U
95-48-7	2-Methylphenol		123	245	490	Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		123	245	490	U
91-20-3	Naphthalene	197	123	245	490	J, D
100-01-6	4-Nitroaniline		490	980	1960	U
99-09-2	3-Nitroaniline		490	980	1960	X, U
88-74-4	2-Nitroaniline		490	980	1960	X, U
98-95-3	Nitrobenzene		123	245	490	U
100-02-7	4-Nitrophenol		490	980	1960	X, U
88-75-5	2-Nitrophenol		123	245	490	X, U
86-30-6	N-Nitrosodiphenylamine		123	245	490	U
621-64-7	N-Nitroso-di-n-propylamine		123	245	490	U
87-86-5	Pentachlorophenol		490	980	1960	U
85-01-8	Phenanthrene		123	245	490	U
108-95-2	Phenol		123	245	490	U
129-00-0	Pyrene		123	245	490	U
88-06-2	2,4,6-Trichlorophenol		123	245	490	U
95-95-4	2,4,5-Trichlorophenol		123	245	490	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	0.000		50 - 110	DU
2-Fluorophenol	98.04	0.000		20 - 110	DU
Nitrobenzene-d5	49.02	0.000		40 - 110	DU
Phenol-d6	98.04	0.000		0 - 110	DU
Terphenyl-d14	49.02	0.000		50 - 135	DU
2,4,6-Tribromophenol	98.04	0.000		40 - 125	DU

ANALYSIS DATA SHEET

GW0264

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-01	File ID:	1211701D.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 10:00	Analyzed:	12/31/11 00:04
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1L16001 Sequence: 1L36501 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		12.5	25.0	50.0	U
208-96-8	Acenaphthylene		12.5	25.0	50.0	U
98-86-2	Acetophenone	4830	12.5	25.0	50.0	D, E
120-12-7	Anthracene		12.5	25.0	50.0	U
1912-24-9	Atrazine		12.5	25.0	50.0	U
100-52-7	Benzaldehyde		12.5	25.0	50.0	Y, U
92-87-5	Benzidine		125	250	500	X, U
56-55-3	Benzo(a)anthracene		12.5	25.0	50.0	U
50-32-8	Benzo(a)pyrene		12.5	25.0	50.0	U
205-99-2	Benzo(b)fluoranthene		12.5	25.0	50.0	U
191-24-2	Benzo(g,h,i)perylene		12.5	25.0	50.0	U
65-85-0	Benzoic acid		125	250	500	X, U
207-08-9	Benzo(k)fluoranthene		12.5	25.0	50.0	U
92-52-4	1,1-Biphenyl		12.5	25.0	50.0	U
101-55-3	4-Bromophenyl-phenylether		12.5	25.0	50.0	U
85-68-7	Butylbenzylphthalate		12.5	25.0	50.0	U
105-60-2	Caprolactam		12.5	25.0	50.0	Q, U
86-74-8	Carbazole		12.5	25.0	50.0	U
59-50-7	4-Chloro-3-methylphenol		12.5	25.0	50.0	U
106-47-8	4-Chloroaniline		12.5	25.0	50.0	U
111-91-1	Bis(2-chloroethoxy)methane		12.5	25.0	50.0	U
111-44-4	Bis(2-chloroethyl)ether		12.5	25.0	50.0	U
108-60-1	2,2'-Oxybis-1-chloropropane		12.5	25.0	50.0	U
91-58-7	2-Chloronaphthalene		12.5	25.0	50.0	U
95-57-8	2-Chlorophenol		12.5	25.0	50.0	U
7005-72-3	4-Chlorophenyl phenyl ether		12.5	25.0	50.0	U
218-01-9	Chrysene		12.5	25.0	50.0	U
53-70-3	Dibenz(a,h)anthracene		12.5	25.0	50.0	U
132-64-9	Dibenzofuran		12.5	25.0	50.0	U
84-74-2	Di-n-butylphthalate		12.5	25.0	50.0	U
91-94-1	3,3'-Dichlorobenzidine		12.5	25.0	50.0	U
120-83-2	2,4-Dichlorophenol		12.5	25.0	50.0	U
84-66-2	Diethylphthalate	28.1	12.5	25.0	50.0	J, D
105-67-9	2,4-Dimethylphenol		50.0	100	200	U
131-11-3	Dimethyl phthalate		12.5	25.0	50.0	U
534-52-1	4,6-Dinitro-2-methylphenol		50.0	100	200	X, U
51-28-5	2,4-Dinitrophenol		10.0	250	500	X, U
121-14-2	2,4-Dinitrotoluene		12.5	25.0	50.0	U
606-20-2	2,6-Dinitrotoluene		12.5	25.0	50.0	U
117-84-0	Di-n-octylphthalate		12.5	25.0	50.0	X, U

ANALYSIS DATA SHEET

GW0264

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-01	File ID:	1211701D.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 10:00	Analyzed:	12/31/11 00:04
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1L16001 Sequence: 1L36501 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		12.5	25.0	50.0	U
117-81-7	Bis(2-ethylhexyl)phthalate		12.5	25.0	50.0	U
206-44-0	Fluoranthene		12.5	25.0	50.0	U
86-73-7	Fluorene		12.5	25.0	50.0	U
118-74-1	Hexachlorobenzene		12.5	25.0	50.0	U
87-68-3	Hexachlorobutadiene		12.5	25.0	50.0	U
77-47-4	Hexachlorocyclopentadiene		12.5	25.0	50.0	X, U
67-72-1	Hexachloroethane		12.5	25.0	50.0	X, U
193-39-5	Indeno(1,2,3-cd)pyrene		12.5	25.0	50.0	U
78-59-1	Isophorone		12.5	25.0	50.0	U
90-12-0	1-Methylnaphthalene	23.8	12.5	25.0	50.0	J, D
91-57-6	2-Methylnaphthalene	26.9	12.5	25.0	50.0	J, D
95-48-7	2-Methylphenol		12.5	25.0	50.0	Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		12.5	25.0	50.0	U
91-20-3	Naphthalene	78.3	12.5	25.0	50.0	D
100-01-6	4-Nitroaniline		50.0	100	200	U
99-09-2	3-Nitroaniline		50.0	100	200	U
88-74-4	2-Nitroaniline		50.0	100	200	U
98-95-3	Nitrobenzene		12.5	25.0	50.0	X, U
100-02-7	4-Nitrophenol		50.0	100	200	U
88-75-5	2-Nitrophenol		12.5	25.0	50.0	X, U
86-30-6	N-Nitrosodiphenylamine		12.5	25.0	50.0	U
621-64-7	N-Nitroso-di-n-propylamine		12.5	25.0	50.0	U
87-86-5	Pentachlorophenol		50.0	100	200	U
85-01-8	Phenanthrene		12.5	25.0	50.0	U
108-95-2	Phenol		12.5	25.0	50.0	U
129-00-0	Pyrene		12.5	25.0	50.0	U
88-06-2	2,4,6-Trichlorophenol		12.5	25.0	50.0	U
95-95-4	2,4,5-Trichlorophenol		12.5	25.0	50.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	33.00	66.0	50 - 110	
2-Fluorophenol	100.0	25.50	25.5	20 - 110	
Nitrobenzene-d5	50.00	36.52	73.0	40 - 110	
Phenol-d6	100.0	37.67	37.7	0 - 110	
Terphenyl-d14	50.00	37.08	74.2	50 - 135	
2,4,6-Tribromophenol	100.0	82.22	82.2	40 - 125	

ANALYSIS DATA SHEET

GW0264

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-01RE1	File ID:	1211701D.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 10:00	Analyzed:	12/31/11 17:05
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 1L16001 Sequence: 2A00411 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		125	250	500	U
208-96-8	Acenaphthylene		125	250	500	U
98-86-2	Acetophenone	5470	125	250	500	D
120-12-7	Anthracene		125	250	500	U
1912-24-9	Atrazine		125	250	500	U
100-52-7	Benzaldehyde		125	250	500	Y, U
92-87-5	Benzidine		1250	2500	5000	X, U
56-55-3	Benzo(a)anthracene		125	250	500	U
50-32-8	Benzo(a)pyrene		125	250	500	U
205-99-2	Benzo(b)fluoranthene		125	250	500	X, U
191-24-2	Benzo(g,h,i)perylene		125	250	500	U
65-85-0	Benzoic acid		1250	2500	5000	X, U
207-08-9	Benzo(k)fluoranthene		125	250	500	U
92-52-4	1,1-Biphenyl		125	250	500	U
101-55-3	4-Bromophenyl-phenylether		125	250	500	U
85-68-7	Butylbenzylphthalate		125	250	500	U
105-60-2	Caprolactam		125	250	500	Q, U
86-74-8	Carbazole		125	250	500	U
59-50-7	4-Chloro-3-methylphenol		125	250	500	U
106-47-8	4-Chloroaniline		125	250	500	U
111-91-1	Bis(2-chloroethoxy)methane		125	250	500	U
111-44-4	Bis(2-chloroethyl)ether		125	250	500	U
108-60-1	2,2'-Oxybis-1-chloropropane		125	250	500	U
91-58-7	2-Chloronaphthalene		125	250	500	U
95-57-8	2-Chlorophenol		125	250	500	U
7005-72-3	4-Chlorophenyl phenyl ether		125	250	500	U
218-01-9	Chrysene		125	250	500	U
53-70-3	Dibenz(a,h)anthracene		125	250	500	U
132-64-9	Dibenzofuran		125	250	500	U
84-74-2	Di-n-butylphthalate		125	250	500	U
91-94-1	3,3'-Dichlorobenzidine		125	250	500	X, U
120-83-2	2,4-Dichlorophenol		125	250	500	U
84-66-2	Diethylphthalate		125	250	500	U
105-67-9	2,4-Dimethylphenol		500	1000	2000	U
131-11-3	Dimethyl phthalate		125	250	500	U
534-52-1	4,6-Dinitro-2-methylphenol		500	1000	2000	X, U
51-28-5	2,4-Dinitrophenol		100	2500	5000	X, U
121-14-2	2,4-Dinitrotoluene		125	250	500	X, U
606-20-2	2,6-Dinitrotoluene		125	250	500	X, U
117-84-0	Di-n-octylphthalate		125	250	500	U

ANALYSIS DATA SHEET

GW0264

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-01RE1	File ID:	1211701D.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 10:00	Analyzed:	12/31/11 17:05
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 1L16001 Sequence: 2A00411 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		125	250	500	U
117-81-7	Bis(2-ethylhexyl)phthalate		125	250	500	U
206-44-0	Fluoranthene		125	250	500	U
86-73-7	Fluorene		125	250	500	U
118-74-1	Hexachlorobenzene		125	250	500	U
87-68-3	Hexachlorobutadiene		125	250	500	U
77-47-4	Hexachlorocyclopentadiene		125	250	500	X, U
67-72-1	Hexachloroethane		125	250	500	X, U
193-39-5	Indeno(1,2,3-cd)pyrene		125	250	500	U
78-59-1	Isophorone		125	250	500	U
90-12-0	1-Methylnaphthalene		125	250	500	U
91-57-6	2-Methylnaphthalene		125	250	500	U
95-48-7	2-Methylphenol		125	250	500	Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		125	250	500	U
91-20-3	Naphthalene		125	250	500	U
100-01-6	4-Nitroaniline		500	1000	2000	U
99-09-2	3-Nitroaniline		500	1000	2000	X, U
88-74-4	2-Nitroaniline		500	1000	2000	X, U
98-95-3	Nitrobenzene		125	250	500	U
100-02-7	4-Nitrophenol		500	1000	2000	X, U
88-75-5	2-Nitrophenol		125	250	500	X, U
86-30-6	N-Nitrosodiphenylamine		125	250	500	U
621-64-7	N-Nitroso-di-n-propylamine		125	250	500	U
87-86-5	Pentachlorophenol		500	1000	2000	U
85-01-8	Phenanthrene		125	250	500	U
108-95-2	Phenol		125	250	500	U
129-00-0	Pyrene		125	250	500	U
88-06-2	2,4,6-Trichlorophenol		125	250	500	U
95-95-4	2,4,5-Trichlorophenol		125	250	500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	0.000		50 - 110	DU
2-Fluorophenol	100.0	0.000		20 - 110	DU
Nitrobenzene-d5	50.00	0.000		40 - 110	DU
Phenol-d6	100.0	0.000		0 - 110	DU
Terphenyl-d14	50.00	0.000		50 - 135	DU
2,4,6-Tribromophenol	100.0	0.000		40 - 125	DU

ANALYSIS DATA SHEET

GW0265

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-03	File ID:	1211703D.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 10:00	Analyzed:	12/31/11 00:36
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1L16001 Sequence: 1L36501 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		12.3	24.5	49.0	U
208-96-8	Acenaphthylene		12.3	24.5	49.0	U
98-86-2	Acetophenone	5910	12.3	24.5	49.0	D, E
120-12-7	Anthracene		12.3	24.5	49.0	U
1912-24-9	Atrazine		12.3	24.5	49.0	U
100-52-7	Benzaldehyde		12.3	24.5	49.0	Y, U
92-87-5	Benzidine		123	245	490	X, U
56-55-3	Benzo(a)anthracene		12.3	24.5	49.0	U
50-32-8	Benzo(a)pyrene		12.3	24.5	49.0	U
205-99-2	Benzo(b)fluoranthene		12.3	24.5	49.0	U
191-24-2	Benzo(g,h,i)perylene		12.3	24.5	49.0	U
65-85-0	Benzoic acid		123	245	490	X, U
207-08-9	Benzo(k)fluoranthene		12.3	24.5	49.0	U
92-52-4	1,1-Biphenyl		12.3	24.5	49.0	U
101-55-3	4-Bromophenyl-phenylether		12.3	24.5	49.0	U
85-68-7	Butylbenzylphthalate		12.3	24.5	49.0	U
105-60-2	Caprolactam		12.3	24.5	49.0	Q, U
86-74-8	Carbazole		12.3	24.5	49.0	U
59-50-7	4-Chloro-3-methylphenol		12.3	24.5	49.0	U
106-47-8	4-Chloroaniline		12.3	24.5	49.0	U
111-91-1	Bis(2-chloroethoxy)methane		12.3	24.5	49.0	U
111-44-4	Bis(2-chloroethyl)ether		12.3	24.5	49.0	U
108-60-1	2,2'-Oxybis-1-chloropropane		12.3	24.5	49.0	U
91-58-7	2-Chloronaphthalene		12.3	24.5	49.0	U
95-57-8	2-Chlorophenol		12.3	24.5	49.0	U
7005-72-3	4-Chlorophenyl phenyl ether		12.3	24.5	49.0	U
218-01-9	Chrysene		12.3	24.5	49.0	U
53-70-3	Dibenz(a,h)anthracene		12.3	24.5	49.0	U
132-64-9	Dibenzofuran		12.3	24.5	49.0	U
84-74-2	Di-n-butylphthalate		12.3	24.5	49.0	U
91-94-1	3,3'-Dichlorobenzidine		12.3	24.5	49.0	U
120-83-2	2,4-Dichlorophenol		12.3	24.5	49.0	U
84-66-2	Diethylphthalate	29.8	12.3	24.5	49.0	D, J
105-67-9	2,4-Dimethylphenol		49.0	98.0	196	U
131-11-3	Dimethyl phthalate		12.3	24.5	49.0	U
534-52-1	4,6-Dinitro-2-methylphenol		49.0	98.0	196	X, U
51-28-5	2,4-Dinitrophenol		9.80	245	490	X, U
121-14-2	2,4-Dinitrotoluene		12.3	24.5	49.0	U
606-20-2	2,6-Dinitrotoluene		12.3	24.5	49.0	U
117-84-0	Di-n-octylphthalate		12.3	24.5	49.0	X, U

ANALYSIS DATA SHEET

GW0265

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-03	File ID:	1211703D.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 10:00	Analyzed:	12/31/11 00:36
Solids:		Preparation:	EXT_3510	Dilution:	10

Batch: 1L16001 Sequence: 1L36501 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		12.3	24.5	49.0	U
117-81-7	Bis(2-ethylhexyl)phthalate		12.3	24.5	49.0	U
206-44-0	Fluoranthene		12.3	24.5	49.0	U
86-73-7	Fluorene		12.3	24.5	49.0	U
118-74-1	Hexachlorobenzene		12.3	24.5	49.0	U
87-68-3	Hexachlorobutadiene		12.3	24.5	49.0	U
77-47-4	Hexachlorocyclopentadiene		12.3	24.5	49.0	X, U
67-72-1	Hexachloroethane		12.3	24.5	49.0	X, U
193-39-5	Indeno(1,2,3-cd)pyrene		12.3	24.5	49.0	U
78-59-1	Isophorone		12.3	24.5	49.0	U
90-12-0	1-Methylnaphthalene	30.0	12.3	24.5	49.0	D, J
91-57-6	2-Methylnaphthalene	36.0	12.3	24.5	49.0	D, J
95-48-7	2-Methylphenol		12.3	24.5	49.0	Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		12.3	24.5	49.0	U
91-20-3	Naphthalene	103	12.3	24.5	49.0	D
100-01-6	4-Nitroaniline		49.0	98.0	196	U
99-09-2	3-Nitroaniline		49.0	98.0	196	U
88-74-4	2-Nitroaniline		49.0	98.0	196	U
98-95-3	Nitrobenzene		12.3	24.5	49.0	X, U
100-02-7	4-Nitrophenol		49.0	98.0	196	U
88-75-5	2-Nitrophenol		12.3	24.5	49.0	X, U
86-30-6	N-Nitrosodiphenylamine		12.3	24.5	49.0	U
621-64-7	N-Nitroso-di-n-propylamine		12.3	24.5	49.0	U
87-86-5	Pentachlorophenol		49.0	98.0	196	U
85-01-8	Phenanthrene		12.3	24.5	49.0	U
108-95-2	Phenol		12.3	24.5	49.0	U
129-00-0	Pyrene		12.3	24.5	49.0	U
88-06-2	2,4,6-Trichlorophenol		12.3	24.5	49.0	U
95-95-4	2,4,5-Trichlorophenol		12.3	24.5	49.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	43.15	88.0	50 - 110	
2-Fluorophenol	98.04	27.38	27.9	20 - 110	
Nitrobenzene-d5	49.02	51.72	106	40 - 110	
Phenol-d6	98.04	56.49	57.6	0 - 110	
Terphenyl-d14	49.02	37.47	76.4	50 - 135	
2,4,6-Tribromophenol	98.04	94.91	96.8	40 - 125	

ANALYSIS DATA SHEET

GW0265

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-03RE1	File ID:	1211703D.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 10:00	Analyzed:	12/31/11 17:36
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 1L16001 Sequence: 2A00411 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		123	245	490	U
208-96-8	Acenaphthylene		123	245	490	U
98-86-2	Acetophenone	7070	123	245	490	D
120-12-7	Anthracene		123	245	490	U
1912-24-9	Atrazine		123	245	490	U
100-52-7	Benzaldehyde		123	245	490	Y, U
92-87-5	Benzidine		1230	2450	4900	X, U
56-55-3	Benzo(a)anthracene		123	245	490	U
50-32-8	Benzo(a)pyrene		123	245	490	S, U
205-99-2	Benzo(b)fluoranthene		123	245	490	X, S, U
191-24-2	Benzo(g,h,i)perylene		123	245	490	S, U
65-85-0	Benzoic acid		1230	2450	4900	X, U
207-08-9	Benzo(k)fluoranthene		123	245	490	S, U
92-52-4	1,1-Biphenyl		123	245	490	U
101-55-3	4-Bromophenyl-phenylether		123	245	490	U
85-68-7	Butylbenzylphthalate		123	245	490	U
105-60-2	Caprolactam		123	245	490	Q, U
86-74-8	Carbazole		123	245	490	U
59-50-7	4-Chloro-3-methylphenol		123	245	490	U
106-47-8	4-Chloroaniline		123	245	490	U
111-91-1	Bis(2-chloroethoxy)methane		123	245	490	U
111-44-4	Bis(2-chloroethyl)ether		123	245	490	U
108-60-1	2,2'-Oxybis-1-chloropropane		123	245	490	U
91-58-7	2-Chloronaphthalene		123	245	490	U
95-57-8	2-Chlorophenol		123	245	490	U
7005-72-3	4-Chlorophenyl phenyl ether		123	245	490	U
218-01-9	Chrysene		123	245	490	U
53-70-3	Dibenz(a,h)anthracene		123	245	490	S, U
132-64-9	Dibenzofuran		123	245	490	U
84-74-2	Di-n-butylphthalate		123	245	490	U
91-94-1	3,3'-Dichlorobenzidine		123	245	490	X, U
120-83-2	2,4-Dichlorophenol		123	245	490	U
84-66-2	Diethylphthalate		123	245	490	U
105-67-9	2,4-Dimethylphenol		490	980	1960	U
131-11-3	Dimethyl phthalate		123	245	490	U
534-52-1	4,6-Dinitro-2-methylphenol		490	980	1960	X, U
51-28-5	2,4-Dinitrophenol		98.0	2450	4900	X, U
121-14-2	2,4-Dinitrotoluene		123	245	490	X, U
606-20-2	2,6-Dinitrotoluene		123	245	490	X, U
117-84-0	Di-n-octylphthalate		123	245	490	S, U

ANALYSIS DATA SHEET

GW0265

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-03RE1	File ID:	1211703D.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 10:00	Analyzed:	12/31/11 17:36
Solids:		Preparation:	EXT_3510	Dilution:	100

Batch: 1L16001 Sequence: 2A00411 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		123	245	490	U
117-81-7	Bis(2-ethylhexyl)phthalate		123	245	490	U
206-44-0	Fluoranthene		123	245	490	U
86-73-7	Fluorene		123	245	490	U
118-74-1	Hexachlorobenzene		123	245	490	U
87-68-3	Hexachlorobutadiene		123	245	490	U
77-47-4	Hexachlorocyclopentadiene		123	245	490	X, U
67-72-1	Hexachloroethane		123	245	490	X, U
193-39-5	Indeno(1,2,3-cd)pyrene		123	245	490	S, U
78-59-1	Isophorone		123	245	490	U
90-12-0	1-Methylnaphthalene		123	245	490	U
91-57-6	2-Methylnaphthalene		123	245	490	U
95-48-7	2-Methylphenol		123	245	490	Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		123	245	490	U
91-20-3	Naphthalene		123	245	490	U
100-01-6	4-Nitroaniline		490	980	1960	U
99-09-2	3-Nitroaniline		490	980	1960	X, U
88-74-4	2-Nitroaniline		490	980	1960	X, U
98-95-3	Nitrobenzene		123	245	490	U
100-02-7	4-Nitrophenol		490	980	1960	X, U
88-75-5	2-Nitrophenol		123	245	490	X, U
86-30-6	N-Nitrosodiphenylamine		123	245	490	U
621-64-7	N-Nitroso-di-n-propylamine		123	245	490	U
87-86-5	Pentachlorophenol		490	980	1960	U
85-01-8	Phenanthrene		123	245	490	U
108-95-2	Phenol		123	245	490	U
129-00-0	Pyrene		123	245	490	U
88-06-2	2,4,6-Trichlorophenol		123	245	490	U
95-95-4	2,4,5-Trichlorophenol		123	245	490	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	0.000		50 - 110	DU
2-Fluorophenol	98.04	0.000		20 - 110	DU
Nitrobenzene-d5	49.02	0.000		40 - 110	DU
Phenol-d6	98.04	0.000		0 - 110	DU
Terphenyl-d14	49.02	0.000		50 - 135	DU
2,4,6-Tribromophenol	98.04	0.000		40 - 125	DU

ANALYSIS DATA SHEET

GW0276

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-05	File ID:	1211705.D
Sampled:	12/16/11 14:02	Prepared:	12/19/11 10:00	Analyzed:	12/29/11 22:07
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L16001 Sequence: 1L36407 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone	2.10	1.23	2.45	4.90	J
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	Y, U
92-87-5	Benzidine		12.3	24.5	49.0	X, U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	X, U
105-60-2	Caprolactam		1.23	2.45	4.90	Q, U
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	X, U
51-28-5	2,4-Dinitrophenol		0.980	24.5	49.0	X, U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	X, U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	X, U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	X, U

ANALYSIS DATA SHEET

GW0276

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-05	File ID:	1211705.D
Sampled:	12/16/11 14:02	Prepared:	12/19/11 10:00	Analyzed:	12/29/11 22:07
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L16001 Sequence: 1L36407 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.23	2.45	4.90	X, U
206-44-0	Fluoranthene		1.23	2.45	4.90	U
86-73-7	Fluorene		1.23	2.45	4.90	U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	U
77-47-4	Hexachlorocyclopentadiene		1.23	2.45	4.90	X, U
67-72-1	Hexachloroethane		1.23	2.45	4.90	X, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene		1.23	2.45	4.90	U
91-57-6	2-Methylnaphthalene		1.23	2.45	4.90	U
95-48-7	2-Methylphenol		1.23	2.45	4.90	Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	X, U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	X, U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	U
85-01-8	Phenanthrene		1.23	2.45	4.90	U
108-95-2	Phenol		1.23	2.45	4.90	U
129-00-0	Pyrene		1.23	2.45	4.90	X, U
88-06-2	2,4,6-Trichlorophenol		1.23	2.45	4.90	U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	31.81	64.9	50 - 110	
2-Fluorophenol	98.04	24.80	25.3	20 - 110	
Nitrobenzene-d5	49.02	35.84	73.1	40 - 110	
Phenol-d6	98.04	14.18	14.5	0 - 110	
Terphenyl-d14	49.02	30.31	61.8	50 - 135	
2,4,6-Tribromophenol	98.04	69.56	71.0	40 - 125	

ANALYSIS DATA SHEET

GW8034-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-07	File ID:	1211707.D
Sampled:	12/16/11 09:22	Prepared:	12/19/11 10:00	Analyzed:	12/29/11 22:39
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L16001 Sequence: 1L36407 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.23	2.45	4.90	U
208-96-8	Acenaphthylene		1.23	2.45	4.90	U
98-86-2	Acetophenone		1.23	2.45	4.90	U
120-12-7	Anthracene		1.23	2.45	4.90	U
1912-24-9	Atrazine		1.23	2.45	4.90	U
100-52-7	Benzaldehyde		1.23	2.45	4.90	Y, U
92-87-5	Benzidine		12.3	24.5	49.0	X, U
56-55-3	Benzo(a)anthracene		1.23	2.45	4.90	U
50-32-8	Benzo(a)pyrene		1.23	2.45	4.90	U
205-99-2	Benzo(b)fluoranthene		1.23	2.45	4.90	U
191-24-2	Benzo(g,h,i)perylene		1.23	2.45	4.90	U
65-85-0	Benzoic acid		12.3	24.5	49.0	U
207-08-9	Benzo(k)fluoranthene		1.23	2.45	4.90	U
92-52-4	1,1-Biphenyl		1.23	2.45	4.90	U
101-55-3	4-Bromophenyl-phenylether		1.23	2.45	4.90	U
85-68-7	Butylbenzylphthalate		1.23	2.45	4.90	X, U
105-60-2	Caprolactam	4.92	1.23	2.45	4.90	Q
86-74-8	Carbazole		1.23	2.45	4.90	U
59-50-7	4-Chloro-3-methylphenol		1.23	2.45	4.90	U
106-47-8	4-Chloroaniline		1.23	2.45	4.90	U
111-91-1	Bis(2-chloroethoxy)methane		1.23	2.45	4.90	U
111-44-4	Bis(2-chloroethyl)ether		1.23	2.45	4.90	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.23	2.45	4.90	U
91-58-7	2-Chloronaphthalene		1.23	2.45	4.90	U
95-57-8	2-Chlorophenol		1.23	2.45	4.90	U
7005-72-3	4-Chlorophenyl phenyl ether		1.23	2.45	4.90	U
218-01-9	Chrysene		1.23	2.45	4.90	U
53-70-3	Dibenz(a,h)anthracene		1.23	2.45	4.90	U
132-64-9	Dibenzofuran		1.23	2.45	4.90	U
84-74-2	Di-n-butylphthalate		1.23	2.45	4.90	U
91-94-1	3,3'-Dichlorobenzidine		1.23	2.45	4.90	U
120-83-2	2,4-Dichlorophenol		1.23	2.45	4.90	U
84-66-2	Diethylphthalate		1.23	2.45	4.90	U
105-67-9	2,4-Dimethylphenol		4.90	9.80	19.6	U
131-11-3	Dimethyl phthalate		1.23	2.45	4.90	U
534-52-1	4,6-Dinitro-2-methylphenol		4.90	9.80	19.6	X, U
51-28-5	2,4-Dinitrophenol		0.980	24.5	49.0	X, U
121-14-2	2,4-Dinitrotoluene		1.23	2.45	4.90	X, U
606-20-2	2,6-Dinitrotoluene		1.23	2.45	4.90	X, U
117-84-0	Di-n-octylphthalate		1.23	2.45	4.90	X, U

ANALYSIS DATA SHEET

GW8034-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-07	File ID:	1211707.D
Sampled:	12/16/11 09:22	Prepared:	12/19/11 10:00	Analyzed:	12/29/11 22:39
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L16001 Sequence: 1L36407 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.23	2.45	4.90	U
117-81-7	Bis(2-ethylhexyl)phthalate	58.0	1.23	2.45	4.90	X
206-44-0	Fluoranthene		1.23	2.45	4.90	U
86-73-7	Fluorene		1.23	2.45	4.90	U
118-74-1	Hexachlorobenzene		1.23	2.45	4.90	U
87-68-3	Hexachlorobutadiene		1.23	2.45	4.90	U
77-47-4	Hexachlorocyclopentadiene		1.23	2.45	4.90	X, U
67-72-1	Hexachloroethane		1.23	2.45	4.90	X, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.23	2.45	4.90	U
78-59-1	Isophorone		1.23	2.45	4.90	U
90-12-0	1-Methylnaphthalene	2.18	1.23	2.45	4.90	J
91-57-6	2-Methylnaphthalene	2.43	1.23	2.45	4.90	J
95-48-7	2-Methylphenol		1.23	2.45	4.90	Q, U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.23	2.45	4.90	U
91-20-3	Naphthalene		1.23	2.45	4.90	U
100-01-6	4-Nitroaniline		4.90	9.80	19.6	U
99-09-2	3-Nitroaniline		4.90	9.80	19.6	U
88-74-4	2-Nitroaniline		4.90	9.80	19.6	X, U
98-95-3	Nitrobenzene		1.23	2.45	4.90	U
100-02-7	4-Nitrophenol		4.90	9.80	19.6	U
88-75-5	2-Nitrophenol		1.23	2.45	4.90	X, U
86-30-6	N-Nitrosodiphenylamine		1.23	2.45	4.90	U
621-64-7	N-Nitroso-di-n-propylamine		1.23	2.45	4.90	U
87-86-5	Pentachlorophenol		4.90	9.80	19.6	U
85-01-8	Phenanthrene		1.23	2.45	4.90	U
108-95-2	Phenol		1.23	2.45	4.90	U
129-00-0	Pyrene		1.23	2.45	4.90	X, U
88-06-2	2,4,6-Trichlorophenol		1.23	2.45	4.90	U
95-95-4	2,4,5-Trichlorophenol		1.23	2.45	4.90	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	49.02	27.39	55.9	50 - 110	
2-Fluorophenol	98.04	20.32	20.7	20 - 110	
Nitrobenzene-d5	49.02	31.73	64.7	40 - 110	
Phenol-d6	98.04	12.29	12.5	0 - 110	
Terphenyl-d14	49.02	33.78	68.9	50 - 135	
2,4,6-Tribromophenol	98.04	58.53	59.7	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35703	Instrument:	MS-BNA3
		Calibration:	1355004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1L35703-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 12/22/11 12:09		
2-Fluorobiphenyl	50.00	96.0	80 - 120	9.204	9.204	0.0000	+/-0.500	
2-Fluorophenol	100.0	97.8	80 - 120	4.615	4.615	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	114	80 - 120	6.928	6.928	0.0000	+/-0.500	
Phenol-d6	100.0	102	80 - 120	5.78	5.78	0.0000	+/-0.500	
Terphenyl-d14	50.00	106	80 - 120	14.033	14.033	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	107	80 - 120	11.026	11.026	0.0000	+/-0.500	
Blank (1L15003-BLK1) ug/L				Lab File ID: L15003B1.D		Analyzed: 12/22/11 21:01		
2-Fluorobiphenyl	50.00	70.4	50 - 110	9.199	9.204	-0.0050	+/-0.500	
2-Fluorophenol	100.0	30.0	20 - 110	4.615	4.615	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	80.4	40 - 110	6.923	6.928	-0.0050	+/-0.500	
Phenol-d6	100.0	18.1	0 - 110	5.764	5.78	-0.0160	+/-0.500	
Terphenyl-d14	50.00	102	50 - 135	14.033	14.033	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	88.9	40 - 125	11.02	11.026	-0.0060	+/-0.500	
LCS (1L15003-BS1) ug/L				Lab File ID: L15003L1.D		Analyzed: 12/22/11 21:33		
2-Fluorobiphenyl	50.00	85.0	50 - 110	9.209	9.204	0.0050	+/-0.500	
2-Fluorophenol	100.0	40.5	20 - 110	4.62	4.615	0.0050	+/-0.500	
Nitrobenzene-d5	50.00	100	40 - 110	6.938	6.928	0.0100	+/-0.500	
Phenol-d6	100.0	24.2	0 - 110	5.779	5.78	-0.0010	+/-0.500	
Terphenyl-d14	50.00	105	50 - 135	14.038	14.033	0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	101	40 - 125	11.036	11.026	0.0100	+/-0.500	
LCS Dup (1L15003-BSD1) ug/L				Lab File ID: L15003L2.D		Analyzed: 12/22/11 22:04		
2-Fluorobiphenyl	50.00	78.2	50 - 110	9.21	9.204	0.0060	+/-0.500	
2-Fluorophenol	100.0	36.7	20 - 110	4.632	4.615	0.0170	+/-0.500	
Nitrobenzene-d5	50.00	91.3	40 - 110	6.94	6.928	0.0120	+/-0.500	
Phenol-d6	100.0	22.1	0 - 110	5.786	5.78	0.0060	+/-0.500	
Terphenyl-d14	50.00	97.0	50 - 135	14.045	14.033	0.0120	+/-0.500	
2,4,6-Tribromophenol	100.0	91.6	40 - 125	11.037	11.026	0.0110	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36207	Instrument:	MS-BNA3
		Calibration:	1355004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1L36207-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 12/23/11 10:03		
2-Fluorobiphenyl	50.00	94.2	80 - 120	9.191	9.191	0.0000	+/-0.500	
2-Fluorophenol	100.0	98.1	80 - 120	4.602	4.602	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	115	80 - 120	6.915	6.915	0.0000	+/-0.500	
Phenol-d6	100.0	103	80 - 120	5.767	5.767	0.0000	+/-0.500	
Terphenyl-d14	50.00	89.2	80 - 120	14.02	14.02	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	107	80 - 120	11.013	11.013	0.0000	+/-0.500	
GW0260 (1112084-03) ug/L				Lab File ID: 1208403.D		Analyzed: 12/23/11 11:06		
2-Fluorobiphenyl	47.17	80.0	50 - 110	9.189	9.191	-0.0020	+/-0.500	
2-Fluorophenol	94.34	30.2	20 - 110	4.6	4.602	-0.0020	+/-0.500	
Nitrobenzene-d5	47.17	89.9	40 - 110	6.913	6.915	-0.0020	+/-0.500	
Phenol-d6	94.34	19.0	0 - 110	5.754	5.767	-0.0130	+/-0.500	
Terphenyl-d14	47.17	90.7	50 - 135	14.029	14.02	0.0090	+/-0.500	
2,4,6-Tribromophenol	94.34	88.2	40 - 125	11.01	11.013	-0.0030	+/-0.500	
GW0255 (1112091-01) ug/L				Lab File ID: 1209101.D		Analyzed: 12/23/11 11:37		
2-Fluorobiphenyl	47.17	76.4	50 - 110	9.189	9.191	-0.0020	+/-0.500	
2-Fluorophenol	94.34	31.2	20 - 110	4.6	4.602	-0.0020	+/-0.500	
Nitrobenzene-d5	47.17	88.5	40 - 110	6.913	6.915	-0.0020	+/-0.500	
Phenol-d6	94.34	19.6	0 - 110	5.748	5.767	-0.0190	+/-0.500	
Terphenyl-d14	47.17	88.4	50 - 135	14.023	14.02	0.0030	+/-0.500	
2,4,6-Tribromophenol	94.34	73.8	40 - 125	11.01	11.013	-0.0030	+/-0.500	
GW0273 (1112091-03) ug/L				Lab File ID: 1209103.D		Analyzed: 12/23/11 12:09		
2-Fluorobiphenyl	47.17	78.2	50 - 110	9.177	9.191	-0.0140	+/-0.500	
2-Fluorophenol	94.34	33.6	20 - 110	4.588	4.602	-0.0140	+/-0.500	
Nitrobenzene-d5	47.17	89.5	40 - 110	6.901	6.915	-0.0140	+/-0.500	
Phenol-d6	94.34	19.2	0 - 110	5.737	5.767	-0.0300	+/-0.500	
Terphenyl-d14	47.17	94.9	50 - 135	14.012	14.02	-0.0080	+/-0.500	
2,4,6-Tribromophenol	94.34	85.7	40 - 125	10.999	11.013	-0.0140	+/-0.500	
GW0259 (1112084-01) ug/L				Lab File ID: 1208401D.D		Analyzed: 12/23/11 21:29		
2-Fluorobiphenyl	47.17	83.2	50 - 110	9.19	9.191	-0.0010	+/-0.500	
2-Fluorophenol	94.34	34.7	20 - 110	4.601	4.602	-0.0010	+/-0.500	
Nitrobenzene-d5	47.17	102	40 - 110	6.909	6.915	-0.0060	+/-0.500	
Phenol-d6	94.34	71.5	0 - 110	5.958	5.767	0.1910	+/-0.500	
Terphenyl-d14	47.17	102	50 - 135	14.014	14.02	-0.0060	+/-0.500	
2,4,6-Tribromophenol	94.34	88.7	40 - 125	11.017	11.013	0.0040	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36407	Instrument:	MS-BNA3
		Calibration:	1355004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1L36407-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 12/29/11 14:20		
2-Fluorobiphenyl	50.00	102	80 - 120	9.137	9.137	0.0000	+/-0.500	
2-Fluorophenol	100.0	102	80 - 120	4.559	4.559	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	117	80 - 120	6.866	6.866	0.0000	+/-0.500	
Phenol-d6	100.0	106	80 - 120	5.723	5.723	0.0000	+/-0.500	
Terphenyl-d14	50.00	119	80 - 120	13.955	13.955	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	113	80 - 120	10.964	10.964	0.0000	+/-0.500	
LCS (1L16001-BS1) ug/L				Lab File ID: L16001L1.D		Analyzed: 12/29/11 15:23		
2-Fluorobiphenyl	50.00	63.0	50 - 110	9.144	9.137	0.0070	+/-0.500	
2-Fluorophenol	100.0	24.2	20 - 110	4.56	4.559	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	71.6	40 - 110	6.873	6.866	0.0070	+/-0.500	
Phenol-d6	100.0	14.4	0 - 110	5.719	5.723	-0.0040	+/-0.500	
Terphenyl-d14	50.00	73.1	50 - 135	13.962	13.955	0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	62.8	40 - 125	10.971	10.964	0.0070	+/-0.500	
LCS Dup (1L16001-BSD1) ug/L				Lab File ID: L16001L2.D		Analyzed: 12/29/11 15:54		
2-Fluorobiphenyl	50.00	69.3	50 - 110	9.152	9.137	0.0150	+/-0.500	
2-Fluorophenol	100.0	28.1	20 - 110	4.569	4.559	0.0100	+/-0.500	
Nitrobenzene-d5	50.00	75.7	40 - 110	6.876	6.866	0.0100	+/-0.500	
Phenol-d6	100.0	16.5	0 - 110	5.728	5.723	0.0050	+/-0.500	
Terphenyl-d14	50.00	79.5	50 - 135	13.971	13.955	0.0160	+/-0.500	
2,4,6-Tribromophenol	100.0	70.6	40 - 125	10.974	10.964	0.0100	+/-0.500	
GW0320 (1112109-01) ug/L				Lab File ID: 1210901.D		Analyzed: 12/29/11 19:32		
2-Fluorobiphenyl	49.02	55.1	50 - 110	9.142	9.137	0.0050	+/-0.500	
2-Fluorophenol	98.04	21.8	20 - 110	4.564	4.559	0.0050	+/-0.500	
Nitrobenzene-d5	49.02	63.2	40 - 110	6.866	6.866	0.0000	+/-0.500	
Phenol-d6	98.04	13.3	0 - 110	5.718	5.723	-0.0050	+/-0.500	
Terphenyl-d14	49.02	60.9	50 - 135	13.966	13.955	0.0110	+/-0.500	
2,4,6-Tribromophenol	98.04	63.5	40 - 125	10.964	10.964	0.0000	+/-0.500	
GW0326 (1112109-03) ug/L				Lab File ID: 1210903.D		Analyzed: 12/29/11 20:03		
2-Fluorobiphenyl	49.02	55.1	50 - 110	9.142	9.137	0.0050	+/-0.500	
2-Fluorophenol	98.04	21.4	20 - 110	4.558	4.559	-0.0010	+/-0.500	
Nitrobenzene-d5	49.02	63.9	40 - 110	6.866	6.866	0.0000	+/-0.500	
Phenol-d6	98.04	13.4	0 - 110	5.707	5.723	-0.0160	+/-0.500	
Terphenyl-d14	49.02	56.2	50 - 135	13.966	13.955	0.0110	+/-0.500	
2,4,6-Tribromophenol	98.04	56.5	40 - 125	10.958	10.964	-0.0060	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36407	Instrument:	MS-BNA3
		Calibration:	1355004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0276 (1112117-05) ug/L				Lab File ID: 1211705.D		Analyzed: 12/29/11 22:07		
2-Fluorobiphenyl	49.02	64.9	50 - 110	9.143	9.137	0.0060	+/-0.500	
2-Fluorophenol	98.04	25.3	20 - 110	4.565	4.559	0.0060	+/-0.500	
Nitrobenzene-d5	49.02	73.1	40 - 110	6.872	6.866	0.0060	+/-0.500	
Phenol-d6	98.04	14.5	0 - 110	5.713	5.723	-0.0100	+/-0.500	
Terphenyl-d14	49.02	61.8	50 - 135	13.967	13.955	0.0120	+/-0.500	
2,4,6-Tribromophenol	98.04	71.0	40 - 125	10.964	10.964	0.0000	+/-0.500	
GW8034-RB (1112117-07) ug/L				Lab File ID: 1211707.D		Analyzed: 12/29/11 22:39		
2-Fluorobiphenyl	49.02	55.9	50 - 110	9.135	9.137	-0.0020	+/-0.500	
2-Fluorophenol	98.04	20.7	20 - 110	4.556	4.559	-0.0030	+/-0.500	
Nitrobenzene-d5	49.02	64.7	40 - 110	6.859	6.866	-0.0070	+/-0.500	
Phenol-d6	98.04	12.5	0 - 110	5.705	5.723	-0.0180	+/-0.500	
Terphenyl-d14	49.02	68.9	50 - 135	13.959	13.955	0.0040	+/-0.500	
2,4,6-Tribromophenol	98.04	59.7	40 - 125	10.956	10.964	-0.0080	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36501	Instrument:	MS-BNA3
		Calibration:	1355004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1L36501-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 12/30/11 14:44		
2-Fluorobiphenyl	50.00	101	80 - 120	9.13	9.13	0.0000	+/-0.500	
2-Fluorophenol	100.0	102	80 - 120	4.552	4.552	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	119	80 - 120	6.859	6.859	0.0000	+/-0.500	
Phenol-d6	100.0	106	80 - 120	5.722	5.722	0.0000	+/-0.500	
Terphenyl-d14	50.00	101	80 - 120	13.949	13.949	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	113	80 - 120	10.957	10.957	0.0000	+/-0.500	
Blank (1L16001-BLK1) ug/L				Lab File ID: L16001B1.D		Analyzed: 12/30/11 19:56		
2-Fluorobiphenyl	50.00	63.8	50 - 110	9.118	9.13	-0.0120	+/-0.500	
2-Fluorophenol	100.0	23.3	20 - 110	4.534	4.552	-0.0180	+/-0.500	
Nitrobenzene-d5	50.00	73.8	40 - 110	6.842	6.859	-0.0170	+/-0.500	
Phenol-d6	100.0	13.9	0 - 110	5.688	5.722	-0.0340	+/-0.500	
Terphenyl-d14	50.00	73.8	50 - 135	13.937	13.949	-0.0120	+/-0.500	
2,4,6-Tribromophenol	100.0	58.1	40 - 125	10.94	10.957	-0.0170	+/-0.500	
GW0334 (1112109-05) ug/L				Lab File ID: 1210905D.D		Analyzed: 12/30/11 23:33		
2-Fluorobiphenyl	49.02	70.4	50 - 110	9.124	9.13	-0.0060	+/-0.500	
2-Fluorophenol	98.04	28.8	20 - 110	4.583	4.552	0.0310	+/-0.500	
Nitrobenzene-d5	49.02	84.7	40 - 110	6.859	6.859	0.0000	+/-0.500	
Phenol-d6	98.04	102	0 - 110	5.796	5.722	0.0740	+/-0.500	
Terphenyl-d14	49.02	81.8	50 - 135	13.937	13.949	-0.0120	+/-0.500	
2,4,6-Tribromophenol	98.04	82.1	40 - 125	10.956	10.957	-0.0010	+/-0.500	
GW0264 (1112117-01) ug/L				Lab File ID: 1211701D.D		Analyzed: 12/31/11 00:04		
2-Fluorobiphenyl	50.00	66.0	50 - 110	9.115	9.13	-0.0150	+/-0.500	
2-Fluorophenol	100.0	25.5	20 - 110	4.579	4.552	0.0270	+/-0.500	
Nitrobenzene-d5	50.00	73.0	40 - 110	6.855	6.859	-0.0040	+/-0.500	
Phenol-d6	100.0	37.7	0 - 110	5.765	5.722	0.0430	+/-0.500	
Terphenyl-d14	50.00	74.2	50 - 135	13.922	13.949	-0.0270	+/-0.500	
2,4,6-Tribromophenol	100.0	82.2	40 - 125	10.942	10.957	-0.0150	+/-0.500	
GW0265 (1112117-03) ug/L				Lab File ID: 1211703D.D		Analyzed: 12/31/11 00:36		
2-Fluorobiphenyl	49.02	88.0	50 - 110	9.115	9.13	-0.0150	+/-0.500	
2-Fluorophenol	98.04	27.9	20 - 110	4.585	4.552	0.0330	+/-0.500	
Nitrobenzene-d5	49.02	106	40 - 110	6.855	6.859	-0.0040	+/-0.500	
Phenol-d6	98.04	57.6	0 - 110	5.765	5.722	0.0430	+/-0.500	
Terphenyl-d14	49.02	76.4	50 - 135	13.923	13.949	-0.0260	+/-0.500	
2,4,6-Tribromophenol	98.04	96.8	40 - 125	10.936	10.957	-0.0210	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00411	Instrument:	MS-BNA3
		Calibration:	1355004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A00411-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 12/31/11 10:45		
2-Fluorobiphenyl	50.00	99.1	80 - 120	9.105	9.105	0.0000	+/-0.500	
2-Fluorophenol	100.0	102	80 - 120	4.527	4.527	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	117	80 - 120	6.829	6.829	0.0000	+/-0.500	
Phenol-d6	100.0	107	80 - 120	5.697	5.697	0.0000	+/-0.500	
Terphenyl-d14	50.00	96.3	80 - 120	13.918	13.918	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	109	80 - 120	10.932	10.932	0.0000	+/-0.500	
GW0334 (1112109-05RE1) ug/L				Lab File ID: 1210905D.D		Analyzed: 12/31/11 16:33		
2-Fluorobiphenyl	49.02		50 - 110		9.105	-9.1050	+/-0.500	*
2-Fluorophenol	98.04		20 - 110		4.527	-4.5270	+/-0.500	*
Nitrobenzene-d5	49.02		40 - 110		6.829	-6.8290	+/-0.500	*
Phenol-d6	98.04		0 - 110		5.697	-5.6970	+/-0.500	*
Terphenyl-d14	49.02		50 - 135		13.918	-13.9180	+/-0.500	*
2,4,6-Tribromophenol	98.04		40 - 125		10.932	-10.9320	+/-0.500	*
GW0264 (1112117-01RE1) ug/L				Lab File ID: 1211701D.D		Analyzed: 12/31/11 17:05		
2-Fluorobiphenyl	50.00		50 - 110		9.105	-9.1050	+/-0.500	*
2-Fluorophenol	100.0		20 - 110		4.527	-4.5270	+/-0.500	*
Nitrobenzene-d5	50.00		40 - 110		6.829	-6.8290	+/-0.500	*
Phenol-d6	100.0		0 - 110		5.697	-5.6970	+/-0.500	*
Terphenyl-d14	50.00		50 - 135		13.918	-13.9180	+/-0.500	*
2,4,6-Tribromophenol	100.0		40 - 125		10.932	-10.9320	+/-0.500	*
GW0265 (1112117-03RE1) ug/L				Lab File ID: 1211703D.D		Analyzed: 12/31/11 17:36		
2-Fluorobiphenyl	49.02		50 - 110		9.105	-9.1050	+/-0.500	*
2-Fluorophenol	98.04		20 - 110		4.527	-4.5270	+/-0.500	*
Nitrobenzene-d5	49.02		40 - 110		6.829	-6.8290	+/-0.500	*
Phenol-d6	98.04		0 - 110		5.697	-5.6970	+/-0.500	*
Terphenyl-d14	49.02		50 - 135		13.918	-13.9180	+/-0.500	*
2,4,6-Tribromophenol	98.04		40 - 125		10.932	-10.9320	+/-0.500	*

