SEVERN TRENT SERVICES

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

Tel: 865-291-3000
Fax: 865-584-4315
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 825635

PBOW

Lot #: H2J180210

Maureen McMyler

Shaw E & I Inc
312 Directors Dr
Knoxville, TN 37923

SEVERN TRENT LABORATORIES, INC.

Jamie A. McKinney
Project Manager

November 14, 2002

200-1e

H2J180210 Sample Data Summary **1**

Sample Receipt Documentation **109**

Volatiles **131**
Raw Sample Data 132
Standards Data 198
Raw QC Data 268
Miscellaneous Data 316

Semi-Volatiles **322**
Raw Sample Data 323
Standards Data 347
Raw QC Data 446
Miscellaneous Data 488

Explosives **495**
Raw Sample Data 496
Standards Data 506
Raw QC Data 558
Miscellaneous Data 568

Metals **572**
Sample Results 573
QC Summary 586
Quality Control Results SuperTrace ICP 615
Quality Control Results Mercury 649
Raw Data SuperTrace ICP 679
Raw Data Mercury 946
Miscellaneous Data 990

Wet Chemistry **1014**
Sample Summary 1015
QC Summary 1019
Raw Data 1039
Raw Data - STL North Canton 1055
Miscellaneous Data 1131

Sample Receipt Documentation **1137**

Total Number of Pages **1158**

ANALYTICAL METHODS SUMMARY

H2J180210

PARAMETER	ANALYTICAL METHOD
Alkalinity	MCAWW 310.1
Chloride (Colorimetric, Automated Ferricyanide)	MCAWW 325.2
Corrosivity	SW846 9045A
Cyanide, Total	SW846 9012A
Filterable Residue (TDS)	MCAWW 160.1
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Nitrate	MCAWW 353.2
Nitroaromatics and Nitramines by HPLC	SW846 8330
Non-Filterable Residue (TSS)	MCAWW 160.2
Pensky-Martens Method for Determining Ignitability	SW846 1010
Reactive Cyanide	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Sulfate	MCAWW 375.4
Total Hardness (Titrimetric, EDTA)	MCAWW 130.2
Total Organic Carbon	SW846 9060
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Turbidity (Nephelometric)	MCAWW 180.1
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H2J180210

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
FAA06	001	CD3005	10/17/02	10:35
FAA16	002	CD3005	10/17/02	10:35
FAA18	003	CD5004	10/17/02	
FAA2A	004	CD3006	10/17/02	10:35
FAA2C	005	CD3006	10/17/02	10:35
FAA2D	006	CD3003	10/17/02	15:10
FAA2G	007	CD3003	10/17/02	15:10
FAA2P	008	CD9001	10/17/02	16:15

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H2J180210

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Subcontract

The following analyses were performed by STL North Canton Laboratory, 4101 Shuffel Drive, NW, North Canton, OH 44720: Hardness (MCAAW 130.2), Total Dissolved Solids (MCAAW 160.1), Total Suspended Solids (MCAAW 160.2), Turbidity (MCAAW 180.1), Alkalinity (MCAAW 310.1), Chloride (MCAAW 325.2), Nitrate (MCAAW 353.2), Sulfate (MCAAW 375.4), Reactive Cyanide (SW846 7.3.3), Reactive Sulfide (SW846 7.3.4), Flash Point (SW846 1010), Corrosivity (SW846 9045A), and Total Organic Carbon (SW846 9060).

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Explosives

The pH of sample CD3006 was greater than 2. The sample was analyzed within the normal 14 day holding time. EPA has indicated that some aromatic compounds in wastewater samples, notably benzene, toluene, and ethyl benzene, may be susceptible to biological degradation if samples are not preserved to a pH of 2.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ, California DHS ELAP Cert. #2423, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, 5/14/01-6/21/02), Hawaii DOH, Illinois EPA Cert. #000510, Indiana DOH Cert. #C-TN-02, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-576, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center, US EPA Perchlorate Approval and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE
H2J180210

Explosives

The matrix spike/matrix spike duplicate recoveries for sample CD3005 were acceptable for all analytes except Tetryl. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects.

Sample CD3003 was reported with an elevated reporting limit for 3-nitrotoluene due to sample matrix interferences.

Metals

The serial dilution of sample CD3005 was outside control limits for potassiumdue to physical or chemical matrix interferences.

The serial dilution of sample CD3005T was outside control limits for potassium due to physical or chemical matrix interferences.

The laboratory control sample recovery for batch 2295324 was slightly outside the recovery limits. Since the recovery was high, and all the associated samples were non-detect, the data should not be affected.

Nitrate

The final CCV for the associated nitrate samples failed at 114%. Since the samples were ND, the data should not be affected.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ, California DHS ELAP Cert. #2423, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, 5/14/01-6/21/02), Hawaii DOH, Illinois EPA Cert. #000510, Indiana DOH Cert. #C-TN-02, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-576, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center, US EPA Perchlorate Approval and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3005

GC/MS Volatiles

Lot-Sample #...: H2J180210-001 **Work Order #...:** FAA061AE **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/24/02 **Analysis Date..:** 10/24/02
Prep Batch #...: 2297276
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.20
Bromomethane	ND	2.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.22
Methylene chloride	ND	2.0	ug/L	0.13
Acetone	**1.6 J**	**10**	**ug/L**	**1.3**
Carbon disulfide	**1.3**	**1.0**	**ug/L**	**0.10**
1,1-Dichloroethene	ND	1.0	ug/L	0.12
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.13
Chloroform	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
2-Butanone	ND	5.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.12
Carbon tetrachloride	ND	1.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
Trichloroethene	ND	1.0	ug/L	0.10
Dibromochloromethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.14
Benzene	**0.15 J**	**1.0**	**ug/L**	**0.10**
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11
Bromoform	ND	1.0	ug/L	0.10
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.15
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.12
Toluene	ND	1.0	ug/L	0.23
Chlorobenzene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.13
Styrene	ND	1.0	ug/L	0.12
Xylenes (total)	**0.37 J**	**1.0**	**ug/L**	**0.30**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(80 - 120)
1,2-Dichloroethane-d4	107	(77 - 128)
Toluene-d8	107	(80 - 120)
Bromofluorobenzene	120	(72 - 129)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3005

GC/MS Volatiles

Lot-Sample #...: H2J180210-001 **Work Order #...:** FAA061AE **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CD5004

GC/MS Volatiles

Lot-Sample #...: H2J180210-003 **Work Order #...:** FAA181AA **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/24/02 **Analysis Date..:** 10/24/02
Prep Batch #...: 2297276
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.20
Bromomethane	ND	2.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.22
Methylene chloride	**2.7**	**2.0**	**ug/L**	**0.13**
Acetone	ND	10	ug/L	1.3
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.12
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.13
Chloroform	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
2-Butanone	ND	5.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.12
Carbon tetrachloride	ND	1.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
Trichloroethene	ND	1.0	ug/L	0.10
Dibromochloromethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.14
Benzene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11
Bromoform	ND	1.0	ug/L	0.10
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.15
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.12
Toluene	ND	1.0	ug/L	0.23
Chlorobenzene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.13
Styrene	ND	1.0	ug/L	0.12
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(80 - 120)
1,2-Dichloroethane-d4	105	(77 - 128)
Toluene-d8	108	(80 - 120)
Bromofluorobenzene	118	(72 - 129)

SHAW E & I INC

Client Sample ID: CD3006

GC/MS Volatiles

Lot-Sample #...: H2J180210-004 **Work Order #...:** FAA2A1AC **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/24/02 **Analysis Date..:** 10/24/02
Prep Batch #...: 2297276
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.20
Bromomethane	ND	2.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.22
Methylene chloride	**0.67 J**	**2.0**	**ug/L**	**0.13**
Acetone	**2.6 J**	**10**	**ug/L**	**1.3**
Carbon disulfide	**0.49 J**	**1.0**	**ug/L**	**0.10**
1,1-Dichloroethene	ND	1.0	ug/L	0.12
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.13
Chloroform	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
2-Butanone	ND	5.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.12
Carbon tetrachloride	ND	1.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
Trichloroethene	ND	1.0	ug/L	0.10
Dibromochloromethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.14
Benzene	**0.14 J**	**1.0**	**ug/L**	**0.10**
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11
Bromoform	ND	1.0	ug/L	0.10
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.15
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.12
Toluene	ND	1.0	ug/L	0.23
Chlorobenzene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.13
Styrene	ND	1.0	ug/L	0.12
Xylenes (total)	**0.35 J**	**1.0**	**ug/L**	**0.30**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(80 - 120)
1,2-Dichloroethane-d4	108	(77 - 128)
Toluene-d8	109	(80 - 120)
Bromofluorobenzene	119	(72 - 129)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3006

GC/MS Volatiles

Lot-Sample #...: H2J180210-004 **Work Order #...:** FAA2A1AC **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CD3003

GC/MS Volatiles

Lot-Sample #...: H2J180210-006 **Work Order #...:** FAA2D1AF **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/24/02 **Analysis Date..:** 10/24/02
Prep Batch #...: 2297276
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.20
Bromomethane	ND	2.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.22
Methylene chloride	ND	2.0	ug/L	0.13
Acetone	ND	10	ug/L	1.3
Carbon disulfide	**1.1**	**1.0**	**ug/L**	**0.10**
1,1-Dichloroethene	ND	1.0	ug/L	0.12
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.13
Chloroform	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
2-Butanone	ND	5.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.12
Carbon tetrachloride	ND	1.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
Trichloroethene	ND	1.0	ug/L	0.10
Dibromochloromethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.14
Benzene	**1.3**	**1.0**	**ug/L**	**0.10**
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11
Bromoform	ND	1.0	ug/L	0.10
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.15
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.12
Toluene	**0.35 J**	**1.0**	**ug/L**	**0.23**
Chlorobenzene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.13
Styrene	ND	1.0	ug/L	0.12
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(80 - 120)
1,2-Dichloroethane-d4	128	(77 - 128)
Toluene-d8	102	(80 - 120)
Bromofluorobenzene	122	(72 - 129)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3003

GC/MS Volatiles

Lot-Sample #...: H2J180210-006 Work Order #...: FAA2D1AF Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H2J180210 **Work Order #...:** FANK91AA **Matrix.....:** WATER
MB Lot-Sample #: H2J240000-276

Prep Date.....: 10/24/02
Analysis Date..: 10/24/02 **Prep Batch #...:** 2297276
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	**1.8 J**	**5.0**	**ug/L**	**SW846 8260B**
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	**1.1 J**	**5.0**	**ug/L**	**SW846 8260B**
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(80 - 120)
1,2-Dichloroethane-d4	108	(77 - 128)
Toluene-d8	107	(80 - 120)
Bromofluorobenzene	116	(72 - 129)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H2J180210 **Work Order #...:** FANK91AA **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H2J180210 **Work Order #...:** FANK91AC **Matrix.....:** WATER
LCS Lot-Sample#: H2J240000-276
Prep Date.....: 10/24/02 **Analysis Date..:** 10/24/02
Prep Batch #...: 2297276
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**97**	**(69 - 120)**	**SW846 8260B**
Trichloroethene	**101**	**(76 - 120)**	**SW846 8260B**
Benzene	**101**	**(76 - 120)**	**SW846 8260B**
Toluene	**98**	**(77 - 120)**	**SW846 8260B**
Chlorobenzene	**97**	**(75 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
1,2-Dichloroethane-d4	103	(77 - 128)
Toluene-d8	103	(80 - 120)
Bromofluorobenzene	101	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H2J180210 **Work Order #...:** FANK91AC **Matrix.....:** WATER
LCS Lot-Sample#: H2J240000-276
Prep Date.....: 10/24/02 **Analysis Date..:** 10/24/02
Prep Batch #...: 2297276
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**9.66**	**ug/L**	**97**	**SW846 8260B**
Trichloroethene	**10.0**	**10.1**	**ug/L**	**101**	**SW846 8260B**
Benzene	**10.0**	**10.1**	**ug/L**	**101**	**SW846 8260B**
Toluene	**10.0**	**9.76**	**ug/L**	**98**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.74**	**ug/L**	**97**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
1,2-Dichloroethane-d4	103	(77 - 128)
Toluene-d8	103	(80 - 120)
Bromofluorobenzene	101	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H2J180210 **Work Order #...:** FAA061AF-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AG-MSD
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/24/02 **Analysis Date..:** 10/24/02
Prep Batch #...: 2297276
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**104**	**(58 - 130)**			**SW846 8260B**
	99	**(58 - 130)**	**4.6**	**(0-26)**	**SW846 8260B**
Trichloroethene	**101**	**(50 - 152)**			**SW846 8260B**
	99	**(50 - 152)**	**1.8**	**(0-17)**	**SW846 8260B**
Benzene	**102**	**(68 - 125)**			**SW846 8260B**
	98	**(68 - 125)**	**4.4**	**(0-19)**	**SW846 8260B**
Toluene	**101**	**(66 - 127)**			**SW846 8260B**
	97	**(66 - 127)**	**4.1**	**(0-17)**	**SW846 8260B**
Chlorobenzene	**97**	**(70 - 120)**			**SW846 8260B**
	95	**(70 - 120)**	**2.9**	**(0-17)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(80 - 120)
	98	(80 - 120)
1,2-Dichloroethane-d4	115	(77 - 128)
	115	(77 - 128)
Toluene-d8	106	(80 - 120)
	105	(80 - 120)
Bromofluorobenzene	103	(72 - 129)
	104	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H2J180210 **Work Order #...:** FAA061AF-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AG-MSD
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/24/02 **Analysis Date..:** 10/24/02
Prep Batch #...: 2297276
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	**ND**	**10.0**	**10.4**	**ug/L**	**104**		**SW846 8260B**
	ND	**10.0**	**9.90**	**ug/L**	**99**	**4.6**	**SW846 8260B**
Trichloroethene	**ND**	**10.0**	**10.1**	**ug/L**	**101**		**SW846 8260B**
	ND	**10.0**	**9.92**	**ug/L**	**99**	**1.8**	**SW846 8260B**
Benzene	**0.15**	**10.0**	**10.4**	**ug/L**	**102**		**SW846 8260B**
	0.15	**10.0**	**9.92**	**ug/L**	**98**	**4.4**	**SW846 8260B**
Toluene	**ND**	**10.0**	**10.2**	**ug/L**	**101**		**SW846 8260B**
	ND	**10.0**	**9.82**	**ug/L**	**97**	**4.1**	**SW846 8260B**
Chlorobenzene	**ND**	**10.0**	**9.74**	**ug/L**	**97**		**SW846 8260B**
	ND	**10.0**	**9.47**	**ug/L**	**95**	**2.9**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(80 - 120)
	98	(80 - 120)
1,2-Dichloroethane-d4	115	(77 - 128)
	115	(77 - 128)
Toluene-d8	106	(80 - 120)
	105	(80 - 120)
Bromofluorobenzene	103	(72 - 129)
	104	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3005