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L15003	Laboratory ID:	1L15003-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	44.58	89.2	45 - 110
Acenaphthylene	50.00	42.70	85.4	50 - 105
Acetophenone	50.00	46.17	92.3	50 - 110
Anthracene	50.00	45.43	90.9	55 - 110
Atrazine	50.00	51.45	103	70 - 115
Benzaldehyde	50.00	49.47	98.9	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	46.80	93.6	55 - 110
Benzo(a)pyrene	50.00	46.00	92.0	55 - 110
Benzo(b)fluoranthene	50.00	49.08	98.2	45 - 120
Benzo(g,h,i)perylene	50.00	46.56	93.1	40 - 125
Benzoic acid	100.0	22.10	22.1	0 - 125
Benzo(k)fluoranthene	50.00	49.62	99.2	45 - 125
1,1-Biphenyl	50.00	44.26	88.5	50 - 110
4-Bromophenyl-phenylether	50.00	53.32	107	50 - 115
Butylbenzylphthalate	**50.00**	**64.54**	**129**	**45 - 115**
Caprolactam	**50.00**	**9.269**	**18.5**	**20 - 110**
Carbazole	50.00	48.90	97.8	50 - 115
4-Chloro-3-methylphenol	100.0	89.57	89.6	45 - 110
4-Chloroaniline	50.00	35.90	71.8	15 - 110
Bis(2-chloroethoxy)methane	50.00	51.49	103	45 - 105
Bis(2-chloroethyl)ether	50.00	46.49	93.0	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	48.21	96.4	25 - 130
2-Chloronaphthalene	50.00	44.82	89.6	50 - 105
2-Chlorophenol	100.0	71.79	71.8	35 - 105
4-Chlorophenyl phenyl ether	50.00	45.65	91.3	50 - 110
Chrysene	50.00	48.12	96.2	55 - 110
Dibenz(a,h)anthracene	50.00	47.60	95.2	40 - 125
Dibenzofuran	50.00	46.86	93.7	55 - 105
Di-n-butylphthalate	50.00	53.12	106	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L15003	Laboratory ID:	1L15003-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	51.67	103	20 - 110
2,4-Dichlorophenol	100.0	86.54	86.5	40 - 110
Diethylphthalate	50.00	52.74	105	40 - 120
2,4-Dimethylphenol	100.0	93.45	93.5	30 - 110
Dimethyl phthalate	50.00	53.85	108	25 - 125
4,6-Dinitro-2-methylphenol	**100.0**	**137.9**	**138**	**40 - 130**
2,4-Dinitrophenol	100.0	129.8	130	15 - 140
2,4-Dinitrotoluene	50.00	58.91	118	50 - 120
2,6-Dinitrotoluene	50.00	57.09	114	50 - 115
Di-n-octylphthalate	**50.00**	**68.37**	**137**	**35 - 135**
1,2-Diphenylhydrazine	50.00	48.85	97.7	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	60.29	121	40 - 125
Fluoranthene	50.00	42.44	84.9	55 - 115
Fluorene	50.00	44.04	88.1	50 - 110
Hexachlorobenzene	50.00	48.92	97.8	50 - 110
Hexachlorobutadiene	50.00	34.98	70.0	25 - 105
Hexachlorocyclopentadiene	50.00	49.95	99.9	10 - 110
Hexachloroethane	50.00	35.93	71.9	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	46.56	93.1	45 - 125
Isophorone	50.00	46.24	92.5	50 - 110
1-Methylnaphthalene	50.00	40.50	81.0	30 - 115
2-Methylnaphthalene	50.00	41.15	82.3	45 - 105
2-Methylphenol	100.0	64.80	64.8	40 - 110
3-Methylphenol/4-Methylphenol	100.0	60.94	60.9	30 - 110
Naphthalene	50.00	39.21	78.4	40 - 100
4-Nitroaniline	50.00	48.18	96.4	35 - 120
3-Nitroaniline	50.00	38.89	77.8	20 - 125
2-Nitroaniline	**50.00**	**58.63**	**117**	**50 - 115**
Nitrobenzene	50.00	54.12	108	30 - 110
4-Nitrophenol	100.0	34.49	34.5	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L15003	Laboratory ID:	1L15003-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	**100.0**	**138.0**	**138**	**40 - 115**
N-Nitrosodiphenylamine	50.00	40.87	81.7	50 - 110
N-Nitroso-di-n-propylamine	50.00	50.46	101	35 - 130
Pentachlorophenol	100.0	114.9	115	40 - 115
Phenanthrene	50.00	46.99	94.0	50 - 115
Phenol	100.0	27.58	27.6	0 - 115
Pyrene	50.00	54.96	110	50 - 130
2,4,6-Trichlorophenol	100.0	97.22	97.2	50 - 115
2,4,5-Trichlorophenol	100.0	101.3	101	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	39.55	79.1	12.0	30	45 - 110
Acenaphthylene	50.00	38.08	76.2	11.4	30	50 - 105
Acetophenone	50.00	39.60	79.2	15.3	30	50 - 110
Anthracene	50.00	40.04	80.1	12.6	30	55 - 110
Atrazine	50.00	44.55	89.1	14.4	30	70 - 115
Benzaldehyde	50.00	43.49	87.0	12.9	30	10 - 180
Benzidine	50.00	50.0 U	0		30	0 - 200
Benzo(a)anthracene	50.00	41.35	82.7	12.4	30	55 - 110
Benzo(a)pyrene	50.00	40.51	81.0	12.7	30	55 - 110
Benzo(b)fluoranthene	50.00	46.21	92.4	6.02	30	45 - 120
Benzo(g,h,i)perylene	50.00	39.97	79.9	15.2	30	40 - 125
Benzoic acid	100.0	21.13	21.1	4.47	30	0 - 125
Benzo(k)fluoranthene	50.00	45.04	90.1	9.68	30	45 - 125
1,1-Biphenyl	50.00	40.69	81.4	8.40	30	50 - 110
4-Bromophenyl-phenylether	50.00	48.43	96.9	9.60	30	50 - 115
Butylbenzylphthalate	50.00	56.39	113	13.5	30	45 - 115
Caprolactam	**50.00**	**8.034**	**16.1 ***	**14.3**	**30**	**20 - 110**
Carbazole	50.00	40.95	81.9	17.7	30	50 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L15003	Laboratory ID:	1L15003-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Chloro-3-methylphenol	100.0	76.88	76.9	15.3	30	45 - 110
4-Chloroaniline	50.00	30.37	60.7	16.7	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	44.65	89.3	14.2	30	45 - 105
Bis(2-chloroethyl)ether	50.00	40.34	80.7	14.2	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	41.08	82.2	16.0	30	25 - 130
2-Chloronaphthalene	50.00	40.42	80.8	10.3	30	50 - 105
2-Chlorophenol	100.0	63.51	63.5	12.3	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	39.76	79.5	13.8	30	50 - 110
Chrysene	50.00	42.52	85.0	12.4	30	55 - 110
Dibenz(a,h)anthracene	50.00	41.05	82.1	14.8	30	40 - 125
Dibenzofuran	50.00	40.46	80.9	14.6	30	55 - 105
Di-n-butylphthalate	50.00	44.43	88.9	17.8	30	55 - 115
3,3'-Dichlorobenzidine	50.00	43.15	86.3	18.0	30	20 - 110
2,4-Dichlorophenol	100.0	76.92	76.9	11.8	30	40 - 110
Diethylphthalate	50.00	44.84	89.7	16.2	30	40 - 120
2,4-Dimethylphenol	100.0	82.32	82.3	12.7	30	30 - 110
Dimethyl phthalate	50.00	47.74	95.5	12.0	30	25 - 125
4,6-Dinitro-2-methylphenol	100.0	121.5	122	12.6	30	40 - 130
2,4-Dinitrophenol	100.0	103.1	103	22.9	30	15 - 140
2,4-Dinitrotoluene	50.00	49.07	98.1	18.2	30	50 - 120
2,6-Dinitrotoluene	50.00	51.13	102	11.0	30	50 - 115
Di-n-octylphthalate	50.00	62.64	125	8.75	30	35 - 135
1,2-Diphenylhydrazine	50.00	43.33	86.7	12.0	30	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	51.52	103	15.7	30	40 - 125
Fluoranthene	50.00	34.73	69.5	20.0	30	55 - 115
Fluorene	50.00	37.60	75.2	15.8	30	50 - 110
Hexachlorobenzene	50.00	43.46	86.9	11.8	30	50 - 110
Hexachlorobutadiene	50.00	32.15	64.3	8.43	30	25 - 105
Hexachlorocyclopentadiene	50.00	40.88	81.8	20.0	30	10 - 110
Hexachloroethane	50.00	32.31	64.6	10.6	30	30 - 95

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L15003	Laboratory ID:	1L15003-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.
Indeno(1,2,3-cd)pyrene	50.00	40.33	80.7	14.3	30	45 - 125
Isophorone	50.00	40.70	81.4	12.7	30	50 - 110
1-Methylnaphthalene	50.00	34.86	69.7	15.0	30	30 - 115
2-Methylnaphthalene	50.00	35.61	71.2	14.5	30	45 - 105
2-Methylphenol	100.0	56.77	56.8	13.2	30	40 - 110
3-Methylphenol/4-Methylphenol	100.0	52.82	52.8	14.3	30	30 - 110
Naphthalene	50.00	34.74	69.5	12.1	30	40 - 100
4-Nitroaniline	50.00	39.03	78.1	21.0	30	35 - 120
3-Nitroaniline	50.00	30.92	61.8	22.8	30	20 - 125
2-Nitroaniline	50.00	51.69	103	12.6	30	50 - 115
Nitrobenzene	50.00	48.57	97.1	10.8	30	30 - 110
4-Nitrophenol	100.0	28.36	28.4	19.5	30	0 - 125
2-Nitrophenol	**100.0**	**124.4**	**124 ***	**10.4**	**30**	**40 - 115**
N-Nitrosodiphenylamine	50.00	38.84	77.7	5.11	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	43.04	86.1	15.9	30	35 - 130
Pentachlorophenol	100.0	96.60	96.6	17.3	30	40 - 115
Phenanthrene	50.00	41.38	82.8	12.7	30	50 - 115
Phenol	100.0	24.92	24.9	10.2	30	0 - 115
Pyrene	50.00	50.24	100	8.99	30	50 - 130
2,4,6-Trichlorophenol	100.0	89.86	89.9	7.87	30	50 - 115
2,4,5-Trichlorophenol	100.0	91.91	91.9	9.74	30	50 - 110

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L16001	Laboratory ID:	1L16001-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	33.43	66.9	45 - 110
Acenaphthylene	50.00	32.05	64.1	50 - 105
Acetophenone	50.00	34.17	68.3	50 - 110
Anthracene	50.00	33.85	67.7	55 - 110
Atrazine	50.00	36.82	73.6	70 - 115
Benzaldehyde	50.00	36.75	73.5	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	35.22	70.4	55 - 110
Benzo(a)pyrene	50.00	33.34	66.7	55 - 110
Benzo(b)fluoranthene	50.00	36.20	72.4	45 - 120
Benzo(g,h,i)perylene	50.00	36.29	72.6	40 - 125
Benzoic acid	100.0	50.0 U	0	0 - 125
Benzo(k)fluoranthene	50.00	35.01	70.0	45 - 125
1,1-Biphenyl	50.00	34.16	68.3	50 - 110
4-Bromophenyl-phenylether	50.00	38.70	77.4	50 - 115
Butylbenzylphthalate	50.00	46.52	93.0	45 - 115
Caprolactam	**50.00**	**5.471**	**10.9**	**20 - 110**
Carbazole	50.00	36.05	72.1	50 - 115
4-Chloro-3-methylphenol	100.0	53.64	53.6	45 - 110
4-Chloroaniline	50.00	23.36	46.7	15 - 110
Bis(2-chloroethoxy)methane	50.00	36.70	73.4	45 - 105
Bis(2-chloroethyl)ether	50.00	33.38	66.8	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	34.13	68.3	25 - 130
2-Chloronaphthalene	50.00	34.22	68.4	50 - 105
2-Chlorophenol	100.0	43.92	43.9	35 - 105
4-Chlorophenyl phenyl ether	50.00	35.63	71.3	50 - 110
Chrysene	50.00	35.45	70.9	55 - 110
Dibenz(a,h)anthracene	50.00	35.56	71.1	40 - 125
Dibenzofuran	50.00	35.08	70.2	55 - 105
Di-n-butylphthalate	50.00	40.63	81.3	55 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L16001	Laboratory ID:	1L16001-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	41.33	82.7	20 - 110
2,4-Dichlorophenol	100.0	54.03	54.0	40 - 110
Diethylphthalate	50.00	39.72	79.4	40 - 120
2,4-Dimethylphenol	100.0	56.10	56.1	30 - 110
Dimethyl phthalate	50.00	36.13	72.3	25 - 125
4,6-Dinitro-2-methylphenol	100.0	91.80	91.8	40 - 130
2,4-Dinitrophenol	100.0	72.59	72.6	15 - 140
2,4-Dinitrotoluene	50.00	43.34	86.7	50 - 120
2,6-Dinitrotoluene	50.00	43.81	87.6	50 - 115
Di-n-octylphthalate	50.00	45.73	91.5	35 - 135
1,2-Diphenylhydrazine	50.00	32.56	65.1	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	43.76	87.5	40 - 125
Fluoranthene	50.00	32.93	65.9	55 - 115
Fluorene	50.00	33.54	67.1	50 - 110
Hexachlorobenzene	50.00	36.76	73.5	50 - 110
Hexachlorobutadiene	50.00	27.28	54.6	25 - 105
Hexachlorocyclopentadiene	50.00	36.78	73.6	10 - 110
Hexachloroethane	50.00	27.35	54.7	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	37.24	74.5	45 - 125
Isophorone	50.00	33.05	66.1	50 - 110
1-Methylnaphthalene	50.00	30.55	61.1	30 - 115
2-Methylnaphthalene	50.00	31.79	63.6	45 - 105
2-Methylphenol	**100.0**	**37.90**	**37.9**	**40 - 110**
3-Methylphenol/4-Methylphenol	100.0	35.78	35.8	30 - 110
Naphthalene	50.00	29.64	59.3	40 - 100
4-Nitroaniline	50.00	33.41	66.8	35 - 120
3-Nitroaniline	50.00	27.41	54.8	20 - 125
2-Nitroaniline	50.00	40.23	80.5	50 - 115
Nitrobenzene	50.00	38.33	76.7	30 - 110
4-Nitrophenol	100.0	18.87	18.9	0 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L16001	Laboratory ID:	1L16001-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
2-Nitrophenol	100.0	89.57	89.6	40 - 115
N-Nitrosodiphenylamine	50.00	30.30	60.6	50 - 110
N-Nitroso-di-n-propylamine	50.00	36.62	73.2	35 - 130
Pentachlorophenol	100.0	78.60	78.6	40 - 115
Phenanthrene	50.00	34.78	69.6	50 - 115
Phenol	100.0	16.27	16.3	0 - 115
Pyrene	50.00	38.15	76.3	50 - 130
2,4,6-Trichlorophenol	100.0	63.43	63.4	50 - 115
2,4,5-Trichlorophenol	100.0	63.95	64.0	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	50.00	35.23	70.5	5.23	30	45 - 110
Acenaphthylene	50.00	33.64	67.3	4.84	30	50 - 105
Acetophenone	50.00	34.92	69.8	2.18	30	50 - 110
Anthracene	50.00	36.24	72.5	6.81	30	55 - 110
Atrazine	50.00	38.98	78.0	5.69	30	70 - 115
Benzaldehyde	50.00	38.58	77.2	4.85	30	10 - 180
Benzidine	50.00	50.0 U	0		30	0 - 200
Benzo(a)anthracene	50.00	37.25	74.5	5.62	30	55 - 110
Benzo(a)pyrene	50.00	35.91	71.8	7.41	30	55 - 110
Benzo(b)fluoranthene	50.00	37.67	75.3	3.98	30	45 - 120
Benzo(g,h,i)perylene	50.00	41.74	83.5	14.0	30	40 - 125
Benzoic acid	100.0	15.22	15.2		30	0 - 125
Benzo(k)fluoranthene	50.00	38.84	77.7	10.4	30	45 - 125
1,1-Biphenyl	50.00	37.21	74.4	8.56	30	50 - 110
4-Bromophenyl-phenylether	50.00	43.37	86.7	11.4	30	50 - 115
Butylbenzylphthalate	50.00	49.26	98.5	5.72	30	45 - 115
Caprolactam	**50.00**	**5.666**	**11.3 ***	**3.50**	**30**	**20 - 110**
Carbazole	50.00	36.99	74.0	2.58	30	50 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L16001	Laboratory ID:	1L16001-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Chloro-3-methylphenol	100.0	57.43	57.4	6.83	30	45 - 110
4-Chloroaniline	50.00	24.27	48.5	3.83	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	38.65	77.3	5.17	30	45 - 105
Bis(2-chloroethyl)ether	50.00	35.96	71.9	7.43	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	35.21	70.4	3.12	30	25 - 130
2-Chloronaphthalene	50.00	37.31	74.6	8.65	30	50 - 105
2-Chlorophenol	100.0	50.05	50.1	13.1	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	37.40	74.8	4.84	30	50 - 110
Chrysene	50.00	37.61	75.2	5.92	30	55 - 110
Dibenz(a,h)anthracene	50.00	39.20	78.4	9.74	30	40 - 125
Dibenzofuran	50.00	36.93	73.9	5.13	30	55 - 105
Di-n-butylphthalate	50.00	41.76	83.5	2.76	30	55 - 115
3,3'-Dichlorobenzidine	50.00	40.87	81.7	1.11	30	20 - 110
2,4-Dichlorophenol	100.0	60.20	60.2	10.8	30	40 - 110
Diethylphthalate	50.00	39.30	78.6	1.06	30	40 - 120
2,4-Dimethylphenol	100.0	63.12	63.1	11.8	30	30 - 110
Dimethyl phthalate	50.00	39.40	78.8	8.66	30	25 - 125
4,6-Dinitro-2-methylphenol	100.0	98.42	98.4	6.97	30	40 - 130
2,4-Dinitrophenol	100.0	74.17	74.2	2.15	30	15 - 140
2,4-Dinitrotoluene	50.00	42.03	84.1	3.08	30	50 - 120
2,6-Dinitrotoluene	50.00	43.15	86.3	1.52	30	50 - 115
Di-n-octylphthalate	50.00	48.14	96.3	5.12	30	35 - 135
1,2-Diphenylhydrazine	50.00	36.39	72.8	11.1	30	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	45.30	90.6	3.44	30	40 - 125
Fluoranthene	50.00	33.32	66.6	1.17	30	55 - 115
Fluorene	50.00	34.15	68.3	1.79	30	50 - 110
Hexachlorobenzene	50.00	40.34	80.7	9.29	30	50 - 110
Hexachlorobutadiene	50.00	29.72	59.4	8.55	30	25 - 105
Hexachlorocyclopentadiene	50.00	38.07	76.1	3.45	30	10 - 110
Hexachloroethane	50.00	29.72	59.4	8.30	30	30 - 95

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L16001	Laboratory ID:	1L16001-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.
Indeno(1,2,3-cd)pyrene	50.00	39.57	79.1	6.06	30	45 - 125
Isophorone	50.00	34.17	68.3	3.32	30	50 - 110
1-Methylnaphthalene	50.00	31.49	63.0	3.02	30	30 - 115
2-Methylnaphthalene	50.00	32.27	64.5	1.48	30	45 - 105
2-Methylphenol	100.0	42.83	42.8	12.2	30	40 - 110
3-Methylphenol/4-Methylphenol	100.0	39.75	39.8	10.5	30	30 - 110
Naphthalene	50.00	31.71	63.4	6.75	30	40 - 100
4-Nitroaniline	50.00	31.30	62.6	6.52	30	35 - 120
3-Nitroaniline	50.00	26.99	54.0	1.56	30	20 - 125
2-Nitroaniline	50.00	41.78	83.6	3.76	30	50 - 115
Nitrobenzene	50.00	41.96	83.9	9.05	30	30 - 110
4-Nitrophenol	100.0	19.08	19.1	1.14	30	0 - 125
2-Nitrophenol	100.0	101.0	101	12.0	30	40 - 115
N-Nitrosodiphenylamine	50.00	33.93	67.9	11.3	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	36.88	73.8	0.711	30	35 - 130
Pentachlorophenol	100.0	83.49	83.5	6.03	30	40 - 115
Phenanthrene	50.00	37.57	75.1	7.70	30	50 - 115
Phenol	100.0	18.88	18.9	14.9	30	0 - 115
Pyrene	50.00	42.09	84.2	9.84	30	50 - 130
2,4,6-Trichlorophenol	100.0	72.60	72.6	13.5	30	50 - 115
2,4,5-Trichlorophenol	100.0	71.92	71.9	11.7	30	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L15003 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0259	1112084-01	12/15/11 09:30	1,060.00	1.00
GW0260	1112084-03	12/15/11 09:30	1,060.00	1.00
GW0255	1112091-01	12/15/11 09:30	1,060.00	1.00
GW0273	1112091-03	12/15/11 09:30	1,060.00	1.00
Blank	1L15003-BLK1	12/15/11 09:30	1,000.00	1.00
LCS	1L15003-BS1	12/15/11 09:30	1,000.00	1.00
LCS Dup	1L15003-BSD1	12/15/11 09:30	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L16001 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0320	1112109-01	12/19/11 09:30	1,020.00	1.00
GW0326	1112109-03	12/19/11 09:30	1,020.00	1.00
GW0334	1112109-05	12/19/11 09:30	1,020.00	1.00
GW0334	1112109-05RE1	12/19/11 09:30	1,020.00	1.00
GW0264	1112117-01	12/19/11 10:00	1,000.00	1.00
GW0264	1112117-01RE1	12/19/11 10:00	1,000.00	1.00
GW0265	1112117-03	12/19/11 10:00	1,020.00	1.00
GW0265	1112117-03RE1	12/19/11 10:00	1,020.00	1.00
GW0276	1112117-05	12/19/11 10:00	1,020.00	1.00
GW8034-RB	1112117-07	12/19/11 10:00	1,020.00	1.00
Blank	1L16001-BLK1	12/19/11 09:30	1,000.00	1.00
LCS	1L16001-BS1	12/19/11 09:30	1,000.00	1.00
LCS Dup	1L16001-BSD1	12/19/11 09:30	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	12/16/11
Instrument ID:	MS-BNA3	Injection Time:	15:02
Sequence:	1L35407	Lab Sample ID:	1L35407-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	45.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	55	PASS
70	Less than 2% of 69	0.568	PASS
127	40 - 60% of 198	55.9	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.72	PASS
275	10 - 30% of 198	19.6	PASS
365	1 - 200% of 198	1.77	PASS
441	0.001 - 100% of 443	66.9	PASS
442	40 - 200% of 198	52.9	PASS
443	17 - 23% of 442	21.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	12/22/11
Instrument ID:	MS-BNA3	Injection Time:	11:44
Sequence:	1L35703	Lab Sample ID:	1L35703-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	46.8	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	56.9	PASS
70	Less than 2% of 69	0.378	PASS
127	40 - 60% of 198	53.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.02	PASS
275	10 - 30% of 198	21.5	PASS
365	1 - 200% of 198	1.67	PASS
441	0.001 - 100% of 443	81.1	PASS
442	40 - 200% of 198	56	PASS
443	17 - 23% of 442	20.1	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	12/23/11
Instrument ID:	MS-BNA3	Injection Time:	09:39
Sequence:	1L36207	Lab Sample ID:	1L36207-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	44.4	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	54.2	PASS
70	Less than 2% of 69	0.606	PASS
127	40 - 60% of 198	56	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.19	PASS
275	10 - 30% of 198	20.2	PASS
365	1 - 200% of 198	1.74	PASS
441	0.001 - 100% of 443	60.3	PASS
442	40 - 200% of 198	60.4	PASS
443	17 - 23% of 442	22.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	12/29/11
Instrument ID:	MS-BNA3	Injection Time:	13:55
Sequence:	1L36407	Lab Sample ID:	1L36407-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	44.7	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	50.5	PASS
70	Less than 2% of 69	0.653	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	6.1	PASS
275	10 - 30% of 198	21.8	PASS
365	1 - 200% of 198	2.14	PASS
441	0.001 - 100% of 443	67.3	PASS
442	40 - 200% of 198	60.8	PASS
443	17 - 23% of 442	20.2	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	12/30/11
Instrument ID:	MS-BNA3	Injection Time:	14:20
Sequence:	1L36501	Lab Sample ID:	1L36501-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	45.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	53.1	PASS
70	Less than 2% of 69	0.329	PASS
127	40 - 60% of 198	52.9	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.4	PASS
275	10 - 30% of 198	19.8	PASS
365	1 - 200% of 198	1.3	PASS
441	0.001 - 100% of 443	68.1	PASS
442	40 - 200% of 198	55.3	PASS
443	17 - 23% of 442	20.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	12/31/11
Instrument ID:	MS-BNA3	Injection Time:	10:20
Sequence:	2A00411	Lab Sample ID:	2A00411-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	33.4	PASS
68	Less than 2% of 69	1.79	PASS
69	Less than 200% of 198	39.7	PASS
70	Less than 2% of 69	0.63	PASS
127	40 - 60% of 198	47	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.73	PASS
275	10 - 30% of 198	25.4	PASS
365	1 - 200% of 198	2.26	PASS
441	0.001 - 100% of 443	75.4	PASS
442	40 - 200% of 198	97.7	PASS
443	17 - 23% of 442	18.7	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35407	Instrument:	MS-BNA3
Calibration:	1355004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1L35407-TUN1	SEQ-TUN1.D	12/16/11 15:02
Cal Standard	1L35407-CAL1	SEQ-CAL1.D	12/16/11 15:27
Cal Standard	1L35407-CAL2	SEQ-CAL2.D	12/16/11 15:58
Cal Standard	1L35407-CAL3	SEQ-CAL3.D	12/16/11 16:29
Cal Standard	1L35407-CAL4	SEQ-CAL4.D	12/16/11 17:00
Cal Standard	1L35407-CAL5	SEQ-CAL5.D	12/16/11 17:31
Cal Standard	1L35407-CAL6	SEQ-CAL6.D	12/16/11 18:02
Cal Standard	1L35407-CAL7	SEQ-CAL7.D	12/16/11 18:33
Cal Standard	1L35407-CAL8	SEQ-CAL8.D	12/16/11 19:04
Cal Standard	1L35407-CAL9	SEQ-CAL9.D	12/16/11 19:35
Cal Standard	1L35407-CALA	SEQ-CALA.D	12/16/11 20:07
Cal Standard	1L35407-CALB	SEQ-CALB.D	12/16/11 20:37
Cal Standard	1L35407-CALC	SEQ-CALC.D	12/16/11 21:09
Cal Standard	1L35407-CALD	SEQ-CALD.D	12/16/11 21:40
Cal Standard	1L35407-CALE	SEQ-CALE.D	12/16/11 22:10
Cal Standard	1L35407-CALF	SEQ-CALF.D	12/16/11 22:42
Cal Standard	1L35407-CALG	SEQ-CALG.D	12/16/11 23:13
Initial Cal Check	1L35407-ICV1	SEQ-ICV1.D	12/16/11 23:44
Initial Cal Check	1L35407-ICV2	SEQ-ICV2.D	12/17/11 00:16
Initial Cal Check	1L35407-ICV3	SEQ-ICV3.D	12/17/11 00:47
Initial Cal Check	1L35407-ICV5	SEQ-ICV5.D	12/17/11 01:49

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35703	Instrument:	MS-BNA3
Calibration:	1355004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1L35703-TUN1	SEQ-TUN1.D	12/22/11 11:44
Calibration Check	1L35703-CCV1	SEQ-CCV1.D	12/22/11 12:09
Blank	1L15003-BLK1	L15003B1.D	12/22/11 21:01
LCS	1L15003-BS1	L15003L1.D	12/22/11 21:33
LCS Dup	1L15003-BSD1	L15003L2.D	12/22/11 22:04

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36207	Instrument:	MS-BNA3
Calibration:	1355004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1L36207-TUN1	SEQ-TUN1.D	12/23/11 09:39
Calibration Check	1L36207-CCV1	SEQ-CCV1.D	12/23/11 10:03
GW0260	1112084-03	1208403.D	12/23/11 11:06
GW0255	1112091-01	1209101.D	12/23/11 11:37
GW0273	1112091-03	1209103.D	12/23/11 12:09
GW0259	1112084-01	1208401D.D	12/23/11 21:29

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36407	Instrument:	MS-BNA3
Calibration:	1355004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1L36407-TUN1	SEQ-TUN1.D	12/29/11 13:55
Calibration Check	1L36407-CCV1	SEQ-CCV1.D	12/29/11 14:20
LCS	1L16001-BS1	L16001L1.D	12/29/11 15:23
LCS Dup	1L16001-BSD1	L16001L2.D	12/29/11 15:54
GW0320	1112109-01	1210901.D	12/29/11 19:32
GW0326	1112109-03	1210903.D	12/29/11 20:03
GW0276	1112117-05	1211705.D	12/29/11 22:07
GW8034-RB	1112117-07	1211707.D	12/29/11 22:39

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36501	Instrument:	MS-BNA3
Calibration:	1355004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1L36501-TUN1	SEQ-TUN1.D	12/30/11 14:20
Calibration Check	1L36501-CCV1	SEQ-CCV1.D	12/30/11 14:44
Blank	1L16001-BLK1	L16001B1.D	12/30/11 19:56
GW0334	1112109-05	1210905D.D	12/30/11 23:33
GW0264	1112117-01	1211701D.D	12/31/11 00:04
GW0265	1112117-03	1211703D.D	12/31/11 00:36

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00411	Instrument:	MS-BNA3
Calibration:	1355004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2A00411-TUN1	SEQ-TUN1.D	12/31/11 10:20
Calibration Check	2A00411-CCV1	SEQ-CCV1.D	12/31/11 10:45
GW0334	1112109-05RE1	1210905D.D	12/31/11 16:33
GW0264	1112117-01RE1	1211701D.D	12/31/11 17:05
GW0265	1112117-03RE1	1211703D.D	12/31/11 17:36

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35703	Instrument:	MS-BNA3
		Calibration:	1355004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1L35703-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 12/22/11 12:09			
1,4-Dichlorobenzene-d4	550998	6.17	505859	6.192	109	50 - 200	-0.0220	+/-0.50	
Naphthalene-d8	1976730	7.815	1834527	7.837	108	50 - 200	-0.0220	+/-0.50	
Acenaphthene-d10	1111685	10.037	1027766	10.06	108	50 - 200	-0.0230	+/-0.50	
Phenanthrene-d10	1805974	11.848	1687365	11.865	107	50 - 200	-0.0170	+/-0.50	
Chrysene-d12	1465913	15.855	1537665	15.893	95	50 - 200	-0.0380	+/-0.50	
Perylene-d12	991508	18.558	1189188	18.602	83	50 - 200	-0.0440	+/-0.50	
Blank (1L15003-BLK1)			Lab File ID: L15003B1.D			Analyzed: 12/22/11 21:01			
1,4-Dichlorobenzene-d4	597787	6.17	550998	6.17	108	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2076278	7.815	1976730	7.815	105	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1157802	10.037	1111685	10.037	104	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1620449	11.843	1805974	11.848	90	50 - 200	-0.0050	+/-0.50	
Chrysene-d12	1076528	15.85	1465913	15.855	73	50 - 200	-0.0050	+/-0.50	
Perylene-d12	717628	18.558	991508	18.558	72	50 - 200	0.0000	+/-0.50	
LCS (1L15003-BS1)			Lab File ID: L15003L1.D			Analyzed: 12/22/11 21:33			
1,4-Dichlorobenzene-d4	727491	6.174	550998	6.17	132	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2590053	7.82	1976730	7.815	131	50 - 200	0.0050	+/-0.50	
Acenaphthene-d10	1457845	10.042	1111685	10.037	131	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	2227597	11.853	1805974	11.848	123	50 - 200	0.0050	+/-0.50	
Chrysene-d12	1651973	15.865	1465913	15.855	113	50 - 200	0.0100	+/-0.50	
Perylene-d12	1143605	18.568	991508	18.558	115	50 - 200	0.0100	+/-0.50	
LCS Dup (1L15003-BSD1)			Lab File ID: L15003L2.D			Analyzed: 12/22/11 22:04			
1,4-Dichlorobenzene-d4	696678	6.181	550998	6.17	126	50 - 200	0.0110	+/-0.50	
Naphthalene-d8	2415240	7.827	1976730	7.815	122	50 - 200	0.0120	+/-0.50	
Acenaphthene-d10	1281025	10.049	1111685	10.037	115	50 - 200	0.0120	+/-0.50	
Phenanthrene-d10	1747965	11.855	1805974	11.848	97	50 - 200	0.0070	+/-0.50	
Chrysene-d12	1142878	15.867	1465913	15.855	78	50 - 200	0.0120	+/-0.50	
Perylene-d12	729371	18.57	991508	18.558	74	50 - 200	0.0120	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36207	Instrument:	MS-BNA3
		Calibration:	1355004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1L36207-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 12/23/11 10:03			
1,4-Dichlorobenzene-d4	561708	6.157	505859	6.192	111	50 - 200	-0.0350	+/-0.50	
Naphthalene-d8	1984910	7.802	1834527	7.837	108	50 - 200	-0.0350	+/-0.50	
Acenaphthene-d10	1163059	10.03	1027766	10.06	113	50 - 200	-0.0300	+/-0.50	
Phenanthrene-d10	1901612	11.835	1687365	11.865	113	50 - 200	-0.0300	+/-0.50	
Chrysene-d12	1909720	15.847	1537665	15.893	124	50 - 200	-0.0460	+/-0.50	
Perylene-d12	1698252	18.55	1189188	18.602	143	50 - 200	-0.0520	+/-0.50	
GW0260 (1112084-03)			Lab File ID: 1208403.D			Analyzed: 12/23/11 11:06			
1,4-Dichlorobenzene-d4	732300	6.16	561708	6.157	130	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	2618574	7.8	1984910	7.802	132	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1499544	10.027	1163059	10.03	129	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	2363659	11.833	1901612	11.835	124	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	2365119	15.845	1909720	15.847	124	50 - 200	-0.0020	+/-0.50	
Perylene-d12	1937139	18.554	1698252	18.55	114	50 - 200	0.0040	+/-0.50	
GW0255 (1112091-01)			Lab File ID: 1209101.D			Analyzed: 12/23/11 11:37			
1,4-Dichlorobenzene-d4	598748	6.16	561708	6.157	107	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	2095606	7.8	1984910	7.802	106	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1178649	10.027	1163059	10.03	101	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1770812	11.828	1901612	11.835	93	50 - 200	-0.0070	+/-0.50	
Chrysene-d12	1665794	15.834	1909720	15.847	87	50 - 200	-0.0130	+/-0.50	
Perylene-d12	1554783	18.548	1698252	18.55	92	50 - 200	-0.0020	+/-0.50	
GW0273 (1112091-03)			Lab File ID: 1209103.D			Analyzed: 12/23/11 12:09			
1,4-Dichlorobenzene-d4	561742	6.148	561708	6.157	100	50 - 200	-0.0090	+/-0.50	
Naphthalene-d8	1971096	7.788	1984910	7.802	99	50 - 200	-0.0140	+/-0.50	
Acenaphthene-d10	1117839	10.016	1163059	10.03	96	50 - 200	-0.0140	+/-0.50	
Phenanthrene-d10	1714301	11.816	1901612	11.835	90	50 - 200	-0.0190	+/-0.50	
Chrysene-d12	1572371	15.817	1909720	15.847	82	50 - 200	-0.0300	+/-0.50	
Perylene-d12	1096196	18.526	1698252	18.55	65	50 - 200	-0.0240	+/-0.50	
GW0259 (1112084-01)			Lab File ID: 1208401D.D			Analyzed: 12/23/11 21:29			
1,4-Dichlorobenzene-d4	610227	6.155	561708	6.157	109	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	2053115	7.806	1984910	7.802	103	50 - 200	0.0040	+/-0.50	
Acenaphthene-d10	1201616	10.034	1163059	10.03	103	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	1869564	11.834	1901612	11.835	98	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	1361520	15.835	1909720	15.847	71	50 - 200	-0.0120	+/-0.50	
Perylene-d12	702732	18.538	1698252	18.55	41	50 - 200	-0.0120	+/-0.50	*

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36407	Instrument:	MS-BNA3
		Calibration:	1355004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1L36407-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 12/29/11 14:20			
1,4-Dichlorobenzene-d4	555056	6.108	505859	6.192	110	50 - 200	-0.0840	+/-0.50	
Naphthalene-d8	1958541	7.753	1834527	7.837	107	50 - 200	-0.0840	+/-0.50	
Acenaphthene-d10	1085595	9.976	1027766	10.06	106	50 - 200	-0.0840	+/-0.50	
Phenanthrene-d10	1713134	11.781	1687365	11.865	102	50 - 200	-0.0840	+/-0.50	
Chrysene-d12	1270332	15.766	1537665	15.893	83	50 - 200	-0.1270	+/-0.50	
Perylene-d12	776959	18.459	1189188	18.602	65	50 - 200	-0.1430	+/-0.50	
LCS (1L16001-BS1)			Lab File ID: L16001L1.D			Analyzed: 12/29/11 15:23			
1,4-Dichlorobenzene-d4	754750	6.115	555056	6.108	136	50 - 200	0.0070	+/-0.50	
Naphthalene-d8	2760272	7.76	1958541	7.753	141	50 - 200	0.0070	+/-0.50	
Acenaphthene-d10	1576828	9.982	1085595	9.976	145	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10	2428988	11.793	1713134	11.781	142	50 - 200	0.0120	+/-0.50	
Chrysene-d12	2037454	15.784	1270332	15.766	160	50 - 200	0.0180	+/-0.50	
Perylene-d12	1572418	18.476	776959	18.459	202	50 - 200	0.0170	+/-0.50	*
LCS Dup (1L16001-BSD1)			Lab File ID: L16001L2.D			Analyzed: 12/29/11 15:54			
1,4-Dichlorobenzene-d4	631494	6.123	555056	6.108	114	50 - 200	0.0150	+/-0.50	
Naphthalene-d8	2200330	7.763	1958541	7.753	112	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	1152302	9.986	1085595	9.976	106	50 - 200	0.0100	+/-0.50	
Phenanthrene-d10	1561851	11.791	1713134	11.781	91	50 - 200	0.0100	+/-0.50	
Chrysene-d12	1174777	15.782	1270332	15.766	92	50 - 200	0.0160	+/-0.50	
Perylene-d12	895890	18.48	776959	18.459	115	50 - 200	0.0210	+/-0.50	
GW0320 (1112109-01)			Lab File ID: 1210901.D			Analyzed: 12/29/11 19:32			
1,4-Dichlorobenzene-d4	353663	6.113	555056	6.108	64	50 - 200	0.0050	+/-0.50	
Naphthalene-d8	1293538	7.758	1958541	7.753	66	50 - 200	0.0050	+/-0.50	
Acenaphthene-d10	814407	9.981	1085595	9.976	75	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	1464563	11.786	1713134	11.781	85	50 - 200	0.0050	+/-0.50	
Chrysene-d12	1688172	15.772	1270332	15.766	133	50 - 200	0.0060	+/-0.50	
Perylene-d12	1364089	18.48	776959	18.459	176	50 - 200	0.0210	+/-0.50	
GW0326 (1112109-03)			Lab File ID: 1210903.D			Analyzed: 12/29/11 20:03			
1,4-Dichlorobenzene-d4	476827	6.113	555056	6.108	86	50 - 200	0.0050	+/-0.50	
Naphthalene-d8	1636623	7.758	1958541	7.753	84	50 - 200	0.0050	+/-0.50	
Acenaphthene-d10	901775	9.981	1085595	9.976	83	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	1325064	11.781	1713134	11.781	77	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1269160	15.771	1270332	15.766	100	50 - 200	0.0050	+/-0.50	
Perylene-d12	1095166	18.475	776959	18.459	141	50 - 200	0.0160	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36407	Instrument:	MS-BNA3
		Calibration:	1355004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
GW0276 (1112117-05)			Lab File ID: 1211705.D			Analyzed: 12/29/11 22:07			
1,4-Dichlorobenzene-d4	675749	6.114	555056	6.108	122	50 - 200	0.0060	+/-0.50	
Naphthalene-d8	2417556	7.759	1958541	7.753	123	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10	1411880	9.981	1085595	9.976	130	50 - 200	0.0050	+/-0.50	
Phenanthrene-d10	2204391	11.787	1713134	11.781	129	50 - 200	0.0060	+/-0.50	
Chrysene-d12	2109322	15.778	1270332	15.766	166	50 - 200	0.0120	+/-0.50	
Perylene-d12	1457834	18.481	776959	18.459	188	50 - 200	0.0220	+/-0.50	
GW8034-RB (1112117-07)			Lab File ID: 1211707.D			Analyzed: 12/29/11 22:39			
1,4-Dichlorobenzene-d4	662506	6.106	555056	6.108	119	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	2335895	7.751	1958541	7.753	119	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1316253	9.973	1085595	9.976	121	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	2012851	11.779	1713134	11.781	117	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	1612057	15.764	1270332	15.766	127	50 - 200	-0.0020	+/-0.50	
Perylene-d12	1067651	18.462	776959	18.459	137	50 - 200	0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36501	Instrument:	MS-BNA3
		Calibration:	1355004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1L36501-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 12/30/11 14:44			
1,4-Dichlorobenzene-d4	596061	6.096	505859	6.192	118	50 - 200	-0.0960	+/-0.50	
Naphthalene-d8	2055051	7.741	1834527	7.837	112	50 - 200	-0.0960	+/-0.50	
Acenaphthene-d10	1135333	9.969	1027766	10.06	110	50 - 200	-0.0910	+/-0.50	
Phenanthrene-d10	1715192	11.774	1687365	11.865	102	50 - 200	-0.0910	+/-0.50	
Chrysene-d12	1544218	15.759	1537665	15.893	100	50 - 200	-0.1340	+/-0.50	
Perylene-d12	1113886	18.452	1189188	18.602	94	50 - 200	-0.1500	+/-0.50	
Blank (1L16001-BLK1)			Lab File ID: L16001B1.D			Analyzed: 12/30/11 19:56			
1,4-Dichlorobenzene-d4	653109	6.089	596061	6.096	110	50 - 200	-0.0070	+/-0.50	
Naphthalene-d8	2333758	7.729	2055051	7.741	114	50 - 200	-0.0120	+/-0.50	
Acenaphthene-d10	1356597	9.957	1135333	9.969	119	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10	2025047	11.762	1715192	11.774	118	50 - 200	-0.0120	+/-0.50	
Chrysene-d12	1851679	15.737	1544218	15.759	120	50 - 200	-0.0220	+/-0.50	
Perylene-d12	1549959	18.44	1113886	18.452	139	50 - 200	-0.0120	+/-0.50	
GW0334 (1112109-05)			Lab File ID: 1210905D.D			Analyzed: 12/30/11 23:33			
1,4-Dichlorobenzene-d4	614069	6.095	596061	6.096	103	50 - 200	-0.0010	+/-0.50	
Naphthalene-d8	2265934	7.751	2055051	7.741	110	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	1390428	9.968	1135333	9.969	122	50 - 200	-0.0010	+/-0.50	
Phenanthrene-d10	2080089	11.774	1715192	11.774	121	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1804251	15.748	1544218	15.759	117	50 - 200	-0.0110	+/-0.50	
Perylene-d12	1347216	18.446	1113886	18.452	121	50 - 200	-0.0060	+/-0.50	
GW0264 (1112117-01)			Lab File ID: 1211701D.D			Analyzed: 12/31/11 00:04			
1,4-Dichlorobenzene-d4	578289	6.091	596061	6.096	97	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	2083233	7.742	2055051	7.741	101	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1210184	9.959	1135333	9.969	107	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1729584	11.759	1715192	11.774	101	50 - 200	-0.0150	+/-0.50	
Chrysene-d12	1399485	15.728	1544218	15.759	91	50 - 200	-0.0310	+/-0.50	
Perylene-d12	1011804	18.426	1113886	18.452	91	50 - 200	-0.0260	+/-0.50	
GW0265 (1112117-03)			Lab File ID: 1211703D.D			Analyzed: 12/31/11 00:36			
1,4-Dichlorobenzene-d4	494395	6.091	596061	6.096	83	50 - 200	-0.0050	+/-0.50	
Naphthalene-d8	1699752	7.742	2055051	7.741	83	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	879317	9.959	1135333	9.969	77	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1120482	11.759	1715192	11.774	65	50 - 200	-0.0150	+/-0.50	
Chrysene-d12	827099	15.723	1544218	15.759	54	50 - 200	-0.0360	+/-0.50	
Perylene-d12	622151	18.421	1113886	18.452	56	50 - 200	-0.0310	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00411	Instrument:	MS-BNA3
		Calibration:	1355004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2A00411-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 12/31/11 10:45			
1,4-Dichlorobenzene-d4	719262	6.071	505859	6.192	142	50 - 200	-0.1210	+/-0.50	
Naphthalene-d8	2636710	7.716	1834527	7.837	144	50 - 200	-0.1210	+/-0.50	
Acenaphthene-d10	1529310	9.938	1027766	10.06	149	50 - 200	-0.1220	+/-0.50	
Phenanthrene-d10	2505891	11.749	1687365	11.865	149	50 - 200	-0.1160	+/-0.50	
Chrysene-d12	2411433	15.729	1537665	15.893	157	50 - 200	-0.1640	+/-0.50	
Perylene-d12	2026869	18.422	1189188	18.602	170	50 - 200	-0.1800	+/-0.50	
GW0334 (1112109-05RE1)			Lab File ID: 1210905D.D			Analyzed: 12/31/11 16:33			
1,4-Dichlorobenzene-d4	680756	6.074	719262	6.071	95	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	2463318	7.72	2636710	7.716	93	50 - 200	0.0040	+/-0.50	
Acenaphthene-d10	1418991	9.942	1529310	9.938	93	50 - 200	0.0040	+/-0.50	
Phenanthrene-d10	2191693	11.748	2505891	11.749	87	50 - 200	-0.0010	+/-0.50	
Chrysene-d12	2213673	15.722	2411433	15.729	92	50 - 200	-0.0070	+/-0.50	
Perylene-d12	1886818	18.425	2026869	18.422	93	50 - 200	0.0030	+/-0.50	
GW0264 (1112117-01RE1)			Lab File ID: 1211701D.D			Analyzed: 12/31/11 17:05			
1,4-Dichlorobenzene-d4	643216	6.077	719262	6.071	89	50 - 200	0.0060	+/-0.50	
Naphthalene-d8	2206808	7.717	2636710	7.716	84	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1178740	9.944	1529310	9.938	77	50 - 200	0.0060	+/-0.50	
Phenanthrene-d10	1701228	11.745	2505891	11.749	68	50 - 200	-0.0040	+/-0.50	
Chrysene-d12	1479276	15.719	2411433	15.729	61	50 - 200	-0.0100	+/-0.50	
Perylene-d12	1109076	18.417	2026869	18.422	55	50 - 200	-0.0050	+/-0.50	
GW0265 (1112117-03RE1)			Lab File ID: 1211703D.D			Analyzed: 12/31/11 17:36			
1,4-Dichlorobenzene-d4	583804	6.068	719262	6.071	81	50 - 200	-0.0030	+/-0.50	
Naphthalene-d8	1955135	7.714	2636710	7.716	74	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1049652	9.936	1529310	9.938	69	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	1464236	11.736	2505891	11.749	58	50 - 200	-0.0130	+/-0.50	
Chrysene-d12	1249804	15.705	2411433	15.729	52	50 - 200	-0.0240	+/-0.50	
Perylene-d12	800953	18.398	2026869	18.422	40	50 - 200	-0.0240	+/-0.50	*

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1355004	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	12/16/11_15:27 12/16/11_23:13

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	1.220849	10	1.198515	20	1.208717	40	1.125745	50	1.146975	60	1.105409
Acenaphthylene	5	1.884647	10	1.7124	20	1.704055	40	1.614445	50	1.721636	60	1.654609
Acetophenone												
Aniline	5	2.178434	10	2.152807	20	2.413905	40	2.291007	50	2.277657	60	2.185232
Anthracene	5	1.326415	10	1.272744	20	1.279795	40	1.155771	50	1.181406	60	1.133684
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.309695	10	1.266611	20	1.312977	40	1.209716	50	1.237358	60	1.190139
Benzo(a)pyrene	5	1.132274	10	1.126462	20	1.192614	40	1.137521	50	1.17938	60	1.142907
Benzo(b)fluoranthene	5	1.309483	10	1.254988	20	1.349165	40	1.191645	50	1.306183	60	1.261255
Benzo(g,h,i)perylene	5	0.7796202	10	0.8043056	20	0.8676274	40	0.7863676	50	0.7998752	60	0.697655
Benzoic acid	5	0.1084452	10	0.1282666	20	0.1489139	40	0.1788366	50	0.2044802	60	0.2198901
Benzo(k)fluoranthene	5	1.410261	10	1.40203	20	1.368908	40	1.279574	50	1.339876	60	1.321282
Benzyl alcohol	5	0.7753035	10	0.7374415	20	0.7997811	40	0.8252989	50	0.8817868	60	0.8769764
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.2764181	10	0.2674284	20	0.2680211	40	0.24461	50	0.246415	60	0.237814
Butylbenzylphthalate	5	0.5114019	10	0.5015429	20	0.5473722	40	0.5211874	50	0.5608477	60	0.5730796
Caprolactam												
Carbazole	5	1.15095	10	1.040047	20	0.9984634	40	0.9979433	50	1.057652	60	1.003848
4-Chloro-3-methylphenol	5	0.2913261	10	0.280406	20	0.2980937	40	0.2931744	50	0.3028085	60	0.3035294
4-Chloroaniline	5	0.4383325	10	0.4053027	20	0.4295029	40	0.4224743	50	0.4396373	60	0.4324253
Bis(2-chloroethoxy)methane	5	0.4276614	10	0.4002744	20	0.4290436	40	0.412233	50	0.4261528	60	0.4150469
Bis(2-chloroethyl)ether	5	1.343234	10	1.350477	20	1.395259	40	1.311568	50	1.32155	60	1.28869
2,2'-Oxybis-1-chloropropane	5	1.51542	10	1.467952	20	1.534275	40	1.463075	50	1.500817	60	1.480723
2-Chloronaphthalene	5	1.270693	10	1.228249	20	1.220995	40	1.139594	50	1.159905	60	1.118059
2-Chlorophenol	5	1.450696	10	1.389256	20	1.469112	40	1.388726	50	1.427142	60	1.391292
4-Chlorophenyl phenyl ether	5	0.6863373	10	0.6788292	20	0.6669497	40	0.6260145	50	0.6323214	60	0.6042189
Chrysene	5	1.234871	10	1.227019	20	1.244191	40	1.136364	50	1.16696	60	1.120867
Dibenz(a,h)anthracene	5	0.8051229	10	0.8175689	20	0.8808986	40	0.8209608	50	0.8541338	60	0.7864098
Dibenzofuran	5	1.799118	10	1.731277	20	1.743828	40	1.60578	50	1.642732	60	1.575384

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1355004
Instrument: MS-BNA3
Matrix: Water
Calibration Dates: 12/16/11 15:27 12/16/11 23:13

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	1.259776	10	1.17772	20	1.230796	40	1.177015	50	1.238424	60	1.193836
1,4-Dichlorobenzene	5	1.648414	10	1.60071	20	1.638387	40	1.554132	50	1.563771	60	1.526081
1,3-Dichlorobenzene	5	1.633051	10	1.596202	20	1.633216	40	1.545403	50	1.552422	60	1.517512
1,2-Dichlorobenzene	5	1.54888	10	1.509603	20	1.548682	40	1.44613	50	1.466967	60	1.421258
3,3'-Dichlorobenzidine												
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.3113233	10	0.3080596	20	0.320916	40	0.3089543	50	0.3185975	60	0.3120223
Diethylphthalate	5	1.166871	10	1.066682	20	1.153669	40	1.183885	50	1.25283	60	1.208501
2,4-Dimethylphenol	5	0.3389451	10	0.30034	20	0.3160094	40	0.3384431	50	0.3621601	60	0.3588574
Dimethyl phthalate	5	1.200516	10	1.119021	20	1.242018	40	1.250505	50	1.30449	60	1.253052
4,6-Dinitro-2-methylphenol	5	7.751842E-02	10	8.606045E-02	20	0.1076633	40	0.1062146	50	0.1196169	60	0.1234445
2,4-Dinitrophenol	5	6.109361E-02	10	7.470489E-02	20	0.1058726	40	0.1178939	50	0.1331572	60	0.1444818
2,4-Dinitrotoluene	5	0.343277	10	0.3201873	20	0.3483233	40	0.347276	50	0.3666297	60	0.3656794
2,6-Dinitrotoluene	5	0.2540629	10	0.2446603	20	0.2522205	40	0.2473361	50	0.2643295	60	0.2617487
Di-n-octylphthalate	5	1.152886	10	1.229452	20	1.389295	40	1.376877	50	1.539906	60	1.591954
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.8763594	10	0.8601391	20	0.8759911	40	0.8225604	50	0.8978827	60	0.8837539
Bis(2-ethylhexyl)phthalate	5	0.6877709	10	0.6952169	20	0.7502243	40	0.7281207	50	0.7656837	60	0.765398
Fluoranthene	5	1.441125	10	1.35475	20	1.411141	40	1.264552	50	1.305128	60	1.220782
Fluorene	5	1.498258	10	1.449947	20	1.467368	40	1.354544	50	1.382627	60	1.323009
2-Fluorobiphenyl	5	1.529747	10	1.47126	20	1.480615	40	1.36187	50	1.401852	60	1.343943
2-Fluorophenol	10	1.293278	20	1.272646	40	1.323609	80	1.243538	100	1.260728	120	1.24717
Hexachlorobenzene	5	0.3039677	10	0.281997	20	0.2836506	40	0.2600059	50	0.2648792	60	0.2531491
Hexachlorobutadiene	5	0.2241385	10	0.216472	20	0.2180141	40	0.1973401	50	0.2014641	60	0.1945257
Hexachlorocyclopentadiene	5	0.1930249	10	0.1849963	20	0.1864749	40	0.2045606	50	0.2302972	60	0.2461231
Hexachloroethane	5	0.4418916	10	0.4146937	20	0.4530066	40	0.4825069	50	0.5065355	60	0.5149119
Indeno(1,2,3-cd)pyrene	5	0.7045494	10	0.7680139	20	0.8737515	40	0.804264	50	0.8898748	60	0.7556175
Isophorone	5	0.6999621	10	0.6692455	20	0.721345	40	0.7125071	50	0.73712	60	0.7234275
1-Methylnaphthalene	5	0.6560081	10	0.6289928	20	0.6439246	40	0.5999028	50	0.6011771	60	0.5888484
2-Methylnaphthalene	5	0.6674548	10	0.637049	20	0.6591366	40	0.6085489	50	0.616711	60	0.6022351
2-Methylphenol	5	1.192806	10	1.15384	20	1.260801	40	1.252116	50	1.274229	60	1.271054

INITIAL CALIBRATION DATA

SW8270C

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_039	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1355004		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	12/16/11 15:27	12/16/11 23:13

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	5	1.202152	10	1.130261	20	1.22471	40	1.237452	50	1.284206	60	1.286931
4-Methylphenol	5	1.202152	10	1.130261	20	1.22471	40	1.237452	50	1.284206	60	1.286931
3-Methylphenol/4-Methylphenol	5	1.202152	10	1.130261	20	1.22471	40	1.237452	50	1.284206	60	1.286931
Naphthalene	5	1.165992	10	1.122437	20	1.148522	40	1.059687	50	1.079108	60	1.035506
4-Nitroaniline	5	0.2011237	10	0.1642588	20	0.201647	40	0.2542804	50	0.2826388	60	0.2829901
3-Nitroaniline	5	0.2830728	10	0.2593419	20	0.2808087	40	0.2891859	50	0.3066047	60	0.3033494
2-Nitroaniline	5	0.2492548	10	0.24389	20	0.263733	40	0.2666053	50	0.2930415	60	0.2930212
Nitrobenzene	5	0.3298546	10	0.3041387	20	0.3139671	40	0.3093938	50	0.3395007	60	0.3432939
Nitrobenzene-d5	5	0.3444492	10	0.3147888	20	0.3287884	40	0.3331393	50	0.3605161	60	0.3640716
4-Nitrophenol	5	0.161875	10	0.1805663	20	0.2045181	40	0.2158282	50	0.2233996	60	0.2264275
2-Nitrophenol	5	0.1228565	10	0.1146843	20	0.1175936	40	0.1299485	50	0.1413226	60	0.146103
N-Nitrosodimethylamine	5	0.5767846	10	0.5794449	20	0.6254445	40	0.5973609	50	0.6089038	60	0.5977242
N-Nitrosodiphenylamine	5	0.7792396	10	0.748974	20	0.7578886	40	0.7161012	50	0.7309857	60	0.6970548
N-Nitroso-di-n-propylamine	5	0.9054836	10	0.874044	20	0.9699197	40	0.9855522	50	1.012233	60	0.9886768
Pentachlorophenol	5	0.1363723	10	0.1490451	20	0.1609387	40	0.1570008	50	0.1661451	60	0.1647406
Phenanthrene	5	1.309388	10	1.251821	20	1.257918	40	1.136931	50	1.152229	60	1.104557
Phenol	5	1.586858	10	1.515689	20	1.656498	40	1.652318	50	1.812956	60	1.689571
Phenol-d6	10	1.544127	20	1.430176	40	1.557942	80	1.606117	100	1.66624	120	1.654845
Pyrene	5	1.415426	10	1.450325	20	1.417796	40	1.328143	50	1.365678	60	1.391175
Pyridine	5	1.444793	10	1.433414	20	1.504674	40	1.455978	50	1.430913	60	1.420552
Terphenyl-d14	5	0.9665893	10	0.9771118	20	0.9432764	40	0.893376	50	0.9186398	60	0.9287124
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.3225549	10	0.3229732	20	0.3328343	40	0.3306522	50	0.3447097	60	0.3395616
2,4,6-Tribromophenol	10	0.1266335	20	0.1252694	40	0.1278646	80	0.122241	100	0.1266146	120	0.1259078
1,2,4-Trichlorobenzene	5	0.3709845	10	0.3576211	20	0.3631906	40	0.3373173	50	0.3422371	60	0.3310245
2,4,6-Trichlorophenol	5	0.3850826	10	0.3652611	20	0.3792013	40	0.3634379	50	0.3797362	60	0.3690172
2,4,5-Trichlorophenol	5	0.3813028	10	0.3684428	20	0.3908008	40	0.3776324	50	0.3881922	60	0.394318

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1355004	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	12/16/11 15:27 12/16/11 23:13

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	1.091868	100	1.068778								
Acenaphthylene	80	1.654269	100	1.606811								
Acetophenone					5	1.716441	10	1.776914	20	1.762554	40	1.750873
Aniline	80	2.070528	100	1.978125								
Anthracene	80	1.076862	100	1.045067								
Atrazine					5	0.2226026	10	0.2210489	20	0.2151342	40	0.214986
Benzaldehyde					5	1.051097	10	1.068658	20	1.062851	40	1.004827
Benzidine					5	0.4129907	10	0.5015452	20	0.5877512	40	0.5996009
Benzo(a)anthracene	80	1.165323	100	1.141929								
Benzo(a)pyrene	80	1.133066	100	1.108297								
Benzo(b)fluoranthene	80	1.289937	100	1.191034								
Benzo(g,h,i)perylene	80	0.7055833	100	0.665223								
Benzoic acid	80	0.2157243	100	0.214104								
Benzo(k)fluoranthene	80	1.269829	100	1.261082								
Benzyl alcohol	80	0.8737518	100	0.8510601								
1,1-Biphenyl					5	1.545198	10	1.510182	20	1.502005	40	1.401306
4-Bromophenyl-phenylether	80	0.2282014	100	0.2273109								
Butylbenzylphthalate	80	0.5414078	100	0.5342383								
Caprolactam					5	8.306406E-02	10	8.681066E-02	20	8.571158E-02	40	0.1006733
Carbazole	80	0.9827694	100	0.9514876								
4-Chloro-3-methylphenol	80	0.299633	100	0.2875804								
4-Chloroaniline	80	0.4187312	100	0.403292								
Bis(2-chloroethoxy)methane	80	0.408894	100	0.3925252								
Bis(2-chloroethyl)ether	80	1.270612	100	1.225245								
2,2'-Oxybis-1-chloropropane	80	1.460673	100	1.401931								
2-Chloronaphthalene	80	1.103594	100	1.082873								
2-Chlorophenol	80	1.361243	100	1.317738								
4-Chlorophenyl phenyl ether	80	0.5883795	100	0.5619232								
Chrysene	80	1.07869	100	1.070666								
Dibenz(a,h)anthracene	80	0.7851261	100	0.7495313								
Dibenzofuran	80	1.554957	100	1.509099								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1355004	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	12/16/11 15:27 12/16/11 23:13

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	1.16053	100	1.112402								
1,4-Dichlorobenzene	80	1.474664	100	1.418015								
1,3-Dichlorobenzene	80	1.469796	100	1.435615								
1,2-Dichlorobenzene	80	1.391022	100	1.340479								
3,3'-Dichlorobenzidine					5	0.3024286	10	0.3223727	20	0.3579318	40	0.3653669
2,6-Dichlorophenol					5	0.294909	10	0.2957659	20	0.2896718	40	0.2949109
2,4-Dichlorophenol	80	0.309101	100	0.2991574								
Diethylphthalate	80	1.19713	100	1.147983								
2,4-Dimethylphenol	80	0.3556449	100	0.3433783								
Dimethyl phthalate	80	1.24893	100	1.209339								
4,6-Dinitro-2-methylphenol	80	0.1222887	100	0.1197211								
2,4-Dinitrophenol	80	0.1457934	100	0.1498937								
2,4-Dinitrotoluene	80	0.3665324	100	0.3491807								
2,6-Dinitrotoluene	80	0.2668523	100	0.2564327								
Di-n-octylphthalate	80	1.519194	100	1.519701								
1,4-Dioxane					5	0.5259089	10	0.5417857	20	0.5371317	40	0.5157142
1,2-Diphenylhydrazine	80	0.8512637	100	0.8413791								
Bis(2-ethylhexyl)phthalate	80	0.7280242	100	0.7030163								
Fluoranthene	80	1.199765	100	1.13576								
Fluorene	80	1.287633	100	1.240647								
2-Fluorobiphenyl	80	1.346237	100	1.31283								
2-Fluorophenol	160	1.222218	200	1.184107								
Hexachlorobenzene	80	0.2423399	100	0.235866								
Hexachlorobutadiene	80	0.1914508	100	0.1830848								
Hexachlorocyclopentadiene	80	0.2087682	100	0.2125149								
Hexachloroethane	80	0.5126361	100	0.5000911								
Indeno(1,2,3-cd)pyrene	80	0.8256851	100	0.7515646								
Isophorone	80	0.7152713	100	0.6888954								
1-Methylnaphthalene	80	0.56751	100	0.5476847								
2-Methylnaphthalene	80	0.5818071	100	0.5530147								
2-Methylphenol	80	1.242362	100	1.203816								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1355004	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	12/16/11 15:27 12/16/11 23:13

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	80	1.273881	100	1.234417								
4-Methylphenol	80	1.273881	100	1.234417								
3-Methylphenol/4-Methylphenol	80	1.273881	100	1.234417								
Naphthalene	80	0.9978616	100	0.9559229								
4-Nitroaniline	80	0.3049562	100	0.3050033								
3-Nitroaniline	80	0.3153259	100	0.3154045								
2-Nitroaniline	80	0.3026741	100	0.2995223								
Nitrobenzene	80	0.354112	100	0.3463674								
Nitrobenzene-d5	80	0.3729844	100	0.3655931								
4-Nitrophenol	80	0.2290262	100	0.2240825								
2-Nitrophenol	80	0.1375242	100	0.1320875								
N-Nitrosodimethylamine	80	0.5802637	100	0.5680642								
N-Nitrosodiphenylamine	80	0.6745357	100	0.6558818								
N-Nitroso-di-n-propylamine	80	0.9691833	100	0.9305281								
Pentachlorophenol	80	0.1595372	100	0.1572935								
Phenanthrene	80	1.063843	100	1.034999								
Phenol	80	1.672221	100	1.63928								
Phenol-d6	160	1.625573	200	1.587051								
Pyrene	80	1.257333	100	1.258749								
Pyridine	80	1.385105	100	1.354029								
Terphenyl-d14	80	0.8460628	100	0.8387309								
1,2,4,5-Tetrachlorobenzene					5	0.3433695	10	0.3469264	20	0.3355512	40	0.3200897
2,3,4,6-Tetrachlorophenol	80	0.334944	100	0.3309594	5		10		20		40	
2,4,6-Tribromophenol	160	0.1223852	200	0.1205353								
1,2,4-Trichlorobenzene	80	0.3232067	100	0.3155327								
2,4,6-Trichlorophenol	80	0.3784572	100	0.3713051								
2,4,5-Trichlorophenol	80	0.3911948	100	0.3881358								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1355004	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	12/16/11 15:27 12/16/11 23:13

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	1.804592	60	1.768666	80	1.686607	100	1.692407				
Aniline												
Anthracene												
Atrazine	50	0.2290628	60	0.222651	80	0.2031881	100	0.2043707				
Benzaldehyde	50	0.9416025	60	0.8681087	80	0.7993473	100	0.7701722				
Benzidine	50	0.5930458	60	0.5420449	80	0.4884237	100	0.4599724				
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	1.447747	60	1.408679	80	1.377857	100	1.344921				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1061019	60	0.1092065	80	0.1038188	100	0.1047002				
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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1355004	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	12/16/11 15:27 12/16/11 23:13

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	0.3787966	60	0.3734892	80	0.3498093	100	0.3492703				
2,6-Dichlorophenol	50	0.3100356	60	0.3068299	80	0.2964233	100	0.2962908				
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	0.5392808	60	0.5308425	80	0.5260849	100	0.5267149				
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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1355004	Instrument:	MS-BNA3
Matrix:	Water	Calibration Dates:	12/16/11 15:27 12/16/11 23:13

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												
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	0.3305351	60	0.3240151	80	0.315386	100	0.3090637				
2,3,4,6-Tetrachlorophenol	50		60		80		100					
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_039	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1355004		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	12/16/11 15:27	12/16/11 23:13

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.145857	5.029125	10.10075	7.149256E-02			CCC (30)	
Acenaphthylene	1.694109	5.213743	9.86825	6.920222E-02			15	
Acetophenone	1.744882	2.41826	6.740375	5.850418E-02			15	
Aniline	2.193462	6.180002	5.837	0.1211059			15	
Anthracene	1.183968	8.533235	11.94825	6.106382E-02			15	
Atrazine	0.2166305	4.208917	11.55962	0.0848735			15	
Benzaldehyde	0.945833	12.7446	5.64975	0.0628695			15	
Benzidine	0.5231718	13.13577	13.67912	5.302971E-02			15	
Benzo(a)anthracene	1.229218	5.196942	15.852	6.384904E-02			15	
Benzo(a)pyrene	1.144065	2.449608	18.49312	0.0721709			CCC (30)	
Benzo(b)fluoranthene	1.269211	4.437524	17.89475	7.363566E-02			15	
Benzo(g,h,i)perylene	0.7632822	8.852766	21.21613	9.816752E-02			15	
Benzoic acid	0.1773326	24.61454	7.606625	0.7141859	0.9958812		0.995	
Benzo(k)fluoranthene	1.331605	4.41643	17.94425	9.106041E-02			15	
Benzyl alcohol	0.827675	6.409067	6.403875	0.1504038			15	
1,1-Biphenyl	1.442237	4.919382	9.32375	5.651667E-02			15	
4-Bromophenyl-phenylether	0.2495274	7.581213	11.30862	4.642236E-02			15	
Butylbenzylphthalate	0.5363847	4.547368	14.9325	4.458965E-02			15	
Caprolactam	9.751088E-02	10.78719	8.358375	0.3032763			15	
Carbazole	1.022895	5.980003	12.15312	6.697291E-02			15	
4-Chloro-3-methylphenol	0.2945689	2.716268	8.573375	6.924222E-02			CCC (30)	
4-Chloroaniline	0.4237123	3.288486	7.96375	7.369394E-02			15	
Bis(2-chloroethoxy)methane	0.4139789	3.215654	7.559625	0.1156186			15	
Bis(2-chloroethyl)ether	1.313329	3.992753	5.909	0.1488829			15	
2,2'-Oxybis-1-chloropropane	1.478108	2.74278	6.597375	8.889853E-02			15	
2-Chloronaphthalene	1.165495	5.773465	9.34	6.037526E-02			15	
2-Chlorophenol	1.399401	3.486982	5.967125	9.700108E-02			15	
4-Chlorophenyl phenyl ether	0.6306217	7.084803	10.71288	5.412471E-02			15	
Chrysene	1.159954	6.00083	15.94025	7.539145E-02			15	
Dibenz(a,h)anthracene	0.812469	5.087239	20.68075	7.591212E-02			15	
Dibenzofuran	1.645272	6.24626	10.29225	6.919551E-02			15	
Di-n-butylphthalate	1.193812	4.002941	12.64475	4.616974E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_039	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1355004		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	12/16/11 15:27	12/16/11 23:13

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.553022	5.097508	6.21475	0.0616863			CCC (30)	
1,3-Dichlorobenzene	1.547902	4.666349	6.146	6.705255E-02			15	
1,2-Dichlorobenzene	1.459128	5.115759	6.455375	5.968795E-02			15	
3,3'-Dichlorobenzidine	0.3499332	7.410238	15.8555	4.814531E-02			15	
2,6-Dichlorophenol	0.2981047	2.273718	7.963625	4.366084E-02			15	
2,4-Dichlorophenol	0.3110164	2.153051	7.67375	0.1019205			CCC (30)	
Diethylphthalate	1.172194	4.635689	10.6475	9.227583E-02			15	
2,4-Dimethylphenol	0.3392223	6.351972	7.43425	0.1329009			15	
Dimethyl phthalate	1.228484	4.415596	9.786	0.1332341			15	
4,6-Dinitro-2-methylphenol	0.107816	16.17366	10.8525	0.1455444	0.9976156		0.995	
2,4-Dinitrophenol	0.1166114	28.92727	10.16087	8.812404E-02	0.9960619		SPCC (0.05)	
2,4-Dinitrotoluene	0.3508857	4.485907	10.351	0.106899			15	
2,6-Dinitrotoluene	0.2559554	3.10479	9.87275	8.965195E-02			15	
Di-n-octylphthalate	1.414908	11.14219	17.20963	4.671418E-02			CCC (30)	
1,4-Dioxane	0.530433	1.628104	2.874	0.1364761			15	
1,2-Diphenylhydrazine	0.8636662	2.849599	10.9065	6.281239E-02			15	
Bis(2-ethylhexyl)phthalate	0.7279319	4.227762	16.02962	3.893093E-02			15	
Fluoranthene	1.291625	8.239684	13.47488	6.718614E-02			CCC (30)	
Fluorene	1.375504	6.629201	10.7175	7.083859E-02			15	
2-Fluorobiphenyl	1.406044	5.587692	9.218375	7.434539E-02			15	
2-Fluorophenol	1.255912	3.40526	4.634125	9.047086E-02			15	
Hexachlorobenzene	0.2657319	8.626791	11.49425	6.371415E-02			15	
Hexachlorobutadiene	0.2033113	7.174035	8.09	5.085184E-02			CCC (30)	
Hexachlorocyclopentadiene	0.208345	10.26089	9.014875	0.0365999			SPCC (0.05)	
Hexachloroethane	0.4782842	7.831169	6.84475	5.956692E-02			15	
Indeno(1,2,3-cd)pyrene	0.7966651	8.017138	20.63912	7.694045E-02			15	
Isophorone	0.7084717	3.049301	7.265875	0.1564257			15	
1-Methylnaphthalene	0.6042561	6.1542	8.86925	5.854401E-02			15	
2-Methylnaphthalene	0.6157446	6.239608	8.730375	5.822821E-02			15	
2-Methylphenol	1.231378	3.511313	6.564	8.973984E-02			15	
3-Methylphenol	1.234251	4.197335	6.7605	0.1873609			15	
4-Methylphenol	1.234251	4.197335	6.7605	0.1873609			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_039	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1355004		Instrument:	MS-BNA3	
Matrix:	Water		Calibration Dates:	12/16/11 15:27	12/16/11 23:13

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3-Methylphenol/4-Methylphenol	1.234251	4.197335	6.7605	0.1873609			15	
Naphthalene	1.07063	6.856731	7.8615	6.567814E-02			15	
4-Nitroaniline	0.2496123	21.57133	10.813	0.1911895	0.9961762		0.995	
3-Nitroaniline	0.2941367	6.648357	10.0445	0.1258218			15	
2-Nitroaniline	0.2764678	8.458803	9.52175	0.0786522			15	
Nitrobenzene	0.3300785	5.687144	6.971375	0.1276666			15	
Nitrobenzene-d5	0.3480414	6.001631	6.948	0.1020707			15	
4-Nitrophenol	0.2082154	11.80703	10.24487	0.1368919			SPCC (0.05)	
2-Nitrophenol	0.130265	8.643551	7.378125	6.526651E-02			CCC (30)	
N-Nitrosodimethylamine	0.5917488	3.234895	3.219375	0.1655593			15	
N-Nitrosodiphenylamine	0.7200827	5.897689	10.87862	0.104895			CCC (30)	
N-Nitroso-di-n-propylamine	0.9544526	4.909321	6.78775	0.1668905			SPCC (0.05)	
Pentachlorophenol	0.1563842	6.16823	11.71463	5.206712E-02			CCC (30)	
Phenanthrene	1.163961	8.514188	11.895	0.0604545			15	
Phenol	1.653174	5.149111	5.811625	0.2450824			CCC (30)	
Phenol-d6	1.584009	4.768668	5.796875	0.2308279			15	
Pyrene	1.360578	5.370868	13.81137	7.454881E-02			15	
Pyridine	1.428682	3.168547	3.216625	0.3043787			15	
Terphenyl-d14	0.9140624	5.631805	14.061	5.569294E-02			15	
1,2,4,5-Tetrachlorobenzene	0.3281171	4.079013	8.990625	4.120283E-02			15	
2,3,4,6-Tetrachlorophenol	0.3323987	2.275307	10.49925	5.380991E-02			15	
2,4,6-Tribromophenol	0.1246814	2.099136	11.044	9.236172E-02			15	
1,2,4-Trichlorobenzene	0.3426393	5.759422	7.7835	5.752022E-02			15	
2,4,6-Trichlorophenol	0.3739373	2.077974	9.12175	6.736379E-02			CCC (30)	
2,4,5-Trichlorophenol	0.3850025	2.240764	9.166375	6.440794E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-ICV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L35407	Injection Date:	12/16/11
Lab Sample ID:	1L35407-ICV1	Injection Time:	23:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	53.09	1.145857	1.216765		6.2	20
Acenaphthylene	A	50.00	52.77	1.694109	1.788084		5.5	20
Anthracene	A	50.00	52.93	1.183968	1.253289		5.9	20
Benzo(a)anthracene	A	50.00	54.37	1.229218	1.336672		8.7	20
Benzo(a)pyrene	A	50.00	54.38	1.144065	1.244389		8.8	20
Benzo(b)fluoranthene	A	50.00	56.65	1.269211	1.438088		13.3	20
Benzo(g,h,i)perylene	A	50.00	57.60	0.7632822	0.8793131		15.2	20
Benzoic acid	L	50.00	54.21	0.1773326	0.2241789		8.4	20
Benzo(k)fluoranthene	A	50.00	53.85	1.331605	1.434024		7.7	20
4-Bromophenyl-phenylether	A	50.00	54.10	0.2495274	0.2699663		8.2	20
Butylbenzylphthalate	A	50.00	54.52	0.5363847	0.5848782		9.0	20
Carbazole	A	50.00	43.32	1.022895	0.8862194		-13.4	20
4-Chloro-3-methylphenol	A	50.00	53.49	0.2945689	0.3151095		7.0	20
4-Chloroaniline	A	50.00	52.75	0.4237123	0.4469781		5.5	20
Bis(2-chloroethoxy)methane	A	50.00	54.03	0.4139789	0.4473679		8.1	20
Bis(2-chloroethyl)ether	A	50.00	51.64	1.313329	1.356318		3.3	20
2,2'-Oxybis-1-chloropropane	A	50.00	53.21	1.478108	1.572968		6.4	20
2-Chloronaphthalene	A	50.00	53.78	1.165495	1.253655		7.6	20
2-Chlorophenol	A	50.00	50.63	1.399401	1.416925		1.3	20
4-Chlorophenyl phenyl ether	A	50.00	51.48	0.6306217	0.6492387		3.0	20
Chrysene	A	50.00	54.00	1.159954	1.252684		8.0	20
Dibenz(a,h)anthracene	A	50.00	57.36	0.812469	0.9320151		14.7	20
Dibenzofuran	A	50.00	52.55	1.645272	1.729204		5.1	20
Di-n-butylphthalate	A	50.00	50.68	1.193812	1.21014		1.4	20
2,4-Dichlorophenol	A	50.00	52.18	0.3110164	0.3245474		4.4	20
Diethylphthalate	A	50.00	53.34	1.172194	1.250549		6.7	20
2,4-Dimethylphenol	A	50.00	55.15	0.3392223	0.3741874		10.3	20
Dimethyl phthalate	A	50.00	52.47	1.228484	1.289144		4.9	20
2,4-Dinitrophenol	L	50.00	56.86	0.1166114	0.1600332	0.05	13.7	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-ICV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L35407	Injection Date:	12/16/11
Lab Sample ID:	1L35407-ICV1	Injection Time:	23:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4-Dinitrotoluene	A	50.00	56.29	0.3508857	0.3950083		12.6	20
2,6-Dinitrotoluene	A	50.00	56.74	0.2559554	0.2904396		13.5	20
Di-n-octylphthalate	A	50.00	54.87	1.414908	1.55279		9.7	20
1,2-Diphenylhydrazine	A	50.00	51.60	0.8636662	0.8912773		3.2	20
Bis(2-ethylhexyl)phthalate	A	50.00	55.02	0.7279319	0.8009468		10.0	20
Fluoranthene	A	50.00	50.30	1.291625	1.299439		0.6	20
Fluorene	A	50.00	52.08	1.375504	1.432841		4.2	20
Hexachlorobenzene	A	50.00	53.98	0.2657319	0.286874		8.0	20
Hexachlorobutadiene	A	50.00	57.15	0.2033113	0.2323723		14.3	20
Hexachlorocyclopentadiene	A	50.00	49.96	0.208345	0.2081774	0.05	-0.08	20
Hexachloroethane	A	50.00	56.56	0.4782842	0.541073		13.1	20
Indeno(1,2,3-cd)pyrene	A	50.00	58.76	0.7966651	0.9362993		17.5	20
Isophorone	A	50.00	51.96	0.7084717	0.7363044		3.9	20
1-Methylnaphthalene	A	50.00	50.08	0.6042561	0.6051788		0.2	20
2-Methylnaphthalene	A	50.00	50.53	0.6157446	0.6222383		1.1	20
2-Methylphenol	A	50.00	52.20	1.231378	1.285533		4.4	20
3-Methylphenol/4-Methylphenol	A	50.00	51.26	1.234251	1.265236		2.5	20
Naphthalene	A	50.00	58.11	1.07063	1.244242		16.2	20
4-Nitroaniline	L	50.00	44.00	0.2496123	0.2467733		-12.0	20
3-Nitroaniline	A	50.00	55.80	0.2941367	0.3282328		11.6	20
2-Nitroaniline	A	50.00	59.84	0.2764678	0.3308783		19.7	20
Nitrobenzene	A	50.00	59.76	0.3300785	0.3945415		19.5	20
4-Nitrophenol	A	50.00	58.06	0.2082154	0.2417838	0.05	16.1	20
2-Nitrophenol	A	50.00	59.22	0.130265	0.1542905		18.4	20
N-Nitrosodiphenylamine	A	50.00	53.65	0.7200827	0.7726579		7.3	20
N-Nitroso-di-n-propylamine	A	50.00	52.26	0.9544526	0.9976016	0.05	4.5	20
Phenanthrene	A	50.00	53.64	1.163961	1.248653		7.3	20
Phenol	A	50.00	54.19	1.653174	1.79177		8.4	20
Pyrene	A	50.00	55.35	1.360578	1.506054		10.7	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-ICV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L35407	Injection Date:	12/16/11
Lab Sample ID:	1L35407-ICV1	Injection Time:	23:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,4,6-Trichlorophenol	A	50.00	54.44	0.3739373	0.4071358		8.9	20
2,4,5-Trichlorophenol	A	50.00	55.73	0.3850025	0.4291314		11.5	20
2-Fluorobiphenyl	A	50.00	51.18	1.406044	1.439334		2.4	20
2-Fluorophenol	A	100.0	103.8	1.255912	1.303395		3.8	20
Nitrobenzene-d5	A	50.00	59.49	0.3480414	0.4140996		19.0	20
Phenol-d6	A	100.0	97.25	1.584009	1.540519		-2.7	20
Terphenyl-d14	A	50.00	53.23	0.9140624	0.973115		6.5	20
2,4,6-Tribromophenol	A	100.0	105.7	0.1246814	0.131768		5.7	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-ICV2.D	Calibration Date:	12/16/11 00:00
Sequence:	1L35407	Injection Date:	12/17/11
Lab Sample ID:	1L35407-ICV2	Injection Time:	00:16