GC/MS Semivolatiles

Lot-Sample #...: H2J180210-001 Work Order #...: FAA061AH Matrix.....: WATER
Date Sampled...: 10/17/02 Date Received..: 10/18/02
Prep Date.....: 10/21/02 Analysis Date..: 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Phenol	ND	10	ug/L	1.2
bis(2-Chloroethyl)-ether	ND	10	ug/L	1.1
2-Chlorophenol	ND	10	ug/L	1.5
1,3-Dichlorobenzene	ND	10	ug/L	1.3
1,4-Dichlorobenzene	ND	10	ug/L	1.7
1,2-Dichlorobenzene	ND	10	ug/L	1.1
2-Methylphenol	ND	10	ug/L	1.0
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	1.3
4-Methylphenol	ND	10	ug/L	2.1
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	1.4
Hexachloroethane	ND	10	ug/L	1.6
Nitrobenzene	ND	10	ug/L	1.6
Isophorone	ND	10	ug/L	1.2
2-Nitrophenol	ND	10	ug/L	1.7
2,4-Dimethylphenol	ND	10	ug/L	1.8
bis(2-Chloroethoxy) methane	ND	10	ug/L	1.2
2,4-Dichlorophenol	ND	10	ug/L	1.4
1,2,4-Trichloro-benzene	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	1.4
4-Chloroaniline	ND	10	ug/L	1.2
Hexachlorobutadiene	ND	10	ug/L	1.4
4-Chloro-3-methylphenol	ND	10	ug/L	0.56
2-Methylnaphthalene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	1.2
2,4,6-Trichloro-phenol	ND	10	ug/L	1.3
2,4,5-Trichloro-phenol	ND	10	ug/L	1.8
2-Chloronaphthalene	ND	10	ug/L	1.3
2-Nitroaniline	ND	50	ug/L	1.2
Dimethyl phthalate	ND	10	ug/L	1.4
Acenaphthylene	ND	10	ug/L	1.1
2,6-Dinitrotoluene	ND	10	ug/L	1.5

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3005

GC/MS Semivolatiles

Lot-Sample #...: H2J180210-001 Work Order #...: FAA061AH Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3-Nitroaniline	ND	50	ug/L	1.5
Acenaphthene	ND	10	ug/L	1.1
2,4-Dinitrophenol	ND	50	ug/L	11
4-Nitrophenol	ND	50	ug/L	5.7
Dibenzofuran	ND	10	ug/L	1.2
2,4-Dinitrotoluene	ND	10	ug/L	1.2
Diethyl phthalate	ND	10	ug/L	1.4
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.3
Fluorene	ND	10	ug/L	1.3
4-Nitroaniline	ND	50	ug/L	1.3
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.5
N-Nitrosodiphenylamine	ND	10	ug/L	1.2
4-Bromophenyl phenyl ether	ND	10	ug/L	1.8
Hexachlorobenzene	ND	10	ug/L	1.4
Pentachlorophenol	ND	50	ug/L	1.1
Phenanthrene	ND	10	ug/L	1.4
Anthracene	ND	10	ug/L	1.3
Carbazole	ND	10	ug/L	1.5
Di-n-butyl phthalate	ND	10	ug/L	1.6
Fluoranthene	ND	10	ug/L	1.4
Pyrene	ND	10	ug/L	1.2
Butyl benzyl phthalate	ND	10	ug/L	1.7
3,3'-Dichlorobenzidine	ND	50	ug/L	1.1
Benzo(a)anthracene	ND	10	ug/L	1.2
Chrysene	ND	10	ug/L	1.6
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.9
Di-n-octyl phthalate	ND	10	ug/L	1.9
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(a)pyrene	ND	10	ug/L	2.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.83
Dibenz(a,h)anthracene	ND	10	ug/L	1.2
Benzo(ghi)perylene	ND	10	ug/L	1.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(29 - 110)
Phenol-d5	68	(41 - 115)
Nitrobenzene-d5	65	(46 - 117)
2-Fluorobiphenyl	74	(44 - 116)
2,4,6-Tribromophenol	97	(31 - 138)
Terphenyl-d14	100	(36 - 134)

SHAW E & I INC

Client Sample ID: CD3006

GC/MS Semivolatiles

Lot-Sample #...: H2J180210-004 Work Order #...: FAA2A1AD Matrix.....: WATER
Date Sampled...: 10/17/02 Date Received..: 10/18/02
Prep Date.....: 10/21/02 Analysis Date..: 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Phenol	ND	10	ug/L	1.2
bis(2-Chloroethyl)-ether	ND	10	ug/L	1.1
2-Chlorophenol	ND	10	ug/L	1.5
1,3-Dichlorobenzene	ND	10	ug/L	1.3
1,4-Dichlorobenzene	ND	10	ug/L	1.7
1,2-Dichlorobenzene	ND	10	ug/L	1.1
2-Methylphenol	ND	10	ug/L	1.0
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	1.3
4-Methylphenol	ND	10	ug/L	2.1
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	1.4
Hexachloroethane	ND	10	ug/L	1.6
Nitrobenzene	ND	10	ug/L	1.6
Isophorone	ND	10	ug/L	1.2
2-Nitrophenol	ND	10	ug/L	1.7
2,4-Dimethylphenol	ND	10	ug/L	1.8
bis(2-Chloroethoxy) methane	ND	10	ug/L	1.2
2,4-Dichlorophenol	ND	10	ug/L	1.4
1,2,4-Trichloro-benzene	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	1.4
4-Chloroaniline	ND	10	ug/L	1.2
Hexachlorobutadiene	ND	10	ug/L	1.4
4-Chloro-3-methylphenol	ND	10	ug/L	0.56
2-Methylnaphthalene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	1.2
2,4,6-Trichloro-phenol	ND	10	ug/L	1.3
2,4,5-Trichloro-phenol	ND	10	ug/L	1.8
2-Chloronaphthalene	ND	10	ug/L	1.3
2-Nitroaniline	ND	50	ug/L	1.2
Dimethyl phthalate	ND	10	ug/L	1.4
Acenaphthylene	ND	10	ug/L	1.1
2,6-Dinitrotoluene	ND	10	ug/L	1.5

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3006

GC/MS Semivolatiles

Lot-Sample #...: H2J180210-004 Work Order #...: FAA2A1AD Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3-Nitroaniline	ND	50	ug/L	1.5
Acenaphthene	ND	10	ug/L	1.1
2,4-Dinitrophenol	ND	50	ug/L	11
4-Nitrophenol	ND	50	ug/L	5.7
Dibenzofuran	ND	10	ug/L	1.2
2,4-Dinitrotoluene	ND	10	ug/L	1.2
Diethyl phthalate	ND	10	ug/L	1.4
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.3
Fluorene	ND	10	ug/L	1.3
4-Nitroaniline	ND	50	ug/L	1.3
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.5
N-Nitrosodiphenylamine	ND	10	ug/L	1.2
4-Bromophenyl phenyl ether	ND	10	ug/L	1.8
Hexachlorobenzene	ND	10	ug/L	1.4
Pentachlorophenol	ND	50	ug/L	1.1
Phenanthrene	ND	10	ug/L	1.4
Anthracene	ND	10	ug/L	1.3
Carbazole	ND	10	ug/L	1.5
Di-n-butyl phthalate	ND	10	ug/L	1.6
Fluoranthene	ND	10	ug/L	1.4
Pyrene	ND	10	ug/L	1.2
Butyl benzyl phthalate	ND	10	ug/L	1.7
3,3'-Dichlorobenzidine	ND	50	ug/L	1.1
Benzo(a)anthracene	ND	10	ug/L	1.2
Chrysene	ND	10	ug/L	1.6
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.9
Di-n-octyl phthalate	ND	10	ug/L	1.9
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(a)pyrene	ND	10	ug/L	2.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.83
Dibenz(a,h)anthracene	ND	10	ug/L	1.2
Benzo(ghi)perylene	ND	10	ug/L	1.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(29 - 110)
Phenol-d5	79	(41 - 115)
Nitrobenzene-d5	75	(46 - 117)
2-Fluorobiphenyl	85	(44 - 116)
2,4,6-Tribromophenol	94	(31 - 138)
Terphenyl-d14	104	(36 - 134)

SHAW E & I INC

Client Sample ID: CD3003

GC/MS Semivolatiles

Lot-Sample #...: H2J180210-006
Date Sampled...: 10/17/02
Prep Date.....: 10/21/02
Prep Batch #...: 2294193
Dilution Factor: 1

Work Order #...: FAA2D1AG
Date Received..: 10/18/02
Analysis Date..: 10/25/02

Matrix.....: WATER

Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Phenol	ND	10	ug/L	1.2
bis(2-Chloroethyl)-ether	ND	10	ug/L	1.1
2-Chlorophenol	ND	10	ug/L	1.5
1,3-Dichlorobenzene	ND	10	ug/L	1.3
1,4-Dichlorobenzene	ND	10	ug/L	1.7
1,2-Dichlorobenzene	ND	10	ug/L	1.1
2-Methylphenol	ND	10	ug/L	1.0
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	1.3
4-Methylphenol	ND	10	ug/L	2.1
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	1.4
Hexachloroethane	ND	10	ug/L	1.6
Nitrobenzene	ND	10	ug/L	1.6
Isophorone	ND	10	ug/L	1.2
2-Nitrophenol	ND	10	ug/L	1.7
2,4-Dimethylphenol	ND	10	ug/L	1.8
bis(2-Chloroethoxy) methane	ND	10	ug/L	1.2
2,4-Dichlorophenol	ND	10	ug/L	1.4
1,2,4-Trichloro-benzene	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	1.4
4-Chloroaniline	ND	10	ug/L	1.2
Hexachlorobutadiene	ND	10	ug/L	1.4
4-Chloro-3-methylphenol	ND	10	ug/L	0.56
2-Methylnaphthalene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	1.2
2,4,6-Trichloro-phenol	ND	10	ug/L	1.3
2,4,5-Trichloro-phenol	ND	10	ug/L	1.8
2-Chloronaphthalene	ND	10	ug/L	1.3
2-Nitroaniline	ND	50	ug/L	1.2
Dimethyl phthalate	ND	10	ug/L	1.4
Acenaphthylene	ND	10	ug/L	1.1
2,6-Dinitrotoluene	ND	10	ug/L	1.5

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3003

GC/MS Semivolatiles

Lot-Sample #...: H2J180210-006 Work Order #...: FAA2D1AG Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3-Nitroaniline	ND	50	ug/L	1.5
Acenaphthene	ND	10	ug/L	1.1
2,4-Dinitrophenol	ND	50	ug/L	11
4-Nitrophenol	ND	50	ug/L	5.7
Dibenzofuran	ND	10	ug/L	1.2
2,4-Dinitrotoluene	ND	10	ug/L	1.2
Diethyl phthalate	ND	10	ug/L	1.4
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.3
Fluorene	ND	10	ug/L	1.3
4-Nitroaniline	ND	50	ug/L	1.3
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.5
N-Nitrosodiphenylamine	ND	10	ug/L	1.2
4-Bromophenyl phenyl ether	ND	10	ug/L	1.8
Hexachlorobenzene	ND	10	ug/L	1.4
Pentachlorophenol	ND	50	ug/L	1.1
Phenanthrene	ND	10	ug/L	1.4
Anthracene	ND	10	ug/L	1.3
Carbazole	ND	10	ug/L	1.5
Di-n-butyl phthalate	ND	10	ug/L	1.6
Fluoranthene	ND	10	ug/L	1.4
Pyrene	ND	10	ug/L	1.2
Butyl benzyl phthalate	ND	10	ug/L	1.7
3,3'-Dichlorobenzidine	ND	50	ug/L	1.1
Benzo(a)anthracene	ND	10	ug/L	1.2
Chrysene	ND	10	ug/L	1.6
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.9
Di-n-octyl phthalate	ND	10	ug/L	1.9
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(a)pyrene	ND	10	ug/L	2.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.83
Dibenz(a,h)anthracene	ND	10	ug/L	1.2
Benzo(ghi)perylene	ND	10	ug/L	1.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	58	(29 - 110)
Phenol-d5	59	(41 - 115)
Nitrobenzene-d5	64	(46 - 117)
2-Fluorobiphenyl	70	(44 - 116)
2,4,6-Tribromophenol	73	(31 - 138)
Terphenyl-d14	64	(36 - 134)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2J180210 Work Order #...: FAFG51AA Matrix.....: WATER
MB Lot-Sample #: H2J210000-193

Prep Date.....: 10/21/02
Analysis Date..: 10/25/02 Prep Batch #...: 2294193
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
1,2,4-Trichloro-benzene	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta-diene	ND	50	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
Acenaphthene	ND	10	ug/L	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2J180210 Work Order #...: FAFG51AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(29 - 110)
Phenol-d5	78	(41 - 115)
Nitrobenzene-d5	75	(46 - 117)
2-Fluorobiphenyl	85	(44 - 116)
2,4,6-Tribromophenol	91	(31 - 138)
Terphenyl-d14	102	(36 - 134)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2J180210 Work Order #...: FAFG51AA Matrix.....: WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H2J180210 Work Order #...: FAFG51AC Matrix.....: WATER
LCS Lot-Sample#: H2J210000-193
Prep Date.....: 10/21/02 Analysis Date..: 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**77**	**(62 - 103)**	**SW846 8270C**
2-Chlorophenol	**83**	**(63 - 103)**	**SW846 8270C**
1,4-Dichlorobenzene	**82**	**(65 - 102)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**77**	**(65 - 108)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**86**	**(67 - 104)**	**SW846 8270C**
4-Chloro-3-methylphenol	**83**	**(65 - 108)**	**SW846 8270C**
Acenaphthene	**80**	**(59 - 100)**	**SW846 8270C**
4-Nitrophenol	**74**	**(50 - 122)**	**SW846 8270C**
2,4-Dinitrotoluene	**90**	**(69 - 128)**	**SW846 8270C**
Pentachlorophenol	**78**	**(64 - 114)**	**SW846 8270C**
Pyrene	**84**	**(52 - 119)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(29 - 110)
Phenol-d5	79	(41 - 115)
Nitrobenzene-d5	78	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	97	(31 - 138)
Terphenyl-d14	100	(36 - 134)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H2J180210 Work Order #...: FAFG51AC Matrix.....: WATER
LCS Lot-Sample#: H2J210000-193
Prep Date.....: 10/21/02 Analysis Date..: 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Phenol	**100**	**77.3**	**ug/L**	**77**	**SW846 8270C**
2-Chlorophenol	**100**	**82.8**	**ug/L**	**83**	**SW846 8270C**
1,4-Dichlorobenzene	**100**	**82.2**	**ug/L**	**82**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**100**	**76.9**	**ug/L**	**77**	**SW846 8270C**
1,2,4-Trichloro-benzene	**100**	**86.0**	**ug/L**	**86**	**SW846 8270C**
4-Chloro-3-methylphenol	**100**	**83.1**	**ug/L**	**83**	**SW846 8270C**
Acenaphthene	**100**	**79.6**	**ug/L**	**80**	**SW846 8270C**
4-Nitrophenol	**100**	**73.8**	**ug/L**	**74**	**SW846 8270C**
2,4-Dinitrotoluene	**100**	**89.8**	**ug/L**	**90**	**SW846 8270C**
Pentachlorophenol	**100**	**77.5**	**ug/L**	**78**	**SW846 8270C**
Pyrene	**100**	**84.4**	**ug/L**	**84**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(29 - 110)
Phenol-d5	79	(41 - 115)
Nitrobenzene-d5	78	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	97	(31 - 138)
Terphenyl-d14	100	(36 - 134)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H2J180210 Work Order #...: FAA061AJ-MS Matrix.....: WATER
MS Lot-Sample #: H2J180210-001 FAA061AK-MSD
Date Sampled...: 10/17/02 Date Received..: 10/18/02
Prep Date.....: 10/21/02 Analysis Date..: 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	69	(58 - 103)			SW846 8270C
	79	(58 - 103)	14	(0-41)	SW846 8270C
2-Chlorophenol	72	(54 - 103)			SW846 8270C
	86	(54 - 103)	17	(0-43)	SW846 8270C
1,4-Dichlorobenzene	68	(56 - 102)			SW846 8270C
	84	(56 - 102)	23	(0-37)	SW846 8270C
N-Nitrosodi-n-propyl-amine	67	(61 - 108)			SW846 8270C
	80	(61 - 108)	18	(0-36)	SW846 8270C
1,2,4-Trichloro-benzene	75	(58 - 104)			SW846 8270C
	86	(58 - 104)	14	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	88	(65 - 108)			SW846 8270C
	91	(65 - 108)	4.2	(0-29)	SW846 8270C
Acenaphthene	77	(59 - 100)			SW846 8270C
	82	(59 - 100)	6.8	(0-26)	SW846 8270C
4-Nitrophenol	88	(50 - 122)			SW846 8270C
	89	(50 - 122)	1.9	(0-50)	SW846 8270C
2,4-Dinitrotoluene	94	(67 - 128)			SW846 8270C
	96	(67 - 128)	2.2	(0-25)	SW846 8270C
Pentachlorophenol	92	(64 - 118)			SW846 8270C
	90	(64 - 118)	1.5	(0-37)	SW846 8270C
Pyrene	91	(51 - 119)			SW846 8270C
	94	(51 - 119)	3.6	(0-27)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(29 - 110)
	74	(29 - 110)
Phenol-d5	70	(41 - 115)
	80	(41 - 115)
Nitrobenzene-d5	68	(46 - 117)
	79	(46 - 117)
2-Fluorobiphenyl	80	(44 - 116)
	89	(44 - 116)
2,4,6-Tribromophenol	104	(31 - 138)
	100	(31 - 138)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H2J180210 **Work Order #...:** FAA061AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AK-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	106	(36 - 134)
	111	(36 - 134)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H2J180210 Work Order #...: FAA061AJ-MS Matrix.....: WATER
MS Lot-Sample #: H2J180210-001 FAA061AK-MSD
Date Sampled...: 10/17/02 Date Received..: 10/18/02
Prep Date.....: 10/21/02 Analysis Date..: 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Phenol	ND	95.7	66.0	ug/L	69		SW846 8270C
	ND	96.2	76.2	ug/L	79	14	SW846 8270C
2-Chlorophenol	ND	95.7	69.1	ug/L	72		SW846 8270C
	ND	96.2	82.3	ug/L	86	17	SW846 8270C
1,4-Dichlorobenzene	ND	95.7	64.7	ug/L	68		SW846 8270C
	ND	96.2	81.2	ug/L	84	23	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	95.7	64.2	ug/L	67		SW846 8270C
	ND	96.2	77.2	ug/L	80	18	SW846 8270C
1,2,4-Trichloro-benzene	ND	95.7	72.0	ug/L	75		SW846 8270C
	ND	96.2	82.7	ug/L	86	14	SW846 8270C
4-Chloro-3-methylphenol	ND	95.7	84.0	ug/L	88		SW846 8270C
	ND	96.2	87.6	ug/L	91	4.2	SW846 8270C
Acenaphthene	ND	95.7	73.5	ug/L	77		SW846 8270C
	ND	96.2	78.7	ug/L	82	6.8	SW846 8270C
4-Nitrophenol	ND	95.7	84.0	ug/L	88		SW846 8270C
	ND	96.2	85.6	ug/L	89	1.9	SW846 8270C
2,4-Dinitrotoluene	ND	95.7	90.4	ug/L	94		SW846 8270C
	ND	96.2	92.4	ug/L	96	2.2	SW846 8270C
Pentachlorophenol	ND	95.7	87.8	ug/L	92		SW846 8270C
	ND	96.2	86.5	ug/L	90	1.5	SW846 8270C
Pyrene	ND	95.7	87.2	ug/L	91		SW846 8270C
	ND	96.2	90.4	ug/L	94	3.6	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(29 - 110)
	74	(29 - 110)
Phenol-d5	70	(41 - 115)
	80	(41 - 115)
Nitrobenzene-d5	68	(46 - 117)
	79	(46 - 117)
2-Fluorobiphenyl	80	(44 - 116)
	89	(44 - 116)
2,4,6-Tribromophenol	104	(31 - 138)
	100	(31 - 138)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H2J180210 **Work Order #...:** FAA061AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AK-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	106	(36 - 134)
	111	(36 - 134)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3005

HPLC

Lot-Sample #...: H2J180210-001 **Work Order #...:** FAA061AA **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
HMX	ND	0.50	ug/L	0.10
RDX	ND	0.50	ug/L	0.13
1,3,5-Trinitrobenzene	ND	0.20	ug/L	0.11
1,3-Dinitrobenzene	ND	0.20	ug/L	0.080
Tetryl	ND	0.20	ug/L	0.17
Nitrobenzene	**0.12 J**	**0.20**	**ug/L**	**0.070**
2,4,6-Trinitrotoluene	ND	0.20	ug/L	0.080
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L	0.11
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L	0.090
2,6-Dinitrotoluene	ND	0.20	ug/L	0.11
2,4-Dinitrotoluene	ND	0.20	ug/L	0.070
2-Nitrotoluene	ND	0.20	ug/L	0.14
4-Nitrotoluene	ND	0.20	ug/L	0.17
3-Nitrotoluene	ND	0.20	ug/L	0.13

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	95	(53 - 133)

NOTE(S):

J Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CD3006

HPLC

Lot-Sample #...: H2J180210-004 **Work Order #...:** FAA2A1AA **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
HMX	ND	0.50	ug/L	0.10
RDX	ND	0.50	ug/L	0.13
1,3,5-Trinitrobenzene	ND	0.20	ug/L	0.11
1,3-Dinitrobenzene	ND	0.20	ug/L	0.080
Tetryl	ND	0.20	ug/L	0.17
Nitrobenzene	**0.14 J**	**0.20**	**ug/L**	**0.070**
2,4,6-Trinitrotoluene	ND	0.20	ug/L	0.080
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L	0.11
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L	0.090
2,6-Dinitrotoluene	ND	0.20	ug/L	0.11
2,4-Dinitrotoluene	ND	0.20	ug/L	0.070
2-Nitrotoluene	ND	0.20	ug/L	0.14
4-Nitrotoluene	ND	0.20	ug/L	0.17
3-Nitrotoluene	ND	0.20	ug/L	0.13

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	80	(53 - 133)

NOTE(S):

J Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CD3003

HPLC

Lot-Sample #...: H2J180210-006 **Work Order #...:** FAA2D1AE **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
HMX	ND	0.50	ug/L	0.10
RDX	ND	0.50	ug/L	0.13
1,3,5-Trinitrobenzene	ND	0.20	ug/L	0.11
1,3-Dinitrobenzene	ND	0.20	ug/L	0.080
Tetryl	ND	0.20	ug/L	0.17
Nitrobenzene	ND	0.20	ug/L	0.070
2,4,6-Trinitrotoluene	ND	0.20	ug/L	0.080
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L	0.11
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L	0.090
2,6-Dinitrotoluene	ND	0.20	ug/L	0.11
2,4-Dinitrotoluene	ND	0.20	ug/L	0.070
2-Nitrotoluene	ND	0.20	ug/L	0.14
4-Nitrotoluene	ND	0.20	ug/L	0.17
3-Nitrotoluene	ND G	0.29	ug/L	0.13

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	80	(53 - 133)

NOTE(S):

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

METHOD BLANK REPORT

HPLC

Client Lot #...: H2J180210 **Work Order #...:** FAFQG1AA **Matrix.....:** WATER
MB Lot-Sample #: H2J210000-273