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetophenone	A	50.00	49.81	1.744882	1.738189		-0.4	20
Atrazine	A	50.00	50.56	0.2166305	0.219038		1.1	20
Benzaldehyde	A	50.00	49.20	0.945833	0.9306927		-1.6	20
Benzidine	A	50.00	63.92	0.5231718	0.6688196		27.8	20 *
1,1-Biphenyl	A	50.00	46.83	1.442237	1.350939		-6.3	20
Caprolactam	A	50.00	52.41	9.751088E-02	0.1022058		4.8	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-ICV3.D	Calibration Date:	12/16/11 00:00
Sequence:	1L35407	Injection Date:	12/17/11
Lab Sample ID:	1L35407-ICV3	Injection Time:	00:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	42.49	0.3499332	0.2973762		-15.0	20

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

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-ICV5.D	Calibration Date:	12/16/11 00:00
Sequence:	1L35407	Injection Date:	12/17/11
Lab Sample ID:	1L35407-ICV5	Injection Time:	01:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
4,6-Dinitro-2-methylphenol	L	50.00	54.37	0.107816	0.1288464		8.7	20
Pentachlorophenol	A	50.00	54.29	0.1563842	0.1697951		8.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L35703	Injection Date:	12/22/11
Lab Sample ID:	1L35703-CCV1	Injection Time:	12:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	49.21	1.145857	1.127727		-1.6	20
Acenaphthylene	A	50.00	51.34	1.694109	1.739405		2.7	20
Acetophenone	A	50.00	51.76	1.744882	1.806386		3.5	20
Anthracene	A	50.00	48.31	1.183968	1.143883		-3.4	20
Atrazine	A	50.00	48.81	0.2166305	0.2114595		-2.4	20
Benzaldehyde	A	50.00	38.10	0.945833	0.7207387		-23.8	20 *
Benzidine	A	50.00	65.11	0.5231718	0.6812863		30.2	20 *
Benzo(a)anthracene	A	50.00	48.33	1.229218	1.18825		-3.3	20
Benzo(a)pyrene	A	50.00	50.63	1.144065	1.158459		1.3	20
Benzo(b)fluoranthene	A	50.00	55.62	1.269211	1.411762		11.2	20
Benzo(g,h,i)perylene	A	50.00	45.99	0.7632822	0.7020611		-8.0	20
Benzoic acid	L	50.00	62.20	0.1773326	0.2605855		24.4	20 *
Benzo(k)fluoranthene	A	50.00	53.82	1.331605	1.433274		7.6	20
1,1-Biphenyl	A	50.00	47.74	1.442237	1.377116		-4.5	20
4-Bromophenyl-phenylether	A	50.00	47.44	0.2495274	0.2367277		-5.1	20
Butylbenzylphthalate	A	50.00	58.64	0.5363847	0.629102		17.3	20
Caprolactam	A	50.00	56.77	9.751088E-02	0.110719		13.5	20
Carbazole	A	50.00	49.48	1.022895	1.012248		-1.0	20
4-Chloro-3-methylphenol	A	50.00	55.49	0.2945689	0.3269335		11.0	20
4-Chloroaniline	A	50.00	50.26	0.4237123	0.4259074		0.5	20
Bis(2-chloroethoxy)methane	A	50.00	50.36	0.4139789	0.4169917		0.7	20
Bis(2-chloroethyl)ether	A	50.00	50.49	1.313329	1.32617		1.0	20
2,2'-Oxybis-1-chloropropane	A	50.00	43.51	1.478108	1.286175		-13.0	20
2-Chloronaphthalene	A	50.00	48.99	1.165495	1.141892		-2.0	20
2-Chlorophenol	A	50.00	49.80	1.399401	1.393789		-0.4	20
4-Chlorophenyl phenyl ether	A	50.00	47.83	0.6306217	0.6032903		-4.3	20
Chrysene	A	50.00	47.64	1.159954	1.105192		-4.7	20
Dibenz(a,h)anthracene	A	50.00	48.10	0.812469	0.7815884		-3.8	20
Dibenzofuran	A	50.00	49.38	1.645272	1.62484		-1.2	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L35703	Injection Date:	12/22/11
Lab Sample ID:	1L35703-CCV1	Injection Time:	12:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	52.56	1.193812	1.25493		5.1	20
3,3'-Dichlorobenzidine	A	50.00	52.80	0.3499332	0.3695401		5.6	20
2,4-Dichlorophenol	A	50.00	50.82	0.3110164	0.3161233		1.6	20
Diethylphthalate	A	50.00	53.41	1.172194	1.252204		6.8	20
2,4-Dimethylphenol	A	50.00	55.90	0.3392223	0.3792336		11.8	20
Dimethyl phthalate	A	50.00	52.60	1.228484	1.292448		5.2	20
4,6-Dinitro-2-methylphenol	L	50.00	65.60	0.107816	0.1569484		31.2	20 *
2,4-Dinitrophenol	L	50.00	64.37	0.1166114	0.1836902	0.05	28.7	20 *
2,4-Dinitrotoluene	A	50.00	60.21	0.3508857	0.4225607		20.4	20 *
2,6-Dinitrotoluene	A	50.00	58.26	0.2559554	0.2982485		16.5	20
Di-n-octylphthalate	A	50.00	66.33	1.414908	1.877099		32.7	20 *
1,2-Diphenylhydrazine	A	50.00	46.76	0.8636662	0.8077676		-6.5	20
Bis(2-ethylhexyl)phthalate	A	50.00	57.70	0.7279319	0.840087		15.4	20
Fluoranthene	A	50.00	46.25	1.291625	1.194792		-7.5	20
Fluorene	A	50.00	48.62	1.375504	1.337667		-2.8	20
Hexachlorobenzene	A	50.00	50.52	0.2657319	0.2685035		1.0	20
Hexachlorobutadiene	A	50.00	48.10	0.2033113	0.195597		-3.8	20
Hexachlorocyclopentadiene	A	50.00	76.45	0.208345	0.318578	0.05	52.9	20 *
Hexachloroethane	A	50.00	59.76	0.4782842	0.5716696		19.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	47.69	0.7966651	0.7599043		-4.6	20
Isophorone	A	50.00	50.26	0.7084717	0.7121754		0.5	20
1-Methylnaphthalene	A	50.00	46.44	0.6042561	0.5611769		-7.1	20
2-Methylnaphthalene	A	50.00	47.34	0.6157446	0.5829263		-5.3	20
2-Methylphenol	A	50.00	52.38	1.231378	1.290072		4.8	20
3-Methylphenol/4-Methylphenol	A	50.00	53.62	1.234251	1.323566		7.2	20
Naphthalene	A	50.00	48.66	1.07063	1.042045		-2.7	20
4-Nitroaniline	L	50.00	51.67	0.2496123	0.2958939		3.3	20
3-Nitroaniline	A	50.00	56.73	0.2941367	0.3337564		13.5	20
2-Nitroaniline	A	50.00	61.80	0.2764678	0.3417141		23.6	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L35703	Injection Date:	12/22/11
Lab Sample ID:	1L35703-CCV1	Injection Time:	12:09

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Nitrobenzene	A	50.00	58.30	0.3300785	0.3848837		16.6	20
4-Nitrophenol	A	50.00	55.76	0.2082154	0.2322118	0.05	11.5	20
2-Nitrophenol	A	50.00	76.64	0.130265	0.1996607		53.3	20 *
N-Nitrosodiphenylamine	A	50.00	50.08	0.7200827	0.7211789		0.2	20
N-Nitroso-di-n-propylamine	A	50.00	50.80	0.9544526	0.9697589	0.05	1.6	20
Pentachlorophenol	A	50.00	57.28	0.1563842	0.1791383		14.6	20
Phenanthrene	A	50.00	48.00	1.163961	1.117381		-4.0	20
Phenol	A	50.00	54.84	1.653174	1.813254		9.7	20
Pyrene	A	50.00	54.72	1.360578	1.489058		9.4	20
2,4,6-Trichlorophenol	A	50.00	53.27	0.3739373	0.3984114		6.5	20
2,4,5-Trichlorophenol	A	50.00	55.74	0.3850025	0.4292417		11.5	20
2-Fluorobiphenyl	A	50.00	48.01	1.406044	1.350084		-4.0	20
2-Fluorophenol	A	100.0	97.84	1.255912	1.22877		-2.2	20
Nitrobenzene-d5	A	50.00	57.17	0.3480414	0.3979623		14.3	20
Phenol-d6	A	100.0	102.4	1.584009	1.62286		2.5	20
Terphenyl-d14	A	50.00	53.22	0.9140624	0.972873		6.4	20
2,4,6-Tribromophenol	A	100.0	106.8	0.1246814	0.1331042		6.8	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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L36207	Injection Date:	12/23/11
Lab Sample ID:	1L36207-CCV1	Injection Time:	10:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	48.63	1.145857	1.114513		-2.7	20
Acenaphthylene	A	50.00	49.78	1.694109	1.686653		-0.4	20
Acetophenone	A	50.00	50.68	1.744882	1.768563		1.4	20
Anthracene	A	50.00	47.82	1.183968	1.132405		-4.4	20
Atrazine	A	50.00	46.19	0.2166305	0.2001127		-7.6	20
Benzaldehyde	A	50.00	36.34	0.945833	0.6874276		-27.3	20 *
Benzidine	A	50.00	63.00	0.5231718	0.6591551		26.0	20 *
Benzo(a)anthracene	A	50.00	48.24	1.229218	1.186079		-3.5	20
Benzo(a)pyrene	A	50.00	49.56	1.144065	1.133921		-0.9	20
Benzo(b)fluoranthene	A	50.00	52.30	1.269211	1.327531		4.6	20
Benzo(g,h,i)perylene	A	50.00	54.96	0.7632822	0.8389794		9.9	20
Benzoic acid	L	50.00	65.05	0.1773326	0.2735411		30.1	20 *
Benzo(k)fluoranthene	A	50.00	45.98	1.331605	1.224511		-8.0	20
1,1-Biphenyl	A	50.00	45.70	1.442237	1.318264		-8.6	20
4-Bromophenyl-phenylether	A	50.00	46.97	0.2495274	0.234407		-6.1	20
Butylbenzylphthalate	A	50.00	51.88	0.5363847	0.5565063		3.8	20
Caprolactam	A	50.00	58.58	9.751088E-02	0.1142484		17.2	20
Carbazole	A	50.00	51.31	1.022895	1.049617		2.6	20
4-Chloro-3-methylphenol	A	50.00	55.74	0.2945689	0.3283603		11.5	20
4-Chloroaniline	A	50.00	51.23	0.4237123	0.4341347		2.5	20
Bis(2-chloroethoxy)methane	A	50.00	50.40	0.4139789	0.4173279		0.8	20
Bis(2-chloroethyl)ether	A	50.00	49.51	1.313329	1.300489		-1.0	20
2,2'-Oxybis-1-chloropropane	A	50.00	41.54	1.478108	1.227979		-16.9	20
2-Chloronaphthalene	A	50.00	47.28	1.165495	1.102004		-5.4	20
2-Chlorophenol	A	50.00	49.16	1.399401	1.375869		-1.7	20
4-Chlorophenyl phenyl ether	A	50.00	47.46	0.6306217	0.5986104		-5.1	20
Chrysene	A	50.00	48.13	1.159954	1.116628		-3.7	20
Dibenz(a,h)anthracene	A	50.00	54.82	0.812469	0.8908322		9.6	20
Dibenzofuran	A	50.00	47.76	1.645272	1.571641		-4.5	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L36207	Injection Date:	12/23/11
Lab Sample ID:	1L36207-CCV1	Injection Time:	10:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	52.11	1.193812	1.244234		4.2	20
3,3'-Dichlorobenzidine	A	50.00	59.79	0.3499332	0.4184643		19.6	20
2,4-Dichlorophenol	A	50.00	52.07	0.3110164	0.3239224		4.1	20
Diethylphthalate	A	50.00	51.96	1.172194	1.218281		3.9	20
2,4-Dimethylphenol	A	50.00	56.20	0.3392223	0.3813082		12.4	20
Dimethyl phthalate	A	50.00	51.28	1.228484	1.260031		2.6	20
4,6-Dinitro-2-methylphenol	L	50.00	65.16	0.107816	0.1558316		30.3	20 *
2,4-Dinitrophenol	L	50.00	65.38	0.1166114	0.186859	0.05	30.8	20 *
2,4-Dinitrotoluene	A	50.00	59.16	0.3508857	0.4151617		18.3	20
2,6-Dinitrotoluene	A	50.00	58.09	0.2559554	0.2973517		16.2	20
Di-n-octylphthalate	A	50.00	50.37	1.414908	1.425438		0.7	20
1,2-Diphenylhydrazine	A	50.00	45.36	0.8636662	0.7835697		-9.3	20
Bis(2-ethylhexyl)phthalate	A	50.00	51.17	0.7279319	0.7449532		2.3	20
Fluoranthene	A	50.00	47.83	1.291625	1.235527		-4.3	20
Fluorene	A	50.00	47.37	1.375504	1.303181		-5.3	20
Hexachlorobenzene	A	50.00	49.38	0.2657319	0.2624498		-1.2	20
Hexachlorobutadiene	A	50.00	47.63	0.2033113	0.1936789		-4.7	20
Hexachlorocyclopentadiene	A	50.00	74.68	0.208345	0.3112	0.05	49.4	20 *
Hexachloroethane	A	50.00	57.64	0.4782842	0.5513527		15.3	20
Indeno(1,2,3-cd)pyrene	A	50.00	56.49	0.7966651	0.900126		13.0	20
Isophorone	A	50.00	50.33	0.7084717	0.7132144		0.7	20
1-Methylnaphthalene	A	50.00	47.23	0.6042561	0.5708172		-5.5	20
2-Methylnaphthalene	A	50.00	46.99	0.6157446	0.5787237		-6.0	20
2-Methylphenol	A	50.00	52.44	1.231378	1.291556		4.9	20
3-Methylphenol/4-Methylphenol	A	50.00	52.91	1.234251	1.306115		5.8	20
Naphthalene	A	50.00	48.83	1.07063	1.04567		-2.3	20
4-Nitroaniline	L	50.00	53.68	0.2496123	0.3087197		7.4	20
3-Nitroaniline	A	50.00	57.79	0.2941367	0.3399546		15.6	20
2-Nitroaniline	A	50.00	59.43	0.2764678	0.3286148		18.9	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L36207	Injection Date:	12/23/11
Lab Sample ID:	1L36207-CCV1	Injection Time:	10:03

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Nitrobenzene	A	50.00	58.16	0.3300785	0.3839836		16.3	20
4-Nitrophenol	A	50.00	58.15	0.2082154	0.2421435	0.05	16.3	20
2-Nitrophenol	A	50.00	77.62	0.130265	0.2022375		55.3	20 *
N-Nitrosodiphenylamine	A	50.00	49.04	0.7200827	0.706248		-1.9	20
N-Nitroso-di-n-propylamine	A	50.00	49.31	0.9544526	0.9412221	0.05	-1.4	20
Pentachlorophenol	A	50.00	58.03	0.1563842	0.1814965		16.1	20
Phenanthrene	A	50.00	47.78	1.163961	1.112254		-4.4	20
Phenol	A	50.00	54.42	1.653174	1.79949		8.9	20
Pyrene	A	50.00	46.54	1.360578	1.266478		-6.9	20
2,4,6-Trichlorophenol	A	50.00	52.87	0.3739373	0.3954138		5.7	20
2,4,5-Trichlorophenol	A	50.00	54.75	0.3850025	0.4215876		9.5	20
2-Fluorobiphenyl	A	50.00	47.12	1.406044	1.325143		-5.8	20
2-Fluorophenol	A	100.0	98.14	1.255912	1.232513		-1.9	20
Nitrobenzene-d5	A	50.00	57.62	0.3480414	0.4010515		15.2	20
Phenol-d6	A	100.0	103.2	1.584009	1.634246		3.2	20
Terphenyl-d14	A	50.00	44.59	0.9140624	0.8151373		-10.8	20
2,4,6-Tribromophenol	A	100.0	106.7	0.1246814	0.1330036		6.7	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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L36407	Injection Date:	12/29/11
Lab Sample ID:	1L36407-CCV1	Injection Time:	14:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	50.41	1.145857	1.155208		0.8	20
Acenaphthylene	A	50.00	53.38	1.694109	1.808787		6.8	20
Acetophenone	A	50.00	53.81	1.744882	1.877873		7.6	20
Anthracene	A	50.00	50.38	1.183968	1.193084		0.8	20
Atrazine	A	50.00	52.92	0.2166305	0.2292832		5.8	20
Benzaldehyde	A	50.00	38.53	0.945833	0.7288115		-22.9	20 *
Benzidine	A	50.00	63.15	0.5231718	0.6607438		26.3	20 *
Benzo(a)anthracene	A	50.00	51.85	1.229218	1.274721		3.7	20
Benzo(a)pyrene	A	50.00	52.94	1.144065	1.211286		5.9	20
Benzo(b)fluoranthene	A	50.00	56.01	1.269211	1.421776		12.0	20
Benzo(g,h,i)perylene	A	50.00	48.63	0.7632822	0.7424248		-2.7	20
Benzoic acid	L	50.00	57.71	0.1773326	0.2401428		15.4	20
Benzo(k)fluoranthene	A	50.00	56.89	1.331605	1.515222		13.8	20
1,1-Biphenyl	A	50.00	50.52	1.442237	1.457406		1.1	20
4-Bromophenyl-phenylether	A	50.00	50.22	0.2495274	0.2506457		0.4	20
Butylbenzylphthalate	A	50.00	65.08	0.5363847	0.6982162		30.2	20 *
Caprolactam	A	50.00	58.32	9.751088E-02	0.1137394		16.6	20
Carbazole	A	50.00	49.70	1.022895	1.016691		-0.6	20
4-Chloro-3-methylphenol	A	50.00	55.94	0.2945689	0.3295984		11.9	20
4-Chloroaniline	A	50.00	52.73	0.4237123	0.4468575		5.5	20
Bis(2-chloroethoxy)methane	A	50.00	51.46	0.4139789	0.4260514		2.9	20
Bis(2-chloroethyl)ether	A	50.00	50.71	1.313329	1.331915		1.4	20
2,2'-Oxybis-1-chloropropane	A	50.00	42.30	1.478108	1.250458		-15.4	20
2-Chloronaphthalene	A	50.00	51.58	1.165495	1.202288		3.2	20
2-Chlorophenol	A	50.00	51.50	1.399401	1.441398		3.0	20
4-Chlorophenyl phenyl ether	A	50.00	50.84	0.6306217	0.6412572		1.7	20
Chrysene	A	50.00	50.30	1.159954	1.166949		0.6	20
Dibenz(a,h)anthracene	A	50.00	49.82	0.812469	0.809513		-0.4	20
Dibenzofuran	A	50.00	50.85	1.645272	1.673267		1.7	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L36407	Injection Date:	12/29/11
Lab Sample ID:	1L36407-CCV1	Injection Time:	14:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	55.19	1.193812	1.3178		10.4	20
3,3'-Dichlorobenzidine	A	50.00	44.94	0.3499332	0.3145471		-10.1	20
2,4-Dichlorophenol	A	50.00	53.11	0.3110164	0.3303635		6.2	20
Diethylphthalate	A	50.00	55.78	1.172194	1.307654		11.6	20
2,4-Dimethylphenol	A	50.00	57.52	0.3392223	0.390235		15.0	20
Dimethyl phthalate	A	50.00	54.18	1.228484	1.331221		8.4	20
4,6-Dinitro-2-methylphenol	L	50.00	65.56	0.107816	0.156847		31.1	20 *
2,4-Dinitrophenol	L	50.00	60.16	0.1166114	0.1704201	0.05	20.3	20 *
2,4-Dinitrotoluene	A	50.00	61.45	0.3508857	0.4312474		22.9	20 *
2,6-Dinitrotoluene	A	50.00	61.87	0.2559554	0.3167347		23.7	20 *
Di-n-octylphthalate	A	50.00	77.38	1.414908	2.189861		54.8	20 *
1,2-Diphenylhydrazine	A	50.00	46.96	0.8636662	0.8112533		-6.1	20
Bis(2-ethylhexyl)phthalate	A	50.00	63.38	0.7279319	0.9226779		26.8	20 *
Fluoranthene	A	50.00	47.77	1.291625	1.233985		-4.5	20
Fluorene	A	50.00	49.46	1.375504	1.360669		-1.1	20
Hexachlorobenzene	A	50.00	52.20	0.2657319	0.2774279		4.4	20
Hexachlorobutadiene	A	50.00	50.65	0.2033113	0.2059639		1.3	20
Hexachlorocyclopentadiene	A	50.00	75.85	0.208345	0.3160545	0.05	51.7	20 *
Hexachloroethane	A	50.00	60.53	0.4782842	0.578996		21.1	20 *
Indeno(1,2,3-cd)pyrene	A	50.00	49.94	0.7966651	0.795764		-0.1	20
Isophorone	A	50.00	50.99	0.7084717	0.7225003		2.0	20
1-Methylnaphthalene	A	50.00	48.41	0.6042561	0.5849995		-3.2	20
2-Methylnaphthalene	A	50.00	48.71	0.6157446	0.5998175		-2.6	20
2-Methylphenol	A	50.00	52.90	1.231378	1.302881		5.8	20
3-Methylphenol/4-Methylphenol	A	50.00	54.78	1.234251	1.352384		9.6	20
Naphthalene	A	50.00	50.33	1.07063	1.077765		0.7	20
4-Nitroaniline	L	50.00	50.51	0.2496123	0.288428		1.0	20
3-Nitroaniline	A	50.00	57.74	0.2941367	0.3396921		15.5	20
2-Nitroaniline	A	50.00	61.09	0.2764678	0.3377974		22.2	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L36407	Injection Date:	12/29/11
Lab Sample ID:	1L36407-CCV1	Injection Time:	14:20

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Nitrobenzene	A	50.00	59.07	0.3300785	0.3899303		18.1	20
4-Nitrophenol	A	50.00	53.69	0.2082154	0.2235817	0.05	7.4	20
2-Nitrophenol	A	50.00	82.18	0.130265	0.2140981		64.4	20 *
N-Nitrosodiphenylamine	A	50.00	52.66	0.7200827	0.7584331		5.3	20
N-Nitroso-di-n-propylamine	A	50.00	50.87	0.9544526	0.9711121	0.05	1.7	20
Pentachlorophenol	A	50.00	56.37	0.1563842	0.1763117		12.7	20
Phenanthrene	A	50.00	50.16	1.163961	1.167763		0.3	20
Phenol	A	50.00	56.53	1.653174	1.868975		13.1	20
Pyrene	A	50.00	62.40	1.360578	1.697883		24.8	20 *
2,4,6-Trichlorophenol	A	50.00	55.86	0.3739373	0.4177713		11.7	20
2,4,5-Trichlorophenol	A	50.00	58.24	0.3850025	0.4484214		16.5	20
2-Fluorobiphenyl	A	50.00	50.94	1.406044	1.432565		1.9	20
2-Fluorophenol	A	100.0	101.8	1.255912	1.278752		1.8	20
Nitrobenzene-d5	A	50.00	58.62	0.3480414	0.408036		17.2	20
Phenol-d6	A	100.0	106.0	1.584009	1.679955		6.1	20
Terphenyl-d14	A	50.00	59.45	0.9140624	1.086874		18.9	20
2,4,6-Tribromophenol	A	100.0	113.1	0.1246814	0.141051		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

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L36501	Injection Date:	12/30/11
Lab Sample ID:	1L36501-CCV1	Injection Time:	14:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	50.00	50.50	1.145857	1.157374		1.0	20	
Acenaphthylene	A	50.00	53.42	1.694109	1.809858		6.8	20	
Acetophenone	A	50.00	53.69	1.744882	1.87365		7.4	20	
Anthracene	A	50.00	50.25	1.183968	1.189887		0.5	20	
Atrazine	A	50.00	49.08	0.2166305	0.2126386		-1.8	20	
Benzaldehyde	A	50.00	34.87	0.945833	0.6595795		-30.3	20	*
Benzidine	A	50.00	61.06	0.5231718	0.638944		22.1	20	*
Benzo(a)anthracene	A	50.00	51.35	1.229218	1.262442		2.7	20	
Benzo(a)pyrene	A	50.00	54.22	1.144065	1.240624		8.4	20	
Benzo(b)fluoranthene	A	50.00	57.50	1.269211	1.459642		15.0	20	
Benzo(g,h,i)perylene	A	50.00	52.91	0.7632822	0.8077667		5.8	20	
Benzoic acid	L	50.00	63.04	0.1773326	0.2644154		26.1	20	*
Benzo(k)fluoranthene	A	50.00	54.27	1.331605	1.445374		8.5	20	
1,1-Biphenyl	A	50.00	49.96	1.442237	1.441184		-0.07	20	
4-Bromophenyl-phenylether	A	50.00	51.40	0.2495274	0.2565189		2.8	20	
Butylbenzylphthalate	A	50.00	59.02	0.5363847	0.6331386		18.0	20	
Caprolactam	A	50.00	54.20	9.751088E-02	0.1057114		8.4	20	
Carbazole	A	50.00	52.12	1.022895	1.066199		4.2	20	
4-Chloro-3-methylphenol	A	50.00	55.65	0.2945689	0.3278712		11.3	20	
4-Chloroaniline	A	50.00	53.63	0.4237123	0.4544973		7.3	20	
Bis(2-chloroethoxy)methane	A	50.00	50.42	0.4139789	0.4174378		0.8	20	
Bis(2-chloroethyl)ether	A	50.00	49.24	1.313329	1.293469		-1.5	20	
2,2'-Oxybis-1-chloropropane	A	50.00	40.32	1.478108	1.192047		-19.4	20	
2-Chloronaphthalene	A	50.00	52.72	1.165495	1.228948		5.4	20	
2-Chlorophenol	A	50.00	51.52	1.399401	1.441827		3.0	20	
4-Chlorophenyl phenyl ether	A	50.00	50.28	0.6306217	0.6341082		0.6	20	
Chrysene	A	50.00	50.04	1.159954	1.160831		0.08	20	
Dibenz(a,h)anthracene	A	50.00	54.45	0.812469	0.8847167		8.9	20	
Dibenzofuran	A	50.00	50.30	1.645272	1.655242		0.6	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L36501	Injection Date:	12/30/11
Lab Sample ID:	1L36501-CCV1	Injection Time:	14:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Di-n-butylphthalate	A	50.00	52.90	1.193812	1.263178		5.8	20	
3,3'-Dichlorobenzidine	A	50.00	58.44	0.3499332	0.4090433		16.9	20	
2,4-Dichlorophenol	A	50.00	54.10	0.3110164	0.3365199		8.2	20	
Diethylphthalate	A	50.00	51.75	1.172194	1.21313		3.5	20	
2,4-Dimethylphenol	A	50.00	58.04	0.3392223	0.3937966		16.1	20	
Dimethyl phthalate	A	50.00	51.45	1.228484	1.26404		2.9	20	
4,6-Dinitro-2-methylphenol	L	50.00	65.78	0.107816	0.1573748		31.6	20	*
2,4-Dinitrophenol	L	50.00	63.49	0.1166114	0.1809161	0.05	27.0	20	*
2,4-Dinitrotoluene	A	50.00	58.76	0.3508857	0.412328		17.5	20	
2,6-Dinitrotoluene	A	50.00	58.87	0.2559554	0.3013755		17.7	20	
Di-n-octylphthalate	A	50.00	67.40	1.414908	1.907232		34.8	20	*
1,2-Diphenylhydrazine	A	50.00	48.00	0.8636662	0.8290999		-4.0	20	
Bis(2-ethylhexyl)phthalate	A	50.00	57.64	0.7279319	0.8391826		15.3	20	
Fluoranthene	A	50.00	48.88	1.291625	1.262614		-2.2	20	
Fluorene	A	50.00	49.63	1.375504	1.36534		-0.7	20	
Hexachlorobenzene	A	50.00	52.26	0.2657319	0.2777728		4.5	20	
Hexachlorobutadiene	A	50.00	51.98	0.2033113	0.2113855		4.0	20	
Hexachlorocyclopentadiene	A	50.00	89.27	0.208345	0.3719994	0.05	78.5	20	*
Hexachloroethane	A	50.00	60.85	0.4782842	0.5820975		21.7	20	*
Indeno(1,2,3-cd)pyrene	A	50.00	52.80	0.7966651	0.8412717		5.6	20	
Isophorone	A	50.00	50.26	0.7084717	0.7121338		0.5	20	
1-Methylnaphthalene	A	50.00	48.29	0.6042561	0.5835884		-3.4	20	
2-Methylnaphthalene	A	50.00	48.23	0.6157446	0.5939605		-3.5	20	
2-Methylphenol	A	50.00	51.96	1.231378	1.279601		3.9	20	
3-Methylphenol/4-Methylphenol	A	50.00	54.45	1.234251	1.344174		8.9	20	
Naphthalene	A	50.00	50.62	1.07063	1.083981		1.2	20	
4-Nitroaniline	L	50.00	46.78	0.2496123	0.2645645		-6.4	20	
3-Nitroaniline	A	50.00	57.30	0.2941367	0.3371078		14.6	20	
2-Nitroaniline	A	50.00	59.43	0.2764678	0.3286014		18.9	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	1L36501	Injection Date:	12/30/11
Lab Sample ID:	1L36501-CCV1	Injection Time:	14:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Nitrobenzene	A	50.00	60.73	0.3300785	0.4008955		21.5	20 *
4-Nitrophenol	A	50.00	50.29	0.2082154	0.2094117	0.05	0.6	20
2-Nitrophenol	A	50.00	83.06	0.130265	0.2164092		66.1	20 *
N-Nitrosodiphenylamine	A	50.00	52.32	0.7200827	0.7534513		4.6	20
N-Nitroso-di-n-propylamine	A	50.00	49.39	0.9544526	0.9427814	0.05	-1.2	20
Pentachlorophenol	A	50.00	56.59	0.1563842	0.1769957		13.2	20
Phenanthrene	A	50.00	49.86	1.163961	1.1606		-0.3	20
Phenol	A	50.00	56.77	1.653174	1.877119		13.5	20
Pyrene	A	50.00	53.20	1.360578	1.447752		6.4	20
2,4,6-Trichlorophenol	A	50.00	57.17	0.3739373	0.4275933		14.3	20
2,4,5-Trichlorophenol	A	50.00	56.95	0.3850025	0.4385159		13.9	20
2-Fluorobiphenyl	A	50.00	50.48	1.406044	1.419708		1.0	20
2-Fluorophenol	A	100.0	102.2	1.255912	1.283344		2.2	20
Nitrobenzene-d5	A	50.00	59.54	0.3480414	0.4144259		19.1	20
Phenol-d6	A	100.0	105.8	1.584009	1.67648		5.8	20
Terphenyl-d14	A	50.00	50.56	0.9140624	0.9242954		1.1	20
2,4,6-Tribromophenol	A	100.0	113.0	0.1246814	0.1409085		13.0	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	2A00411	Injection Date:	12/31/11
Lab Sample ID:	2A00411-CCV1	Injection Time:	10:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	50.00	50.76	1.145857	1.163227		1.5	20
Acenaphthylene	A	50.00	53.27	1.694109	1.804808		6.5	20
Acetophenone	A	50.00	56.09	1.744882	1.957379		12.2	20
Anthracene	A	50.00	49.95	1.183968	1.182778		-0.1	20
Atrazine	A	50.00	48.56	0.2166305	0.2103791		-2.9	20
Benzaldehyde	A	50.00	34.70	0.945833	0.6564618		-30.6	20 *
Benzidine	A	50.00	66.12	0.5231718	0.6918363		32.2	20 *
Benzo(a)anthracene	A	50.00	51.26	1.229218	1.260263		2.5	20
Benzo(a)pyrene	A	50.00	53.18	1.144065	1.216724		6.4	20
Benzo(b)fluoranthene	A	50.00	68.85	1.269211	1.747744		37.7	20 *
Benzo(g,h,i)perylene	A	50.00	52.69	0.7632822	0.8043346		5.4	20
Benzoic acid	L	50.00	66.55	0.1773326	0.2803943		33.1	20 *
Benzo(k)fluoranthene	A	50.00	43.47	1.331605	1.157632		-13.1	20
1,1-Biphenyl	A	50.00	47.94	1.442237	1.38298		-4.1	20
4-Bromophenyl-phenylether	A	50.00	48.35	0.2495274	0.2413139		-3.3	20
Butylbenzylphthalate	A	50.00	57.26	0.5363847	0.6142787		14.5	20
Caprolactam	A	50.00	58.03	9.751088E-02	0.1131807		16.1	20
Carbazole	A	50.00	52.46	1.022895	1.073223		4.9	20
4-Chloro-3-methylphenol	A	50.00	57.15	0.2945689	0.336716		14.3	20
4-Chloroaniline	A	50.00	54.64	0.4237123	0.4630216		9.3	20
Bis(2-chloroethoxy)methane	A	50.00	51.47	0.4139789	0.4261317		2.9	20
Bis(2-chloroethyl)ether	A	50.00	51.60	1.313329	1.355511		3.2	20
2,2'-Oxybis-1-chloropropane	A	50.00	42.52	1.478108	1.256853		-15.0	20
2-Chloronaphthalene	A	50.00	50.93	1.165495	1.187195		1.9	20
2-Chlorophenol	A	50.00	52.85	1.399401	1.479303		5.7	20
4-Chlorophenyl phenyl ether	A	50.00	49.94	0.6306217	0.6298919		-0.1	20
Chrysene	A	50.00	50.47	1.159954	1.170963		0.9	20
Dibenz(a,h)anthracene	A	50.00	54.63	0.812469	0.8876568		9.3	20
Dibenzofuran	A	50.00	50.09	1.645272	1.648203		0.2	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	2A00411	Injection Date:	12/31/11
Lab Sample ID:	2A00411-CCV1	Injection Time:	10:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Di-n-butylphthalate	A	50.00	54.62	1.193812	1.304007		9.2	20
3,3'-Dichlorobenzidine	A	50.00	62.14	0.3499332	0.4348807		24.3	20 *
2,4-Dichlorophenol	A	50.00	53.64	0.3110164	0.3336813		7.3	20
Diethylphthalate	A	50.00	55.21	1.172194	1.294396		10.4	20
2,4-Dimethylphenol	A	50.00	57.74	0.3392223	0.391717		15.5	20
Dimethyl phthalate	A	50.00	53.98	1.228484	1.326391		8.0	20
4,6-Dinitro-2-methylphenol	L	50.00	71.70	0.107816	0.1722041		43.4	20 *
2,4-Dinitrophenol	L	50.00	73.81	0.1166114	0.2134076	0.05	47.6	20 *
2,4-Dinitrotoluene	A	50.00	63.72	0.3508857	0.4472056		27.5	20 *
2,6-Dinitrotoluene	A	50.00	61.86	0.2559554	0.316696		23.7	20 *
Di-n-octylphthalate	A	50.00	58.36	1.414908	1.651422		16.7	20
1,2-Diphenylhydrazine	A	50.00	51.25	0.8636662	0.8852267		2.5	20
Bis(2-ethylhexyl)phthalate	A	50.00	56.32	0.7279319	0.8198946		12.6	20
Fluoranthene	A	50.00	49.28	1.291625	1.273075		-1.4	20
Fluorene	A	50.00	50.19	1.375504	1.380645		0.4	20
Hexachlorobenzene	A	50.00	51.43	0.2657319	0.2733348		2.9	20
Hexachlorobutadiene	A	50.00	50.29	0.2033113	0.2044827		0.6	20
Hexachlorocyclopentadiene	A	50.00	82.20	0.208345	0.3425315	0.05	64.4	20 *
Hexachloroethane	A	50.00	62.80	0.4782842	0.6006968		25.6	20 *
Indeno(1,2,3-cd)pyrene	A	50.00	57.00	0.7966651	0.90823		14.0	20
Isophorone	A	50.00	51.44	0.7084717	0.7289178		2.9	20
1-Methylnaphthalene	A	50.00	48.89	0.6042561	0.5908572		-2.2	20
2-Methylnaphthalene	A	50.00	49.41	0.6157446	0.6084659		-1.2	20
2-Methylphenol	A	50.00	55.56	1.231378	1.368265		11.1	20
3-Methylphenol/4-Methylphenol	A	50.00	57.05	1.234251	1.408364		14.1	20
Naphthalene	A	50.00	50.15	1.07063	1.073793		0.3	20
4-Nitroaniline	L	50.00	55.61	0.2496123	0.3210755		11.2	20
3-Nitroaniline	A	50.00	60.30	0.2941367	0.3547603		20.6	20 *
2-Nitroaniline	A	50.00	61.16	0.2764678	0.3381719		22.3	20 *

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA3	Calibration:	1355004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	12/16/11 00:00
Sequence:	2A00411	Injection Date:	12/31/11
Lab Sample ID:	2A00411-CCV1	Injection Time:	10:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Nitrobenzene	A	50.00	58.91	0.3300785	0.3888934		17.8	20
4-Nitrophenol	A	50.00	61.92	0.2082154	0.2578664	0.05	23.8	20 *
2-Nitrophenol	A	50.00	82.42	0.130265	0.2147291		64.8	20 *
N-Nitrosodiphenylamine	A	50.00	50.76	0.7200827	0.7310885		1.5	20
N-Nitroso-di-n-propylamine	A	50.00	52.97	0.9544526	1.011139	0.05	5.9	20
Pentachlorophenol	A	50.00	59.55	0.1563842	0.1862619		19.1	20
Phenanthrene	A	50.00	49.81	1.163961	1.159648		-0.4	20
Phenol	A	50.00	57.46	1.653174	1.900014		14.9	20
Pyrene	A	50.00	50.39	1.360578	1.371235		0.8	20
2,4,6-Trichlorophenol	A	50.00	56.66	0.3739373	0.4237707		13.3	20
2,4,5-Trichlorophenol	A	50.00	58.64	0.3850025	0.4515051		17.3	20
2-Fluorobiphenyl	A	50.00	49.53	1.406044	1.392741		-0.9	20
2-Fluorophenol	A	100.0	102.3	1.255912	1.285316		2.3	20
Nitrobenzene-d5	A	50.00	58.51	0.3480414	0.4072678		17.0	20
Phenol-d6	A	100.0	107.1	1.584009	1.695963		7.1	20
Terphenyl-d14	A	50.00	48.15	0.9140624	0.8802912		-3.7	20
2,4,6-Tribromophenol	A	100.0	109.2	0.1246814	0.1361427		9.2	20

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

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L15003-BLK1 File ID: L15003B1.D

Sampled: Prepared: Analyzed: 12/22/11 21:01

Solids: Preparation: EXT_3510 Dilution:

Batch: 1L15003 Sequence: 1L35703 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	X, U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	Q, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	Q, X, U
51-28-5	2,4-Dinitrophenol		1.00	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	X, 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_039

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

Matrix: Laboratory ID: 1L15003-BLK1 File ID: L15003B1.D

Sampled: Prepared: Analyzed: 12/22/11 21:01

Solids: Preparation: EXT_3510 Dilution:

Batch: 1L15003 Sequence: 1L35703 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	X, U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
108-39-4/106	3-Methylphenol/4-Methylphenol		1.25	2.50	5.00	U
91-20-3	Naphthalene		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	Q, X, 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	X, Q, U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	35.21	70.4	50 - 110	
2-Fluorophenol	100.0	29.98	30.0	20 - 110	
Nitrobenzene-d5	50.00	40.20	80.4	40 - 110	
Phenol-d6	100.0	18.06	18.1	0 - 110	
Terphenyl-d14	50.00	51.06	102	50 - 135	
2,4,6-Tribromophenol	100.0	88.86	88.9	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_039

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

Matrix: | Laboratory ID: 1L15003-BS1 | File ID: L15003L1.D

Sampled: | Prepared: | Analyzed: 12/22/11 21:33

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1L15003 | Sequence: 1L35703 | Calibration: 1355004 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	44.58	1.25	2.50	5.00	
208-96-8	Acenaphthylene	42.70	1.25	2.50	5.00	
98-86-2	Acetophenone	46.17	1.25	2.50	5.00	
120-12-7	Anthracene	45.43	1.25	2.50	5.00	
1912-24-9	Atrazine	51.45	1.25	2.50	5.00	
100-52-7	Benzaldehyde	49.47	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	46.80	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	46.00	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	49.08	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	46.56	1.25	2.50	5.00	
65-85-0	Benzoic acid	22.10	12.5	25.0	50.0	X, J
207-08-9	Benzo(k)fluoranthene	49.62	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	44.26	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	53.32	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	64.54	1.25	2.50	5.00	
105-60-2	Caprolactam	9.269	1.25	2.50	5.00	
86-74-8	Carbazole	48.90	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	89.57	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	35.90	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	51.49	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	46.49	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	48.21	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	44.82	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	71.79	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	45.65	1.25	2.50	5.00	
218-01-9	Chrysene	48.12	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	47.60	1.25	2.50	5.00	
132-64-9	Dibenzofuran	46.86	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	53.12	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	51.67	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	86.54	1.25	2.50	5.00	
84-66-2	Diethylphthalate	52.74	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	93.45	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	53.85	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	137.9	5.00	10.0	20.0	X, E
51-28-5	2,4-Dinitrophenol	129.8	1.00	25.0	50.0	X, E
121-14-2	2,4-Dinitrotoluene	58.91	1.25	2.50	5.00	X
606-20-2	2,6-Dinitrotoluene	57.09	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	68.37	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_039

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

Matrix: | Laboratory ID: 1L15003-BS1 | File ID: L15003L1.D

Sampled: | Prepared: | Analyzed: 12/22/11 21:33

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1L15003 | Sequence: 1L35703 | Calibration: 1355004 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	48.85	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	60.29	1.25	2.50	5.00	
206-44-0	Fluoranthene	42.44	1.25	2.50	5.00	
86-73-7	Fluorene	44.04	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	48.92	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	34.98	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	49.95	1.25	2.50	5.00	X
67-72-1	Hexachloroethane	35.93	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	46.56	1.25	2.50	5.00	
78-59-1	Isophorone	46.24	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	40.50	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	41.15	1.25	2.50	5.00	
95-48-7	2-Methylphenol	64.80	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	60.94	1.25	2.50	5.00	
91-20-3	Naphthalene	39.21	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	48.18	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	38.89	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	58.63	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	54.12	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	34.49	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	138.0	1.25	2.50	5.00	X, E
86-30-6	N-Nitrosodiphenylamine	40.87	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	50.46	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	114.9	5.00	10.0	20.0	E
85-01-8	Phenanthrene	46.99	1.25	2.50	5.00	
108-95-2	Phenol	27.58	1.25	2.50	5.00	
129-00-0	Pyrene	54.96	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	97.22	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	101.3	1.25	2.50	5.00	E

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	42.49	85.0	50 - 110	
2-Fluorophenol	100.0	40.52	40.5	20 - 110	
Nitrobenzene-d5	50.00	50.25	100	40 - 110	
Phenol-d6	100.0	24.24	24.2	0 - 110	
Terphenyl-d14	50.00	52.70	105	50 - 135	
2,4,6-Tribromophenol	100.0	100.7	101	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L15003-BSD1 File ID: L15003L2.D

Sampled: Prepared: Analyzed: 12/22/11 22:04

Solids: Preparation: EXT_3510 Dilution:

Batch: 1L15003 Sequence: 1L35703 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	39.55	1.25	2.50	5.00	
208-96-8	Acenaphthylene	38.08	1.25	2.50	5.00	
98-86-2	Acetophenone	39.60	1.25	2.50	5.00	
120-12-7	Anthracene	40.04	1.25	2.50	5.00	
1912-24-9	Atrazine	44.55	1.25	2.50	5.00	
100-52-7	Benzaldehyde	43.49	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	41.35	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	40.51	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	46.21	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	39.97	1.25	2.50	5.00	
65-85-0	Benzoic acid	21.13	12.5	25.0	50.0	X, J
207-08-9	Benzo(k)fluoranthene	45.04	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	40.69	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	48.43	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	56.39	1.25	2.50	5.00	
105-60-2	Caprolactam	8.034	1.25	2.50	5.00	
86-74-8	Carbazole	40.95	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	76.88	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	30.37	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	44.65	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	40.34	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	41.08	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	40.42	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	63.51	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	39.76	1.25	2.50	5.00	
218-01-9	Chrysene	42.52	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	41.05	1.25	2.50	5.00	
132-64-9	Dibenzofuran	40.46	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	44.43	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	43.15	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	76.92	1.25	2.50	5.00	
84-66-2	Diethylphthalate	44.84	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	82.32	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	47.74	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	121.5	5.00	10.0	20.0	X, E
51-28-5	2,4-Dinitrophenol	103.1	1.00	25.0	50.0	X, E
121-14-2	2,4-Dinitrotoluene	49.07	1.25	2.50	5.00	X
606-20-2	2,6-Dinitrotoluene	51.13	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	62.64	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_039

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

Matrix: | Laboratory ID: 1L15003-BSD1 | File ID: L15003L2.D

Sampled: | Prepared: | Analyzed: 12/22/11 22:04

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1L15003 | Sequence: 1L35703 | Calibration: 1355004 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	43.33	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	51.52	1.25	2.50	5.00	
206-44-0	Fluoranthene	34.73	1.25	2.50	5.00	
86-73-7	Fluorene	37.60	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	43.46	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	32.15	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	40.88	1.25	2.50	5.00	X
67-72-1	Hexachloroethane	32.31	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	40.33	1.25	2.50	5.00	
78-59-1	Isophorone	40.70	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	34.86	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	35.61	1.25	2.50	5.00	
95-48-7	2-Methylphenol	56.77	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	52.82	1.25	2.50	5.00	
91-20-3	Naphthalene	34.74	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	39.03	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	30.92	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	51.69	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	48.57	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	28.36	5.00	10.0	20.0	
88-75-5	2-Nitrophenol	124.4	1.25	2.50	5.00	X, E
86-30-6	N-Nitrosodiphenylamine	38.84	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	43.04	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	96.60	5.00	10.0	20.0	
85-01-8	Phenanthrene	41.38	1.25	2.50	5.00	
108-95-2	Phenol	24.92	1.25	2.50	5.00	
129-00-0	Pyrene	50.24	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	89.86	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	91.91	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	39.12	78.2	50 - 110	
2-Fluorophenol	100.0	36.73	36.7	20 - 110	
Nitrobenzene-d5	50.00	45.65	91.3	40 - 110	
Phenol-d6	100.0	22.08	22.1	0 - 110	
Terphenyl-d14	50.00	48.48	97.0	50 - 135	
2,4,6-Tribromophenol	100.0	91.57	91.6	40 - 125	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L16001-BLK1 File ID: L16001B1.D

Sampled: Prepared: Analyzed: 12/30/11 19:56

Solids: Preparation: EXT_3510 Dilution:

Batch: 1L16001 Sequence: 1L36501 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	X, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	X, U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	X, U
51-28-5	2,4-Dinitrophenol		1.00	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	X, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L16001-BLK1 File ID: L16001B1.D

Sampled: Prepared: Analyzed: 12/30/11 19:56

Solids: Preparation: EXT_3510 Dilution:

Batch: 1L16001 Sequence: 1L36501 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	X, U
67-72-1	Hexachloroethane		1.25	2.50	5.00	X, 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
91-20-3	Naphthalene		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	X, U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	X, 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	31.92	63.8	50 - 110	
2-Fluorophenol	100.0	23.29	23.3	20 - 110	
Nitrobenzene-d5	50.00	36.89	73.8	40 - 110	
Phenol-d6	100.0	13.90	13.9	0 - 110	
Terphenyl-d14	50.00	36.90	73.8	50 - 135	
2,4,6-Tribromophenol	100.0	58.10	58.1	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_039

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

Matrix: | Laboratory ID: 1L16001-BS1 | File ID: L16001L1.D

Sampled: | Prepared: | Analyzed: 12/29/11 15:23

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1L16001 | Sequence: 1L36407 | Calibration: 1355004 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	33.43	1.25	2.50	5.00	
208-96-8	Acenaphthylene	32.05	1.25	2.50	5.00	
98-86-2	Acetophenone	34.17	1.25	2.50	5.00	
120-12-7	Anthracene	33.85	1.25	2.50	5.00	
1912-24-9	Atrazine	36.82	1.25	2.50	5.00	
100-52-7	Benzaldehyde	36.75	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	35.22	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	33.34	1.25	2.50	5.00	S
205-99-2	Benzo(b)fluoranthene	36.20	1.25	2.50	5.00	S
191-24-2	Benzo(g,h,i)perylene	36.29	1.25	2.50	5.00	S
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	35.01	1.25	2.50	5.00	S
92-52-4	1,1-Biphenyl	34.16	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	38.70	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	46.52	1.25	2.50	5.00	X
105-60-2	Caprolactam	5.471	1.25	2.50	5.00	
86-74-8	Carbazole	36.05	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	53.64	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	23.36	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	36.70	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	33.38	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	34.13	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	34.22	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	43.92	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	35.63	1.25	2.50	5.00	
218-01-9	Chrysene	35.45	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	35.56	1.25	2.50	5.00	S
132-64-9	Dibenzofuran	35.08	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	40.63	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	41.33	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	54.03	1.25	2.50	5.00	
84-66-2	Diethylphthalate	39.72	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	56.10	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	36.13	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	91.80	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	72.59	1.00	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	43.34	1.25	2.50	5.00	X
606-20-2	2,6-Dinitrotoluene	43.81	1.25	2.50	5.00	X
117-84-0	Di-n-octylphthalate	45.73	1.25	2.50	5.00	S, X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_039

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

Matrix: | Laboratory ID: 1L16001-BS1 | File ID: L16001L1.D

Sampled: | Prepared: | Analyzed: 12/29/11 15:23

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1L16001 | Sequence: 1L36407 | Calibration: 1355004 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	32.56	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	43.76	1.25	2.50	5.00	X
206-44-0	Fluoranthene	32.93	1.25	2.50	5.00	
86-73-7	Fluorene	33.54	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	36.76	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	27.28	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	36.78	1.25	2.50	5.00	X
67-72-1	Hexachloroethane	27.35	1.25	2.50	5.00	X
193-39-5	Indeno(1,2,3-cd)pyrene	37.24	1.25	2.50	5.00	S
78-59-1	Isophorone	33.05	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	30.55	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	31.79	1.25	2.50	5.00	
95-48-7	2-Methylphenol	37.90	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	35.78	1.25	2.50	5.00	
91-20-3	Naphthalene	29.64	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	33.41	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	27.41	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	40.23	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	38.33	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	18.87	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	89.57	1.25	2.50	5.00	X
86-30-6	N-Nitrosodiphenylamine	30.30	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	36.62	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	78.60	5.00	10.0	20.0	
85-01-8	Phenanthrene	34.78	1.25	2.50	5.00	
108-95-2	Phenol	16.27	1.25	2.50	5.00	
129-00-0	Pyrene	38.15	1.25	2.50	5.00	X
88-06-2	2,4,6-Trichlorophenol	63.43	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	63.95	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	31.49	63.0	50 - 110	
2-Fluorophenol	100.0	24.18	24.2	20 - 110	
Nitrobenzene-d5	50.00	35.80	71.6	40 - 110	
Phenol-d6	100.0	14.35	14.4	0 - 110	
Terphenyl-d14	50.00	36.56	73.1	50 - 135	
2,4,6-Tribromophenol	100.0	62.83	62.8	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC | SDG: Kirtland_039

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

Matrix: | Laboratory ID: 1L16001-BSD1 | File ID: L16001L2.D

Sampled: | Prepared: | Analyzed: 12/29/11 15:54

Solids: | Preparation: EXT_3510 | Dilution:

Batch: 1L16001 | Sequence: 1L36407 | Calibration: 1355004 | Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	35.23	1.25	2.50	5.00	
208-96-8	Acenaphthylene	33.64	1.25	2.50	5.00	
98-86-2	Acetophenone	34.92	1.25	2.50	5.00	
120-12-7	Anthracene	36.24	1.25	2.50	5.00	
1912-24-9	Atrazine	38.98	1.25	2.50	5.00	
100-52-7	Benzaldehyde	38.58	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	37.25	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	35.91	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	37.67	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	41.74	1.25	2.50	5.00	
65-85-0	Benzoic acid	15.22	12.5	25.0	50.0	J
207-08-9	Benzo(k)fluoranthene	38.84	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	37.21	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	43.37	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	49.26	1.25	2.50	5.00	X
105-60-2	Caprolactam	5.666	1.25	2.50	5.00	
86-74-8	Carbazole	36.99	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	57.43	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	24.27	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	38.65	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	35.96	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	35.21	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	37.31	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	50.05	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	37.40	1.25	2.50	5.00	
218-01-9	Chrysene	37.61	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	39.20	1.25	2.50	5.00	
132-64-9	Dibenzofuran	36.93	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	41.76	1.25	2.50	5.00	
91-94-1	3,3'-Dichlorobenzidine	40.87	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	60.20	1.25	2.50	5.00	
84-66-2	Diethylphthalate	39.30	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	63.12	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	39.40	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	98.42	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	74.17	1.00	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	42.03	1.25	2.50	5.00	X
606-20-2	2,6-Dinitrotoluene	43.15	1.25	2.50	5.00	X
117-84-0	Di-n-octylphthalate	48.14	1.25	2.50	5.00	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Matrix: Laboratory ID: 1L16001-BSD1 File ID: L16001L2.D

Sampled: Prepared: Analyzed: 12/29/11 15:54

Solids: Preparation: EXT_3510 Dilution:

Batch: 1L16001 Sequence: 1L36407 Calibration: 1355004 Instrument: MS-BNA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	36.39	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	45.30	1.25	2.50	5.00	X
206-44-0	Fluoranthene	33.32	1.25	2.50	5.00	
86-73-7	Fluorene	34.15	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	40.34	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	29.72	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	38.07	1.25	2.50	5.00	X
67-72-1	Hexachloroethane	29.72	1.25	2.50	5.00	X
193-39-5	Indeno(1,2,3-cd)pyrene	39.57	1.25	2.50	5.00	
78-59-1	Isophorone	34.17	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	31.49	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	32.27	1.25	2.50	5.00	
95-48-7	2-Methylphenol	42.83	1.25	2.50	5.00	
108-39-4/106	3-Methylphenol/4-Methylphenol	39.75	1.25	2.50	5.00	
91-20-3	Naphthalene	31.71	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	31.30	5.00	10.0	20.0	
99-09-2	3-Nitroaniline	26.99	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	41.78	5.00	10.0	20.0	X
98-95-3	Nitrobenzene	41.96	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	19.08	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	101.0	1.25	2.50	5.00	X, E
86-30-6	N-Nitrosodiphenylamine	33.93	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	36.88	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	83.49	5.00	10.0	20.0	
85-01-8	Phenanthrene	37.57	1.25	2.50	5.00	
108-95-2	Phenol	18.88	1.25	2.50	5.00	
129-00-0	Pyrene	42.09	1.25	2.50	5.00	X
88-06-2	2,4,6-Trichlorophenol	72.60	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	71.92	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	34.66	69.3	50 - 110	
2-Fluorophenol	100.0	28.13	28.1	20 - 110	
Nitrobenzene-d5	50.00	37.87	75.7	40 - 110	
Phenol-d6	100.0	16.48	16.5	0 - 110	
Terphenyl-d14	50.00	39.75	79.5	50 - 135	
2,4,6-Tribromophenol	100.0	70.57	70.6	40 - 125	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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
GW0259	12/12/11 14:27	12/13/11 08:15	12/15/11 09:30	2.75	7.00	12/23/11 21:29	8.50	40.00	
GW0260	12/12/11 10:34	12/13/11 08:15	12/15/11 09:30	2.91	7.00	12/23/11 11:06	8.07	40.00	
GW0255	12/13/11 10:31	12/14/11 08:15	12/15/11 09:30	1.92	7.00	12/23/11 11:37	8.09	40.00	
GW0273	12/13/11 13:48	12/14/11 08:15	12/15/11 09:30	1.78	7.00	12/23/11 12:09	8.11	40.00	
GW0320	12/15/11 11:08	12/16/11 08:15	12/19/11 09:30	3.89	7.00	12/29/11 19:32	10.42	40.00	
GW0326	12/14/11 11:45	12/16/11 08:15	12/19/11 09:30	4.86	7.00	12/29/11 20:03	10.44	40.00	
GW0334	12/14/11 15:48	12/16/11 08:15	12/19/11 09:30	4.70	7.00	12/30/11 23:33	11.59	40.00	
GW0334	12/14/11 15:48	12/16/11 08:15	12/19/11 09:30	4.70	7.00	12/31/11 16:33	12.29	40.00	
GW0264	12/15/11 16:13	12/17/11 08:20	12/19/11 10:00	3.70	7.00	12/31/11 00:04	11.59	40.00	
GW0264	12/15/11 16:13	12/17/11 08:20	12/19/11 10:00	3.70	7.00	12/31/11 17:05	12.30	40.00	
GW0265	12/15/11 16:13	12/17/11 08:20	12/19/11 10:00	3.70	7.00	12/31/11 00:36	11.61	40.00	
GW0265	12/15/11 16:13	12/17/11 08:20	12/19/11 10:00	3.70	7.00	12/31/11 17:36	12.32	40.00	
GW0276	12/16/11 14:02	12/17/11 08:20	12/19/11 10:00	2.79	7.00	12/29/11 22:07	10.50	40.00	
GW8034-RB	12/16/11 09:22	12/17/11 08:20	12/19/11 10:00	2.98	7.00	12/29/11 22:39	10.53	40.00	

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I26927	Instrument:	GL-GCVOA2
Calibration:	1269006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1I26927-CAL1	003F0301.D	09/23/11 14:35
Cal Standard	1I26927-CAL2	004F0401.D	09/23/11 15:15
Cal Standard	1I26927-CAL3	005F0501.D	09/23/11 15:55
Cal Standard	1I26927-CAL4	006F0601.D	09/23/11 16:34
Cal Standard	1I26927-CAL5	007F0701.D	09/23/11 17:14
Cal Standard	1I26927-CAL6	008F0801.D	09/23/11 17:53
Initial Cal Check	1I26927-ICV1	009F0901.D	09/23/11 18:33

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36404	Instrument:	GL-GCVOA2
Calibration:	1269006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1L36404-CCV1	003F0301.D	12/16/11 09:36
Calibration Check	1L36404-CCV3	012F1201.D	12/16/11 15:29
LCS	1L16008-BS1	013F1301.D	12/16/11 16:08
LCS Dup	1L16008-BSD1	014F1401.D	12/16/11 16:47
Blank	1L16008-BLK1	019F1901.D	12/16/11 20:01
GW0273	1112091-03	028F2801.D	12/17/11 01:57
Calibration Check	1L36404-CCV4	030F3001.D	12/17/11 03:17

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36405	Instrument:	GL-GCVOA2
Calibration:	1269006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1L36405-CCV1	003F0301.D	12/20/11 10:53
LCS	1L20006-BS1	004F0401.D	12/20/11 11:32
LCS Dup	1L20006-BSD1	005F0501.D	12/20/11 12:11
Blank	1L20006-BLK1	006F0601.D	12/20/11 12:50
GW0326	1112109-03	016F1601.D	12/20/11 19:26
Calibration Check	1L36405-CCV2	019F1901.D	12/20/11 21:25

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36406	Instrument:	GL-GCVOA2
Calibration:	1269006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1L36406-CCV1	003F0301.D	12/22/11 17:01
Blank	1L22017-BLK1	005F0501.D	12/22/11 18:19
GW0260	1112084-03	007F0701.D	12/22/11 19:37
GW0255	1112091-01RE1	008F0801.D	12/22/11 20:15
GW0255	1L22017-MS1	009F0901.D	12/22/11 20:54
GW0255	1L22017-MSD1	010F1001.D	12/22/11 21:33
GW0334	1112109-05	011F1101.D	12/22/11 22:12
GW0264	1112117-01	012F1201.D	12/22/11 22:52
GW0265	1112117-03	013F1301.D	12/22/11 23:32
GW0276	1112117-05	014F1401.D	12/23/11 00:12
GW8034-RB	1112117-07	015F1501.D	12/23/11 00:52
LCS	1L22017-BS1	018F1801.D	12/23/11 02:52
Calibration Check	1L36406-CCV2	019F1901.D	12/23/11 03:31
GW0259	1112084-01RE1	022F2201.D	12/23/11 05:31
Calibration Check	1L36406-CCV3	026F2601.D	12/23/11 08:08

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00405	Instrument:	GL-GCVOA2
Calibration:	1269006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A00405-CCV1	006F0601.D	12/29/11 16:12
LCS	1L28003-BS1	007F0701.D	12/29/11 16:52
Blank	1L28003-BLK1	008F0801.D	12/29/11 17:31
GW0320	1112109-01	009F0901.D	12/29/11 18:10
Calibration Check	2A00405-CCV2	010F1001.D	12/29/11 18:49

ANALYSIS DATA SHEET

GW0259

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-01RE1	File ID:	022F2201.D
Sampled:	12/12/11 14:27	Prepared:	12/22/11 13:37	Analyzed:	12/23/11 05:31
Solids:		Preparation:	8015GRO	Dilution:	25

Batch: 1L22017 Sequence: 1L36406 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	21.4	1.25	2.50	3.75	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03304	66.1	50 - 150	Y

ANALYSIS DATA SHEET

GW0260

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-03	File ID:	007F0701.D
Sampled:	12/12/11 10:34	Prepared:	12/22/11 13:37	Analyzed:	12/22/11 19:37
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1L22017 Sequence: 1L36406 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.611	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05092	102	50 - 150	Y

ANALYSIS DATA SHEET

GW0255

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-01RE1	File ID:	008F0801.D
Sampled:	12/13/11 10:31	Prepared:	12/22/11 13:37	Analyzed:	12/22/11 20:15
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1L22017 Sequence: 1L36406 Calibration: 1269006 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	0.04896	97.9	50 - 150	Y

ANALYSIS DATA SHEET

GW0273

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-03	File ID:	028F2801.D
Sampled:	12/13/11 13:48	Prepared:	12/16/11 08:26	Analyzed:	12/17/11 01:57
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1L16008 Sequence: 1L36404 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.114	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04936	98.7	50 - 150	

ANALYSIS DATA SHEET

GW0320

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-01	File ID:	009F0901.D
Sampled:	12/15/11 11:08	Prepared:	12/28/11 07:44	Analyzed:	12/29/11 18:10
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1L28003 Sequence: 2A00405 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	1.92	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05747	115	50 - 150	Y

ANALYSIS DATA SHEET

GW0326

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-03	File ID:	016F1601.D
Sampled:	12/14/11 11:45	Prepared:	12/20/11 07:38	Analyzed:	12/20/11 19:26
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1L20006 Sequence: 1L36405 Calibration: 1269006 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	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05222	104	50 - 150	Y

ANALYSIS DATA SHEET

GW0334

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-05	File ID:	011F1101.D
Sampled:	12/14/11 15:48	Prepared:	12/22/11 13:37	Analyzed:	12/22/11 22:12
Solids:		Preparation:	8015GRO	Dilution:	25

Batch: 1L22017 Sequence: 1L36406 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	29.5	1.25	2.50	3.75	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05110	102	50 - 150	Y

ANALYSIS DATA SHEET

GW0264

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-01	File ID:	012F1201.D
Sampled:	12/15/11 16:13	Prepared:	12/22/11 13:37	Analyzed:	12/22/11 22:52
Solids:		Preparation:	8015GRO	Dilution:	50

Batch: 1L22017 Sequence: 1L36406 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	56.1	2.50	5.00	7.50	D

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

ANALYSIS DATA SHEET

GW0265

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-03	File ID:	013F1301.D
Sampled:	12/15/11 16:13	Prepared:	12/22/11 13:37	Analyzed:	12/22/11 23:32
Solids:		Preparation:	8015GRO	Dilution:	50

Batch: 1L22017 Sequence: 1L36406 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	58.3	2.50	5.00	7.50	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05690	114	50 - 150	Y

ANALYSIS DATA SHEET

GW0276

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-05	File ID:	014F1401.D
Sampled:	12/16/11 14:02	Prepared:	12/22/11 13:37	Analyzed:	12/23/11 00:12
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1L22017 Sequence: 1L36406 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.0521	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05333	107	50 - 150	Y

ANALYSIS DATA SHEET

GW8034-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-07	File ID:	015F1501.D
Sampled:	12/16/11 09:22	Prepared:	12/22/11 13:37	Analyzed:	12/23/11 00:52
Solids:		Preparation:	8015GRO	Dilution:	1

Batch: 1L22017 Sequence: 1L36406 Calibration: 1269006 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	0.05302	106	50 - 150	Y

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L16008	Laboratory ID:	1L16008-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	0.4361	87.2	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.3976	79.5	9.24	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L20006	Laboratory ID:	1L20006-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	0.4848	97.0	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4895	97.9	0.981	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L22017	Laboratory ID:	1L22017-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	0.4712	94.2	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L28003	Laboratory ID:	1L28003-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	0.4880	97.6	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B GRO

GW0255

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_039

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1L22017

% Solids:

Source Sample Name: **1112091-01RE1**

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	0.4309	86.2		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS	
						RPD	REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4326	86.5	0.394		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L16008 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0273	1112091-03	12/16/11 08:26	5.00	5.00
Blank	1L16008-BLK1	12/16/11 08:26	5.00	5.00
LCS	1L16008-BS1	12/16/11 08:26	5.00	5.00
LCS Dup	1L16008-BSD1	12/16/11 08:26	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L20006 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0326	1112109-03	12/20/11 07:38	5.00	5.00
Blank	1L20006-BLK1	12/20/11 07:38	5.00	5.00
LCS	1L20006-BS1	12/20/11 07:38	5.00	5.00
LCS Dup	1L20006-BSD1	12/20/11 07:38	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L22017 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0259	1112084-01RE1	12/22/11 13:37	5.00	5.00
GW0260	1112084-03	12/22/11 13:37	5.00	5.00
GW0255	1112091-01RE1	12/22/11 13:37	5.00	5.00
GW0334	1112109-05	12/22/11 13:37	5.00	5.00
GW0264	1112117-01	12/22/11 13:37	5.00	5.00
GW0265	1112117-03	12/22/11 13:37	5.00	5.00
GW0276	1112117-05	12/22/11 13:37	5.00	5.00
GW8034-RB	1112117-07	12/22/11 13:37	5.00	5.00
Blank	1L22017-BLK1	12/22/11 13:37	5.00	5.00
LCS	1L22017-BS1	12/22/11 13:37	5.00	5.00
GW0255	1L22017-MS1	12/22/11 13:37	5.00	5.00
GW0255	1L22017-MSD1	12/22/11 13:37	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L28003 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0320	1112109-01	12/28/11 07:44	5.00	5.00
Blank	1L28003-BLK1	12/28/11 07:44	5.00	5.00
LCS	1L28003-BS1	12/28/11 07:44	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1I26927	Instrument:	GL-GCVOA2
Calibration:	1269006		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11I0631	GRO Cal 0.1ppm	1I26927-CAL1	003F0301.D	09/23/11 14:35
11I0632	GRO Cal 0.2ppm	1I26927-CAL2	004F0401.D	09/23/11 15:15
11I0633	GRO Cal 0.5ppm	1I26927-CAL3	005F0501.D	09/23/11 15:55
11I0634	GRO Cal 1.0ppm	1I26927-CAL4	006F0601.D	09/23/11 16:34
11I0635	GRO Cal 2.0ppm	1I26927-CAL5	007F0701.D	09/23/11 17:14
11I0636	GRO Cal 5.0ppm	1I26927-CAL6	008F0801.D	09/23/11 17:53

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1269006	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	9/23/11_14:35	9/23/11_17:53

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	3188740	0.2	2712460	0.5	1411068	1	1373003	2	1322475	5	1275322
Bromofluorobenzene	0.01	1718300	0.02	1371850	0.05	1001380	0.1	1121160	0.2	1130485	0.5	912802

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1269006	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	9/23/11 14:35	9/23/11 17:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	1880511	44.8658	7.793	1.770253E-02	0.9990881		0.995	
Bromofluorobenzene	1209330	24.26723	20.268	1.370141E-02		0.9988025	0.99	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	009F0901.D	Calibration Date:	09/23/11 14:35
Sequence:	1I26927	Injection Date:	09/23/11
Lab Sample ID:	1I26927-ICV1	Injection Time:	18:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4798	1880511	1545794		-4.0	20
Bromofluorobenzene	Q	0.05000	0.05264	1209330	1283600		5.3	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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	003F0301.D	Calibration Date:	09/23/11 14:35
Sequence:	1L36404	Injection Date:	12/16/11
Lab Sample ID:	1L36404-CCV1	Injection Time:	09:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4046	1880511	1359702		-19.1	20
Bromofluorobenzene	Q	0.05000	0.04278	1209330	1039180		-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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	012F1201.D	Calibration Date:	09/23/11 14:35
Sequence:	1L36404	Injection Date:	12/16/11
Lab Sample ID:	1L36404-CCV3	Injection Time:	15:29

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4705	1880511	1522742		-5.9	20
Bromofluorobenzene	Q	0.05000	0.04860	1209330	1184200		-2.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	030F3001.D	Calibration Date:	09/23/11 14:35
Sequence:	1L36404	Injection Date:	12/17/11
Lab Sample ID:	1L36404-CCV4	Injection Time:	03:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4834	1880511	1554698		-3.3	20
Bromofluorobenzene	Q	0.05000	0.04835	1209330	1178060		-3.3	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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	003F0301.D	Calibration Date:	09/23/11 14:35
Sequence:	1L36405	Injection Date:	12/20/11
Lab Sample ID:	1L36405-CCV1	Injection Time:	10:53

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5162	1880511	1635664		3.2	20
Bromofluorobenzene	Q	0.05000	0.03830	1209330	926280		-23.4	20 *

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	019F1901.D	Calibration Date:	09/23/11 14:35
Sequence:	1L36405	Injection Date:	12/20/11
Lab Sample ID:	1L36405-CCV2	Injection Time:	21:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	1.156	1880511	3219352		131	20 *
Bromofluorobenzene	Q	0.05000	0.04169	1209330	1011780		-16.6	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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	003F0301.D	Calibration Date:	09/23/11 14:35
Sequence:	1L36406	Injection Date:	12/22/11
Lab Sample ID:	1L36406-CCV1	Injection Time:	17:01

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4068	1880511	1365036		-18.6	20
Bromofluorobenzene	Q	0.05000	0.04013	1209330	972560		-19.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	019F1901.D	Calibration Date:	09/23/11 14:35
Sequence:	1L36406	Injection Date:	12/23/11
Lab Sample ID:	1L36406-CCV2	Injection Time:	03:31

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4890	1880511	1568540		-2.2	20
Bromofluorobenzene	Q	0.05000	0.03598	1209330	867040		-28.0	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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	026F2601.D	Calibration Date:	09/23/11 14:35
Sequence:	1L36406	Injection Date:	12/23/11
Lab Sample ID:	1L36406-CCV3	Injection Time:	08:08

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4139	1880511	1382690		-17.2	20
Bromofluorobenzene	Q	0.05000	0.04601	1209330	1120060		-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

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	006F0601.D	Calibration Date:	09/23/11 14:35
Sequence:	2A00405	Injection Date:	12/29/11
Lab Sample ID:	2A00405-CCV1	Injection Time:	16:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.5119	1880511	1625192		2.4	20
Bromofluorobenzene	Q	0.05000	0.03936	1209330	953140		-21.3	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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1269006
Lab File ID:	010F1001.D	Calibration Date:	09/23/11 14:35
Sequence:	2A00405	Injection Date:	12/29/11
Lab Sample ID:	2A00405-CCV2	Injection Time:	18:49

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	L	0.5000	0.4531	1880511	1479642		-9.4	20
Bromofluorobenzene	Q	0.05000	0.03303	1209330	791440		-33.9	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 GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36404	Instrument:	GL-GCVOA2
		Calibration:	1269006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1L36404-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 12/16/11 09:36		
Bromofluorobenzene	0.05000	85.6	80 - 120	20.266	20.266	0.0000	+/-0.210	
Calibration Check (1L36404-CCV3) ug/mL				Lab File ID: 012F1201.D		Analyzed: 12/16/11 15:29		
Bromofluorobenzene	0.05000	97.2	80 - 120	20.253	20.266	-0.0130	+/-0.210	
LCS (1L16008-BS1) mg/L				Lab File ID: 013F1301.D		Analyzed: 12/16/11 16:08		
Bromofluorobenzene	0.06000	79.4	50 - 150	20.26	20.266	-0.0060	+/-0.210	
LCS Dup (1L16008-BSD1) mg/L				Lab File ID: 014F1401.D		Analyzed: 12/16/11 16:47		
Bromofluorobenzene	0.05000	84.9	50 - 150	20.263	20.266	-0.0030	+/-0.210	
Blank (1L16008-BLK1) mg/L				Lab File ID: 019F1901.D		Analyzed: 12/16/11 20:01		
Bromofluorobenzene	0.05000	93.9	50 - 150	20.273	20.266	0.0070	+/-0.210	
GW0273 (1112091-03) mg/L				Lab File ID: 028F2801.D		Analyzed: 12/17/11 01:57		
Bromofluorobenzene	0.05000	98.7	50 - 150	20.253	20.266	-0.0130	+/-0.210	
Calibration Check (1L36404-CCV4) ug/mL				Lab File ID: 030F3001.D		Analyzed: 12/17/11 03:17		
Bromofluorobenzene	0.05000	96.7	80 - 120	20.253	20.266	-0.0130	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36405	Instrument:	GL-GCVOA2
		Calibration:	1269006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1L36405-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 12/20/11 10:53		
Bromofluorobenzene	0.05000	76.6	80 - 120	20.26	20.26	0.0000	+/-0.210	*
LCS (1L20006-BS1) mg/L				Lab File ID: 004F0401.D		Analyzed: 12/20/11 11:32		
Bromofluorobenzene	0.05000	80.7	50 - 150	20.266	20.26	0.0060	+/-0.210	
LCS Dup (1L20006-BSD1) mg/L				Lab File ID: 005F0501.D		Analyzed: 12/20/11 12:11		
Bromofluorobenzene	0.05000	74.1	50 - 150	20.27	20.26	0.0100	+/-0.210	
Blank (1L20006-BLK1) mg/L				Lab File ID: 006F0601.D		Analyzed: 12/20/11 12:50		
Bromofluorobenzene	0.05000	101	50 - 150	20.273	20.26	0.0130	+/-0.210	
GW0326 (1112109-03) mg/L				Lab File ID: 016F1601.D		Analyzed: 12/20/11 19:26		
Bromofluorobenzene	0.05000	104	50 - 150	20.273	20.26	0.0130	+/-0.210	
Calibration Check (1L36405-CCV2) ug/mL				Lab File ID: 019F1901.D		Analyzed: 12/20/11 21:25		
Bromofluorobenzene	0.05000	83.4	80 - 120	20.276	20.26	0.0160	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36406	Instrument:	GL-GCVOA2
		Calibration:	1269006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1L36406-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 12/22/11 17:01		
Bromofluorobenzene	0.05000	80.3	80 - 120	20.27	20.27	0.0000	+/-0.210	
Blank (1L22017-BLK1) mg/L				Lab File ID: 005F0501.D		Analyzed: 12/22/11 18:19		
Bromofluorobenzene	0.05000	103	50 - 150	20.273	20.27	0.0030	+/-0.210	
GW0260 (1112084-03) mg/L				Lab File ID: 007F0701.D		Analyzed: 12/22/11 19:37		
Bromofluorobenzene	0.05000	102	50 - 150	20.276	20.27	0.0060	+/-0.210	
GW0255 (1112091-01RE1) mg/L				Lab File ID: 008F0801.D		Analyzed: 12/22/11 20:15		
Bromofluorobenzene	0.05000	97.9	50 - 150	20.276	20.27	0.0060	+/-0.210	
Matrix Spike (1L22017-MS1) mg/L				Lab File ID: 009F0901.D		Analyzed: 12/22/11 20:54		
Bromofluorobenzene	0.05000	79.6	50 - 150	20.276	20.27	0.0060	+/-0.210	
Matrix Spike Dup (1L22017-MSD1) mg/L				Lab File ID: 010F1001.D		Analyzed: 12/22/11 21:33		
Bromofluorobenzene	0.05000	71.4	50 - 150	20.276	20.27	0.0060	+/-0.210	
GW0334 (1112109-05) mg/L				Lab File ID: 011F1101.D		Analyzed: 12/22/11 22:12		
Bromofluorobenzene	0.05000	102	50 - 150	20.273	20.27	0.0030	+/-0.210	
GW0264 (1112117-01) mg/L				Lab File ID: 012F1201.D		Analyzed: 12/22/11 22:52		
Bromofluorobenzene	0.05000	113	50 - 150	20.266	20.27	-0.0040	+/-0.210	
GW0265 (1112117-03) mg/L				Lab File ID: 013F1301.D		Analyzed: 12/22/11 23:32		
Bromofluorobenzene	0.05000	114	50 - 150	20.263	20.27	-0.0070	+/-0.210	
GW0276 (1112117-05) mg/L				Lab File ID: 014F1401.D		Analyzed: 12/23/11 00:12		
Bromofluorobenzene	0.05000	107	50 - 150	20.263	20.27	-0.0070	+/-0.210	
GW8034-RB (1112117-07) mg/L				Lab File ID: 015F1501.D		Analyzed: 12/23/11 00:52		
Bromofluorobenzene	0.05000	106	50 - 150	20.263	20.27	-0.0070	+/-0.210	
LCS (1L22017-BS1) mg/L				Lab File ID: 018F1801.D		Analyzed: 12/23/11 02:52		
Bromofluorobenzene	0.05000	68.9	50 - 150	20.263	20.27	-0.0070	+/-0.210	
Calibration Check (1L36406-CCV2) ug/mL				Lab File ID: 019F1901.D		Analyzed: 12/23/11 03:31		
Bromofluorobenzene	0.05000	72.0	80 - 120	20.263	20.27	-0.0070	+/-0.210	*
GW0259 (1112084-01RE1) mg/L				Lab File ID: 022F2201.D		Analyzed: 12/23/11 05:31		
Bromofluorobenzene	0.05000	66.1	50 - 150	20.263	20.27	-0.0070	+/-0.210	
Calibration Check (1L36406-CCV3) ug/mL				Lab File ID: 026F2601.D		Analyzed: 12/23/11 08:08		
Bromofluorobenzene	0.05000	92.0	80 - 120	20.27	20.27	0.0000	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00405	Instrument:	GL-GCVOA2
		Calibration:	1269006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A00405-CCV1) ug/mL				Lab File ID: 006F0601.D		Analyzed: 12/29/11 16:12		
Bromofluorobenzene	0.05000	78.7	80 - 120	20.26	20.26	0.0000	+/-0.210	*
LCS (1L28003-BS1) mg/L				Lab File ID: 007F0701.D		Analyzed: 12/29/11 16:52		
Bromofluorobenzene	0.05000	82.9	50 - 150	20.263	20.26	0.0030	+/-0.210	
Blank (1L28003-BLK1) mg/L				Lab File ID: 008F0801.D		Analyzed: 12/29/11 17:31		
Bromofluorobenzene	0.05000	97.6	50 - 150	20.263	20.26	0.0030	+/-0.210	
GW0320 (1112109-01) mg/L				Lab File ID: 009F0901.D		Analyzed: 12/29/11 18:10		
Bromofluorobenzene	0.05000	115	50 - 150	20.266	20.26	0.0060	+/-0.210	
Calibration Check (2A00405-CCV2) ug/mL				Lab File ID: 010F1001.D		Analyzed: 12/29/11 18:49		
Bromofluorobenzene	0.05000	66.1	80 - 120	20.266	20.26	0.0060	+/-0.210	*

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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
GW0259	12/12/11 14:27	12/13/11 08:15	12/22/11 13:37	N/A	14.00	12/23/11 05:31	10.59	14.00	
GW0260	12/12/11 10:34	12/13/11 08:15	12/22/11 13:37	N/A	14.00	12/22/11 19:37	10.34	14.00	
GW0255	12/13/11 10:31	12/14/11 08:15	12/22/11 13:37	N/A	14.00	12/22/11 20:15	9.36	14.00	
GW0273	12/13/11 13:48	12/14/11 08:15	12/16/11 08:26	N/A	14.00	12/17/11 01:57	3.46	14.00	
GW0320	12/15/11 11:08	12/16/11 08:15	12/28/11 07:44	N/A	14.00	12/29/11 18:10	14.25	14.00	
GW0326	12/14/11 11:45	12/16/11 08:15	12/20/11 07:38	N/A	14.00	12/20/11 19:26	6.28	14.00	
GW0334	12/14/11 15:48	12/16/11 08:15	12/22/11 13:37	N/A	14.00	12/22/11 22:12	8.23	14.00	
GW0264	12/15/11 16:13	12/17/11 08:20	12/22/11 13:37	N/A	14.00	12/22/11 22:52	7.24	14.00	
GW0265	12/15/11 16:13	12/17/11 08:20	12/22/11 13:37	N/A	14.00	12/22/11 23:32	7.26	14.00	
GW0276	12/16/11 14:02	12/17/11 08:20	12/22/11 13:37	N/A	14.00	12/23/11 00:12	6.38	14.00	
GW8034-RB	12/16/11 09:22	12/17/11 08:20	12/22/11 13:37	N/A	14.00	12/23/11 00:52	6.60	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1L16008-BLK1	File ID:	019F1901.D
Sampled:		Prepared:		Analyzed:	12/16/11 20:01
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1L16008 Sequence: 1L36404 Calibration: 1269006 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	0.04694	93.9	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1L16008-BS1	File ID:	013F1301.D
Sampled:		Prepared:		Analyzed:	12/16/11 16:08
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1L16008 Sequence: 1L36404 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4361	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.06000	0.04761	79.4	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1L16008-BSD1	File ID:	014F1401.D
Sampled:		Prepared:		Analyzed:	12/16/11 16:47
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1L16008	Sequence:	1L36404	Calibration:	1269006	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.3976	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04245	84.9	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1L20006-BLK1	File ID:	006F0601.D
Sampled:		Prepared:		Analyzed:	12/20/11 12:50
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1L20006 Sequence: 1L36405 Calibration: 1269006 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	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05046	101	50 - 150	Y

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1L20006-BS1
File ID: 004F0401.D
Sampled:
Prepared:
Analyzed: 12/20/11 11:32
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1L20006
Sequence: 1L36405
Calibration: 1269006
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4848	0.0500	0.100	0.150	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04033	80.7	50 - 150	Y

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1L20006-BSD1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	12/20/11 12:11
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1L20006	Sequence:	1L36405	Calibration:	1269006	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4895	0.0500	0.100	0.150	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03707	74.1	50 - 150	Y

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1L22017-BLK1	File ID:	005F0501.D
Sampled:		Prepared:		Analyzed:	12/22/11 18:19
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1L22017 Sequence: 1L36406 Calibration: 1269006 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	0.05147	103	50 - 150	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1L22017-BS1	File ID:	018F1801.D
Sampled:		Prepared:		Analyzed:	12/23/11 02:52
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1L22017 Sequence: 1L36406 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4712	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03446	68.9	50 - 150	Y

ANALYSIS DATA SHEET

Matrix Spike

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_039	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1L22017-MS1	File ID:	009F0901.D
Sampled:		Prepared:		Analyzed:	12/22/11 20:54
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1L22017 Sequence: 1L36406 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4309	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03981	79.6	50 - 150	Y

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_039	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1L22017-MSD1	File ID:	010F1001.D
Sampled:		Prepared:		Analyzed:	12/22/11 21:33
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1L22017 Sequence: 1L36406 Calibration: 1269006 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4326	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.03569	71.4	50 - 150	Y

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1L28003-BLK1	File ID:	008F0801.D
Sampled:		Prepared:		Analyzed:	12/29/11 17:31
Solids:		Preparation:	8015GRO	Dilution:	

Batch: 1L28003 Sequence: 2A00405 Calibration: 1269006 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	0.04878	97.6	50 - 150	Y

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1L28003-BS1	File ID:	007F0701.D
Sampled:		Prepared:		Analyzed:	12/29/11 16:52
Solids:		Preparation:	8015GRO	Dilution:	

Batch:	1L28003	Sequence:	2A00405	Calibration:	1269006	Instrument:	GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.4880	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04144	82.9	50 - 150	Y

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00203	Instrument:	GL-GCFID2
Calibration:	2002005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2A00203-CAL1	019F1901.D	12/29/11 01:48
Cal Standard	2A00203-CAL2	020F2001.D	12/29/11 02:21
Cal Standard	2A00203-CAL3	021F2101.D	12/29/11 02:55
Cal Standard	2A00203-CAL4	022F2201.D	12/29/11 03:28
Cal Standard	2A00203-CAL5	023F2301.D	12/29/11 04:01
Cal Standard	2A00203-CAL6	024F2401.D	12/29/11 04:34
Initial Cal Check	2A00203-ICV1	025F2501.D	12/29/11 05:07