Prep Date.....: 10/22/02
Analysis Date..: 10/22/02 **Prep Batch #...:** 2294273
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
HMX	ND	0.50	ug/L	SW846 8330
RDX	ND	0.50	ug/L	SW846 8330
1,3,5-Trinitrobenzene	ND	0.20	ug/L	SW846 8330
1,3-Dinitrobenzene	ND	0.20	ug/L	SW846 8330
Tetryl	ND	0.20	ug/L	SW846 8330
Nitrobenzene	ND	0.20	ug/L	SW846 8330
2,4,6-Trinitrotoluene	ND	0.20	ug/L	SW846 8330
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L	SW846 8330
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,6-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,4-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2-Nitrotoluene	ND	0.20	ug/L	SW846 8330
4-Nitrotoluene	ND	0.20	ug/L	SW846 8330
3-Nitrotoluene	ND	0.20	ug/L	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	87	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H2J180210 **Work Order #...:** FAFQG1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2J210000-273
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**83**	**(68 - 122)**	**SW846 8330**
RDX	**88**	**(71 - 127)**	**SW846 8330**
1,3,5-Trinitrobenzene	**89**	**(70 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**90**	**(72 - 124)**	**SW846 8330**
Tetryl	**87**	**(68 - 123)**	**SW846 8330**
Nitrobenzene	**85**	**(60 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**90**	**(71 - 123)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**84**	**(66 - 122)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**83**	**(65 - 124)**	**SW846 8330**
2,6-Dinitrotoluene	**91**	**(66 - 129)**	**SW846 8330**
2,4-Dinitrotoluene	**89**	**(70 - 125)**	**SW846 8330**
2-Nitrotoluene	**79**	**(54 - 121)**	**SW846 8330**
4-Nitrotoluene	**81**	**(59 - 123)**	**SW846 8330**
3-Nitrotoluene	**84**	**(58 - 124)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	107	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: H2J180210 **Work Order #...:** FAFQG1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2J210000-273
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
HMX	**3.00**	**2.49**	**ug/L**	**83**	**SW846 8330**
RDX	**3.00**	**2.64**	**ug/L**	**88**	**SW846 8330**
1,3,5-Trinitrobenzene	**3.00**	**2.67**	**ug/L**	**89**	**SW846 8330**
1,3-Dinitrobenzene	**3.00**	**2.71**	**ug/L**	**90**	**SW846 8330**
Tetryl	**3.00**	**2.62**	**ug/L**	**87**	**SW846 8330**
Nitrobenzene	**3.00**	**2.55**	**ug/L**	**85**	**SW846 8330**
2,4,6-Trinitrotoluene	**3.00**	**2.71**	**ug/L**	**90**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**3.00**	**2.53**	**ug/L**	**84**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**3.00**	**2.48**	**ug/L**	**83**	**SW846 8330**
2,6-Dinitrotoluene	**3.00**	**2.74**	**ug/L**	**91**	**SW846 8330**
2,4-Dinitrotoluene	**3.00**	**2.66**	**ug/L**	**89**	**SW846 8330**
2-Nitrotoluene	**3.00**	**2.36**	**ug/L**	**79**	**SW846 8330**
4-Nitrotoluene	**3.00**	**2.44**	**ug/L**	**81**	**SW846 8330**
3-Nitrotoluene	**3.00**	**2.52**	**ug/L**	**84**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	107	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H2J180210 **Work Order #...:** FAA061AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AD-MSD
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**91**	**(61 - 132)**			**SW846 8330**
	102	**(61 - 132)**	**11**	**(0-40)**	**SW846 8330**
RDX	**95**	**(30 - 191)**			**SW846 8330**
	104	**(30 - 191)**	**9.2**	**(0-35)**	**SW846 8330**
1,3,5-Trinitrobenzene	**84**	**(70 - 124)**			**SW846 8330**
	94	**(70 - 124)**	**11**	**(0-33)**	**SW846 8330**
1,3-Dinitrobenzene	**86**	**(72 - 130)**			**SW846 8330**
	96	**(72 - 130)**	**11**	**(0-42)**	**SW846 8330**
Tetryl	**0.0**	**(55 - 125)**			**SW846 8330**
	0.0	**(55 - 125)**	**0.0**	**(0-37)**	**SW846 8330**
Nitrobenzene	**74**	**(59 - 136)**			**SW846 8330**
	89	**(59 - 136)**	**17**	**(0-36)**	**SW846 8330**
2,4,6-Trinitrotoluene	**89**	**(71 - 123)**			**SW846 8330**
	99	**(71 - 123)**	**10**	**(0-34)**	**SW846 8330**
4-Amino-2,6- dinitrotoluene	**82**	**(66 - 124)**			**SW846 8330**
	93	**(66 - 124)**	**12**	**(0-43)**	**SW846 8330**
2-Amino-4,6- dinitrotoluene	**83**	**(64 - 134)**			**SW846 8330**
	93	**(64 - 134)**	**12**	**(0-34)**	**SW846 8330**
2,6-Dinitrotoluene	**92**	**(66 - 136)**			**SW846 8330**
	101	**(66 - 136)**	**10**	**(0-32)**	**SW846 8330**
2,4-Dinitrotoluene	**88**	**(70 - 133)**			**SW846 8330**
	99	**(70 - 133)**	**11**	**(0-36)**	**SW846 8330**
2-Nitrotoluene	**66**	**(54 - 136)**			**SW846 8330**
	84	**(54 - 136)**	**24**	**(0-38)**	**SW846 8330**
4-Nitrotoluene	**71**	**(59 - 131)**			**SW846 8330**
	84	**(59 - 131)**	**17**	**(0-33)**	**SW846 8330**
3-Nitrotoluene	**75**	**(58 - 133)**			**SW846 8330**
	86	**(58 - 133)**	**14**	**(0-36)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	92	(53 - 133)
	82	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: H2J180210 **Work Order #...:** FAA061AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AD-MSD
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
HMX	**ND**	**3.00**	**2.74**	**ug/L**	**91**		**SW846 8330**
	ND	**3.00**	**3.07**	**ug/L**	**102**	**11**	**SW846 8330**
RDX	**ND**	**3.00**	**2.86**	**ug/L**	**95**		**SW846 8330**
	ND	**3.00**	**3.13**	**ug/L**	**104**	**9.2**	**SW846 8330**
1,3,5-Trinitrobenzene	**ND**	**3.00**	**2.52**	**ug/L**	**84**		**SW846 8330**
	ND	**3.00**	**2.82**	**ug/L**	**94**	**11**	**SW846 8330**
1,3-Dinitrobenzene	**ND**	**3.00**	**2.57**	**ug/L**	**86**		**SW846 8330**
	ND	**3.00**	**2.88**	**ug/L**	**96**	**11**	**SW846 8330**
Tetryl	**ND**	**3.00**		**ug/L**	**0.0**		**SW846 8330**
	ND	**3.00**		**ug/L**	**0.0**	**0.0**	**SW846 8330**
Nitrobenzene	**0.12**	**3.00**	**2.35**	**ug/L**	**74**		**SW846 8330**
	0.12	**3.00**	**2.78**	**ug/L**	**89**	**17**	**SW846 8330**
2,4,6-Trinitrotoluene	**ND**	**3.00**	**2.68**	**ug/L**	**89**		**SW846 8330**
	ND	**3.00**	**2.97**	**ug/L**	**99**	**10**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**ND**	**3.00**	**2.46**	**ug/L**	**82**		**SW846 8330**
	ND	**3.00**	**2.78**	**ug/L**	**93**	**12**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**ND**	**3.00**	**2.48**	**ug/L**	**83**		**SW846 8330**
	ND	**3.00**	**2.79**	**ug/L**	**93**	**12**	**SW846 8330**
2,6-Dinitrotoluene	**ND**	**3.00**	**2.75**	**ug/L**	**92**		**SW846 8330**
	ND	**3.00**	**3.04**	**ug/L**	**101**	**10**	**SW846 8330**
2,4-Dinitrotoluene	**ND**	**3.00**	**2.65**	**ug/L**	**88**		**SW846 8330**
	ND	**3.00**	**2.97**	**ug/L**	**99**	**11**	**SW846 8330**
2-Nitrotoluene	**ND**	**3.00**	**1.99**	**ug/L**	**66**		**SW846 8330**
	ND	**3.00**	**2.53**	**ug/L**	**84**	**24**	**SW846 8330**
4-Nitrotoluene	**ND**	**3.00**	**2.14**	**ug/L**	**71**		**SW846 8330**
	ND	**3.00**	**2.52**	**ug/L**	**84**	**17**	**SW846 8330**
3-Nitrotoluene	**ND**	**3.00**	**2.24**	**ug/L**	**75**		**SW846 8330**
	ND	**3.00**	**2.57**	**ug/L**	**86**	**14**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	92	(53 - 133)
	82	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3005

TOTAL Metals

Lot-Sample #...: H2J180210-001 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2293115						
Mercury	ND	0.20	ug/L	SW846 7470A	10/20-10/21/02	FAA061DT
		Dilution Factor: 1		Analysis Time..: 12:24	MDL.....: 0.030	
Prep Batch #...: 2296221						
Aluminum	**79.7 B**	**200**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA061AL**
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 18.4	
Antimony	ND	60.0	ug/L	SW846 6010B	10/24-10/25/02	FAA061AP
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 3.1	
Arsenic	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAA061AT
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 2.7	
Barium	**277**	**200**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA061AW**
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 0.50	
Beryllium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAA061A1
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 0.22	
Cadmium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAA061A4
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 0.22	
Calcium	**200000 J**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA061A7**
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 10.0	
Chromium	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAA061CA
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 1.0	
Cobalt	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FAA061CE
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 1.0	
Copper	ND	25.0	ug/L	SW846 6010B	10/24-10/25/02	FAA061CH
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 1.0	
Iron	**207**	**100**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA061CL**
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 16.2	
Lead	ND	3.0	ug/L	SW846 6010B	10/24-10/25/02	FAA061CP
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 0.92	

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3005

TOTAL Metals

Lot-Sample #...: H2J180210-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**80200**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA061CT**
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 10.2	
Manganese	**86.5**	**15.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA061CW**
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 0.51	
Nickel	ND	40.0	ug/L	SW846 6010B	10/24-10/25/02	FAA061C1
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 1.4	
Potassium	**16200 J**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA061C4**
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 50.0	
Selenium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAA061C7
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 3.1	
Silver	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAA061DA
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 0.78	
Sodium	**187000**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA061DE**
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 233	
Thallium	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAA061DH
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 2.9	
Vanadium	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FAA061DL
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 1.0	
Zinc	**1.7 B**	**20.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA061DP**
		Dilution Factor: 1		Analysis Time..: 13:12	MDL.....: 0.53	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SHAW E & I INC

Client Sample ID: CD3005

DISSOLVED Metals

Lot-Sample #...: H2J180210-002 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2295324						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FAA161DH
		Dilution Factor: 1		Analysis Time..: 12:28	MDL.....: 0.030	
Prep Batch #...: 2295402						
Aluminum	**69.8 B**	**200**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA161AA**
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 18.4	
Antimony	ND	60.0	ug/L	SW846 6010B	10/23-10/24/02	FAA161AE
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 3.1	
Arsenic	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAA161AH
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 2.7	
Barium	**270**	**200**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA161AL**
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 0.50	
Beryllium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAA161AP
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 0.22	
Cadmium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAA161AT
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 0.22	
Calcium	**198000**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA161AW**
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 10.0	
Chromium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAA161A1
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 1.0	
Cobalt	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FAA161A4
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 1.0	
Copper	ND	25.0	ug/L	SW846 6010B	10/23-10/24/02	FAA161A7
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 1.0	
Iron	**157**	**100**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA161CA**
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 16.2	
Lead	ND	3.0	ug/L	SW846 6010B	10/23-10/24/02	FAA161CE
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 0.92	

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3005

DISSOLVED Metals

Lot-Sample #...: H2J180210-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**78600**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA161CH**
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 10.2	
Manganese	**84.2**	**15.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA161CL**
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 0.51	
Nickel	ND	40.0	ug/L	SW846 6010B	10/23-10/24/02	FAA161CP
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 1.4	
Potassium	**15900 J**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA161CT**
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 50.0	
Selenium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAA161CW
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 3.1	
Silver	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAA161C1
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 0.78	
Sodium	**180000**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA161C4**
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 233	
Thallium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAA161C7
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 2.9	
Vanadium	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FAA161DA
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 1.0	
Zinc	**1.5 B,J**	**20.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA161DE**
		Dilution Factor: 1		Analysis Time..: 13:28	MDL.....: 0.53	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SHAW E & I INC

Client Sample ID: CD3006

TOTAL Metals

Lot-Sample #...: H2J180210-004 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2293115						
Mercury	ND	0.20	ug/L	SW846 7470A	10/20-10/21/02	FAA2A1A5
		Dilution Factor: 1		Analysis Time..: 12:31	MDL.....: 0.030	
Prep Batch #...: 2296221						
Aluminum	**80.1 B**	**200**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2A1AE**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 18.4	
Antimony	ND	60.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2A1AF
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 3.1	
Arsenic	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2A1AG
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 2.7	
Barium	**275**	**200**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2A1AH**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 0.50	
Beryllium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2A1AJ
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 0.22	
Cadmium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2A1AK
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 0.22	
Calcium	**198000 J**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2A1AL**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 10.0	
Chromium	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2A1AM
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 1.0	
Cobalt	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2A1AN
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 1.0	
Copper	ND	25.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2A1AP
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 1.0	
Iron	**203**	**100**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2A1AQ**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 16.2	
Lead	ND	3.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2A1AR
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 0.92	

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3006

TOTAL Metals

Lot-Sample #...: H2J180210-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**79500**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2A1AT**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 10.2	
Manganese	**85.2**	**15.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2A1AU**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 0.51	
Nickel	ND	40.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2A1AV
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 1.4	
Potassium	**15900 J**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2A1AW**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 50.0	
Selenium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2A1AX
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 3.1	
Silver	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2A1A0
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 0.78	
Sodium	**183000**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2A1A1**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 233	
Thallium	**4.8 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2A1A2**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 2.9	
Vanadium	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2A1A3
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 1.0	
Zinc	**1.9 B**	**20.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2A1A4**
		Dilution Factor: 1		Analysis Time..: 13:38	MDL.....: 0.53	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SHAW E & I INC