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00204	Instrument:	GL-GCFID2
Calibration:	2002005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A00204-CCV1	026F2601.D	12/29/11 05:40
Calibration Check	2A00204-CCV2	045F4501.D	12/29/11 16:11
Blank	1L13004-BLK1	046F4601.D	12/29/11 16:45
LCS	1L13004-BS1	047F4701.D	12/29/11 17:18
LCS Dup	1L13004-BSD1	048F4801.D	12/29/11 17:51
GW0259	1112084-01	053F5301.D	12/29/11 20:36
GW0260	1112084-03	054F5401.D	12/29/11 21:09
Calibration Check	2A00204-CCV3	056F5601.D	12/29/11 22:14

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00607	Instrument:	GL-GCFID2
Calibration:	2002005		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A00607-CCV1	016F1601.D	01/03/12 23:02
Blank	2A03003-BLK1	017F1701.D	01/03/12 23:35
LCS	2A03003-BS1	018F1801.D	01/04/12 00:08
LCS Dup	2A03003-BSD1	019F1901.D	01/04/12 00:41
GW0259	1112084-01RE1	025F2501.D	01/04/12 03:56
GW0260	1112084-03RE1	026F2601.D	01/04/12 04:29
Calibration Check	2A00607-CCV2	027F2701.D	01/04/12 05:02
Blank	1L16002-BLK1	028F2801.D	01/04/12 05:34
LCS	1L16002-BS1	029F2901.D	01/04/12 06:07
LCS Dup	1L16002-BSD1	030F3001.D	01/04/12 06:39
GW0255	1112091-01	031F3101.D	01/04/12 07:12
GW0273	1112091-03	032F3201.D	01/04/12 07:44
GW0320	1112109-01	033F3301.D	01/04/12 08:17
GW0326	1112109-03	034F3401.D	01/04/12 08:50
GW0334	1112109-05	036F3601.D	01/04/12 09:56
Blank	1L19003-BLK1	037F3701.D	01/04/12 10:29
LCS	1L19003-BS1	038F3801.D	01/04/12 11:02
LCS Dup	1L19003-BSD1	039F3901.D	01/04/12 11:35
GW0264	1112117-01	041F4101.D	01/04/12 12:42
GW0265	1112117-03	043F4301.D	01/04/12 13:48
Calibration Check	2A00607-CCV3	044F4401.D	01/04/12 14:22
GW0276	1112117-05	045F4501.D	01/04/12 14:55
GW8034-RB	1112117-07	046F4601.D	01/04/12 15:28
Calibration Check	2A00607-CCV4	056F5601.D	01/05/12 10:05

ANALYSIS DATA SHEET

GW0259

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-01	File ID:	053F5301.D
Sampled:	12/12/11 14:27	Prepared:	12/14/11 09:00	Analyzed:	12/29/11 20:36
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 1L13004 Sequence: 2A00204 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	83.6	2.00	2.00	2.00	Q, D, B

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01371	68.5	30 - 140	

ANALYSIS DATA SHEET

GW0259

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-01RE1	File ID:	025F2501.D
Sampled:	12/12/11 14:27	Prepared:	01/03/12 09:17	Analyzed:	01/04/12 03:56
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 2A03003 Sequence: 2A00607 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	68.4	1.98	1.98	1.98	H2, D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01980	0.01432	72.3	30 - 140	H2

ANALYSIS DATA SHEET

GW0260

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-03	File ID:	054F5401.D
Sampled:	12/12/11 10:34	Prepared:	12/14/11 09:00	Analyzed:	12/29/11 21:09
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L13004 Sequence: 2A00204 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.297	0.0943	0.0943	0.0943	Q, B

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01743	92.4	30 - 140	

ANALYSIS DATA SHEET

GW0260

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-03RE1	File ID:	026F2601.D
Sampled:	12/12/11 10:34	Prepared:	01/03/12 09:17	Analyzed:	01/04/12 04:29
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 2A03003 Sequence: 2A00607 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.175	0.100	0.100	0.100	H2

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01675	83.7	30 - 140	H2

ANALYSIS DATA SHEET

GW0255

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-01	File ID:	031F3101.D
Sampled:	12/13/11 10:31	Prepared:	12/16/11 10:30	Analyzed:	01/04/12 07:12
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L16002 Sequence: 2A00607 Calibration: 2002005 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	0.01546	77.3	30 - 140	

ANALYSIS DATA SHEET

GW0273

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-03	File ID:	032F3201.D
Sampled:	12/13/11 13:48	Prepared:	12/16/11 10:30	Analyzed:	01/04/12 07:44
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L16002 Sequence: 2A00607 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0990	0.0990	0.0990	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01980	0.01383	69.9	30 - 140	

ANALYSIS DATA SHEET

GW0320

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-01	File ID:	033F3301.D
Sampled:	12/15/11 11:08	Prepared:	12/16/11 10:30	Analyzed:	01/04/12 08:17
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L16002 Sequence: 2A00607 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	2.01	0.0980	0.0980	0.0980	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01920	97.9	30 - 140	

ANALYSIS DATA SHEET

GW0326

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-03	File ID:	034F3401.D
Sampled:	12/14/11 11:45	Prepared:	12/16/11 10:30	Analyzed:	01/04/12 08:50
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L16002 Sequence: 2A00607 Calibration: 2002005 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	0.01571	80.9	30 - 140	

ANALYSIS DATA SHEET

GW0334

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-05	File ID:	036F3601.D
Sampled:	12/14/11 15:48	Prepared:	12/16/11 10:30	Analyzed:	01/04/12 09:56
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 1L16002 Sequence: 2A00607 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	40.1	1.96	1.96	1.96	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01797	91.7	30 - 140	

ANALYSIS DATA SHEET

GW0264

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-01	File ID:	041F4101.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 12:00	Analyzed:	01/04/12 12:42
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 1L19003 Sequence: 2A00607 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	61.1	1.96	1.96	1.96	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01687	86.1	30 - 140	

ANALYSIS DATA SHEET

GW0265

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-03	File ID:	043F4301.D
Sampled:	12/15/11 16:13	Prepared:	12/19/11 12:00	Analyzed:	01/04/12 13:48
Solids:		Preparation:	EXT_3510	Dilution:	20

Batch: 1L19003 Sequence: 2A00607 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	72.8	1.96	1.96	1.96	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01868	95.3	30 - 140	

ANALYSIS DATA SHEET

GW0276

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-05	File ID:	045F4501.D
Sampled:	12/16/11 14:02	Prepared:	12/19/11 12:00	Analyzed:	01/04/12 14:55
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L19003 Sequence: 2A00607 Calibration: 2002005 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	0.01626	82.9	30 - 140	

ANALYSIS DATA SHEET

GW8034-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-07	File ID:	046F4601.D
Sampled:	12/16/11 09:22	Prepared:	12/19/11 12:00	Analyzed:	01/04/12 15:28
Solids:		Preparation:	EXT_3510	Dilution:	1

Batch: 1L19003 Sequence: 2A00607 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.471	0.0980	0.0980	0.0980	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01323	67.5	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L13004	Laboratory ID:	1L13004-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**	**0.2736**	**27.4**	**50 - 150**

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.7777	77.8	95.9 *	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L16002	Laboratory ID:	1L16002-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	0.5013	50.1	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	0.5101	51.0	1.75	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L19003	Laboratory ID:	1L19003-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	0.7175	71.7	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.6001	60.0	17.8	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A03003	Laboratory ID:	2A03003-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	0.5016	50.2	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.5196	52.0	3.52	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L13004 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0259	1112084-01	12/14/11 09:00	1,000.00	1.00
GW0260	1112084-03	12/14/11 09:00	1,060.00	1.00
Blank	1L13004-BLK1	12/14/11 09:00	1,000.00	1.00
LCS	1L13004-BS1	12/14/11 09:00	1,000.00	1.00
LCS Dup	1L13004-BSD1	12/14/11 09:00	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L16002 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0255	1112091-01	12/16/11 10:30	1,000.00	1.00
GW0273	1112091-03	12/16/11 10:30	1,010.00	1.00
GW0320	1112109-01	12/16/11 10:30	1,020.00	1.00
GW0326	1112109-03	12/16/11 10:30	1,030.00	1.00
GW0334	1112109-05	12/16/11 10:30	1,020.00	1.00
Blank	1L16002-BLK1	12/16/11 10:30	1,000.00	1.00
LCS	1L16002-BS1	12/16/11 10:30	1,000.00	1.00
LCS Dup	1L16002-BSD1	12/16/11 10:30	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L19003 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0264	1112117-01	12/19/11 12:00	1,020.00	1.00
GW0265	1112117-03	12/19/11 12:00	1,020.00	1.00
GW0276	1112117-05	12/19/11 12:00	1,020.00	1.00
GW8034-RB	1112117-07	12/19/11 12:00	1,020.00	1.00
Blank	1L19003-BLK1	12/19/11 12:00	1,000.00	1.00
LCS	1L19003-BS1	12/19/11 12:00	1,000.00	1.00
LCS Dup	1L19003-BSD1	12/19/11 12:00	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 2A03003 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0259	1112084-01RE1	01/03/12 09:17	1,010.00	1.00
GW0260	1112084-03RE1	01/03/12 09:17	1,000.00	1.00
Blank	2A03003-BLK1	01/03/12 09:17	1,000.00	1.00
LCS	2A03003-BS1	01/03/12 09:17	1,000.00	1.00
LCS Dup	2A03003-BSD1	01/03/12 09:17	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00203	Instrument:	GL-GCFID2
Calibration:	2002005		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11K0386	DRO ICAL6@100ppm	2A00203-CAL1	019F1901.D	12/29/11 01:48
11K0385	DRO ICAL5@250ppm	2A00203-CAL2	020F2001.D	12/29/11 02:21
11K0384	DRO ICAL4@500ppm	2A00203-CAL3	021F2101.D	12/29/11 02:55
11K0383	DRO ICAL3@1000ppm	2A00203-CAL4	022F2201.D	12/29/11 03:28
11K0382	DRO ICAL2@2500ppm	2A00203-CAL5	023F2301.D	12/29/11 04:01
11K0381	DRO ICAL1@5000ppm	2A00203-CAL6	024F2401.D	12/29/11 04:34

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2002005	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Dates:	12/29/11 1:48 12/29/11 4:34

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	833.24	250	799.816	500	821.242	1000	895.915	2500	942.2172	5000	1212.126
o-Terphenyl	5	1071.8	12.5	1188.24	25	1161.52	50	1157.34	125	1158.08	250	1109.332

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2002005	Instrument:	GL-GCFID2	
Matrix:	Water	Calibration Dates:	12/29/11 1:48	12/29/11 4:34

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	917.426	16.7518	5.967	2.470398E-02			20	
o-Terphenyl	1141.052	3.718779	11.01183	3.526031E-02			20	

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	025F2501.D	Calibration Date:	01/02/12 23:46
Sequence:	2A00203	Injection Date:	12/29/11
Lab Sample ID:	2A00203-ICV1	Injection Time:	05:07

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	974.2	917.426	893.774		-2.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	026F2601.D	Calibration Date:	01/02/12 23:46
Sequence:	2A00204	Injection Date:	12/29/11
Lab Sample ID:	2A00204-CCV1	Injection Time:	05:40

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	906.6	917.426	831.708		-9.3	20
o-Terphenyl	A	50.00	49.56	1141.052	1130.92		-0.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	045F4501.D	Calibration Date:	01/02/12 23:46
Sequence:	2A00204	Injection Date:	12/29/11
Lab Sample ID:	2A00204-CCV2	Injection Time:	16:11

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	923.8	917.426	847.482		-7.6	20
o-Terphenyl	A	50.00	54.31	1141.052	1239.48		8.6	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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	056F5601.D	Calibration Date:	01/02/12 23:46
Sequence:	2A00204	Injection Date:	12/29/11
Lab Sample ID:	2A00204-CCV3	Injection Time:	22:14

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	894.8	917.426	820.882		-10.5	20
o-Terphenyl	A	50.00	52.85	1141.052	1206.06		5.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	016F1601.D	Calibration Date:	01/02/12 23:46
Sequence:	2A00607	Injection Date:	01/03/12
Lab Sample ID:	2A00607-CCV1	Injection Time:	23:02

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	947.8	917.426	869.58		-5.2	20
o-Terphenyl	A	50.00	50.21	1141.052	1145.82		0.4	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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	027F2701.D	Calibration Date:	01/02/12 23:46
Sequence:	2A00607	Injection Date:	01/04/12
Lab Sample ID:	2A00607-CCV2	Injection Time:	05:02

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	856.5	917.426	785.753		-14.4	20
o-Terphenyl	A	50.00	51.42	1141.052	1173.54		2.8	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	044F4401.D	Calibration Date:	01/02/12 23:46
Sequence:	2A00607	Injection Date:	01/04/12
Lab Sample ID:	2A00607-CCV3	Injection Time:	14:22

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	803.1	917.426	736.755		-19.7	20
o-Terphenyl	A	50.00	55.83	1141.052	1274.06		11.7	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	2002005
Lab File ID:	056F5601.D	Calibration Date:	01/02/12 23:46
Sequence:	2A00607	Injection Date:	01/05/12
Lab Sample ID:	2A00607-CCV4	Injection Time:	10:05

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	902.8	917.426	828.233		-9.7	20
o-Terphenyl	A	50.00	58.67	1141.052	1339.02		17.3	20

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

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00204	Instrument:	GL-GCFID2
		Calibration:	2002005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A00204-CCV1) mg/L				Lab File ID: 026F2601.D		Analyzed: 12/29/11 05:40		
o-Terphenyl	50.00	99.1	80 - 120	11.016	11.016	0.0000	+/-0.050	
Calibration Check (2A00204-CCV2) mg/L				Lab File ID: 045F4501.D		Analyzed: 12/29/11 16:11		
o-Terphenyl	50.00	109	80 - 120	11.006	11.016	-0.0100	+/-0.050	
Blank (1L13004-BLK1) mg/L				Lab File ID: 046F4601.D		Analyzed: 12/29/11 16:45		
o-Terphenyl	0.02000	64.1	30 - 140	11.01	11.016	-0.0060	+/-0.050	
LCS (1L13004-BS1) mg/L				Lab File ID: 047F4701.D		Analyzed: 12/29/11 17:18		
o-Terphenyl	0.02000	123	30 - 140	11.01	11.016	-0.0060	+/-0.050	
LCS Dup (1L13004-BSD1) mg/L				Lab File ID: 048F4801.D		Analyzed: 12/29/11 17:51		
o-Terphenyl	0.02000	99.1	30 - 140	11.013	11.016	-0.0030	+/-0.050	
GW0259 (1112084-01) mg/L				Lab File ID: 053F5301.D		Analyzed: 12/29/11 20:36		
o-Terphenyl	0.02000	68.5	30 - 140	10.993	11.016	-0.0230	+/-0.050	
GW0260 (1112084-03) mg/L				Lab File ID: 054F5401.D		Analyzed: 12/29/11 21:09		
o-Terphenyl	0.01887	92.4	30 - 140	11.01	11.016	-0.0060	+/-0.050	
Calibration Check (2A00204-CCV3) mg/L				Lab File ID: 056F5601.D		Analyzed: 12/29/11 22:14		
o-Terphenyl	50.00	106	80 - 120	10.996	11.016	-0.0200	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00607	Instrument:	GL-GCFID2
		Calibration:	2002005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (2A00607-CCV1) mg/L				Lab File ID: 016F1601.D		Analyzed: 01/03/12 23:02		
o-Terphenyl	50.00	100	80 - 120	10.956	10.956	0.0000	+/-0.050	
Blank (2A03003-BLK1) mg/L				Lab File ID: 017F1701.D		Analyzed: 01/03/12 23:35		
o-Terphenyl	0.02000	47.5	30 - 140	10.963	10.956	0.0070	+/-0.050	
LCS (2A03003-BS1) mg/L				Lab File ID: 018F1801.D		Analyzed: 01/04/12 00:08		
o-Terphenyl	0.02000	57.3	30 - 140	10.96	10.956	0.0040	+/-0.050	
LCS Dup (2A03003-BSD1) mg/L				Lab File ID: 019F1901.D		Analyzed: 01/04/12 00:41		
o-Terphenyl	0.02000	53.9	30 - 140	10.96	10.956	0.0040	+/-0.050	
GW0259 (1112084-01RE1) mg/L				Lab File ID: 025F2501.D		Analyzed: 01/04/12 03:56		
o-Terphenyl	0.01980	72.3	30 - 140	10.96	10.956	0.0040	+/-0.050	
GW0260 (1112084-03RE1) mg/L				Lab File ID: 026F2601.D		Analyzed: 01/04/12 04:29		
o-Terphenyl	0.02000	83.7	30 - 140	10.963	10.956	0.0070	+/-0.050	
Calibration Check (2A00607-CCV2) mg/L				Lab File ID: 027F2701.D		Analyzed: 01/04/12 05:02		
o-Terphenyl	50.00	103	80 - 120	10.966	10.956	0.0100	+/-0.050	
Blank (1L16002-BLK1) mg/L				Lab File ID: 028F2801.D		Analyzed: 01/04/12 05:34		
o-Terphenyl	0.02000	71.9	30 - 140	10.976	10.956	0.0200	+/-0.050	
LCS (1L16002-BS1) mg/L				Lab File ID: 029F2901.D		Analyzed: 01/04/12 06:07		
o-Terphenyl	0.02000	66.6	30 - 140	10.973	10.956	0.0170	+/-0.050	
LCS Dup (1L16002-BSD1) mg/L				Lab File ID: 030F3001.D		Analyzed: 01/04/12 06:39		
o-Terphenyl	0.02000	73.1	30 - 140	10.983	10.956	0.0270	+/-0.050	
GW0255 (1112091-01) mg/L				Lab File ID: 031F3101.D		Analyzed: 01/04/12 07:12		
o-Terphenyl	0.02000	77.3	30 - 140	10.983	10.956	0.0270	+/-0.050	
GW0273 (1112091-03) mg/L				Lab File ID: 032F3201.D		Analyzed: 01/04/12 07:44		
o-Terphenyl	0.01980	69.9	30 - 140	11.046	10.956	0.0900	+/-0.050	*
GW0320 (1112109-01) mg/L				Lab File ID: 033F3301.D		Analyzed: 01/04/12 08:17		
o-Terphenyl	0.01961	97.9	30 - 140	11.05	10.956	0.0940	+/-0.050	*
GW0326 (1112109-03) mg/L				Lab File ID: 034F3401.D		Analyzed: 01/04/12 08:50		
o-Terphenyl	0.01942	80.9	30 - 140	10.98	10.956	0.0240	+/-0.050	
GW0334 (1112109-05) mg/L				Lab File ID: 036F3601.D		Analyzed: 01/04/12 09:56		
o-Terphenyl	0.01961	91.7	30 - 140	10.97	10.956	0.0140	+/-0.050	
Blank (1L19003-BLK1) mg/L				Lab File ID: 037F3701.D		Analyzed: 01/04/12 10:29		
o-Terphenyl	0.02000	81.9	30 - 140	10.973	10.956	0.0170	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00607	Instrument:	GL-GCFID2
		Calibration:	2002005

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
LCS (1L19003-BS1) mg/L				Lab File ID: 038F3801.D		Analyzed: 01/04/12 11:02		
o-Terphenyl	0.02000	107	30 - 140	10.956	10.956	0.0000	+/-0.050	
LCS Dup (1L19003-BSD1) mg/L				Lab File ID: 039F3901.D		Analyzed: 01/04/12 11:35		
o-Terphenyl	0.02000	95.9	30 - 140	10.97	10.956	0.0140	+/-0.050	
GW0264 (1112117-01) mg/L				Lab File ID: 041F4101.D		Analyzed: 01/04/12 12:42		
o-Terphenyl	0.01961	86.1	30 - 140	10.963	10.956	0.0070	+/-0.050	
GW0265 (1112117-03) mg/L				Lab File ID: 043F4301.D		Analyzed: 01/04/12 13:48		
o-Terphenyl	0.01961	95.3	30 - 140	10.973	10.956	0.0170	+/-0.050	
Calibration Check (2A00607-CCV3) mg/L				Lab File ID: 044F4401.D		Analyzed: 01/04/12 14:22		
o-Terphenyl	50.00	112	80 - 120	10.96	10.956	0.0040	+/-0.050	
GW0276 (1112117-05) mg/L				Lab File ID: 045F4501.D		Analyzed: 01/04/12 14:55		
o-Terphenyl	0.01961	82.9	30 - 140	10.956	10.956	0.0000	+/-0.050	
GW8034-RB (1112117-07) mg/L				Lab File ID: 046F4601.D		Analyzed: 01/04/12 15:28		
o-Terphenyl	0.01961	67.5	30 - 140	10.96	10.956	0.0040	+/-0.050	
Calibration Check (2A00607-CCV4) mg/L				Lab File ID: 056F5601.D		Analyzed: 01/05/12 10:05		
o-Terphenyl	50.00	117	80 - 120	10.953	10.956	-0.0030	+/-0.050	

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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
GW0259	12/12/11 14:27	12/13/11 08:15	12/14/11 09:00	1.73	7.00	12/29/11 20:36	15.48	40.00	
GW0259	12/12/11 14:27	12/13/11 08:15	01/03/12 09:17	21.74	7.00	01/04/12 03:56	0.78	40.00	*
GW0260	12/12/11 10:34	12/13/11 08:15	12/14/11 09:00	1.89	7.00	12/29/11 21:09	15.51	40.00	
GW0260	12/12/11 10:34	12/13/11 08:15	01/03/12 09:17	21.90	7.00	01/04/12 04:29	0.80	40.00	*
GW0255	12/13/11 10:31	12/14/11 08:15	12/16/11 10:30	2.96	7.00	01/04/12 07:12	18.86	40.00	
GW0273	12/13/11 13:48	12/14/11 08:15	12/16/11 10:30	2.82	7.00	01/04/12 07:44	18.88	40.00	
GW0320	12/15/11 11:08	12/16/11 08:15	12/16/11 10:30	0.93	7.00	01/04/12 08:17	18.91	40.00	
GW0326	12/14/11 11:45	12/16/11 08:15	12/16/11 10:30	1.91	7.00	01/04/12 08:50	18.93	40.00	
GW0334	12/14/11 15:48	12/16/11 08:15	12/16/11 10:30	1.74	7.00	01/04/12 09:56	18.98	40.00	
GW0264	12/15/11 16:13	12/17/11 08:20	12/19/11 12:00	3.78	7.00	01/04/12 12:42	16.03	40.00	
GW0265	12/15/11 16:13	12/17/11 08:20	12/19/11 12:00	3.78	7.00	01/04/12 13:48	16.08	40.00	
GW0276	12/16/11 14:02	12/17/11 08:20	12/19/11 12:00	2.87	7.00	01/04/12 14:55	16.12	40.00	
GW8034-RB	12/16/11 09:22	12/17/11 08:20	12/19/11 12:00	3.07	7.00	01/04/12 15:28	16.14	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_039	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1L13004-BLK1	File ID:	046F4601.D
Sampled:		Prepared:		Analyzed:	12/29/11 16:45
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1L13004 Sequence: 2A00204 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.382	0.100	0.100	0.100	Q

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01281	64.1	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1L13004-BS1	File ID:	047F4701.D
Sampled:		Prepared:		Analyzed:	12/29/11 17:18
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1L13004	Sequence:	2A00204	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.2736	0.100	0.100	0.100	B

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02459	123	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1L13004-BSD1	File ID:	048F4801.D
Sampled:		Prepared:		Analyzed:	12/29/11 17:51
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1L13004	Sequence:	2A00204	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.7777	0.100	0.100	0.100	B

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01982	99.1	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1L16002-BLK1	File ID:	028F2801.D
Sampled:		Prepared:		Analyzed:	01/04/12 05:34
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1L16002	Sequence:	2A00607	Calibration:	2002005	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	0.01438	71.9	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1L16002-BS1	File ID:	029F2901.D
Sampled:		Prepared:		Analyzed:	01/04/12 06:07
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1L16002	Sequence:	2A00607	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5013	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01333	66.6	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1L16002-BSD1	File ID:	030F3001.D
Sampled:		Prepared:		Analyzed:	01/04/12 06:39
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1L16002	Sequence:	2A00607	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5101	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01462	73.1	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_039	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Matrix:		Laboratory ID:	1L19003-BLK1	File ID:	037F3701.D
Sampled:		Prepared:		Analyzed:	01/04/12 10:29
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1L19003 Sequence: 2A00607 Calibration: 2002005 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	0.01638	81.9	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1L19003-BS1	File ID:	038F3801.D
Sampled:		Prepared:		Analyzed:	01/04/12 11:02
Solids:		Preparation:	EXT_3510	Dilution:	

Batch: 1L19003 Sequence: 2A00607 Calibration: 2002005 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.7175	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02146	107	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1L19003-BSD1	File ID:	039F3901.D
Sampled:		Prepared:		Analyzed:	01/04/12 11:35
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	1L19003	Sequence:	2A00607	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6001	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01917	95.9	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A03003-BLK1	File ID:	017F1701.D
Sampled:		Prepared:		Analyzed:	01/03/12 23:35
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2A03003	Sequence:	2A00607	Calibration:	2002005	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	0.009499	47.5	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A03003-BS1	File ID:	018F1801.D
Sampled:		Prepared:		Analyzed:	01/04/12 00:08
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2A03003	Sequence:	2A00607	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5016	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01146	57.3	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	2A03003-BSD1	File ID:	019F1901.D
Sampled:		Prepared:		Analyzed:	01/04/12 00:41
Solids:		Preparation:	EXT_3510	Dilution:	

Batch:	2A03003	Sequence:	2A00607	Calibration:	2002005	Instrument:	GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5196	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01078	53.9	30 - 140	

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00302	Instrument:	GL-ECD2
Calibration:	2003001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2A00302-CAL1	002R0101.D	12/21/11 12:08
Cal Standard	2A00302-CAL1	002F0101.D	12/21/11 12:08
Cal Standard	2A00302-CAL2	003F0101.D	12/21/11 12:29
Cal Standard	2A00302-CAL2	003R0101.D	12/21/11 12:29
Cal Standard	2A00302-CAL3	004F0101.D	12/21/11 12:51
Cal Standard	2A00302-CAL3	004R0101.D	12/21/11 12:51
Cal Standard	2A00302-CAL4	005R0101.D	12/21/11 13:12
Cal Standard	2A00302-CAL4	005F0101.D	12/21/11 13:12
Cal Standard	2A00302-CAL5	006R0101.D	12/21/11 13:33
Cal Standard	2A00302-CAL5	006F0101.D	12/21/11 13:33
Cal Standard	2A00302-CAL6	007F0101.D	12/21/11 13:54
Cal Standard	2A00302-CAL6	007R0101.D	12/21/11 13:54
Cal Standard	2A00302-CAL7	008F0101.D	12/21/11 14:15
Cal Standard	2A00302-CAL7	008R0101.D	12/21/11 14:15
Cal Standard	2A00302-CAL8	009F0101.D	12/21/11 14:36
Cal Standard	2A00302-CAL8	009R0101.D	12/21/11 14:36
Initial Cal Check	2A00302-ICV1	010R0101.D	12/21/11 14:57
Initial Cal Check	2A00302-ICV1	010F0101.D	12/21/11 14:57

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00303	Instrument:	GL-ECD2
Calibration:	2003001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A00303-CCV1	011R0101.D	12/21/11 15:18
Calibration Check	2A00303-CCV1	011F0101.D	12/21/11 15:18
Blank	1L21006-BLK1	012F0101.D	12/21/11 15:40
LCS	1L21006-BS1	013R0101.D	12/21/11 16:01
LCS	1L21006-BS1	013F0101.D	12/21/11 16:01
LCS Dup	1L21006-BSD1	014R0101.D	12/21/11 16:22
LCS Dup	1L21006-BSD1	014F0101.D	12/21/11 16:22
Calibration Check	2A00303-CCV2	017R0101.D	12/21/11 17:25
Calibration Check	2A00303-CCV2	017F0101.D	12/21/11 17:25
GW0259	1112084-01RE1	018F0101.D	12/21/11 17:46
GW0259	1112084-01RE1	018R0101.D	12/21/11 17:46
GW0255	1112091-01RE1	020R0101.D	12/21/11 18:28
GW0273	1112091-03RE1	021F0101.D	12/21/11 18:50
GW0273	1112091-03RE1	021R0101.D	12/21/11 18:50
GW0326	1112109-03RE1	023R0101.D	12/21/11 19:33
GW0326	1112109-03RE1	023F0101.D	12/21/11 19:33
GW0334	1112109-05RE1	024R0101.D	12/21/11 19:54
GW0334	1112109-05RE1	024F0101.D	12/21/11 19:54
GW0264	1112117-01RE1	026R0101.D	12/21/11 20:36
GW0264	1112117-01RE1	026F0101.D	12/21/11 20:36
Calibration Check	2A00303-CCV3	028F0101.D	12/21/11 21:19
Calibration Check	2A00303-CCV3	028R0101.D	12/21/11 21:19
GW0265	1112117-03RE1	029R0101.D	12/21/11 21:40
GW0265	1112117-03RE1	029F0101.D	12/21/11 21:40
GW0276	1112117-05RE1	031R0101.D	12/21/11 22:23
GW0276	1112117-05RE1	031F0101.D	12/21/11 22:23
Calibration Check	2A00303-CCV4	032R0101.D	12/21/11 22:44
Calibration Check	2A00303-CCV4	032F0101.D	12/21/11 22:44

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00306	Instrument:	GL-ECD2
Calibration:	2003001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A00306-CCV1	002R0101.D	12/22/11 13:51
Calibration Check	2A00306-CCV1	002F0101.D	12/22/11 13:51
GW0260	1112084-03RE1	004R0101.D	12/22/11 14:33
GW0260	1112084-03RE1	004F0101.D	12/22/11 14:33
GW0320	1112109-01RE1	007R0101.D	12/22/11 15:37
GW0320	1112109-01RE1	007F0101.D	12/22/11 15:37
Calibration Check	2A00306-CCV2	008R0101.D	12/22/11 15:58
Calibration Check	2A00306-CCV2	008F0101.D	12/22/11 15:58

ANALYSIS DATA SHEET

GW0259

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-01RE1	File ID:	018F0101.D
Sampled:	12/12/11 14:27	Prepared:	12/21/11 07:49	Analyzed:	12/21/11 17:46
Solids:		Preparation:	EDB	Dilution:	200

Batch: 1L21006 Sequence: 2A00303 Calibration: 2003001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	63.8	1.89	3.78	5.68	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0260

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-03RE1	File ID:	004F0101.D
Sampled:	12/12/11 10:34	Prepared:	12/21/11 07:49	Analyzed:	12/22/11 14:33
Solids:		Preparation:	EDB	Dilution:	5

Batch: 1L21006 Sequence: 2A00306 Calibration: 2003001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	1.36	0.0470	0.0941	0.141	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0255

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-01RE1	File ID:	020R0101.D
Sampled:	12/13/11 10:31	Prepared:	12/21/11 07:49	Analyzed:	12/21/11 18:28
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1L21006 Sequence: 2A00303 Calibration: 2003001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00937	0.0187	0.0281	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0273

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-03RE1	File ID:	021F0101.D
Sampled:	12/13/11 13:48	Prepared:	12/21/11 07:49	Analyzed:	12/21/11 18:50
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1L21006 Sequence: 2A00303 Calibration: 2003001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.345	0.00939	0.0188	0.0282	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0320

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-01RE1	File ID:	007F0101.D
Sampled:	12/15/11 11:08	Prepared:	12/21/11 07:49	Analyzed:	12/22/11 15:37
Solids:		Preparation:	EDB	Dilution:	10

Batch: 1L21006 Sequence: 2A00306 Calibration: 2003001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	5.26	0.0949	0.190	0.285	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0326

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-03RE1	File ID:	023F0101.D
Sampled:	12/14/11 11:45	Prepared:	12/21/11 07:49	Analyzed:	12/21/11 19:33
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1L21006 Sequence: 2A00303 Calibration: 2003001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.217	0.00939	0.0188	0.0282	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0334

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-05RE1	File ID:	024F0101.D
Sampled:	12/14/11 15:48	Prepared:	12/21/11 07:49	Analyzed:	12/21/11 19:54
Solids:		Preparation:	EDB	Dilution:	200

Batch: 1L21006 Sequence: 2A00303 Calibration: 2003001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	110	1.88	3.76	5.64	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0264

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-01RE1	File ID:	026F0101.D
Sampled:	12/15/11 16:13	Prepared:	12/21/11 07:49	Analyzed:	12/21/11 20:36
Solids:		Preparation:	EDB	Dilution:	200

Batch: 1L21006 Sequence: 2A00303 Calibration: 2003001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	126	1.89	3.77	5.66	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0265

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-03RE1	File ID:	029F0101.D
Sampled:	12/15/11 16:13	Prepared:	12/21/11 07:49	Analyzed:	12/21/11 21:40
Solids:		Preparation:	EDB	Dilution:	200

Batch: 1L21006 Sequence: 2A00303 Calibration: 2003001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	129	1.87	3.74	5.60	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0276

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-05RE1	File ID:	031F0101.D
Sampled:	12/16/11 14:02	Prepared:	12/21/11 07:49	Analyzed:	12/21/11 22:23
Solids:		Preparation:	EDB	Dilution:	1

Batch: 1L21006 Sequence: 2A00303 Calibration: 2003001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.150	0.00947	0.0189	0.0284	

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L21006	Laboratory ID:	1L21006-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	0.4803	96.1	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4477	89.5	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.4748	95.0	1.15	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4456	89.1	0.475	20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L21006 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0259	1112084-01RE1	12/21/11 07:49	37.00	35.00
GW0260	1112084-03RE1	12/21/11 07:49	37.21	35.00
GW0255	1112091-01RE1	12/21/11 07:49	37.37	35.00
GW0273	1112091-03RE1	12/21/11 07:49	37.27	35.00
GW0320	1112109-01RE1	12/21/11 07:49	36.89	35.00
GW0326	1112109-03RE1	12/21/11 07:49	37.27	35.00
GW0334	1112109-05RE1	12/21/11 07:49	37.26	35.00
GW0264	1112117-01RE1	12/21/11 07:49	37.11	35.00
GW0265	1112117-03RE1	12/21/11 07:49	37.47	35.00
GW0276	1112117-05RE1	12/21/11 07:49	36.95	35.00
Blank	1L21006-BLK1	12/21/11 07:49	35.00	35.00
LCS	1L21006-BS1	12/21/11 07:49	35.00	35.00
LCS Dup	1L21006-BSD1	12/21/11 07:49	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1L21006-BLK1	File ID:	012F0101.D
Sampled:		Prepared:	12/21/11 07:49	Analyzed:	12/21/11 15:40
Solids:		Preparation:	EDB	Dilution:	

Batch: 1L21006 Sequence: 2A00303 Calibration: 2003001 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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00302	Instrument:	GL-ECD2
Calibration:	2003001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11L0560	EDB ICAL 1.0 (0.03ppb)	2A00302-CAL1	002R0101.D	12/21/11 12:08
11L0560	EDB ICAL 1.0 (0.03ppb)	2A00302-CAL1	002F0101.D	12/21/11 12:08
11L0561	EDB ICAL 2 (0.05ppb)	2A00302-CAL2	003F0101.D	12/21/11 12:29
11L0561	EDB ICAL 2 (0.05ppb)	2A00302-CAL2	003R0101.D	12/21/11 12:29
11L0562	EDB ICAL 3 (0.10ppb)	2A00302-CAL3	004F0101.D	12/21/11 12:51
11L0562	EDB ICAL 3 (0.10ppb)	2A00302-CAL3	004R0101.D	12/21/11 12:51
11L0563	EDB ICAL 4 (0.15ppb)	2A00302-CAL4	005R0101.D	12/21/11 13:12
11L0563	EDB ICAL 4 (0.15ppb)	2A00302-CAL4	005F0101.D	12/21/11 13:12
11L0564	EDB ICAL 5 (0.2ppb)	2A00302-CAL5	006R0101.D	12/21/11 13:33
11L0564	EDB ICAL 5 (0.2ppb)	2A00302-CAL5	006F0101.D	12/21/11 13:33
11L0567	EDB ICAL 6 (0.4ppb)	2A00302-CAL6	007F0101.D	12/21/11 13:54
11L0567	EDB ICAL 6 (0.4ppb)	2A00302-CAL6	007R0101.D	12/21/11 13:54
11L0568	EDB ICAL 7 (0.5ppb)	2A00302-CAL7	008F0101.D	12/21/11 14:15
11L0568	EDB ICAL 7 (0.5ppb)	2A00302-CAL7	008R0101.D	12/21/11 14:15
11L0569	EDB ICAL 8 (1.0ppb)	2A00302-CAL8	009R0101.D	12/21/11 14:36
11L0569	EDB ICAL 8 (1.0ppb)	2A00302-CAL8	009F0101.D	12/21/11 14:36

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2003001	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	12/21/11 12:08	12/21/11 14:36

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
1,2-Dibromoethane	1	34254	0.5	39704	0.4	41917.5	0.2	53280	0.15	60833.33	0.1	76990
1,2-Dibromoethane [2C]	1	31843	0.5	32434	0.4	32932.5	0.2	35265	0.15	35546.67	0.1	38430
1,2-Dibromo-3-chloropropane	1	51066	0.5	56016	0.4	58530	0.2	69405	0.15	74520	0.1	89520
1,2-Dibromo-3-chloropropane [2C]	1	63398	0.5	66804	0.4	70927.5	0.2	89510	0.15	100366.7	0.1	127050

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2003001	Instrument:	GL-ECD2
Matrix:	Water	Calibration Dates:	12/21/11 12:08 12/21/11 14:36

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
1,2-Dibromoethane	0.05	120260	0.03	179233.3								
1,2-Dibromoethane [2C]	0.05	47900	0.03	53900								
1,2-Dibromo-3-chloropropane	0.05	118480	0.03	159400								
1,2-Dibromo-3-chloropropane [2C]	0.05	195200	0.03	284300								

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	2003001	Instrument:	GL-ECD2	
Matrix:	Water	Calibration Dates:	12/21/11 12:08	12/21/11 14:36

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	75809.02	66.11468	2.419875	7.900788E-02	0.9996729		0.995	
1,2-Dibromoethane [2C]	38531.4	20.96552	2.29	2.130526E-02	0.9999557		0.995	
1,2-Dibromo-3-chloropropane	84617.13	44.03966	8.50925	3.504686E-02	0.9992747		0.995	
1,2-Dibromo-3-chloropropane [2C]	124694.5	62.32609	8.697875	0.0254763	0.9987552		0.995	

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2003001
Lab File ID:	010F0101.D	Calibration Date:	12/21/11 12:08
Sequence:	2A00302	Injection Date:	12/21/11
Lab Sample ID:	2A00302-ICV1	Injection Time:	14:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4959	75809.02	38890		-0.8	20
1,2-Dibromoethane [2C]	L	0.5000	0.4720	38531.4	30822		-5.6	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2003001
Lab File ID:	011F0101.D	Calibration Date:	12/21/11 12:08
Sequence:	2A00303	Injection Date:	12/21/11
Lab Sample ID:	2A00303-CCV1	Injection Time:	15:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5129	75809.02	39906		2.6	20
1,2-Dibromoethane [2C]	L	0.5000	0.4744	38531.4	30974		-5.1	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_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2003001
Lab File ID:	017F0101.D	Calibration Date:	12/21/11 12:08
Sequence:	2A00303	Injection Date:	12/21/11
Lab Sample ID:	2A00303-CCV2	Injection Time:	17:25

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5123	75809.02	39870		2.5	20
1,2-Dibromoethane [2C]	L	0.5000	0.4787	38531.4	31240		-4.3	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2003001
Lab File ID:	028F0101.D	Calibration Date:	12/21/11 12:08
Sequence:	2A00303	Injection Date:	12/21/11
Lab Sample ID:	2A00303-CCV3	Injection Time:	21:19

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4843	75809.02	38200		-3.1	20
1,2-Dibromoethane [2C]	L	0.5000	0.4580	38531.4	29954		-8.4	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2003001
Lab File ID:	032F0101.D	Calibration Date:	12/21/11 12:08
Sequence:	2A00303	Injection Date:	12/21/11
Lab Sample ID:	2A00303-CCV4	Injection Time:	22:44

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.4803	75809.02	37962		-3.9	20
1,2-Dibromoethane [2C]	L	0.5000	0.4554	38531.4	29796		-8.9	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2003001
Lab File ID:	002F0101.D	Calibration Date:	12/21/11 12:08
Sequence:	2A00306	Injection Date:	12/22/11
Lab Sample ID:	2A00306-CCV1	Injection Time:	13:51

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5042	75809.02	39388		0.8	20
1,2-Dibromoethane [2C]	L	0.5000	0.4574	38531.4	29918		-8.5	20

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	2003001
Lab File ID:	008F0101.D	Calibration Date:	12/21/11 12:08
Sequence:	2A00306	Injection Date:	12/22/11
Lab Sample ID:	2A00306-CCV2	Injection Time:	15:58

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	L	0.5000	0.5155	75809.02	40060		3.1	20
1,2-Dibromoethane [2C]	L	0.5000	0.4871	38531.4	31762		-2.6	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_039

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
GW0259	12/12/11 14:27	12/13/11 08:15	12/21/11 07:49	N/A	14.00	12/21/11 17:46	9.10	14.00	
GW0260	12/12/11 10:34	12/13/11 08:15	12/21/11 07:49	N/A	14.00	12/22/11 14:33	10.12	14.00	
GW0255	12/13/11 10:31	12/14/11 08:15	12/21/11 07:49	N/A	14.00	12/21/11 18:28	8.29	14.00	
GW0273	12/13/11 13:48	12/14/11 08:15	12/21/11 07:49	N/A	14.00	12/21/11 18:50	8.17	14.00	
GW0320	12/15/11 11:08	12/16/11 08:15	12/21/11 07:49	N/A	14.00	12/22/11 15:37	7.15	14.00	
GW0326	12/14/11 11:45	12/16/11 08:15	12/21/11 07:49	N/A	14.00	12/21/11 19:33	7.28	14.00	
GW0334	12/14/11 15:48	12/16/11 08:15	12/21/11 07:49	N/A	14.00	12/21/11 19:54	7.13	14.00	
GW0264	12/15/11 16:13	12/17/11 08:20	12/21/11 07:49	N/A	14.00	12/21/11 20:36	6.14	14.00	
GW0265	12/15/11 16:13	12/17/11 08:20	12/21/11 07:49	N/A	14.00	12/21/11 21:40	6.19	14.00	
GW0276	12/16/11 14:02	12/17/11 08:20	12/21/11 07:49	N/A	14.00	12/21/11 22:23	5.31	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1L21006-BS1	File ID:	013F0101.D
Sampled:		Prepared:		Analyzed:	12/21/11 16:01
Solids:		Preparation:	EDB	Dilution:	

Batch: 1L21006 Sequence: 2A00303 Calibration: 2003001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4803	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1L21006-BS1	File ID:	013R0101.D
Sampled:		Prepared:		Analyzed:	12/21/11 16:01
Solids:		Preparation:	EDB	Dilution:	

Batch: 1L21006 Sequence: 2A00303 Calibration: 2003001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4477	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC			SDG:	Kirtland_039
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:		Laboratory ID:	1L21006-BSD1	File ID:	014F0101.D
Sampled:		Prepared:		Analyzed:	12/21/11 16:22
Solids:		Preparation:	EDB	Dilution:	

Batch: 1L21006 Sequence: 2A00303 Calibration: 2003001 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4748	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011

Matrix:		Laboratory ID:	1L21006-BSD1	File ID:	014R0101.D
Sampled:		Prepared:		Analyzed:	12/21/11 16:22
Solids:		Preparation:	EDB	Dilution:	

Batch:	1L21006	Sequence:	2A00303	Calibration:	2003001	Instrument:	GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4456	0.0100	0.0200	0.0300	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0259

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1112084-01RE1

Date(s) Analyzed: 12/21/2011 12/21/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.39	2.45	63.8	
	2	2.29	2.26	2.32	57.7	10

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0260

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1112084-03RE1 Date(s) Analyzed: 12/22/2011 12/22/2011

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.39	2.45	1.36	
	2	2.29	2.26	2.32	1.21	12

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0273

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1112091-03RE1 Date(s) Analyzed: 12/21/2011 12/21/2011

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.39	2.45	0.345	
	2	2.29	2.26	2.32	0.321	7

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0320

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1112109-01RE1 Date(s) Analyzed: 12/22/2011 12/22/2011

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.43	2.39	2.45	5.26	
	2	2.29	2.26	2.32	4.72	11

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0326

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1112109-03RE1 Date(s) Analyzed: 12/21/2011 12/21/2011

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.39	2.45	0.217	
	2	2.29	2.26	2.32	0.211	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0334

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1112109-05RE1 Date(s) Analyzed: 12/21/2011 12/21/2011

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.43	2.39	2.45	110	
	2	2.29	2.26	2.32	103	7

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0264

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1112117-01RE1 Date(s) Analyzed: 12/21/2011 12/21/2011

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.39	2.45	126	
	2	2.29	2.26	2.32	114	10

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0265

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1112117-03RE1

Date(s) Analyzed: 12/21/2011 12/21/2011

Instrument ID (1): GL-ECD2

Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.43	2.39	2.45	129	
	2	2.29	2.26	2.32	119	8

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0276

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1112117-05RE1 Date(s) Analyzed: 12/21/2011 12/21/2011

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.39	2.45	0.150	
	2	2.29	2.26	2.32	0.141	6

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1L21006-BS1 Date(s) Analyzed: 12/21/2011 12/21/2011

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.39	2.45	0.4803	
	2	2.29	2.26	2.32	0.4477	7

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1L21006-BSD1 Date(s) Analyzed: 12/21/2011 12/21/2011

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	2.42	2.39	2.45	0.4748	
	2	2.29	2.26	2.32	0.4456	6

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0259

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-01
Sampled:	12/12/11 14:27	Received:	12/13/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	137000	1000	2000	5000	1		SW6010B	1L20001	12/21/11 13:19
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L20001	12/21/11 13:19
7439-95-4	Magnesium	22600	1000	3000	5000	1		SW6010B	1L20001	12/21/11 13:19
7440-09-7	Potassium	5010	1000	3000	5000	1		SW6010B	1L20001	12/21/11 13:19
7440-23-5	Sodium	71700	1000	3000	5000	1		SW6010B	1L20001	12/21/11 13:19

ANALYSIS DATA SHEET

GW0259

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-02
Sampled:	12/12/11 14:27	Received:	12/13/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	2460	30.0	60.0	100	1	X	SW6010B	1L28007	12/28/11 17:32
7439-96-5	Manganese (dissolved)	4550	3.00	6.00	15.0	1		SW6010B	1L28007	12/28/11 17:32

ANALYSIS DATA SHEET

GW0260

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-03
Sampled:	12/12/11 10:34	Received:	12/13/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	47900	1000	2000	5000	1		SW6010B	1L20001	12/21/11 13:24
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L20001	12/21/11 13:24
7439-95-4	Magnesium	6580	1000	3000	5000	1		SW6010B	1L20001	12/21/11 13:24
7440-09-7	Potassium	2460	1000	3000	5000	1	J	SW6010B	1L20001	12/21/11 13:24
7440-23-5	Sodium	27200	1000	3000	5000	1		SW6010B	1L20001	12/21/11 13:24

ANALYSIS DATA SHEET

GW0260

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-04
Sampled:	12/12/11 10:34	Received:	12/13/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	57.2	30.0	60.0	100	1	X J	SW6010B	1L28007	12/28/11 17:37
7439-96-5	Manganese (dissolved)	95.2	3.00	6.00	15.0	1		SW6010B	1L28007	12/28/11 17:37

ANALYSIS DATA SHEET

GW0255

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-01
Sampled:	12/13/11 10:31	Received:	12/14/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	55600	1000	2000	5000	1		SW6010B	1L20001	12/21/11 13:28
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L20001	12/21/11 13:28
7439-95-4	Magnesium	8420	1000	3000	5000	1		SW6010B	1L20001	12/21/11 13:28
7440-09-7	Potassium	2720	1000	3000	5000	1	J	SW6010B	1L20001	12/21/11 13:28
7440-23-5	Sodium	27200	1000	3000	5000	1		SW6010B	1L20001	12/21/11 13:28

ANALYSIS DATA SHEET

GW0255

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-02
Sampled:	12/13/11 10:31	Received:	12/14/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	X U	SW6010B	1L28007	12/28/11 17:41
7439-96-5	Manganese (dissolved)	27.9	3.00	6.00	15.0	1		SW6010B	1L28007	12/28/11 17:41

ANALYSIS DATA SHEET

GW0273

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-03
Sampled:	12/13/11 13:48	Received:	12/14/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	44500	1000	2000	5000	1		SW6010B	1L20001	12/21/11 13:33
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L20001	12/21/11 13:33
7439-95-4	Magnesium	5880	1000	3000	5000	1		SW6010B	1L20001	12/21/11 13:33
7440-09-7	Potassium	2290	1000	3000	5000	1	J	SW6010B	1L20001	12/21/11 13:33
7440-23-5	Sodium	25600	1000	3000	5000	1		SW6010B	1L20001	12/21/11 13:33

ANALYSIS DATA SHEET

GW0273

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-04
Sampled:	12/13/11 13:48	Received:	12/14/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	X U	SW6010B	1L28007	12/28/11 17:46
7439-96-5	Manganese (dissolved)	108	3.00	6.00	15.0	1		SW6010B	1L28007	12/28/11 17:46

ANALYSIS DATA SHEET

GW0320

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-01
Sampled:	12/15/11 11:08	Received:	12/16/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	59000	1000	2000	5000	1		SW6010B	1L20001	12/21/11 14:05
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L20001	12/21/11 14:05
7439-95-4	Magnesium	8310	1000	3000	5000	1		SW6010B	1L20001	12/21/11 14:05
7440-09-7	Potassium	2740	1000	3000	5000	1	J	SW6010B	1L20001	12/21/11 14:05
7440-23-5	Sodium	30600	1000	3000	5000	1		SW6010B	1L20001	12/21/11 14:05

ANALYSIS DATA SHEET

GW0320

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-02
Sampled:	12/15/11 11:08	Received:	12/16/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	112	30.0	60.0	100	1	X	SW6010B	1L28007	12/28/11 17:50
7439-96-5	Manganese (dissolved)	393	3.00	6.00	15.0	1		SW6010B	1L28007	12/28/11 17:50

ANALYSIS DATA SHEET

GW0326

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-03
Sampled:	12/14/11 11:45	Received:	12/16/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	44900	1000	2000	5000	1		SW6010B	1L20001	12/21/11 14:09
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L20001	12/21/11 14:09
7439-95-4	Magnesium	5990	1000	3000	5000	1		SW6010B	1L20001	12/21/11 14:09
7440-09-7	Potassium	2320	1000	3000	5000	1	J	SW6010B	1L20001	12/21/11 14:09
7440-23-5	Sodium	25600	1000	3000	5000	1		SW6010B	1L20001	12/21/11 14:09

ANALYSIS DATA SHEET

GW0326

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-04
Sampled:	12/14/11 11:45	Received:	12/16/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	X U	SW6010B	1L28007	12/28/11 17:55
7439-96-5	Manganese (dissolved)	5.06	3.00	6.00	15.0	1	J	SW6010B	1L28007	12/28/11 17:55

ANALYSIS DATA SHEET

GW0334

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-05
Sampled:	12/14/11 15:48	Received:	12/16/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	75900	1000	2000	5000	1		SW6010B	1L20001	12/21/11 14:14
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1L20001	12/21/11 14:14
7439-95-4	Magnesium	11400	1000	3000	5000	1		SW6010B	1L20001	12/21/11 14:14
7440-09-7	Potassium	3190	1000	3000	5000	1	J	SW6010B	1L20001	12/21/11 14:14
7440-23-5	Sodium	38700	1000	3000	5000	1		SW6010B	1L20001	12/21/11 14:14

ANALYSIS DATA SHEET

GW0334

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-06
Sampled:	12/14/11 15:48	Received:	12/16/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	1580	30.0	60.0	100	1	X	SW6010B	1L28007	12/28/11 18:00
7439-96-5	Manganese (dissolved)	1070	3.00	6.00	15.0	1		SW6010B	1L28007	12/28/11 18:00

ANALYSIS DATA SHEET

GW0264

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-01
Sampled:	12/15/11 16:13	Received:	12/17/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	84600	1000	2000	5000	1		SW6010B	2A04001	01/05/12 14:27
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2A04001	01/05/12 14:27
7439-95-4	Magnesium	11800	1000	3000	5000	1		SW6010B	2A04001	01/05/12 14:27
7440-09-7	Potassium	3120	1000	3000	5000	1	J	SW6010B	2A04001	01/05/12 14:27
7440-23-5	Sodium	30800	1000	3000	5000	1	Y	SW6010B	2A04001	01/05/12 14:27

ANALYSIS DATA SHEET

GW0264

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-02
Sampled:	12/15/11 16:13	Received:	12/17/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	145	30.0	60.0	100	1		SW6010B	2A05013	01/05/12 16:10
7439-96-5	Manganese (dissolved)	1160	3.00	6.00	15.0	1		SW6010B	2A05013	01/05/12 16:10

ANALYSIS DATA SHEET

GW0265

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-03
Sampled:	12/15/11 16:13	Received:	12/17/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	84400	1000	2000	5000	1		SW6010B	2A04001	01/05/12 14:32
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2A04001	01/05/12 14:32
7439-95-4	Magnesium	11800	1000	3000	5000	1		SW6010B	2A04001	01/05/12 14:32
7440-09-7	Potassium	3110	1000	3000	5000	1	J	SW6010B	2A04001	01/05/12 14:32
7440-23-5	Sodium	30300	1000	3000	5000	1	Y	SW6010B	2A04001	01/05/12 14:32

ANALYSIS DATA SHEET

GW0265

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-04
Sampled:	12/15/11 16:13	Received:	12/17/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	139	30.0	60.0	100	1		SW6010B	2A05013	01/05/12 16:14
7439-96-5	Manganese (dissolved)	1120	3.00	6.00	15.0	1		SW6010B	2A05013	01/05/12 16:14

ANALYSIS DATA SHEET

GW0276

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-05
Sampled:	12/16/11 14:02	Received:	12/17/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	75900	1000	2000	5000	1		SW6010B	2A04001	01/05/12 14:36
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2A04001	01/05/12 14:36
7439-95-4	Magnesium	10400	1000	3000	5000	1		SW6010B	2A04001	01/05/12 14:36
7440-09-7	Potassium	3310	1000	3000	5000	1	J	SW6010B	2A04001	01/05/12 14:36
7440-23-5	Sodium	32500	1000	3000	5000	1	Y	SW6010B	2A04001	01/05/12 14:36

ANALYSIS DATA SHEET

GW0276

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-06
Sampled:	12/16/11 14:02	Received:	12/17/11 08:20
% 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	2A05013	01/05/12 16:19
7439-96-5	Manganese (dissolved)	228	3.00	6.00	15.0	1		SW6010B	2A05013	01/05/12 16:19

ANALYSIS DATA SHEET

GW8034-RB

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-07
Sampled:	12/16/11 09:22	Received:	12/17/11 08:20
% Solids:	0.00		

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium		1000	2000	5000	1	U	SW6010B	2A04001	01/05/12 14:41
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	2A04001	01/05/12 14:41
7439-95-4	Magnesium		1000	3000	5000	1	U	SW6010B	2A04001	01/05/12 14:41
7440-09-7	Potassium		1000	3000	5000	1	U	SW6010B	2A04001	01/05/12 14:41
7440-23-5	Sodium		1000	3000	5000	1	Y U	SW6010B	2A04001	01/05/12 14:41

ANALYSIS DATA SHEET

GW8034-RB

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-08
Sampled:	12/16/11 09:22	Received:	12/17/11 08:20
% 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	2A05013	01/05/12 16:23
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	2A05013	01/05/12 16:23

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

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

SDG: Kirtland_039
Project: Kirtland AFB 2011
Calibration: 1356001
Sequence: 1L35601

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L35601-ICV1	Calcium	50000	51730	103	ug/L	+/- 10.00%
	Lead	1000	987.8	98.8	ug/L	+/- 10.00%
	Magnesium	50000	50360	101	ug/L	+/- 10.00%
	Potassium	10000	9374	93.7	ug/L	+/- 10.00%
	Sodium	50000	52540	105	ug/L	+/- 10.00%
1L35601-CCV1	Calcium	50000	52990	106	ug/L	+/- 10.00%
	Lead	1000	993.0	99.3	ug/L	+/- 10.00%
	Magnesium	50000	51080	102	ug/L	+/- 10.00%
	Potassium	10000	10150	102	ug/L	+/- 10.00%
	Sodium	50000	53260	107	ug/L	+/- 10.00%
1L35601-CCV2	Calcium	50000	54080	108	ug/L	+/- 10.00%
	Lead	1000	1012	101	ug/L	+/- 10.00%
	Magnesium	50000	51540	103	ug/L	+/- 10.00%
	Potassium	10000	10310	103	ug/L	+/- 10.00%
	Sodium	50000	54050	108	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_039
Project: Kirtland AFB 2011
Calibration: 1363001
Sequence: 1L36302

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L36302-ICV1	Iron (dissolved)	10000	10520	105	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1027	103	ug/L	+/- 10.00%
1L36302-CCV1	Iron (dissolved)	10000	10420	104	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1004	100	ug/L	+/- 10.00%
1L36302-CCV6	**Iron (dissolved)**	**10000**	**11070**	**111**	**ug/L**	+/- 10.00%
	Manganese (dissolved)	1000	1040	104	ug/L	+/- 10.00%
1L36302-CCV7	Iron (dissolved)	10000	9978	99.8	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1002	100	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

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

SDG: Kirtland_039
Project: Kirtland AFB 2011
Calibration: 2009001
Sequence: 2A00605

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
2A00605-ICV1	Calcium	50000	51560	103	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10220	102	ug/L	+/- 10.00%
	Lead	1000	987.1	98.7	ug/L	+/- 10.00%
	Magnesium	50000	48960	97.9	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1027	103	ug/L	+/- 10.00%
	Potassium	10000	9164	91.6	ug/L	+/- 10.00%
	Sodium	50000	49120	98.2	ug/L	+/- 10.00%
2A00605-CCV1	Calcium	50000	50610	101	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10200	102	ug/L	+/- 10.00%
	Lead	1000	996.6	99.7	ug/L	+/- 10.00%
	Magnesium	50000	48960	97.9	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1021	102	ug/L	+/- 10.00%
	Potassium	10000	9817	98.2	ug/L	+/- 10.00%
	Sodium	50000	49220	98.4	ug/L	+/- 10.00%
2A00605-CCV2	Calcium	50000	48090	96.2	ug/L	+/- 10.00%
	Lead	1000	1062	106	ug/L	+/- 10.00%
	Magnesium	50000	48070	96.1	ug/L	+/- 10.00%
	Potassium	10000	9669	96.7	ug/L	+/- 10.00%
	Sodium	**50000**	**44790**	**89.6**	**ug/L**	+/- 10.00%
2A00605-CCV3	Iron (dissolved)	10000	9184	91.8	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	989.2	98.9	ug/L	+/- 10.00%
2A00605-CCV4	Iron (dissolved)	10000	9340	93.4	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1005	100	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_039

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1356001

Sequence: 1L35601

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1L35601-CRL1	Calcium	2000	2088	104	ug/L	80 - 120
	Lead	3.000	2.957	98.6	ug/L	80 - 120
	Magnesium	3000	3042	101	ug/L	80 - 120
	Potassium	3000	2969	99.0	ug/L	80 - 120
	Sodium	3000	3078	103	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_039

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1363001

Sequence: 1L36302

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1L36302-CRL1	Iron (dissolved)	60.00	63.72	106	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.265	104	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_039

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 2009001

Sequence: 2A00605

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
2A00605-CRL1	Calcium	2000	2088	104	ug/L	80 - 120
	Iron (dissolved)	60.00	68.01	113	ug/L	80 - 120
	Lead	3.000	3.198	107	ug/L	80 - 120
	Magnesium	3000	3057	102	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.363	106	ug/L	80 - 120
	Potassium	3000	3064	102	ug/L	80 - 120
	Sodium	3000	3106	104	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1L35601
Calibration: 1356001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L35601-ICB1	Calcium	0.9900	1000	5000	ug/L	U	SW6010B
	Lead	-0.08541	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-0.7700	1000	5000	ug/L	U	SW6010B
	Potassium	-4.920	1000	5000	ug/L	U	SW6010B
	Sodium	5.800	1000	5000	ug/L	U	SW6010B
1L35601-CCB1	Calcium	4.45	1000	5000	ug/L	U	SW6010B
	Lead	-0.226	1.50	3.00	ug/L	U	SW6010B
	Magnesium	3.65	1000	5000	ug/L	U	SW6010B
	Potassium	-7.83	1000	5000	ug/L	U	SW6010B
	Sodium	10.3	1000	5000	ug/L	U	SW6010B
1L20001-BLK1	Calcium	8.78	1000	5000	ug/L	U	SW6010B
	Lead	-0.190	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-5.50	1000	5000	ug/L	U	SW6010B
	Potassium	3.19	1000	5000	ug/L	U	SW6010B
	Sodium	11.6	1000	5000	ug/L	U	SW6010B
1L35601-CCB2	Calcium	2.37	1000	5000	ug/L	U	SW6010B
	Lead	0.594	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-1.68	1000	5000	ug/L	U	SW6010B
	Potassium	-15.5	1000	5000	ug/L	U	SW6010B
	Sodium	11.6	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1L36302
Calibration: 1363001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L36302-ICB1	Iron (dissolved)	0.4953	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.03728	3.00	15.0	ug/L	U	SW6010B
1L36302-CCB1	Iron (dissolved)	0.579	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.175	3.00	15.0	ug/L	U	SW6010B
1L36302-CCB6	Iron (dissolved)	9.57	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.206	3.00	15.0	ug/L	U	SW6010B
1L28007-BLK1	Iron (dissolved)	3.84	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.105	3.00	15.0	ug/L	U	SW6010B
1L36302-CCB7	Iron (dissolved)	-0.521	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.313	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 2A00605
Calibration: 2009001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
2A00605-ICB1	Calcium	2.960	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.9248	30.0	100	ug/L	U	SW6010B
	Lead	-0.3394	1.50	3.00	ug/L	U	SW6010B
	Magnesium	13.25	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	-0.01383	3.00	15.0	ug/L	U	SW6010B
	Potassium	23.45	1000	5000	ug/L	U	SW6010B
	Sodium	4.820	1000	5000	ug/L	U	SW6010B
2A00605-CCB1	Calcium	2.86	1000	5000	ug/L	U	SW6010B
	Lead	0.101	1.50	3.00	ug/L	U	SW6010B
	Magnesium	6.07	1000	5000	ug/L	U	SW6010B
	Potassium	17.4	1000	5000	ug/L	U	SW6010B
	Sodium	15.8	1000	5000	ug/L	U	SW6010B
2A04001-BLK1	Calcium	8.91	1000	5000	ug/L	U	SW6010B
	Lead	-0.0160	1.50	3.00	ug/L	U	SW6010B
	Magnesium	6.68	1000	5000	ug/L	U	SW6010B
	Potassium	21.3	1000	5000	ug/L	U	SW6010B
	Sodium	14.7	1000	5000	ug/L	U	SW6010B
2A00605-CCB2	Calcium	2.90	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.310	30.0	100	ug/L	U	SW6010B
	Lead	0.936	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-3.89	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.182	3.00	15.0	ug/L	U	SW6010B
	Potassium	4.62	1000	5000	ug/L	U	SW6010B
	Sodium	31.7	1000	5000	ug/L	U	SW6010B
2A00605-CCB3	Iron (dissolved)	2.72	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.415	3.00	15.0	ug/L	U	SW6010B
2A05013-BLK1	Iron (dissolved)	0.109	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.115	3.00	15.0	ug/L	U	SW6010B
2A00605-CCB4	Iron (dissolved)	1.90	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.276	3.00	15.0	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1356001
Sequence: 1L35601

Lab Sample ID	Analyte	True	Found	%R	Units
1L35601-IFA1	Calcium	500000	509,200.00	102	ug/L
	Lead		2.82		ug/L
	Magnesium	500000	500,110.00	100	ug/L
	Potassium		-31.87		ug/L
	Sodium		43.43		ug/L
1L35601-IFB1	Calcium	500000	488,200.00	97.6	ug/L
	Lead	50.00	51.01	102	ug/L
	Magnesium	500000	495,010.00	99.0	ug/L
	Potassium		-41.61		ug/L
	Sodium		45.92		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_039

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1363001

Sequence: 1L36302

Lab Sample ID	Analyte	True	Found	%R	Units
1L36302-IFA1	Iron (dissolved)	200000	205,850.00	103	ug/L
	Manganese (dissolved)		-4.09		ug/L
1L36302-IFB1	Iron (dissolved)	200000	205,630.00	103	ug/L
	Manganese (dissolved)	500.0	483.90	96.8	ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 2009001
Sequence: 2A00605

Lab Sample ID	Analyte	True	Found	%R	Units
2A00605-IFA1	Calcium	500000	495,090.00	99.0	ug/L
	Iron (dissolved)	200000	200,600.00	100	ug/L
	Lead		6.63		ug/L
	Magnesium	500000	486,650.00	97.3	ug/L
	Manganese (dissolved)		-3.79		ug/L
	Potassium		-8.38		ug/L
	Sodium		69.52		ug/L
2A00605-IFB1	Calcium	500000	468,060.00	93.6	ug/L
	Iron (dissolved)	200000	194,340.00	97.2	ug/L
	Lead	50.00	55.55	111	ug/L
	Magnesium	500000	474,010.00	94.8	ug/L
	Manganese (dissolved)	500.0	477.37	95.5	ug/L
	Potassium		-5.85		ug/L
	Sodium		46.75		ug/L

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L20001	Laboratory ID:	1L20001-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	5464	109	80 - 120
Lead	250.0	253.3	101	80 - 120
Magnesium	5000	5273	105	80 - 120
Potassium	5000	5196	104	80 - 120
Sodium	5000	5448	109	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L28007	Laboratory ID:	1L28007-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	1163	116	80 - 120
Manganese (dissolved)	500.0	538.0	108	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A04001	Laboratory ID:	2A04001-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	5277	106	80 - 120
Lead	250.0	253.4	101	80 - 120
Magnesium	5000	5116	102	80 - 120
Potassium	5000	5061	101	80 - 120
Sodium	5000	5200	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	2A05013	Laboratory ID:	2A05013-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	999.2	99.9	80 - 120
Manganese (dissolved)	500.0	527.5	106	80 - 120

USEPA - CLP

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

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

SDG No.: Kirtland_039

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_039

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_039

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_039

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_039

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_039

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_039

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_039

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

Batch: 1L20001 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0259	1112084-01	12/20/11 06:25	50.00	50.00
GW0260	1112084-03	12/20/11 06:25	50.00	50.00
GW0255	1112091-01	12/20/11 06:25	50.00	50.00
GW0273	1112091-03	12/20/11 06:25	50.00	50.00
GW0320	1112109-01	12/20/11 06:25	50.00	50.00
GW0326	1112109-03	12/20/11 06:25	50.00	50.00
GW0334	1112109-05	12/20/11 06:25	50.00	50.00
Blank	1L20001-BLK1	12/20/11 06:25	50.00	50.00
LCS	1L20001-BS1	12/20/11 06:25	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L28007 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0259	1112084-02	12/28/11 09:15	50.00	50.00
GW0260	1112084-04	12/28/11 09:15	50.00	50.00
GW0255	1112091-02	12/28/11 09:15	50.00	50.00
GW0273	1112091-04	12/28/11 09:15	50.00	50.00
GW0320	1112109-02	12/28/11 09:15	50.00	50.00
GW0326	1112109-04	12/28/11 09:15	50.00	50.00
GW0334	1112109-06	12/28/11 09:15	50.00	50.00
Blank	1L28007-BLK1	12/28/11 09:15	50.00	50.00
LCS	1L28007-BS1	12/28/11 09:15	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 2A04001 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0264	1112117-01	01/04/12 08:22	50.00	50.00
GW0265	1112117-03	01/04/12 08:22	50.00	50.00
GW0276	1112117-05	01/04/12 08:22	50.00	50.00
GW8034-RB	1112117-07	01/04/12 08:22	50.00	50.00
Blank	2A04001-BLK1	01/04/12 08:22	50.00	50.00
LCS	2A04001-BS1	01/04/12 08:22	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 2A05013 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0264	1112117-02	01/05/12 10:02	50.00	50.00
GW0265	1112117-04	01/05/12 10:02	50.00	50.00
GW0276	1112117-06	01/05/12 10:02	50.00	50.00
GW8034-RB	1112117-08	01/05/12 10:02	50.00	50.00
Blank	2A05013-BLK1	01/05/12 10:02	50.00	50.00
LCS	2A05013-BS1	01/05/12 10:02	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35601	Instrument:	ME-ICP
Calibration:	1356001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L35601-CAL1	122111A-001	12/21/11 10:35
Cal Standard	1L35601-CAL2	122111A-002	12/21/11 10:39
Cal Standard	1L35601-CAL3	122111A-003	12/21/11 10:44
Cal Standard	1L35601-CAL5	122111A-005	12/21/11 10:53
Cal Standard	1L35601-CAL6	122111A-006	12/21/11 10:58
Cal Standard	1L35601-CAL7	122111A-007	12/21/11 11:05
Cal Standard	1L35601-CAL8	122111A-008	12/21/11 11:10
Initial Cal Check	1L35601-ICV1	122111B-001	12/21/11 11:42
Initial Cal Blank	1L35601-ICB1	122111B-002	12/21/11 11:49
Instrument RL Check	1L35601-CRL1	122111B-005	12/21/11 12:05
Interference Check A	1L35601-IFA1	122111B-008	12/21/11 12:22
Interference Check B	1L35601-IFB1	122111B-009	12/21/11 12:27
Calibration Check	1L35601-CCV1	122111B-011	12/21/11 12:38
Calibration Blank	1L35601-CCB1	122111B-012	12/21/11 12:46
Blank	1L20001-BLK1	122111B-016	12/21/11 13:08
LCS	1L20001-BS1	122111B-017	12/21/11 13:13
GW0259	1112084-01	122111B-018	12/21/11 13:19
GW0260	1112084-03	122111B-019	12/21/11 13:24
GW0255	1112091-01	122111B-020	12/21/11 13:28
GW0273	1112091-03	122111B-021	12/21/11 13:33
GW0320	1112109-01	122111B-028	12/21/11 14:05
GW0326	1112109-03	122111B-029	12/21/11 14:09
GW0334	1112109-05	122111B-030	12/21/11 14:14
Calibration Check	1L35601-CCV2	122111B-031	12/21/11 14:19
Calibration Blank	1L35601-CCB2	122111B-032	12/21/11 14:27

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36302	Instrument:	ME-ICP
Calibration:	1363001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L36302-CAL1	12-28-11A-001	12/28/11 09:30
Cal Standard	1L36302-CAL2	12-28-11A-002	12/28/11 09:34
Cal Standard	1L36302-CAL3	12-28-11A-003	12/28/11 09:39
Cal Standard	1L36302-CAL4	12-28-11A-004	12/28/11 09:44
Cal Standard	1L36302-CAL5	12-28-11A-005	12/28/11 09:49
Cal Standard	1L36302-CAL6	12-28-11A-006	12/28/11 09:54
Initial Cal Check	1L36302-ICV1	12-28-11B-001	12/28/11 10:40
Initial Cal Blank	1L36302-ICB1	12-28-11B-002	12/28/11 10:47
Instrument RL Check	1L36302-CRL1	12-28-11B-003	12/28/11 10:52
Interference Check A	1L36302-IFA1	12-28-11B-006	12/28/11 11:07
Interference Check B	1L36302-IFB1	12-28-11B-007	12/28/11 11:13
Calibration Check	1L36302-CCV1	12-28-11B-009	12/28/11 11:24
Calibration Blank	1L36302-CCB1	12-28-11B-010	12/28/11 11:32
Calibration Check	1L36302-CCV6	12-28-11B-076	12/28/11 17:05
Calibration Blank	1L36302-CCB6	12-28-11B-077	12/28/11 17:12
Blank	1L28007-BLK1	12-28-11B-078	12/28/11 17:17
LCS	1L28007-BS1	12-28-11B-079	12/28/11 17:21
GW0259	1112084-02	12-28-11B-081	12/28/11 17:32
GW0260	1112084-04	12-28-11B-082	12/28/11 17:37
GW0255	1112091-02	12-28-11B-083	12/28/11 17:41
GW0273	1112091-04	12-28-11B-084	12/28/11 17:46
GW0320	1112109-02	12-28-11B-085	12/28/11 17:50
GW0326	1112109-04	12-28-11B-086	12/28/11 17:55
GW0334	1112109-06	12-28-11B-087	12/28/11 18:00
Calibration Check	1L36302-CCV7	12-28-11B-088	12/28/11 18:04
Calibration Blank	1L36302-CCB7	12-28-11B-089	12/28/11 18:11

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00605	Instrument:	ME-ICP
Calibration:	2009001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	2A00605-CAL1	010512A-001	01/05/12 11:46
Cal Standard	2A00605-CAL1	010512A-001	01/05/12 11:46
Cal Standard	2A00605-CAL2	010512A-002	01/05/12 11:50
Cal Standard	2A00605-CAL2	010512A-002	01/05/12 11:50
Cal Standard	2A00605-CAL3	010512A-003	01/05/12 11:55
Cal Standard	2A00605-CAL3	010512A-003	01/05/12 11:55
Cal Standard	2A00605-CAL4	010512A-004	01/05/12 11:59
Cal Standard	2A00605-CAL5	010512A-005	01/05/12 12:04
Cal Standard	2A00605-CAL5	010512A-005	01/05/12 12:04
Cal Standard	2A00605-CAL6	010512A-006	01/05/12 12:09
Cal Standard	2A00605-CAL6	010512A-006	01/05/12 12:09
Cal Standard	2A00605-CAL7	010512A-007	01/05/12 12:15
Cal Standard	2A00605-CAL8	010512A-008	01/05/12 12:20
Initial Cal Check	2A00605-ICV1	010512B-001	01/05/12 13:22
Initial Cal Check	2A00605-ICV1	010512B-001	01/05/12 13:22
Initial Cal Blank	2A00605-ICB1	010512B-002	01/05/12 13:29
Initial Cal Blank	2A00605-ICB1	010512B-002	01/05/12 13:29
Instrument RL Check	2A00605-CRL1	010512B-004	01/05/12 13:38
Instrument RL Check	2A00605-CRL1	010512B-004	01/05/12 13:38
Interference Check A	2A00605-IFA1	010512B-006	01/05/12 13:49
Interference Check A	2A00605-IFA1	010512B-006	01/05/12 13:49
Interference Check B	2A00605-IFB1	010512B-007	01/05/12 13:54
Interference Check B	2A00605-IFB1	010512B-007	01/05/12 13:54
Calibration Check	2A00605-CCV1	010512B-009	01/05/12 14:05
Calibration Check	2A00605-CCV1	010512B-009	01/05/12 14:05
Calibration Blank	2A00605-CCB1	010512B-010	01/05/12 14:12
Blank	2A04001-BLK1	010512B-011	01/05/12 14:16
LCS	2A04001-BS1	010512B-012	01/05/12 14:21
GW0264	1112117-01	010512B-013	01/05/12 14:27
GW0265	1112117-03	010512B-014	01/05/12 14:32
GW0276	1112117-05	010512B-015	01/05/12 14:36
GW8034-RB	1112117-07	010512B-016	01/05/12 14:41

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	2A00605	Instrument:	ME-ICP
Calibration:	2009001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	2A00605-CCV2	010512B-023	01/05/12 15:16
Calibration Blank	2A00605-CCB2	010512B-024	01/05/12 15:23
Calibration Blank	2A00605-CCB2	010512B-024	01/05/12 15:23
Calibration Check	2A00605-CCV3	010512B-029	01/05/12 15:47
Calibration Blank	2A00605-CCB3	010512B-030	01/05/12 15:54
Blank	2A05013-BLK1	010512B-031	01/05/12 15:59
LCS	2A05013-BS1	010512B-032	01/05/12 16:04
GW0264	1112117-02	010512B-033	01/05/12 16:10
GW0265	1112117-04	010512B-034	01/05/12 16:14
GW0276	1112117-06	010512B-035	01/05/12 16:19
GW8034-RB	1112117-08	010512B-036	01/05/12 16:23
Calibration Check	2A00605-CCV4	010512B-046	01/05/12 17:11
Calibration Blank	2A00605-CCB4	010512B-047	01/05/12 17:18

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1356001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	12/21/11 10:35 12/21/11 11:10

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	1.9846E-05	10000	1.9028E-05			500000	1.9256E-05		
Antimony	0	0	100	0.0005443	1000	5.5532E-04					10000	5.4962E-04
Arsenic	0	0	100	0.0003	1000	3.1752E-04					10000	3.0832E-04
Barium	0	0	50	0.010688	1000	0.0099016	5000	0.0102212				
Beryllium	0	0	100	0.0022402	1000	0.002233					10000	0.0022088
Boron	0	0	50	0.0000126	1000	1.262E-05					5000	1.2284E-05
Cadmium	0	0	100	0.015372	1000	0.015312					10000	0.014427
Calcium	0	0	1100	0.0000533	50000	5.1434E-05					10000	
Chromium	0	0	100	0.000046	1000	4.478E-05					10000	4.4731E-05
Cobalt	0	0	100	0.0049359	1000	0.0047606					10000	0.0048347
Copper	0	0	100	0.0000623	1000	5.885E-05					10000	5.8601E-05
Iron	0	0	5100	1.654314E-05	10000	1.5425E-05			500000	1.50086E-05	10000	
Lead	0	0	100	0.0012632	1000	0.0012123					10000	0.0012285
Magnesium	0	0	5100		50000	2.2126E-06			500000	2.2426E-06	10000	
Manganese	0	0	100	0.0002518	1000	2.4675E-04	10000	2.4184E-04			10000	
Molybdenum	0	0	100	0.0034543	1000	0.003498					10000	0.0034426
Nickel	0	0	100	0.0030322	1000	0.0029087					10000	0.0028995
Potassium	0	0	1000	8.31E-06	10000	1.1533E-05						
Selenium	0	0	100	0.0003651	1000	3.6603E-04					10000	3.5507E-04
Silver	0	0	20	0.0000555	500	5.224E-05	2000	5.5275E-05				
Sodium	0	0	1000		50000	0.000032						
Strontium	0	0	100	0.001479	1000	0.001469					10000	0.001479
Thallium	0	0	100	0.0006215	1000	6.2234E-04					10000	0.0006191
Tin	0	0	50	0.0012222	1000	0.0012371					5000	1.23684E-03
Titanium	0	0	100	0.000205	1000	0.0002012					10000	0.0002011
Vanadium	0	0	100	0.0000469	1000	4.657E-05					10000	4.5901E-05
Zinc	0	0	100	0.0067155	1000	0.0066507					10000	0.0065503

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1356001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	12/21/11 10:35 12/21/11 11:10

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	4.9698E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.169E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.2038E-05										
Selenium												
Silver												
Sodium	100000	3.2396E-05	500000	3.2088E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_039	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	1356001		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	12/21/11 10:35	12/21/11 11:10

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.45325E-05	66.70884	4.938317	176.9981	0.9999998		0.998	
Antimony	4.1231E-04	66.6756	11.7668	189.5141	0.9999987		0.998	
Arsenic	2.3146E-04	66.73831	18.61034	196.6325	0.9999896		0.998	
Barium	0.0077027	66.79835	1.033583	172.392	0.999954		0.998	
Beryllium	0.0016705	66.67151	13.27222	192.5934	0.9999989		0.998	
Boron	9.376E-06	66.68687	1.64609	78.54819	0.9999714		0.998	
Cadmium	1.127775E-02	66.77664	6.31803	194.3684	0.9999654		0.998	
Calcium	3.8608E-05	66.77543	2.467015	151.9529	0.9999884		0.998	
Chromium	3.387775E-05	66.68918	11.64067	186.1381	0.9999999		0.998	
Cobalt	0.0036328	66.696	0.7864425	156.6461	0.9999971		0.998	
Copper	4.493775E-05	66.77242	1.010277	70.26721	1		0.998	
Iron	1.174418E-05	66.89459	11.75896	186.3807	0.9999993		0.998	
Lead	0.000926	66.70609	2.929642	172.1464	0.9999977		0.998	
Magnesium	1.65605E-06	66.69163	13.11678	194.3998	0.9999566		0.998	
Manganese	1.850975E-04	66.70286	5.016183	173.5585	0.9999965		0.998	
Molybdenum	2.598725E-03	66.67298	1.766755	170.2461	0.9999975		0.998	
Nickel	0.0022101	66.72285	0.48507	129.6422	1		0.998	
Potassium	7.97025E-06	69.81178	2.472273	106.0756	0.9999983		0.998	
Selenium	2.7155E-04	66.6917	5.219965	185.2389	0.9999918		0.998	
Silver	4.075375E-05	66.76638	2.808975	121.8276	0.999783		0.998	
Sodium	2.4121E-05	66.67038	6.201852	187.5711	0.999995		0.998	
Strontium	1.10675E-03	66.66803	3.78675	165.551	0.9999996		0.998	
Thallium	4.65735E-04	66.66732	2.049305	156.6093	0.9999995		0.998	
Tin	9.24035E-04	66.67093	2.709525	192.5262	1		0.998	
Titanium	1.51825E-04	66.67738	5.068077	175.6484	1		0.998	
Vanadium	3.484275E-05	66.67734	5.787525	177.9043	0.9999982		0.998	
Zinc	4.979125E-03	66.68063	5.500125	193.3841	0.999998		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1363001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	12/28/11 9:30 12/28/11 10:05

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	2.0086E-05	10000	1.986E-05			500000	1.99018E-05		
Antimony	0	0	100	0.000477	1000	4.8785E-04					10000	4.6998E-04
Arsenic	0	0	100	0.0002994	1000	0.000321					10000	3.1114E-04
Barium	0	0	50	0.0099204	1000	0.009459	5000	0.0096762				
Beryllium	0	0	100	0.0025444	1000	0.0025867					10000	0.0025324
Boron	0	0	50	0.0000142	1000	1.386E-05					5000	1.3886E-05
Cadmium	0	0	100	0.015353	1000	0.015463					10000	0.014547
Calcium	0	0	1100	5.917273E-05	50000	5.7958E-05					10000	
Chromium	0	0	100	0.0000459	1000	4.472E-05					10000	4.4783E-05
Cobalt	0	0	100	0.0043651	1000	0.0042635					10000	0.0042403
Copper	0	0	100	0.0000592	1000	5.473E-05					10000	5.4387E-05
Iron	0	0	5100	1.813725E-05	10000	1.7388E-05			500000	1.69712E-05	10000	
Lead	0	0	100	0.001178	1000	0.0011376					10000	0.0011391
Magnesium	0	0	5100		50000	2.3138E-06			500000	2.3562E-06	10000	
Manganese	0	0	100	0.0002616	1000	2.5961E-04	10000	2.5588E-04			10000	
Molybdenum	0	0	100	0.0033485	1000	0.0034286					10000	0.0033624
Nickel	0	0	100	0.0029497	1000	0.0028999					10000	0.0028788
Potassium	0	0	1000	9.37E-06	10000	1.251E-05						
Selenium	0	0	100	0.000355	1000	3.5452E-04					10000	3.4168E-04
Silver	0	0	20	0.000058	500	0.0000549	2000	5.8225E-05				
Sodium	0	0	1000		50000	3.7264E-05						
Strontium	0	0	100	0.001467	1000	0.001475					10000	0.001454
Thallium	0	0	100	0.0006419	1000	0.0006422					10000	6.4282E-04
Tin	0	0	50	0.0011768	1000	0.0011969					5000	1.18646E-03
Titanium	0	0	100	0.0002025	1000	2.0191E-04					10000	1.9931E-04
Vanadium	0	0	100	0.0000485	1000	4.847E-05					10000	4.8854E-05
Zinc	0	0	100	0.0064475	1000	0.0064019					10000	0.0062292

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1363001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	12/28/11 9:30 12/28/11 10:05

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	5.5834E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.2681E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.2849E-05										
Selenium												
Silver												
Sodium	100000	3.7965E-05	500000	3.725E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039		
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011		
Calibration:	1363001	Instrument:	ME-ICP		
Matrix:	Water	Calibration Dates:	12/28/11 9:30	12/28/11 10:05	

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.496195E-05	66.66989	4.580765	177.388	1		0.998	
Antimony	3.587075E-04	66.69816	125.181	198.9916	0.999986		0.998	
Arsenic	2.32885E-04	66.77438	16.04358	191.0857	0.9999883		0.998	
Barium	0.0072639	66.71714	1.04125	139.4712	0.9999764		0.998	
Beryllium	1.915875E-03	66.67775	14.91601	192.2454	0.9999955		0.998	
Boron	1.04865E-05	66.68295	2.42315	141.4763	0.9999987		0.998	
Cadmium	1.134075E-02	66.76384	3.009607	186.003	0.999963		0.998	
Calcium	4.324118E-05	66.74299	2.245605	139.0413	0.9999861		0.998	
Chromium	3.385075E-05	66.6859	4.553978	161.7839	0.9999999		0.998	
Cobalt	3.217225E-03	66.68795	1.1063	134.6182	0.9999999		0.998	
Copper	4.207925E-05	66.86997	2.194063	111.9215	1		0.998	
Iron	1.312411E-05	66.76796	18.05749	194.5561	0.9999996		0.998	
Lead	8.63675E-04	66.70182	4.113578	177.5695	0.9999998		0.998	
Magnesium	1.734525E-06	66.69892	32.96536	197.6517	0.9999447		0.998	
Manganese	1.942725E-04	66.67783	2.864465	132.3492	0.9999981		0.998	
Molybdenum	2.534875E-03	66.68092	5.503843	187.4359	0.9999961		0.998	
Nickel	0.0021821	66.68058	3.4698	180.0949	0.9999997		0.998	
Potassium	8.68225E-06	69.06424	2.95045	115.1025	1		0.998	
Selenium	0.0002628	66.70798	2.383728	158.9168	0.9999878		0.998	
Silver	4.278125E-05	66.76093	3.082625	170.4335	0.999768		0.998	
Sodium	2.811975E-05	66.67723	3.75374	189.5279	0.9999828		0.998	
Strontium	0.001099	66.67132	1.9084	126.7139	0.9999979		0.998	
Thallium	4.8173E-04	66.66671	10.66265	190.0105	1		0.998	
Tin	8.9004E-04	66.67304	2.723068	176.5068	0.9999962		0.998	
Titanium	1.5093E-04	66.67299	2.256482	152.3728	0.9999987		0.998	
Vanadium	3.6456E-05	66.66838	3.565313	130.9792	0.9999994		0.998	
Zinc	4.76965E-03	66.69581	1.344045	159.2542	0.9999934		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2009001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	1/5/12_11:46 1/5/12_12:20