Client Sample ID: CD3006

DISSOLVED Metals

Lot-Sample #...: H2J180210-005 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2295324						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FAA2C1A2
		Dilution Factor: 1		Analysis Time..: 12:37	MDL.....: 0.030	
Prep Batch #...: 2295402						
Aluminum	**82.3 B**	**200**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2C1AE**
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 18.4	
Antimony	ND	60.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2C1AF
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 3.1	
Arsenic	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2C1AG
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 2.7	
Barium	**279**	**200**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2C1AH**
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 0.50	
Beryllium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2C1AJ
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 0.22	
Cadmium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2C1AK
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 0.22	
Calcium	**202000**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2C1AL**
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 10.0	
Chromium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2C1AA
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 1.0	
Cobalt	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2C1AC
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 1.0	
Copper	ND	25.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2C1AD
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 1.0	
Iron	**147**	**100**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2C1AQ**
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 16.2	
Lead	ND	3.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2C1AR
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 0.92	

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3006

DISSOLVED Metals

Lot-Sample #...: H2J180210-005 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**80500**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2C1AT**
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 10.2	
Manganese	**85.6**	**15.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2C1AU**
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 0.51	
Nickel	ND	40.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2C1AV
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 1.4	
Potassium	**16200 J**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2C1AW**
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 50.0	
Selenium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2C1AX
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 3.1	
Silver	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2C1AM
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 0.78	
Sodium	**183000**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2C1AN**
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 233	
Thallium	**3.9 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2C1AP**
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 2.9	
Vanadium	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2C1A0
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 1.0	
Zinc	**1.2 B,J**	**20.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2C1A1**
		Dilution Factor: 1		Analysis Time..: 13:55	MDL.....: 0.53	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SHAW E & I INC

Client Sample ID: CD3003

TOTAL Metals

Lot-Sample #...: H2J180210-006 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2293115						
Mercury	ND	0.20	ug/L	SW846 7470A	10/20-10/21/02	FAA2D1A8
		Dilution Factor: 1		Analysis Time..: 12:33	MDL.....: 0.030	
Prep Batch #...: 2296221						
Aluminum	**155 B**	**200**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2D1AH**
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 18.4	
Antimony	ND	60.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2D1AJ
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 3.1	
Arsenic	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2D1AK
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 2.7	
Barium	**25700**	**4000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2D1AL**
		Dilution Factor: 20		Analysis Time..: 14:02	MDL.....: 10.0	
Beryllium	**0.51 B**	**5.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2D1AA**
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 0.22	
Cadmium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2D1AC
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 0.22	
Calcium	**2050000 J**	**100000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2D1AD**
		Dilution Factor: 20		Analysis Time..: 14:02	MDL.....: 200	
Chromium	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2D1AQ
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 1.0	
Cobalt	**8.1 B**	**50.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2D1AR**
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 1.0	
Copper	ND	25.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2D1AT
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 1.0	
Iron	**5310**	**100**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2D1AU**
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 16.2	
Lead	ND G	6.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2D1AV
		Dilution Factor: 1		Analysis Time..: 14:02	MDL.....: 0.92	

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3003

TOTAL Metals

Lot-Sample #...: H2J180210-006 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**941000**	**100000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2D1AW**
		Dilution Factor: 20		Analysis Time..: 14:02	MDL.....: 204	
Manganese	**185**	**15.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2D1AX**
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 0.51	
Nickel	ND	40.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2D1AM
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 1.4	
Potassium	**91700 B,J**	**100000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2D1AN**
		Dilution Factor: 20		Analysis Time..: 14:02	MDL.....: 1000	
Selenium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2D1AP
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 3.1	
Silver	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2D1A3
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 0.78	
Sodium	**8190000**	**100000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2D1A4**
		Dilution Factor: 20		Analysis Time..: 14:02	MDL.....: 4660	
Thallium	**4.1 B,J**	**10.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2D1A5**
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 2.9	
Vanadium	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FAA2D1A6
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 1.0	
Zinc	**15.6 B**	**20.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAA2D1A7**
		Dilution Factor: 1		Analysis Time..: 13:43	MDL.....: 0.53	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

SHAW E & I INC

Client Sample ID: CD3003

DISSOLVED Metals

Lot-Sample #...: H2J180210-007 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2295324						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FAA2G1A2
		Dilution Factor: 1		Analysis Time..: 12:39	MDL.....: 0.030	
Prep Batch #...: 2295402						
Aluminum	**69.8 B**	**200**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2G1AE**
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 18.4	
Antimony	ND	60.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2G1AF
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 3.1	
Arsenic	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2G1AG
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 2.7	
Barium	**24500**	**4000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2G1AH**
		Dilution Factor: 20		Analysis Time..: 15:04	MDL.....: 10.0	
Beryllium	**0.24 B**	**5.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2G1AJ**
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 0.22	
Cadmium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2G1AK
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 0.22	
Calcium	**1990000**	**100000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2G1AL**
		Dilution Factor: 20		Analysis Time..: 15:04	MDL.....: 200	
Chromium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2G1AA
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 1.0	
Cobalt	**7.5 B**	**50.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2G1AC**
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 1.0	
Copper	ND	25.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2G1AD
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 1.0	
Iron	**4940**	**100**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2G1AQ**
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 16.2	
Lead	ND G	6.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2G1AR
		Dilution Factor: 1		Analysis Time..: 15:04	MDL.....: 0.92	

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3003

DISSOLVED Metals

Lot-Sample #...: H2J180210-007 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**911000**	**100000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2G1AT**
		Dilution Factor: 20		Analysis Time..: 15:04	MDL.....: 204	
Manganese	**182**	**15.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2G1AU**
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 0.51	
Nickel	ND	40.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2G1AV
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 1.4	
Potassium	**88400 B,J**	**100000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2G1AW**
		Dilution Factor: 20		Analysis Time..: 15:04	MDL.....: 1000	
Selenium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2G1AX
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 3.1	
Silver	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2G1AM
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 0.78	
Sodium	**7750000**	**100000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2G1AN**
		Dilution Factor: 20		Analysis Time..: 15:04	MDL.....: 4660	
Thallium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2G1AP
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 2.9	
Vanadium	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FAA2G1A0
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 1.0	
Zinc	**78.3 J**	**20.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAA2G1A1**
		Dilution Factor: 1		Analysis Time..: 13:59	MDL.....: 0.53	

NOTE(S):

B Estimated result. Result is less than RL.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2J200000-115 **Prep Batch #...:** 2293115						
Mercury	ND	0.20	ug/L	SW846 7470A	10/20-10/21/02	FAE1N1AA
		Dilution Factor: 1				
		Analysis Time..: 11:34				
MB Lot-Sample #: H2J230000-221 **Prep Batch #...:** 2296221						
Aluminum	ND	200	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AA
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Antimony	ND	60.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AC
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Arsenic	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AD
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Barium	ND	200	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AE
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Beryllium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AF
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Cadmium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AG
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Calcium	**11.2 B**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAKGC1AH**
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Chromium	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AJ
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Cobalt	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AK
		Dilution Factor: 1				
		Analysis Time..: 11:06				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2J180210 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	25.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AL
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Iron	ND	100	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AM
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Lead	ND	3.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AN
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Magnesium	ND	5000	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AP
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Manganese	ND	15.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AQ
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Nickel	ND	40.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AR
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Potassium	**89.7 B**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAKGC1AT**
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Selenium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AU
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Silver	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AV
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Sodium	ND	5000	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AW
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Thallium	**6.0 B**	**10.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAKGC1AX**
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Vanadium	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1A0
		Dilution Factor: 1				
		Analysis Time..: 11:06				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2J180210 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	20.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1A1