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	2.084E-05	10000	2.067E-05			500000	2.0818E-05		
Antimony	0	0	100	0.0004806	1000	4.9932E-04					10000	4.8775E-04
Arsenic	0	0	100	0.0003188	1000	3.3713E-04					10000	3.2913E-04
Barium	0	0	50	0.0102356	1000	9.805299E-03	5000	0.0100298				
Beryllium	0	0	100	0.0027352	1000	0.002747					10000	0.0026697
Boron	0	0	50	0.0000148	1000	1.445E-05					5000	1.4236E-05
Cadmium	0	0	100	0.015921	1000	0.01601					10000	0.015156
Calcium	0	0	1100	6.182728E-05	50000	5.9666E-05					10000	
Chromium	0	0	100	0.0000471	1000	4.588E-05					10000	4.534E-05
Cobalt	0	0	100	0.0044119	1000	0.0043431					10000	0.0043689
Copper	0	0	100	0.0000573	1000	5.301E-05					10000	5.1744E-05
Iron	0	0	5100	1.917843E-05	10000	1.8258E-05			500000	1.75592E-05	10000	
Lead	0	0	100	0.0011926	1000	0.0011654					10000	0.001178
Magnesium	0	0	5100		50000	2.3734E-06			500000	2.4254E-06	10000	
Manganese	0	0	100	0.0002737	1000	2.6707E-04	10000	2.5679E-04			10000	
Molybdenum	0	0	100	0.0034949	1000	0.0035855					10000	0.0035379
Nickel	0	0	100	0.0030802	1000	0.0030313					10000	0.0030373
Potassium	0	0	1000	1.026E-05	10000	1.311E-05						
Selenium	0	0	100	0.0003645	1000	3.7199E-04					10000	3.6022E-04
Silver	0	0	20	0.000061	500	5.788E-05	2000	6.0355E-05				
Sodium	0	0	1000		50000	4.0342E-05						
Strontium	0	0	100	0.001508	1000	0.001505					10000	0.001497
Thallium	0	0	100	0.0006738	1000	6.7287E-04					10000	6.7486E-04
Tin	0	0	50	0.001221	1000	0.0012378					5000	1.23566E-03
Titanium	0	0	100	0.0002081	1000	2.0438E-04					10000	2.0392E-04
Vanadium	0	0	100	0.0000511	1000	5.051E-05					10000	4.9761E-05
Zinc	0	0	100	0.0065109	1000	0.006565					10000	0.0064268
Aluminum	0	0	5000	2.084E-05	10000	2.067E-05			500000	2.0818E-05		
Antimony	0	0	100	0.0004806	1000	4.9932E-04					10000	4.8775E-04
Arsenic	0	0	100	0.0003188	1000	3.3713E-04					10000	3.2913E-04
Barium	0	0	50	0.0102356	1000	9.805299E-03	5000	0.0100298				

INITIAL CALIBRATION DATA

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2009001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	1/5/12_11:46 1/5/12_12:20

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0027352	1000	0.002747					10000	0.0026697
Boron	0	0	50	0.0000148	1000	1.445E-05					5000	1.4236E-05
Cadmium	0	0	100	0.015921	1000	0.01601					10000	0.015156
Calcium	0	0	1100	6.182728E-05	50000	5.9666E-05					10000	
Chromium	0	0	100	0.0000471	1000	4.588E-05					10000	4.534E-05
Cobalt	0	0	100	0.0044119	1000	0.0043431					10000	0.0043689
Copper	0	0	100	0.0000573	1000	5.301E-05					10000	5.1744E-05
Iron	0	0	5100	1.917843E-05	10000	1.8258E-05			500000	1.75592E-05	10000	
Lead	0	0	100	0.0011926	1000	0.0011654					10000	0.001178
Magnesium	0	0	5100		50000	2.3734E-06			500000	2.4254E-06	10000	
Manganese	0	0	100	0.0002737	1000	2.6707E-04	10000	2.5679E-04			10000	
Molybdenum	0	0	100	0.0034949	1000	0.0035855					10000	0.0035379
Nickel	0	0	100	0.0030802	1000	0.0030313					10000	0.0030373
Potassium	0	0	1000	1.026E-05	10000	1.311E-05						
Selenium	0	0	100	0.0003645	1000	3.7199E-04					10000	3.6022E-04
Silver	0	0	20	0.000061	500	5.788E-05	2000	6.0355E-05				
Sodium	0	0	1000		50000	4.0342E-05						
Strontium	0	0	100	0.001508	1000	0.001505					10000	0.001497
Thallium	0	0	100	0.0006738	1000	6.7287E-04					10000	6.7486E-04
Tin	0	0	50	0.001221	1000	0.0012378					5000	1.23566E-03
Titanium	0	0	100	0.0002081	1000	2.0438E-04					10000	2.0392E-04
Vanadium	0	0	100	0.0000511	1000	5.051E-05					10000	4.9761E-05
Zinc	0	0	100	0.0065109	1000	0.006565					10000	0.0064268

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2009001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	1/5/12 11:46 1/5/12 12:20

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	5.7474E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.3092E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3439E-05										
Selenium												
Silver												
Sodium	100000	4.0328E-05	500000	3.9828E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2009001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	1/5/12 11:46 1/5/12 12:20

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	5.7474E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	2.3092E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3439E-05										
Selenium												
Silver												
Sodium	100000	4.0328E-05	500000	3.9828E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC		SDG:	Kirtland_039	
Client:	Shaw E & I (I700)		Project:	Kirtland AFB 2011	
Calibration:	2009001		Instrument:	ME-ICP	
Matrix:	Water		Calibration Dates:	1/5/12 11:46	1/5/12 12:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.5582E-05	66.66843	8.633512	188.0416	1		0.998	
Antimony	3.669175E-04	66.6998	19.12309	196.429	0.9999939		0.998	
Arsenic	2.46265E-04	66.73626	16.19313	196.4003	0.9999929		0.998	
Barium	7.517675E-03	66.70763	0.5461375	155.928	0.9999768		0.998	
Beryllium	2.037975E-03	66.68754	14.20034	191.7531	0.9999922		0.998	
Boron	1.08715E-05	66.70095	3.147455	159.4043	0.999993		0.998	
Cadmium	1.177175E-02	66.74615	5.22925	195.2556	0.9999704		0.998	
Calcium	4.474182E-05	66.7849	2.163075	137.679	0.9999861		0.998	
Chromium	3.458E-05	66.70065	17.2993	191.82	0.9999989		0.998	
Cobalt	3.280975E-03	66.67228	2.609395	183.7811	0.9999995		0.998	
Copper	4.05135E-05	66.92447	0.77509	44.34771	0.9999974		0.998	
Iron	1.374891E-05	66.84089	25.07197	196.2984	0.9999993		0.998	
Lead	0.000884	66.67852	3.795027	190.3662	0.9999986		0.998	
Magnesium	1.777E-06	66.72029	119.4542	199.7674	0.9999088		0.998	
Manganese	1.9939E-04	66.75791	1.908355	136.5504	0.9999859		0.998	
Molybdenum	2.654575E-03	66.68124	10.04542	195.8418	0.999998		0.998	
Nickel	0.0022872	66.67347	1.802208	175.7764	0.9999999		0.998	
Potassium	9.20225E-06	68.44737	2.403205	151.7531	0.9999999		0.998	
Selenium	2.741775E-04	66.69027	2.906405	167.356	0.9999901		0.998	
Silver	4.480875E-05	66.73419	7.190763	165.0939	0.9998782		0.998	
Sodium	3.01245E-05	66.67139	5.770678	171.1314	0.9999938		0.998	
Strontium	0.0011275	66.66794	2.8701	168.8415	0.9999997		0.998	
Thallium	5.053825E-04	66.66686	4.283235	188.0404	0.9999999		0.998	
Tin	9.23615E-04	66.67157	5.553258	192.0187	0.9999998		0.998	
Titanium	0.0001541	66.67773	2.714743	176.3649	1		0.998	
Vanadium	3.784275E-05	66.68239	4.324585	164.2947	0.9999981		0.998	
Zinc	4.875675E-03	66.67687	3.59821	189.8272	0.9999956		0.998	
Aluminum	1.5582E-05	66.66843	8.633512	188.0416	1		0.998	
Antimony	3.669175E-04	66.6998	19.12309	196.429	0.9999939		0.998	
Arsenic	2.46265E-04	66.73626	16.19313	196.4003	0.9999929		0.998	
Barium	7.517675E-03	66.70763	0.5461375	155.928	0.9999768		0.998	
Beryllium	2.037975E-03	66.68754	14.20034	191.7531	0.9999922		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	2009001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	1/5/12 11:46 1/5/12 12:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	1.08715E-05	66.70095	3.147455	159.4043	0.999993		0.998	
Cadmium	1.177175E-02	66.74615	5.22925	195.2556	0.9999704		0.998	
Calcium	4.474182E-05	66.7849	2.163075	137.679	0.9999861		0.998	
Chromium	3.458E-05	66.70065	17.2993	191.82	0.9999989		0.998	
Cobalt	3.280975E-03	66.67228	2.609395	183.7811	0.9999995		0.998	
Copper	4.05135E-05	66.92447	0.77509	44.34771	0.9999974		0.998	
Iron	1.374891E-05	66.84089	25.07197	196.2984	0.9999993		0.998	
Lead	0.000884	66.67852	3.795027	190.3662	0.9999986		0.998	
Magnesium	1.777E-06	66.72029	119.4542	199.7674	0.9999088		0.998	
Manganese	1.9939E-04	66.75791	1.908355	136.5504	0.9999859		0.998	
Molybdenum	2.654575E-03	66.68124	10.04542	195.8418	0.999998		0.998	
Nickel	0.0022872	66.67347	1.802208	175.7764	0.9999999		0.998	
Potassium	9.20225E-06	68.44737	2.403205	151.7531	0.9999999		0.998	
Selenium	2.741775E-04	66.69027	2.906405	167.356	0.9999901		0.998	
Silver	4.480875E-05	66.73419	7.190763	165.0939	0.9998782		0.998	
Sodium	3.01245E-05	66.67139	5.770678	171.1314	0.9999938		0.998	
Strontium	0.0011275	66.66794	2.8701	168.8415	0.9999997		0.998	
Thallium	5.053825E-04	66.66686	4.283235	188.0404	0.9999999		0.998	
Tin	9.23615E-04	66.67157	5.553258	192.0187	0.9999998		0.998	
Titanium	0.0001541	66.67773	2.714743	176.3649	1		0.998	
Vanadium	3.784275E-05	66.68239	4.324585	164.2947	0.9999981		0.998	
Zinc	4.875675E-03	66.67687	3.59821	189.8272	0.9999956		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0259

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-01
Sampled:	12/12/11 14:27	Received:	12/13/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	0.178	0.110	0.150	0.300	1	J	SM4500NH3BG	1L19001	12/19/11 15:02
18496-25-8	Sulfide	1.30	0.741	1.85	3.70	1	J	SM4500S2CF	1L15014	12/15/11 13:41
10-09-3	Alkalinity, Bicarbonate (as CACO3)	294	1.00	1.00	1.00	1		SM2320B	1L20019	12/20/11 16:05
16887-00-6	Chloride	137	0.170	0.330	0.500	1		E300.0	1L14016	12/14/11 18:27
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L16012	12/16/11 13:33
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1L20019	12/20/11 16:05
14808-79-8	Sulfate as SO4	19.0	0.330	1.00	2.00	1		E300.0	1L14016	12/14/11 18:27

ANALYSIS DATA SHEET

GW0260

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112084-03
Sampled:	12/12/11 10:34	Received:	12/13/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1L19001	12/19/11 15:04
18496-25-8	Sulfide	1.40	0.690	1.72	3.45	1	J	SM4500S2CF	1L15014	12/15/11 13:41
10-09-3	Alkalinity, Bicarbonate (as CACO3)	128	1.00	1.00	1.00	1		SM2320B	1L20019	12/20/11 16:16
16887-00-6	Chloride	10.5	0.170	0.330	0.500	1		E300.0	1L14016	12/14/11 18:44
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L16012	12/16/11 13:35
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1L20019	12/20/11 16:16
14808-79-8	Sulfate as SO4	26.0	0.330	1.00	2.00	1		E300.0	1L14016	12/14/11 18:44

ANALYSIS DATA SHEET

GW0255

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-01
Sampled:	12/13/11 10:31	Received:	12/14/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1L19001	12/19/11 15:09
18496-25-8	Sulfide	0.700	0.690	1.72	3.45	1	J	SM4500S2CF	1L15014	12/15/11 13:42
10-09-3	Alkalinity, Bicarbonate (as CACO3)	162	1.00	1.00	1.00	1		SM2320B	1L22003	12/22/11 17:55
16887-00-6	Chloride	13.3	0.170	0.330	0.500	1		E300.0	1L14016	12/14/11 19:19
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L16012	12/16/11 13:42
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1L22003	12/22/11 17:55
14808-79-8	Sulfate as SO4	28.6	0.330	1.00	2.00	1		E300.0	1L14016	12/14/11 19:19

ANALYSIS DATA SHEET

GW0273

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112091-03
Sampled:	12/13/11 13:48	Received:	12/14/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1L19001	12/19/11 15:10
18496-25-8	Sulfide	0.800	0.690	1.72	3.45	1	J	SM4500S2CF	1L15014	12/15/11 13:43
10-09-3	Alkalinity, Bicarbonate (as CACO3)	117	1.00	1.00	1.00	1		SM2320B	1L22003	12/22/11 18:05
16887-00-6	Chloride	9.56	0.170	0.330	0.500	1		E300.0	1L14016	12/14/11 19:37
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L16012	12/16/11 13:44
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1L22003	12/22/11 18:05
14808-79-8	Sulfate as SO4	29.7	0.330	1.00	2.00	1		E300.0	1L14016	12/14/11 19:37

ANALYSIS DATA SHEET

GW0320

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-01
Sampled:	12/15/11 11:08	Received:	12/16/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1L19001	12/19/11 15:16
18496-25-8	Sulfide	0.828	0.690	1.72	3.45	1	J	SM4500S2CF	1L21015	12/21/11 15:08
10-09-3	Alkalinity, Bicarbonate (as CACO3)	161	1.00	1.00	1.00	1		SM2320B	1L22003	12/22/11 18:18
16887-00-6	Chloride	13.2	0.170	0.330	0.500	1		E300.0	1L20018	12/20/11 19:05
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L16012	12/16/11 13:51
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1L22003	12/22/11 18:18
14808-79-8	Sulfate as SO4	24.9	0.330	1.00	2.00	1		E300.0	1L20018	12/20/11 19:05

ANALYSIS DATA SHEET

GW0326

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-03
Sampled:	12/14/11 11:45	Received:	12/16/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1L19001	12/19/11 15:17
18496-25-8	Sulfide	0.828	0.690	1.72	3.45	1	J	SM4500S2CF	1L21015	12/21/11 15:09
10-09-3	Alkalinity, Bicarbonate (as CACO3)	113	1.00	1.00	1.00	1		SM2320B	1L22003	12/22/11 18:28
16887-00-6	Chloride	11.8	0.170	0.330	0.500	1		E300.0	1L20018	12/20/11 19:23
NA	Nitrate/Nitrite as N	0.542	0.250	0.750	1.50	1	J	E353.2	1L16012	12/16/11 13:52
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1L22003	12/22/11 18:28
14808-79-8	Sulfate as SO4	34.2	0.330	1.00	2.00	1		E300.0	1L20018	12/20/11 19:23

ANALYSIS DATA SHEET

GW0334

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112109-05
Sampled:	12/14/11 15:48	Received:	12/16/11 08:15
% Solids:	0.00		

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1L19001	12/19/11 15:18
18496-25-8	Sulfide	0.966	0.690	1.72	3.45	1	J	SM4500S2CF	1L21015	12/21/11 15:10
10-09-3	Alkalinity, Bicarbonate (as CACO3)	197	1.00	1.00	1.00	1		SM2320B	1L22003	12/22/11 18:37
16887-00-6	Chloride	12.8	0.170	0.330	0.500	1		E300.0	1L20018	12/20/11 19:40
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L16012	12/16/11 13:54
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1L22003	12/22/11 18:37
14808-79-8	Sulfate as SO4	27.6	0.330	1.00	2.00	1		E300.0	1L20018	12/20/11 19:40

ANALYSIS DATA SHEET

GW0264

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-01
Sampled:	12/15/11 16:13	Received:	12/17/11 08:20
% 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	1L19001	12/19/11 15:19
18496-25-8	Sulfide	1.38	0.690	1.72	3.45	1	J	SM4500S2CF	1L21015	12/21/11 15:11
10-09-3	Alkalinity, Bicarbonate (as CACO3)	167	1.00	1.00	1.00	1		SM2320B	1L22003	12/22/11 18:48
16887-00-6	Chloride	56.3	0.170	0.330	0.500	1		E300.0	1L20018	12/20/11 19:57
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L22016	12/22/11 14:16
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1L22003	12/22/11 18:48
14808-79-8	Sulfate as SO4	39.2	0.330	1.00	2.00	1		E300.0	1L20018	12/20/11 19:57

ANALYSIS DATA SHEET

GW0265

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1112117-03
Sampled:	12/15/11 16:13	Received:	12/17/11 08:20
% 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	1L19001	12/19/11 15:20
18496-25-8	Sulfide	1.38	0.690	1.72	3.45	1	J	SM4500S2CF	1L21015	12/21/11 15:12
10-09-3	Alkalinity, Bicarbonate (as CACO3)	159	1.00	1.00	1.00	1		SM2320B	1L22003	12/22/11 18:59
16887-00-6	Chloride	57.4	0.170	0.330	0.500	1		E300.0	1L20018	12/20/11 20:15
NA	Nitrate/Nitrite as N		0.250	0.750	1.50	1	U	E353.2	1L22016	12/22/11 14:18
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1L22003	12/22/11 18:59
14808-79-8	Sulfate as SO4	38.8	0.330	1.00	2.00	1		E300.0	1L20018	12/20/11 20:15

ANALYSIS DATA SHEET

GW0276

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 12/16/11 14:02
% Solids: 0.00

SDG: Kirtland_039
Project: Kirtland AFB 2011
Laboratory ID: 1112117-05
Received: 12/17/11 08:20

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	1L19001	12/19/11 15:20
18496-25-8	Sulfide	1.10	0.690	1.72	3.45	1	J	SM4500S2CF	1L21015	12/21/11 15:13
10-09-3	Alkalinity, Bicarbonate (as CACO3)	94.9	1.00	1.00	1.00	1		SM2320B	1L22003	12/22/11 19:12
16887-00-6	Chloride	81.7	0.170	0.330	0.500	1		E300.0	1L20018	12/20/11 20:32
NA	Nitrate/Nitrite as N	1.06	0.250	0.750	1.50	1	J	E353.2	1L22016	12/22/11 14:19
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1L22003	12/22/11 19:12
14808-79-8	Sulfate as SO4	63.9	0.330	1.00	2.00	1		E300.0	1L20018	12/20/11 20:32

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

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

SDG: Kirtland_039
Project: Kirtland AFB 2011
Calibration: 1335002
Sequence: 1L33502

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L33502-ICV1	Chloride	4.800	5.082	106	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	24.04	100	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_039
Project: Kirtland AFB 2011
Calibration: 1350003
Sequence: 1L35013

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L35013-ICV1	Nitrate/Nitrite as N	1.200	1.228	102	mg/L	+/- 10.00%
1L35013-CCV1	Nitrate/Nitrite as N	1.200	1.196	99.7	mg/L	+/- 10.00%
1L35013-CCV2	Nitrate/Nitrite as N	1.200	1.183	98.6	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_039
Project: Kirtland AFB 2011
Calibration: 1353001
Sequence: 1L35305

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L35305-ICV1	Ammonia as N	2.000	2.136	107	mg/L	+/- 10.00%
1L35305-CCV1	Ammonia as N	2.000	2.106	105	mg/L	+/- 10.00%
1L35305-CCV2	Ammonia as N	2.000	2.117	106	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

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

SDG: Kirtland_039
Project: Kirtland AFB 2011
Calibration: 1335002
Sequence: 1L35306

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L35306-CCV1	Chloride	25.00	25.62	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.68	103	mg/L	+/- 10.00%
1L35306-CCV2	Chloride	25.00	25.42	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.35	101	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_039
Project: Kirtland AFB 2011
Calibration: 1356004
Sequence: 1L35612

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L35612-ICV1	Nitrate/Nitrite as N	1.200	1.224	102	mg/L	+/- 10.00%
1L35612-CCV1	Nitrate/Nitrite as N	1.200	1.199	99.9	mg/L	+/- 10.00%
1L35612-CCV2	Nitrate/Nitrite as N	1.200	1.163	96.9	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_039
Project: Kirtland AFB 2011
Calibration: 1335002
Sequence: 1L36305

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1L36305-CCV1	Chloride	25.00	25.71	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.53	102	mg/L	+/- 10.00%
1L36305-CCV2	Chloride	25.00	25.36	101	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.16	101	mg/L	+/- 10.00%
1L36305-CCV3	Chloride	25.00	25.39	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.16	101	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_039

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1335002

Sequence: 1L35306

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1L35306-CRL1	Chloride	0.5000	0.5390	108	mg/L	75 - 125
	Sulfate as SO4	0.5000	0.5660	113	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_039

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 1335002

Sequence: 1L36305

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1L36305-CRL1	Chloride	0.5000	0.4310	86.2	mg/L	75 - 125
	Sulfate as SO4	0.5000	0.4350	87.0	mg/L	75 - 125

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L14016

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L14016-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_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L15014

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L15014-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L16012

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L16012-BLK1	Nitrate/Nitrite as N	-0.0265	0.0500	0.300	mg/L	U	E353.2

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L19001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L19001-BLK1	Ammonia as N	0.0102	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L20018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L20018-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
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L20019

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L20019-BLK1	Alkalinity, Total (as CACO3)	0.394	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L21015

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L21015-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L22003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L22003-BLK1	Alkalinity, Total (as CACO3)	-0.394	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1L22016

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L22016-BLK1	Nitrate/Nitrite as N	-0.0166	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1L33502
Calibration: 1335002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L33502-ICB1	Chloride	0.000	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.000	0.330	2.00	mg/L	U	E300.0

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1L35013
Calibration: 1350003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L35013-ICB1	Nitrate/Nitrite as N	-0.02391	0.0500	0.300	mg/L	U	E353.2
1L35013-CCB1	Nitrate/Nitrite as N	-0.0229	0.0500	0.300	mg/L	U	E353.2
1L35013-CCB2	Nitrate/Nitrite as N	-0.0264	0.0500	0.300	mg/L	U	E353.2

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1L35305
Calibration: 1353001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L35305-ICB1	Ammonia as N	-0.004676	0.110	0.300	mg/L	U	SM4500NH3BG
1L35305-CCB1	Ammonia as N	-0.00269	0.110	0.300	mg/L	U	SM4500NH3BG
1L35305-CCB2	Ammonia as N	-0.0107	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1L35306
Calibration: 1335002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L35306-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
1L35306-CCB2	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E353.2

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1L35612
Calibration: 1356004
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L35612-ICB1	Nitrate/Nitrite as N	-0.02128	0.0500	0.300	mg/L	U	E353.2
1L35612-CCB1	Nitrate/Nitrite as N	-0.0236	0.0500	0.300	mg/L	U	E353.2
1L35612-CCB2	Nitrate/Nitrite as N	-0.0250	0.0500	0.300	mg/L	U	E353.2

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: Kirtland_039
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1L36305
Calibration: 1335002
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1L36305-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
1L36305-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
1L36305-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

GW0273

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_039

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1L16012

% Solids:

Source Sample Name: **1112091-03**

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	2.522	101		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	2.536	101	0.593		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0259

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_039

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1L19001

% Solids:

Source Sample Name: **1112084-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	0.1782	4.861	93.7		75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0276

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_039

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1L22003

% Solids:

Source Sample Name: **1112117-05**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	94.91	208.7	102		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	208.3	102	0.210		20	75 - 125

GW0260

DUPLICATES

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1L19001
Preparation: pNone
Source Sample Name: GW0260

SDG: Kirtland_039
Project: Kirtland AFB 2011
Laboratory ID: 1L19001-DUP1
Lab Source ID: 1112084-03
Initial/Final: 100 mL / 100 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Ammonia as N	200	0.300 U	0.300 U			SM4500NH3BG

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L14016	Laboratory ID:	1L14016-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	4.998	104	90 - 110
Sulfate as SO4	24.00	24.52	102	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L15014	Laboratory ID:	1L15014-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1000	1000	100	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1000	1000	100	0.00	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L16012	Laboratory ID:	1L16012-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	31.20	97.5	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L19001	Laboratory ID:	1L19001-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	4.938	98.8	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L20018	Laboratory ID:	1L20018-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	4.930	103	90 - 110
Sulfate as SO4	24.00	24.38	102	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L20019	Laboratory ID:	1L20019-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	992.4	99.2	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L21015	Laboratory ID:	1L21015-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1000	1000	100	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1000	983.7	98.4	1.68	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L22003	Laboratory ID:	1L22003-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	970.7	97.1	80 - 120

LCS / LCS DUPLICATE RECOVERY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1L22016	Laboratory ID:	1L22016-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	30.78	96.2	80 - 120

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L14016 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0259	1112084-01	12/14/11 13:07	5.00	5.00
GW0260	1112084-03	12/14/11 13:07	5.00	5.00
GW0255	1112091-01	12/14/11 13:07	5.00	5.00
GW0273	1112091-03	12/14/11 13:07	5.00	5.00
Blank	1L14016-BLK1	12/14/11 13:07	5.00	5.00
LCS	1L14016-BS1	12/14/11 13:07	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L15014 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0259	1112084-01	12/15/11 12:27	270.00	200.00
GW0260	1112084-03	12/15/11 12:27	290.00	200.00
GW0255	1112091-01	12/15/11 12:27	290.00	200.00
GW0273	1112091-03	12/15/11 12:27	290.00	200.00
Blank	1L15014-BLK1	12/15/11 12:27	250.00	200.00
LCS	1L15014-BS1	12/15/11 12:27	3.00	250.00
LCS Dup	1L15014-BSD1	12/15/11 12:27	3.00	250.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L16012 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0259	1112084-01	12/16/11 09:57	4.00	20.00
GW0260	1112084-03	12/16/11 09:57	4.00	20.00
GW0255	1112091-01	12/16/11 09:57	4.00	20.00
GW0273	1112091-03	12/16/11 09:57	4.00	20.00
GW0320	1112109-01	12/16/11 09:57	4.00	20.00
GW0326	1112109-03	12/16/11 09:57	4.00	20.00
GW0334	1112109-05	12/16/11 09:57	4.00	20.00
Blank	1L16012-BLK1	12/16/11 09:57	20.00	20.00
LCS	1L16012-BS1	12/16/11 09:57	1.00	20.00
GW0273	1L16012-MS1	12/16/11 09:57	4.00	20.00
GW0273	1L16012-MSD1	12/16/11 09:57	4.00	20.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L19001 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0259	1112084-01	12/19/11 06:34	100.00	100.00
GW0260	1112084-03	12/19/11 06:34	100.00	100.00
GW0255	1112091-01	12/19/11 06:34	100.00	100.00
GW0273	1112091-03	12/19/11 06:34	100.00	100.00
GW0320	1112109-01	12/19/11 06:34	100.00	100.00
GW0326	1112109-03	12/19/11 06:34	100.00	100.00
GW0334	1112109-05	12/19/11 06:34	100.00	100.00
GW0264	1112117-01	12/19/11 06:34	100.00	100.00
GW0265	1112117-03	12/19/11 06:34	100.00	100.00
GW0276	1112117-05	12/19/11 06:34	100.00	100.00
Blank	1L19001-BLK1	12/19/11 06:34	100.00	100.00
LCS	1L19001-BS1	12/19/11 06:34	100.00	100.00
GW0260	1L19001-DUP1	12/19/11 06:34	100.00	100.00
GW0259	1L19001-MS1	12/19/11 06:34	100.00	100.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L20018 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0320	1112109-01	12/20/11 11:40	5.00	5.00
GW0326	1112109-03	12/20/11 11:40	5.00	5.00
GW0334	1112109-05	12/20/11 11:40	5.00	5.00
GW0264	1112117-01	12/20/11 11:40	5.00	5.00
GW0265	1112117-03	12/20/11 11:40	5.00	5.00
GW0276	1112117-05	12/20/11 11:40	5.00	5.00
Blank	1L20018-BLK1	12/20/11 11:40	5.00	5.00
LCS	1L20018-BS1	12/20/11 11:40	5.00	5.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L20019 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0259	1112084-01	12/20/11 15:28	25.00	25.00
GW0260	1112084-03	12/20/11 15:28	25.00	25.00
Blank	1L20019-BLK1	12/20/11 15:28	25.00	25.00
LCS	1L20019-BS1	12/20/11 15:28	5.00	25.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L21015 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0320	1112109-01	12/21/11 10:09	290.00	200.00
GW0326	1112109-03	12/21/11 10:09	290.00	200.00
GW0334	1112109-05	12/21/11 10:09	290.00	200.00
GW0264	1112117-01	12/21/11 10:09	290.00	200.00
GW0265	1112117-03	12/21/11 10:09	290.00	200.00
GW0276	1112117-05	12/21/11 10:09	290.00	200.00
Blank	1L21015-BLK1	12/21/11 10:09	250.00	200.00
LCS	1L21015-BS1	12/21/11 10:09	3.00	250.00
LCS Dup	1L21015-BSD1	12/21/11 10:09	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L22003 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0255	1112091-01	12/22/11 07:47	25.00	25.00
GW0273	1112091-03	12/22/11 07:47	25.00	25.00
GW0320	1112109-01	12/22/11 07:47	25.00	25.00
GW0326	1112109-03	12/22/11 07:47	25.00	25.00
GW0334	1112109-05	12/22/11 07:47	25.00	25.00
GW0264	1112117-01	12/22/11 07:47	25.00	25.00
GW0265	1112117-03	12/22/11 07:47	25.00	25.00
GW0276	1112117-05	12/22/11 07:47	25.00	25.00
Blank	1L22003-BLK1	12/22/11 07:47	25.00	25.00
LCS	1L22003-BS1	12/22/11 07:47	5.00	25.00
GW0276	1L22003-MS1	12/22/11 07:47	22.50	25.00
GW0276	1L22003-MSD1	12/22/11 07:47	22.50	25.00

PREPARATION BATCH SUMMARY

E353.2

Laboratory: Empirical Laboratories, LLC SDG: Kirtland_039

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

Batch: 1L22016 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0264	1112117-01	12/22/11 13:31	4.00	20.00
GW0265	1112117-03	12/22/11 13:31	4.00	20.00
GW0276	1112117-05	12/22/11 13:31	4.00	20.00
Blank	1L22016-BLK1	12/22/11 13:31	20.00	20.00
LCS	1L22016-BS1	12/22/11 13:31	1.00	20.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_039

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1L20019-BS1	122011-003	12/20/11 15:50
Blank	1L20019-BLK1	122011-004	12/20/11 15:58
LCS	1L22003-BS1	122211-003	12/22/11 17:45
Blank	1L22003-BLK1	122211-004	12/22/11 17:52
GW0276	1L22003-MS1	122211-013	12/22/11 19:21
GW0276	1L22003-MSD1	122211-014	12/22/11 19:27

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: Kirtland_039

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1L15014-BS1	121511-002	12/15/11 13:35
LCS Dup	1L15014-BSD1	121511-003	12/15/11 13:36
Blank	1L15014-BLK1	121511-004	12/15/11 13:40
LCS	1L21015-BS1	122111-002	12/21/11 15:05
LCS Dup	1L21015-BSD1	122111-003	12/21/11 15:06
Blank	1L21015-BLK1	122111-004	12/21/11 15:07

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L33502	Instrument:	WC-IC
Calibration:	1335002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L33502-CAL1	112911-003	11/29/11 18:23
Cal Standard	1L33502-CAL2	112911-004	11/29/11 18:40
Cal Standard	1L33502-CAL3	112911-005	11/29/11 18:57
Cal Standard	1L33502-CAL4	112911-006	11/29/11 19:15
Cal Standard	1L33502-CAL5	112911-007	11/29/11 19:32
Cal Standard	1L33502-CAL6	112911-008	11/29/11 19:50
Cal Standard	1L33502-CAL7	112911-009	11/29/11 20:07
Cal Standard	1L33502-CAL8	112911-010	11/29/11 20:24
Initial Cal Check	1L33502-ICV1	112911-011	11/29/11 20:42
Initial Cal Blank	1L33502-ICB1	112911-012	11/29/11 20:59

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35013	Instrument:	WC-Lachat
Calibration:	1350003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L35013-CAL1	M_12-16-2011_12-58-09PM-0	12/16/11 12:59
Cal Standard	1L35013-CAL2	M_12-16-2011_12-58-09PM-0	12/16/11 13:00
Cal Standard	1L35013-CAL3	M_12-16-2011_12-58-09PM-0	12/16/11 13:02
Cal Standard	1L35013-CAL4	M_12-16-2011_12-58-09PM-0	12/16/11 13:03
Cal Standard	1L35013-CAL5	M_12-16-2011_12-58-09PM-0	12/16/11 13:04
Cal Standard	1L35013-CAL6	M_12-16-2011_12-58-09PM-0	12/16/11 13:06
Cal Standard	1L35013-CAL7	M_12-16-2011_12-58-09PM-0	12/16/11 13:07
Cal Standard	1L35013-CAL8	M_12-16-2011_12-58-09PM-0	12/16/11 13:09
Initial Cal Check	1L35013-ICV1	M_12-16-2011_12-58-09PM-0	12/16/11 13:10
Initial Cal Blank	1L35013-ICB1	M_12-16-2011_12-58-09PM-0	12/16/11 13:12
Blank	1L16012-BLK1	M_12-16-2011_12-58-09PM-0	12/16/11 13:28
LCS	1L16012-BS1	M_12-16-2011_12-58-09PM-0	12/16/11 13:29
GW0259	1112084-01	M_12-16-2011_12-58-09PM-0	12/16/11 13:33
GW0260	1112084-03	M_12-16-2011_12-58-09PM-0	12/16/11 13:35
Calibration Check	1L35013-CCV1	M_12-16-2011_12-58-09PM-0	12/16/11 13:38
Calibration Blank	1L35013-CCB1	M_12-16-2011_12-58-09PM-0	12/16/11 13:39
GW0255	1112091-01	M_12-16-2011_12-58-09PM-0	12/16/11 13:42
GW0273	1112091-03	M_12-16-2011_12-58-09PM-0	12/16/11 13:44
GW0273	1L16012-MS1	M_12-16-2011_12-58-09PM-0	12/16/11 13:45
GW0273	1L16012-MSD1	M_12-16-2011_12-58-09PM-0	12/16/11 13:47
GW0320	1112109-01	M_12-16-2011_12-58-09PM-0	12/16/11 13:51
GW0326	1112109-03	M_12-16-2011_12-58-09PM-0	12/16/11 13:52
GW0334	1112109-05	M_12-16-2011_12-58-09PM-0	12/16/11 13:54
Calibration Check	1L35013-CCV2	M_12-16-2011_12-58-09PM-0	12/16/11 13:57
Calibration Blank	1L35013-CCB2	M_12-16-2011_12-58-09PM-0	12/16/11 13:58

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35305	Instrument:	WC-Lachat
Calibration:	1353001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L35305-CAL1	M_12-19-2011_02-50-09PM-0	12/19/11 14:51
Cal Standard	1L35305-CAL2	M_12-19-2011_02-50-09PM-0	12/19/11 14:52
Cal Standard	1L35305-CAL3	M_12-19-2011_02-50-09PM-0	12/19/11 14:53
Cal Standard	1L35305-CAL4	M_12-19-2011_02-50-09PM-0	12/19/11 14:54
Cal Standard	1L35305-CAL5	M_12-19-2011_02-50-09PM-0	12/19/11 14:55
Cal Standard	1L35305-CAL6	M_12-19-2011_02-50-09PM-0	12/19/11 14:56
Cal Standard	1L35305-CAL7	M_12-19-2011_02-50-09PM-0	12/19/11 14:57
Cal Standard	1L35305-CAL8	M_12-19-2011_02-50-09PM-0	12/19/11 14:58
Initial Cal Check	1L35305-ICV1	M_12-19-2011_02-50-09PM-0	12/19/11 14:59
Initial Cal Blank	1L35305-ICB1	M_12-19-2011_02-50-09PM-0	12/19/11 15:00
Blank	1L19001-BLK1	M_12-19-2011_02-50-09PM-0	12/19/11 15:01
LCS	1L19001-BS1	M_12-19-2011_02-50-09PM-0	12/19/11 15:01
GW0259	1112084-01	M_12-19-2011_02-50-09PM-0	12/19/11 15:02
GW0259	1L19001-MS1	M_12-19-2011_02-50-09PM-0	12/19/11 15:03
GW0260	1112084-03	M_12-19-2011_02-50-09PM-0	12/19/11 15:04
GW0260	1L19001-DUP1	M_12-19-2011_02-50-09PM-0	12/19/11 15:05
GW0255	1112091-01	M_12-19-2011_02-50-09PM-0	12/19/11 15:09
GW0273	1112091-03	M_12-19-2011_02-50-09PM-0	12/19/11 15:10
Calibration Check	1L35305-CCV1	M_12-19-2011_02-50-09PM-0	12/19/11 15:14
Calibration Blank	1L35305-CCB1	M_12-19-2011_02-50-09PM-0	12/19/11 15:15
GW0320	1112109-01	M_12-19-2011_02-50-09PM-0	12/19/11 15:16
GW0326	1112109-03	M_12-19-2011_02-50-09PM-0	12/19/11 15:17
GW0334	1112109-05	M_12-19-2011_02-50-09PM-0	12/19/11 15:18
GW0264	1112117-01	M_12-19-2011_02-50-09PM-0	12/19/11 15:19
GW0276	1112117-05	M_12-19-2011_02-50-09PM-0	12/19/11 15:20
GW0265	1112117-03	M_12-19-2011_02-50-09PM-0	12/19/11 15:20
Calibration Check	1L35305-CCV2	M_12-19-2011_02-50-09PM-0	12/19/11 15:23
Calibration Blank	1L35305-CCB2	M_12-19-2011_02-50-09PM-0	12/19/11 15:24

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35306	Instrument:	WC-IC
Calibration:	1335002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1L35306-CCV1	121411-003	12/14/11 15:50
Calibration Blank	1L35306-CCB1	121411-004	12/14/11 16:07
Instrument RL Check	1L35306-CRL1	121411-005	12/14/11 16:25
LCS	1L14016-BS1	121411-008	12/14/11 17:17
Blank	1L14016-BLK1	121411-009	12/14/11 17:34
GW0259	1112084-01	121411-012	12/14/11 18:27
GW0260	1112084-03	121411-013	12/14/11 18:44
GW0255	1112091-01	121411-015	12/14/11 19:19
GW0273	1112091-03	121411-016	12/14/11 19:37
Calibration Check	1L35306-CCV2	121411-021	12/14/11 21:04
Calibration Blank	1L35306-CCB2	121411-022	12/14/11 21:21

ANALYSIS SEQUENCE SUMMARY

E353.2

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L35612	Instrument:	WC-Lachat
Calibration:	1356004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1L35612-CAL1	M_12-22-2011_01-35-26PM-0	12/22/11 13:37
Cal Standard	1L35612-CAL2	M_12-22-2011_01-35-26PM-0	12/22/11 13:38
Cal Standard	1L35612-CAL3	M_12-22-2011_01-35-26PM-0	12/22/11 13:40
Cal Standard	1L35612-CAL4	M_12-22-2011_01-35-26PM-0	12/22/11 13:41
Cal Standard	1L35612-CAL5	M_12-22-2011_01-35-26PM-0	12/22/11 13:43
Cal Standard	1L35612-CAL6	M_12-22-2011_01-35-26PM-0	12/22/11 13:44
Cal Standard	1L35612-CAL7	M_12-22-2011_01-35-26PM-0	12/22/11 13:46
Cal Standard	1L35612-CAL8	M_12-22-2011_01-35-26PM-0	12/22/11 13:47
Initial Cal Check	1L35612-ICV1	M_12-22-2011_01-35-26PM-0	12/22/11 13:49
Initial Cal Blank	1L35612-ICB1	M_12-22-2011_01-35-26PM-0	12/22/11 13:50
Calibration Check	1L35612-CCV1	M_12-22-2011_01-35-26PM-0	12/22/11 14:10
Calibration Blank	1L35612-CCB1	M_12-22-2011_01-35-26PM-0	12/22/11 14:12
Blank	1L22016-BLK1	M_12-22-2011_01-35-26PM-0	12/22/11 14:13
LCS	1L22016-BS1	M_12-22-2011_01-35-26PM-0	12/22/11 14:15
GW0264	1112117-01	M_12-22-2011_01-35-26PM-0	12/22/11 14:16
GW0265	1112117-03	M_12-22-2011_01-35-26PM-0	12/22/11 14:18
GW0276	1112117-05	M_12-22-2011_01-35-26PM-0	12/22/11 14:19
Calibration Check	1L35612-CCV2	M_12-22-2011_01-35-26PM-0	12/22/11 14:29
Calibration Blank	1L35612-CCB2	M_12-22-2011_01-35-26PM-0	12/22/11 14:31

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	Kirtland_039
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1L36305	Instrument:	WC-IC
Calibration:	1335002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1L36305-CCV1	122011-003	12/20/11 13:34
Calibration Blank	1L36305-CCB1	122011-004	12/20/11 13:52
Instrument RL Check	1L36305-CRL1	122011-005	12/20/11 14:09
LCS	1L20018-BS1	122011-008	12/20/11 15:02
Blank	1L20018-BLK1	122011-009	12/20/11 15:19
Calibration Check	1L36305-CCV2	122011-020	12/20/11 18:30
Calibration Blank	1L36305-CCB2	122011-021	12/20/11 18:48
GW0320	1112109-01	122011-022	12/20/11 19:05
GW0326	1112109-03	122011-023	12/20/11 19:23
GW0334	1112109-05	122011-024	12/20/11 19:40
GW0264	1112117-01	122011-025	12/20/11 19:57
GW0265	1112117-03	122011-026	12/20/11 20:15
GW0276	1112117-05	122011-027	12/20/11 20:32
Calibration Check	1L36305-CCV3	122011-028	12/20/11 20:50
Calibration Blank	1L36305-CCB3	122011-029	12/20/11 21:07