Dilution Factor: 1
Analysis Time..: 11:06

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2J200000-115 **Prep Batch #...:** 2293115					
Mercury	101	(90 - 110)	SW846 7470A	10/20-10/21/02	FAE1N1AC
		Dilution Factor: 1	Analysis Time..: 11:36		
LCS Lot-Sample#: H2J230000-221 **Prep Batch #...:** 2296221					
Aluminum	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A2
		Dilution Factor: 1	Analysis Time..: 11:11		
Antimony	99	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A3
		Dilution Factor: 1	Analysis Time..: 11:11		
Arsenic	99	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A4
		Dilution Factor: 1	Analysis Time..: 11:11		
Barium	97	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A5
		Dilution Factor: 1	Analysis Time..: 11:11		
Beryllium	103	(90 - 115)	SW846 6010B	10/24-10/25/02	FAKGC1A6
		Dilution Factor: 1	Analysis Time..: 11:11		
Cadmium	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A7
		Dilution Factor: 1	Analysis Time..: 11:11		
Calcium	99	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A8
		Dilution Factor: 1	Analysis Time..: 11:11		
Chromium	99	(89 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A9
		Dilution Factor: 1	Analysis Time..: 11:11		
Cobalt	100	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CA
		Dilution Factor: 1	Analysis Time..: 11:11		
Copper	97	(88 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CC
		Dilution Factor: 1	Analysis Time..: 11:11		
Iron	96	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CD
		Dilution Factor: 1	Analysis Time..: 11:11		
Lead	99	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CE
		Dilution Factor: 1	Analysis Time..: 11:11		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	97	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CF
		Dilution Factor: 1	Analysis Time..: 11:11		
Manganese	100	(90 - 111)	SW846 6010B	10/24-10/25/02	FAKGC1CG
		Dilution Factor: 1	Analysis Time..: 11:11		
Nickel	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CH
		Dilution Factor: 1	Analysis Time..: 11:11		
Potassium	94	(89 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CJ
		Dilution Factor: 1	Analysis Time..: 11:11		
Selenium	101	(90 - 114)	SW846 6010B	10/24-10/25/02	FAKGC1CK
		Dilution Factor: 1	Analysis Time..: 11:11		
Silver	96	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CL
		Dilution Factor: 1	Analysis Time..: 11:11		
Sodium	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CM
		Dilution Factor: 1	Analysis Time..: 11:11		
Thallium	100	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CN
		Dilution Factor: 1	Analysis Time..: 11:11		
Vanadium	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CP
		Dilution Factor: 1	Analysis Time..: 11:11		
Zinc	104	(90 - 115)	SW846 6010B	10/24-10/25/02	FAKGC1CQ
		Dilution Factor: 1	Analysis Time..: 11:11		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2J200000-115 **Prep Batch #...:** 2293115							
Mercury	5.00	5.03	ug/L	101	SW846 7470A	10/20-10/21/02	FAE1N1AC
			Dilution Factor: 1		Analysis Time..: 11:36		
LCS Lot-Sample#: H2J230000-221 **Prep Batch #...:** 2296221							
Aluminum	2000	1950	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1A2
			Dilution Factor: 1		Analysis Time..: 11:11		
Antimony	500	494	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1A3
			Dilution Factor: 1		Analysis Time..: 11:11		
Arsenic	2000	1980	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1A4
			Dilution Factor: 1		Analysis Time..: 11:11		
Barium	2000	1930	ug/L	97	SW846 6010B	10/24-10/25/02	FAKGC1A5
			Dilution Factor: 1		Analysis Time..: 11:11		
Beryllium	50.0	51.7	ug/L	103	SW846 6010B	10/24-10/25/02	FAKGC1A6
			Dilution Factor: 1		Analysis Time..: 11:11		
Cadmium	50.0	48.9	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1A7
			Dilution Factor: 1		Analysis Time..: 11:11		
Calcium	50000	49700	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1A8
			Dilution Factor: 1		Analysis Time..: 11:11		
Chromium	200	198	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1A9
			Dilution Factor: 1		Analysis Time..: 11:11		
Cobalt	500	499	ug/L	100	SW846 6010B	10/24-10/25/02	FAKGC1CA
			Dilution Factor: 1		Analysis Time..: 11:11		
Copper	250	243	ug/L	97	SW846 6010B	10/24-10/25/02	FAKGC1CC
			Dilution Factor: 1		Analysis Time..: 11:11		
Iron	1000	960	ug/L	96	SW846 6010B	10/24-10/25/02	FAKGC1CD
			Dilution Factor: 1		Analysis Time..: 11:11		
Lead	500	494	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1CE
			Dilution Factor: 1		Analysis Time..: 11:11		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	50000	48700	ug/L	97	SW846 6010B	10/24-10/25/02	FAKGC1CF
			Dilution Factor: 1		Analysis Time..: 11:11		
Manganese	500	498	ug/L	100	SW846 6010B	10/24-10/25/02	FAKGC1CG
			Dilution Factor: 1		Analysis Time..: 11:11		
Nickel	500	489	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1CH
			Dilution Factor: 1		Analysis Time..: 11:11		
Potassium	50000	46800	ug/L	94	SW846 6010B	10/24-10/25/02	FAKGC1CJ
			Dilution Factor: 1		Analysis Time..: 11:11		
Selenium	2000	2010	ug/L	101	SW846 6010B	10/24-10/25/02	FAKGC1CK
			Dilution Factor: 1		Analysis Time..: 11:11		
Silver	50.0	47.8	ug/L	96	SW846 6010B	10/24-10/25/02	FAKGC1CL
			Dilution Factor: 1		Analysis Time..: 11:11		
Sodium	50000	49100	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1CM
			Dilution Factor: 1		Analysis Time..: 11:11		
Thallium	2000	1990	ug/L	100	SW846 6010B	10/24-10/25/02	FAKGC1CN
			Dilution Factor: 1		Analysis Time..: 11:11		
Vanadium	500	489	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1CP
			Dilution Factor: 1		Analysis Time..: 11:11		
Zinc	500	521	ug/L	104	SW846 6010B	10/24-10/25/02	FAKGC1CQ
			Dilution Factor: 1		Analysis Time..: 11:11		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J180210-001 **Prep Batch #...:** 2293115							
Mercury	98	(73 - 125)			SW846 7470A	10/20-10/21/02	FAA061DU
	99	(73 - 125)	1.1	(0-20)	SW846 7470A	10/20-10/21/02	FAA061DV
		Dilution Factor: 1					
		Analysis Time..: 12:27					
MS Lot-Sample #: H2J180210-001 **Prep Batch #...:** 2296221							
Aluminum	97	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061AM
	100	(75 - 125)	2.9	(0-20)	SW846 6010B	10/24-10/25/02	FAA061AN
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Antimony	99	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061AQ
	101	(75 - 125)	2.4	(0-20)	SW846 6010B	10/24-10/25/02	FAA061AR
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Arsenic	98	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061AU
	101	(75 - 125)	2.9	(0-20)	SW846 6010B	10/24-10/25/02	FAA061AV
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Barium	94	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061AX
	98	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061A0
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Beryllium	98	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061A2
	102	(75 - 125)	3.3	(0-20)	SW846 6010B	10/24-10/25/02	FAA061A3
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Cadmium	93	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061A5
	95	(75 - 125)	3.0	(0-20)	SW846 6010B	10/24-10/25/02	FAA061A6
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Calcium	78	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061A8
	90	(75 - 125)	2.6	(0-20)	SW846 6010B	10/24-10/25/02	FAA061A9
		Dilution Factor: 1					
		Analysis Time..: 13:16					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	93	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CC
	96	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CD
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Cobalt	95	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CF
	98	(75 - 125)	3.1	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CG
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Copper	95	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CJ
	98	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CK
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Iron	92	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CM
	95	(75 - 125)	2.3	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CN
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Lead	94	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CQ
	97	(75 - 125)	3.1	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CR
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Magnesium	93	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CU
	100	(75 - 125)	2.8	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CV
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Manganese	95	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CX
	98	(75 - 125)	3.0	(0-20)	SW846 6010B	10/24-10/25/02	FAA061C0
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Nickel	92	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061C2
	95	(75 - 125)	3.0	(0-20)	SW846 6010B	10/24-10/25/02	FAA061C3
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Potassium	102	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061C5
	107	(75 - 125)	3.3	(0-20)	SW846 6010B	10/24-10/25/02	FAA061C6
		Dilution Factor: 1					
		Analysis Time..: 13:16					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	91	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061C8
	94	(75 - 125)	3.3	(0-20)	SW846 6010B	10/24-10/25/02	FAA061C9
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Silver	95	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DC
	98	(75 - 125)	2.9	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DD
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Sodium	89	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DF
	101	(75 - 125)	2.7	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DG
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Thallium	96	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DJ
	99	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DK
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Vanadium	94	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DM
	97	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DN
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Zinc	102	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DQ
	105	(75 - 125)	3.1	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DR
		Dilution Factor: 1					
		Analysis Time..: 13:16					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J180210-001 **Prep Batch #...:** 2293115									
Mercury									
	ND	1.00	0.980	ug/L	98		SW846 7470A	10/20-10/21/02	FAA061DU
	ND	1.00	0.991	ug/L	99	1.1	SW846 7470A	10/20-10/21/02	FAA061DV
			Dilution Factor: 1						
			Analysis Time..: 12:27						
MS Lot-Sample #: H2J180210-001 **Prep Batch #...:** 2296221									
Aluminum									
	79.7	2000	2010	ug/L	97		SW846 6010B	10/24-10/25/02	FAA061AM
	79.7	2000	2070	ug/L	100	2.9	SW846 6010B	10/24-10/25/02	FAA061AN
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Antimony									
	ND	500	495	ug/L	99		SW846 6010B	10/24-10/25/02	FAA061AQ
	ND	500	507	ug/L	101	2.4	SW846 6010B	10/24-10/25/02	FAA061AR
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Arsenic									
	ND	2000	1970	ug/L	98		SW846 6010B	10/24-10/25/02	FAA061AU
	ND	2000	2020	ug/L	101	2.9	SW846 6010B	10/24-10/25/02	FAA061AV
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Barium									
	277	2000	2160	ug/L	94		SW846 6010B	10/24-10/25/02	FAA061AX
	277	2000	2230	ug/L	98	3.2	SW846 6010B	10/24-10/25/02	FAA061A0
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Beryllium									
	ND	50.0	49.1	ug/L	98		SW846 6010B	10/24-10/25/02	FAA061A2
	ND	50.0	50.8	ug/L	102	3.3	SW846 6010B	10/24-10/25/02	FAA061A3
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Cadmium									
	ND	50.0	46.3	ug/L	93		SW846 6010B	10/24-10/25/02	FAA061A5
	ND	50.0	47.7	ug/L	95	3.0	SW846 6010B	10/24-10/25/02	FAA061A6
			Dilution Factor: 1						
			Analysis Time..: 13:16						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium									
	200000	50000	238000	ug/L	78		SW846 6010B	10/24-10/25/02	FAA061A8
	200000	50000	245000	ug/L	90	2.6	SW846 6010B	10/24-10/25/02	FAA061A9
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Chromium									
	ND	200	187	ug/L	93		SW846 6010B	10/24-10/25/02	FAA061CC
	ND	200	193	ug/L	96	3.2	SW846 6010B	10/24-10/25/02	FAA061CD
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Cobalt									
	ND	500	474	ug/L	95		SW846 6010B	10/24-10/25/02	FAA061CF
	ND	500	489	ug/L	98	3.1	SW846 6010B	10/24-10/25/02	FAA061CG
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Copper									
	ND	250	236	ug/L	95		SW846 6010B	10/24-10/25/02	FAA061CJ
	ND	250	244	ug/L	98	3.2	SW846 6010B	10/24-10/25/02	FAA061CK
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Iron									
	207	1000	1130	ug/L	92		SW846 6010B	10/24-10/25/02	FAA061CM
	207	1000	1150	ug/L	95	2.3	SW846 6010B	10/24-10/25/02	FAA061CN
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Lead									
	ND	500	469	ug/L	94		SW846 6010B	10/24-10/25/02	FAA061CQ
	ND	500	484	ug/L	97	3.1	SW846 6010B	10/24-10/25/02	FAA061CR
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Magnesium									
	80200	50000	127000	ug/L	93		SW846 6010B	10/24-10/25/02	FAA061CU
	80200	50000	130000	ug/L	100	2.8	SW846 6010B	10/24-10/25/02	FAA061CV
			Dilution Factor: 1						
			Analysis Time..: 13:16						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese									
	86.5	500	560	ug/L	95		SW846 6010B	10/24-10/25/02	FAA061CX
	86.5	500	577	ug/L	98	3.0	SW846 6010B	10/24-10/25/02	FAA061C0
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Nickel									
	ND	500	462	ug/L	92		SW846 6010B	10/24-10/25/02	FAA061C2
	ND	500	476	ug/L	95	3.0	SW846 6010B	10/24-10/25/02	FAA061C3
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Potassium									
	16200	50000	67400	ug/L	102		SW846 6010B	10/24-10/25/02	FAA061C5
	16200	50000	69600	ug/L	107	3.3	SW846 6010B	10/24-10/25/02	FAA061C6
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Selenium									
	ND	2000	1810	ug/L	91		SW846 6010B	10/24-10/25/02	FAA061C8
	ND	2000	1870	ug/L	94	3.3	SW846 6010B	10/24-10/25/02	FAA061C9
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Silver									
	ND	50.0	47.4	ug/L	95		SW846 6010B	10/24-10/25/02	FAA061DC
	ND	50.0	48.9	ug/L	98	2.9	SW846 6010B	10/24-10/25/02	FAA061DD
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Sodium									
	187000	50000	231000	ug/L	89		SW846 6010B	10/24-10/25/02	FAA061DF
	187000	50000	237000	ug/L	101	2.7	SW846 6010B	10/24-10/25/02	FAA061DG
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Thallium									
	ND	2000	1920	ug/L	96		SW846 6010B	10/24-10/25/02	FAA061DJ
	ND	2000	1980	ug/L	99	3.2	SW846 6010B	10/24-10/25/02	FAA061DK
			Dilution Factor: 1						
			Analysis Time..: 13:16						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium									
	ND	500	470	ug/L	94		SW846 6010B	10/24-10/25/02	FAA061DM
	ND	500	485	ug/L	97	3.2	SW846 6010B	10/24-10/25/02	FAA061DN
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Zinc									
	1.7	500	509	ug/L	102		SW846 6010B	10/24-10/25/02	FAA061DQ
	1.7	500	525	ug/L	105	3.1	SW846 6010B	10/24-10/25/02	FAA061DR
			Dilution Factor: 1						
			Analysis Time..: 13:16						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2J220000-324 **Prep Batch #...:** 2295324						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FAHM11AA
		Dilution Factor: 1				
		Analysis Time..: 12:22				
MB Lot-Sample #: H2J220000-402 **Prep Batch #...:** 2295402						
Aluminum	ND	200	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AA
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Antimony	ND	60.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AC
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Arsenic	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AD
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Barium	ND	200	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AE
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Beryllium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AF
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Cadmium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AG
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Calcium	ND	5000	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AH
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Chromium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AJ
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Cobalt	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AK
		Dilution Factor: 1				
		Analysis Time..: 11:59				

(Continued on next page)

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	25.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AL
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Iron	ND	100	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AM
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Lead	ND	3.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AN
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Magnesium	ND	5000	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AP
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Manganese	ND	15.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AQ
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Nickel	ND	40.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AR
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Potassium	**88.8 B**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAH7A1AT**
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Selenium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AU
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Silver	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AV
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Sodium	ND	5000	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AW
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Thallium	**5.1 B**	**10.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAH7A1AX**
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Vanadium	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1A0
		Dilution Factor: 1				
		Analysis Time..: 11:59				

(Continued on next page)

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	1.2 B	20.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1A1

Dilution Factor: 1
Analysis Time..: 11:59

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2J220000-324 **Prep Batch #...:** 2295324					
Mercury	111 N	(90 - 110)	SW846 7470A	10/23/02	FAHM11AC
		Dilution Factor: 1	Analysis Time..: 12:24		
LCS Lot-Sample#: H2J220000-402 **Prep Batch #...:** 2295402					
Aluminum	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A2
		Dilution Factor: 1	Analysis Time..: 12:03		
Antimony	98	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A3
		Dilution Factor: 1	Analysis Time..: 12:03		
Arsenic	100	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A4
		Dilution Factor: 1	Analysis Time..: 12:03		
Barium	98	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A5
		Dilution Factor: 1	Analysis Time..: 12:03		
Beryllium	103	(90 - 115)	SW846 6010B	10/23-10/24/02	FAH7A1A6
		Dilution Factor: 1	Analysis Time..: 12:03		
Cadmium	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A7
		Dilution Factor: 1	Analysis Time..: 12:03		
Calcium	100	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A8
		Dilution Factor: 1	Analysis Time..: 12:03		
Chromium	99	(89 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A9
		Dilution Factor: 1	Analysis Time..: 12:03		
Cobalt	100	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CA
		Dilution Factor: 1	Analysis Time..: 12:03		
Copper	97	(88 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CC
		Dilution Factor: 1	Analysis Time..: 12:03		
Iron	97	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CD
		Dilution Factor: 1	Analysis Time..: 12:03		
Lead	98	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CE
		Dilution Factor: 1	Analysis Time..: 12:03		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CF
		Dilution Factor: 1	Analysis Time..: 12:03		
Manganese	100	(90 - 111)	SW846 6010B	10/23-10/24/02	FAH7A1CG
		Dilution Factor: 1	Analysis Time..: 12:03		
Nickel	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CH
		Dilution Factor: 1	Analysis Time..: 12:03		
Potassium	96	(89 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CJ
		Dilution Factor: 1	Analysis Time..: 12:03		
Selenium	101	(90 - 114)	SW846 6010B	10/23-10/24/02	FAH7A1CK
		Dilution Factor: 1	Analysis Time..: 12:03		
Silver	96	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CL
		Dilution Factor: 1	Analysis Time..: 12:03		
Sodium	98	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CM
		Dilution Factor: 1	Analysis Time..: 12:03		
Thallium	100	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CN
		Dilution Factor: 1	Analysis Time..: 12:03		
Vanadium	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CP
		Dilution Factor: 1	Analysis Time..: 12:03		
Zinc	105	(90 - 115)	SW846 6010B	10/23-10/24/02	FAH7A1CQ
		Dilution Factor: 1	Analysis Time..: 12:03		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2J220000-324 **Prep Batch #...:** 2295324							
Mercury	5.00	5.55 N	ug/L	111	SW846 7470A	10/23/02	FAHM11AC
			Dilution Factor: 1		Analysis Time..: 12:24		
LCS Lot-Sample#: H2J220000-402 **Prep Batch #...:** 2295402							
Aluminum	2000	1980	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1A2
			Dilution Factor: 1		Analysis Time..: 12:03		
Antimony	500	492	ug/L	98	SW846 6010B	10/23-10/24/02	FAH7A1A3
			Dilution Factor: 1		Analysis Time..: 12:03		
Arsenic	2000	1990	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1A4
			Dilution Factor: 1		Analysis Time..: 12:03		
Barium	2000	1950	ug/L	98	SW846 6010B	10/23-10/24/02	FAH7A1A5
			Dilution Factor: 1		Analysis Time..: 12:03		
Beryllium	50.0	51.6	ug/L	103	SW846 6010B	10/23-10/24/02	FAH7A1A6
			Dilution Factor: 1		Analysis Time..: 12:03		
Cadmium	50.0	49.6	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1A7
			Dilution Factor: 1		Analysis Time..: 12:03		
Calcium	50000	49800	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1A8
			Dilution Factor: 1		Analysis Time..: 12:03		
Chromium	200	198	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1A9
			Dilution Factor: 1		Analysis Time..: 12:03		
Cobalt	500	500	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1CA
			Dilution Factor: 1		Analysis Time..: 12:03		
Copper	250	242	ug/L	97	SW846 6010B	10/23-10/24/02	FAH7A1CC
			Dilution Factor: 1		Analysis Time..: 12:03		
Iron	1000	974	ug/L	97	SW846 6010B	10/23-10/24/02	FAH7A1CD
			Dilution Factor: 1		Analysis Time..: 12:03		
Lead	500	492	ug/L	98	SW846 6010B	10/23-10/24/02	FAH7A1CE
			Dilution Factor: 1		Analysis Time..: 12:03		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	50000	49300	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1CF
			Dilution Factor: 1		Analysis Time..: 12:03		
Manganese	500	499	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1CG
			Dilution Factor: 1		Analysis Time..: 12:03		
Nickel	500	496	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1CH
			Dilution Factor: 1		Analysis Time..: 12:03		
Potassium	50000	47800	ug/L	96	SW846 6010B	10/23-10/24/02	FAH7A1CJ
			Dilution Factor: 1		Analysis Time..: 12:03		
Selenium	2000	2030	ug/L	101	SW846 6010B	10/23-10/24/02	FAH7A1CK
			Dilution Factor: 1		Analysis Time..: 12:03		
Silver	50.0	48.0	ug/L	96	SW846 6010B	10/23-10/24/02	FAH7A1CL
			Dilution Factor: 1		Analysis Time..: 12:03		
Sodium	50000	49100	ug/L	98	SW846 6010B	10/23-10/24/02	FAH7A1CM
			Dilution Factor: 1		Analysis Time..: 12:03		
Thallium	2000	1990	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1CN
			Dilution Factor: 1		Analysis Time..: 12:03		
Vanadium	500	493	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1CP
			Dilution Factor: 1		Analysis Time..: 12:03		
Zinc	500	525	ug/L	105	SW846 6010B	10/23-10/24/02	FAH7A1CQ
			Dilution Factor: 1		Analysis Time..: 12:03		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J180210-002 **Prep Batch #...:** 2295324							
Mercury	100	(73 - 125)			SW846 7470A	10/23/02	FAA161DJ
	95	(73 - 125)	5.0	(0-20)	SW846 7470A	10/23/02	FAA161DK
		Dilution Factor: 1					
		Analysis Time..: 12:34					
MS Lot-Sample #: H2J180210-002 **Prep Batch #...:** 2295402							
Aluminum	102	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AC
	101	(75 - 125)	0.89	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AD
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Antimony	102	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AF
	99	(75 - 125)	2.8	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AG
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Arsenic	101	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AJ
	100	(75 - 125)	1.6	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AK
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Barium	99	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AM
	97	(75 - 125)	1.2	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AN
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Beryllium	102	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AQ
	101	(75 - 125)	1.4	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AR
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Cadmium	95	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AU
	95	(75 - 125)	0.63	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AV
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Calcium	104	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AX
	95	(75 - 125)	1.7	(0-20)	SW846 6010B	10/23-10/24/02	FAA161A0
		Dilution Factor: 1					
		Analysis Time..: 13:42					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	98	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161A2
	97	(75 - 125)	1.3	(0-20)	SW846 6010B	10/23-10/24/02	FAA161A3
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Cobalt	99	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161A5
	98	(75 - 125)	1.3	(0-20)	SW846 6010B	10/23-10/24/02	FAA161A6
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Copper	100	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161A8
	99	(75 - 125)	1.7	(0-20)	SW846 6010B	10/23-10/24/02	FAA161A9
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Iron	98	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CC
	95	(75 - 125)	2.6	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CD
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Lead	97	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CF
	95	(75 - 125)	1.6	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CG
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Magnesium	107	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CJ
	102	(75 - 125)	1.9	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CK
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Manganese	100	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CM
	98	(75 - 125)	1.4	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CN
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Nickel	95	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CQ
	94	(75 - 125)	0.72	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CR
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Potassium	112	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CU
	108	(75 - 125)	2.4	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CV
		Dilution Factor: 1					
		Analysis Time..: 13:42					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	98	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CX
	95	(75 - 125)	3.2	(0-20)	SW846 6010B	10/23-10/24/02	FAA161C0
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Silver	100	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161C2
	98	(75 - 125)	2.0	(0-20)	SW846 6010B	10/23-10/24/02	FAA161C3
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Sodium	113	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161C5
	100	(75 - 125)	2.7	(0-20)	SW846 6010B	10/23-10/24/02	FAA161C6
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Thallium	99	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161C8
	98	(75 - 125)	1.3	(0-20)	SW846 6010B	10/23-10/24/02	FAA161C9
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Vanadium	99	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161DC
	98	(75 - 125)	1.1	(0-20)	SW846 6010B	10/23-10/24/02	FAA161DD
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Zinc	105	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161DF
	103	(75 - 125)	1.5	(0-20)	SW846 6010B	10/23-10/24/02	FAA161DG
		Dilution Factor: 1					
		Analysis Time..: 13:42					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J180210-002 **Prep Batch #...:** 2295324									
Mercury									
	ND	1.00	1.00	ug/L	100		SW846 7470A	10/23/02	FAA161DJ
	ND	1.00	0.951	ug/L	95	5.0	SW846 7470A	10/23/02	FAA161DK
			Dilution Factor: 1						
			Analysis Time..: 12:34						
MS Lot-Sample #: H2J180210-002 **Prep Batch #...:** 2295402									
Aluminum									
	69.8	2000	2110	ug/L	102		SW846 6010B	10/23-10/24/02	FAA161AC
	69.8	2000	2100	ug/L	101	0.89	SW846 6010B	10/23-10/24/02	FAA161AD
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Antimony									
	ND	500	508	ug/L	102		SW846 6010B	10/23-10/24/02	FAA161AF
	ND	500	494	ug/L	99	2.8	SW846 6010B	10/23-10/24/02	FAA161AG
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Arsenic									
	ND	2000	2020	ug/L	101		SW846 6010B	10/23-10/24/02	FAA161AJ
	ND	2000	1990	ug/L	100	1.6	SW846 6010B	10/23-10/24/02	FAA161AK
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Barium									
	270	2000	2240	ug/L	99		SW846 6010B	10/23-10/24/02	FAA161AM
	270	2000	2220	ug/L	97	1.2	SW846 6010B	10/23-10/24/02	FAA161AN
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Beryllium									
	ND	50.0	51.0	ug/L	102		SW846 6010B	10/23-10/24/02	FAA161AQ
	ND	50.0	50.4	ug/L	101	1.4	SW846 6010B	10/23-10/24/02	FAA161AR
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Cadmium									
	ND	50.0	47.7	ug/L	95		SW846 6010B	10/23-10/24/02	FAA161AU
	ND	50.0	47.4	ug/L	95	0.63	SW846 6010B	10/23-10/24/02	FAA161AV
			Dilution Factor: 1						
			Analysis Time..: 13:42						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium									
	198000	50000	249000	ug/L	104		SW846 6010B	10/23-10/24/02	FAA161AX
	198000	50000	245000	ug/L	95	1.7	SW846 6010B	10/23-10/24/02	FAA161A0
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Chromium									
	ND	200	196	ug/L	98		SW846 6010B	10/23-10/24/02	FAA161A2
	ND	200	193	ug/L	97	1.3	SW846 6010B	10/23-10/24/02	FAA161A3
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Cobalt									
	ND	500	497	ug/L	99		SW846 6010B	10/23-10/24/02	FAA161A5
	ND	500	490	ug/L	98	1.3	SW846 6010B	10/23-10/24/02	FAA161A6
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Copper									
	ND	250	251	ug/L	100		SW846 6010B	10/23-10/24/02	FAA161A8
	ND	250	247	ug/L	99	1.7	SW846 6010B	10/23-10/24/02	FAA161A9
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Iron									
	157	1000	1130	ug/L	98		SW846 6010B	10/23-10/24/02	FAA161CC
	157	1000	1110	ug/L	95	2.6	SW846 6010B	10/23-10/24/02	FAA161CD
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Lead									
	ND	500	483	ug/L	97		SW846 6010B	10/23-10/24/02	FAA161CF
	ND	500	475	ug/L	95	1.6	SW846 6010B	10/23-10/24/02	FAA161CG
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Magnesium									
	78600	50000	132000	ug/L	107		SW846 6010B	10/23-10/24/02	FAA161CJ
	78600	50000	130000	ug/L	102	1.9	SW846 6010B	10/23-10/24/02	FAA161CK
			Dilution Factor: 1						
			Analysis Time..: 13:42						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese									
	84.2	500	582	ug/L	100		SW846 6010B	10/23-10/24/02	FAA161CM
	84.2	500	574	ug/L	98	1.4	SW846 6010B	10/23-10/24/02	FAA161CN
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Nickel									
	ND	500	473	ug/L	95		SW846 6010B	10/23-10/24/02	FAA161CQ
	ND	500	469	ug/L	94	0.72	SW846 6010B	10/23-10/24/02	FAA161CR
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Potassium									
	15900	50000	71800	ug/L	112		SW846 6010B	10/23-10/24/02	FAA161CU
	15900	50000	70100	ug/L	108	2.4	SW846 6010B	10/23-10/24/02	FAA161CV
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Selenium									
	ND	2000	1960	ug/L	98		SW846 6010B	10/23-10/24/02	FAA161CX
	ND	2000	1900	ug/L	95	3.2	SW846 6010B	10/23-10/24/02	FAA161C0
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Silver									
	ND	50.0	50.2	ug/L	100		SW846 6010B	10/23-10/24/02	FAA161C2
	ND	50.0	49.2	ug/L	98	2.0	SW846 6010B	10/23-10/24/02	FAA161C3
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Sodium									
	180000	50000	236000	ug/L	113		SW846 6010B	10/23-10/24/02	FAA161C5
	180000	50000	230000	ug/L	100	2.7	SW846 6010B	10/23-10/24/02	FAA161C6
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Thallium									
	ND	2000	1980	ug/L	99		SW846 6010B	10/23-10/24/02	FAA161C8
	ND	2000	1960	ug/L	98	1.3	SW846 6010B	10/23-10/24/02	FAA161C9
			Dilution Factor: 1						
			Analysis Time..: 13:42						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium									
	ND	500	494	ug/L	99		SW846 6010B	10/23-10/24/02	FAA161DC
	ND	500	489	ug/L	98	1.1	SW846 6010B	10/23-10/24/02	FAA161DD
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Zinc									
	1.5	500	525	ug/L	105		SW846 6010B	10/23-10/24/02	FAA161DF
	1.5	500	517	ug/L	103	1.5	SW846 6010B	10/23-10/24/02	FAA161DG
			Dilution Factor: 1						
			Analysis Time..: 13:42						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3005

General Chemistry

Lot-Sample #...: H2J180210-001 **Work Order #...:** FAA06 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**631**	**20.0**	**mg/L**	**MCAWW 325.2**	**10/23/02**	**2296521**
		Dilution Factor: 20		MDL.....: 6.0		
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1		MDL.....: 0.0030		
Hardness, as CaCO3	**848**	**25.0**	**mg/L**	**MCAWW 130.2**	**10/30/02**	**2303459**
		Dilution Factor: 5		MDL.....: 10.5		
Nitrate	ND	0.10	mg/L	MCAWW 353.2	10/19/02	2291566
		Dilution Factor: 1		MDL.....: 0.016		
Sulfate	**79.5**	**25.0**	**mg/L**	**MCAWW 375.4**	**10/23/02**	**2296525**
		Dilution Factor: 5		MDL.....: 0.90		
Total Alkalinity	**314**	**5.0**	**mg/L**	**MCAWW 310.1**	**10/18/02**	**2293171**
		Dilution Factor: 1		MDL.....: 1.3		
Total Dissolved Solids	**1440**	**20.0**	**mg/L**	**MCAWW 160.1**	**10/20-10/21/02**	**2293094**
		Dilution Factor: 2		MDL.....: 8.6		
Total Organic Carbon	**2.7**	**1.0**	**mg/L**	**SW846 9060**	**10/25/02**	**2300130**
		Dilution Factor: 1		MDL.....: 0.68		
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	10/20/02	2293093
		Dilution Factor: 1		MDL.....: 2.8		
Turbidity	**35.8**	**0.50**	**NTU**	**MCAWW 180.1**	**10/18/02**	**2291556**
		Dilution Factor: 1		MDL.....: 0.50		

SHAW E & I INC

Client Sample ID: CD3003

General Chemistry

Lot-Sample #...: H2J180210-006 **Work Order #...:** FAA2D **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**21100**	**1000**	**mg/L**	**MCAWW 325.2**	**10/23/02**	**2296524**
		Dilution Factor: 1000		MDL.....: 300		
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	10/30/02	2303470
		Dilution Factor: 1		MDL.....: 0.0030		
Hardness, as CaCO3	**9390**	**250**	**mg/L**	**MCAWW 130.2**	**10/31/02**	**2304543**
		Dilution Factor: 50		MDL.....: 105		
Nitrate	ND	0.10	mg/L	MCAWW 353.2	10/19/02	2291566
		Dilution Factor: 1		MDL.....: 0.016		
Sulfate	ND	5.0	mg/L	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1		MDL.....: 0.18		
Total Alkalinity	**259**	**5.0**	**mg/L**	**MCAWW 310.1**	**10/18/02**	**2293170**
		Dilution Factor: 1		MDL.....: 1.3		
Total Dissolved Solids	**43800**	**100**	**mg/L**	**MCAWW 160.1**	**10/20-10/21/02**	**2293094**
		Dilution Factor: 10		MDL.....: 43.0		
Total Organic Carbon	ND	1.0	mg/L	SW846 9060	10/25/02	2300130
		Dilution Factor: 1		MDL.....: 0.68		
Total Suspended Solids	**19.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**10/20/02**	**2293093**
		Dilution Factor: 1		MDL.....: 2.8		
Turbidity	**19.2**	**0.50**	**NTU**	**MCAWW 180.1**	**10/18/02**	**2291556**
		Dilution Factor: 1		MDL.....: 0.50		

SHAW E & I INC

Client Sample ID: CD9001

General Chemistry

Lot-Sample #...: H2J180210-008 **Work Order #...:** FAA2P **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity	**7.2**		**No Units**	**SW846 9045A**	**10/19/02**	**2293167**
		Dilution Factor: 1		MDL.....:		
Flashpoint	**>180**		**deg F**	**SW846 1010**	**10/29/02**	**2302529**
		Dilution Factor: 1		MDL.....:		
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	10/21/02	2295208
		Dilution Factor: 1		MDL.....: 71.0		
Reactive Sulfide	ND	500	mg/kg	SW846 7.3.4	10/21/02	2295211
		Dilution Factor: 1		MDL.....: 170		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: H2J180210 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: FALX11AA		MB Lot-Sample #:	A2J230000-524	
	ND	1.0	mg/L	MCAWW 325.2	10/23/02	2296524
		Dilution Factor: 1				
Cyanide, Total		Work Order #: FA4KG1AA		MB Lot-Sample #:	H2J300000-470	
	ND	0.010	mg/L	SW846 9012A	10/30/02	2303470
		Dilution Factor: 1				
Cyanide, Total		Work Order #: FA4KQ1AA		MB Lot-Sample #:	H2J300000-472	
	ND	0.010	mg/L	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: FA4HD1AA		MB Lot-Sample #:	A2J300000-459	
	ND	5.0	mg/L	MCAWW 130.2	10/30/02	2303459
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: FA7EK1AA		MB Lot-Sample #:	A2J310000-543	
	ND	5.0	mg/L	MCAWW 130.2	10/31/02	2304543
		Dilution Factor: 1				
Nitrate		Work Order #: FADEW1AA		MB Lot-Sample #:	A2J180000-566	
	ND	0.10	mg/L	MCAWW 353.2	10/19/02	2291566
		Dilution Factor: 1				
Sulfate		Work Order #: FALWW1AA		MB Lot-Sample #:	A2J230000-525	
	ND	5.0	mg/L	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1				
Total Alkalinity		Work Order #: FAE3M1AA		MB Lot-Sample #:	A2J200000-170	
	ND	5.0	mg/L	MCAWW 310.1	10/18/02	2293170
		Dilution Factor: 1				
Total Alkalinity		Work Order #: FAE3N1AA		MB Lot-Sample #:	A2J200000-171	
	ND	5.0	mg/L	MCAWW 310.1	10/18/02	2293171
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: FAF3R1AA		MB Lot-Sample #:	A2J200000-094	
	ND	10.0	mg/L	MCAWW 160.1	10/20-10/21/02	2293094
		Dilution Factor: 1				

(Continued on next page)

METHOD BLANK REPORT

General Chemistry

Client Lot #...: H2J180210 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Organic Carbon		Work Order #: FAWAJ1AA		MB Lot-Sample #:	A2J270000-130	
	ND	1.0	mg/L	SW846 9060	10/25/02	2300130
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: FAE251AA		MB Lot-Sample #:	A2J200000-093	
	ND	4.0	mg/L	MCAWW 160.2	10/20/02	2293093
		Dilution Factor: 1				
Turbidity		Work Order #: FADEP1AA		MB Lot-Sample #:	A2J180000-556	
	ND	0.50	NTU	MCAWW 180.1	10/18/02	2291556
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: H2J180210 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		Work Order #: FAGV11AA		MB Lot-Sample #:	A2J220000-208	
	ND	200	mg/kg	SW846 7.3.3	10/21/02	2295208
		Dilution Factor: 1				
Reactive Sulfide		Work Order #: FAGXW1AA		MB Lot-Sample #:	A2J220000-211	
	ND	500	mg/kg	SW846 7.3.4	10/21/02	2295211
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: FALX11AC		LCS Lot-Sample#: A2J230000-524	
	97	(90 - 115)	MCAWW 325.2	10/23/02	2296524
		Dilution Factor: 1			
Corrosivity		Work Order #: FAE3W1AA		LCS Lot-Sample#: A2J200000-167	
	101	(97 - 103)	SW846 9045A	10/19/02	2293167
		Dilution Factor: 1			
Cyanide, Total		Work Order #: FA4KG1AC		LCS Lot-Sample#: H2J300000-470	
	96	(88 - 113)	SW846 9012A	10/30/02	2303470
		Dilution Factor: 1			
Cyanide, Total		Work Order #: FA4KQ1AC		LCS Lot-Sample#: H2J300000-472	
	107	(88 - 113)	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: FA4HD1AC		LCS Lot-Sample#: A2J300000-459	
	98	(84 - 116)	MCAWW 130.2	10/30/02	2303459
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: FA7EK1AC		LCS Lot-Sample#: A2J310000-543	
	98	(84 - 116)	MCAWW 130.2	10/31/02	2304543
		Dilution Factor: 1			
Nitrate		Work Order #: FADEW1AC		LCS Lot-Sample#: A2J180000-566	
	99	(77 - 116)	MCAWW 353.2	10/19/02	2291566
		Dilution Factor: 1			
Sulfate		Work Order #: FALWW1AC		LCS Lot-Sample#: A2J230000-525	
	104	(80 - 112)	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1			
Total Alkalinity		Work Order #: FAE3M1AC		LCS Lot-Sample#: A2J200000-170	
	96	(90 - 127)	MCAWW 310.1	10/18/02	2293170
		Dilution Factor: 1			
Total Alkalinity		Work Order #: FAE3N1AC		LCS Lot-Sample#: A2J200000-171	
	98	(90 - 127)	MCAWW 310.1	10/18/02	2293171
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids		Work Order #: FAF3R1AC		LCS Lot-Sample#: A2J200000-094	
	99	(69 - 120)	MCAWW 160.1	10/20-10/21/02	2293094
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: FAWAJ1AC		LCS Lot-Sample#: A2J270000-130	
	97	(88 - 115)	SW846 9060	10/25/02	2300130
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: FAE251AC		LCS Lot-Sample#: A2J200000-093	
	93	(66 - 119)	MCAWW 160.2	10/20/02	2293093
		Dilution Factor: 1			
Turbidity		Work Order #: FADEP1AC		LCS Lot-Sample#: A2J180000-556	
	93	(75 - 125)	MCAWW 180.1	10/18/02	2291556
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			Work Order #:	FALX11AC	LCS Lot-Sample#:	A2J230000-524	
	233	225	mg/L	97	MCAWW 325.2	10/23/02	2296524
			Dilution Factor: 1				
Corrosivity			Work Order #:	FAE3W1AA	LCS Lot-Sample#:	A2J200000-167	
	6.20	6.24	No Units	101	SW846 9045A	10/19/02	2293167
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	FA4KG1AC	LCS Lot-Sample#:	H2J300000-470	
	0.200	0.193	mg/L	96	SW846 9012A	10/30/02	2303470
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	FA4KQ1AC	LCS Lot-Sample#:	H2J300000-472	
	0.200	0.214	mg/L	107	SW846 9012A	10/30/02	2303472
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #:	FA4HD1AC	LCS Lot-Sample#:	A2J300000-459	
	289	283	mg/L	98	MCAWW 130.2	10/30/02	2303459
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #:	FA7EK1AC	LCS Lot-Sample#:	A2J310000-543	
	99.1	97.0	mg/L	98	MCAWW 130.2	10/31/02	2304543
			Dilution Factor: 1				
Nitrate			Work Order #:	FADEW1AC	LCS Lot-Sample#:	A2J180000-566	
	1.00	0.992	mg/L	99	MCAWW 353.2	10/19/02	2291566
			Dilution Factor: 1				
Sulfate			Work Order #:	FALWW1AC	LCS Lot-Sample#:	A2J230000-525	
	58.5	60.9	mg/L	104	MCAWW 375.4	10/23/02	2296525
			Dilution Factor: 1				
Total Alkalinity			Work Order #:	FAE3M1AC	LCS Lot-Sample#:	A2J200000-170	
	98.9	95.4	mg/L	96	MCAWW 310.1	10/18/02	2293170
			Dilution Factor: 1				
Total Alkalinity			Work Order #:	FAE3N1AC	LCS Lot-Sample#:	A2J200000-171	
	98.9	96.7	mg/L	98	MCAWW 310.1	10/18/02	2293171
			Dilution Factor: 1				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2J180210 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids			Work Order #: FAF3R1AC		LCS Lot-Sample#: A2J200000-094		
	314	312	mg/L	99	MCAWW 160.1	10/20-10/21/02	2293094
			Dilution Factor: 1				
Total Organic Carbon			Work Order #: FAWAJ1AC		LCS Lot-Sample#: A2J270000-130		
	59.0	57.0	mg/L	97	SW846 9060	10/25/02	2300130
			Dilution Factor: 1				
Total Suspended Solids			Work Order #: FAE251AC		LCS Lot-Sample#: A2J200000-093		
	44.1	41.0	mg/L	93	MCAWW 160.2	10/20/02	2293093
			Dilution Factor: 1				
Turbidity			Work Order #: FADEP1AC		LCS Lot-Sample#: A2J180000-556		
	1.00	0.930	NTU	93	MCAWW 180.1	10/18/02	2291556
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J180210 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		Work Order #: FAGV11AC	LCS Lot-Sample#: A2J220000-208		
	22	(10 - 200)	SW846 7.3.3	10/21/02	2295208
		Dilution Factor: 1			
Reactive Sulfide		Work Order #: FAGXW1AC	LCS Lot-Sample#: A2J220000-211		
	62	(10 - 200)	SW846 7.3.4	10/21/02	2295211
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2J180210 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide			Work Order #:	FAGV11AC	LCS Lot-Sample#:	A2J220000-208	
	1000	225	mg/kg	22	SW846 7.3.3	10/21/02	2295208
			Dilution Factor: 1				
Reactive Sulfide			Work Order #:	FAGXW1AC	LCS Lot-Sample#:	A2J220000-211	
	1000	618	mg/kg	62	SW846 7.3.4	10/21/02	2295211
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J180210 **Matrix.....:** SOLID
Date Sampled...: 10/15/02 **Date Received..:** 10/16/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
						% Moisture.....: 100	
Reactive Cyanide			WO#: E97MF1AR-MS/E97MF1AT-MSD			MS Lot-Sample #: A2J170193-001	
	16	(10 - 200)			SW846 7.3.3	10/21/02	2295208
	16	(10 - 200)	0.0	(0-100)	SW846 7.3.3	10/21/02	2295208
		Dilution Factor: 1					
						% Moisture.....: 100	
Reactive Sulfide			WO#: E97MF1AU-MS/E97MF1AV-MSD			MS Lot-Sample #: A2J170193-001	
	33	(10 - 200)			SW846 7.3.4	10/21/02	2295211
	30	(10 - 200)	9.2	(0-100)	SW846 7.3.4	10/21/02	2295211
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2J180210 **Matrix.....:** SOLID
Date Sampled...: 10/15/02 **Date Received..:** 10/16/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
								% Moisture.....: 100	
Reactive Cyanide			WO#: E97MF1AR-MS/E97MF1AT-MSD				MS Lot-Sample #: A2J170193-001		
	ND	1000	175	mg/kg	16		SW846 7.3.3	10/21/02	2295208
	ND	1000	175	mg/kg	16	0.0	SW846 7.3.3	10/21/02	2295208
			Dilution Factor: 1						
								% Moisture.....: 100	
Reactive Sulfide			WO#: E97MF1AU-MS/E97MF1AV-MSD				MS Lot-Sample #: A2J170193-001		
	ND	1000	338	mg/kg	33		SW846 7.3.4	10/21/02	2295211
	ND	1000	308	mg/kg	30	9.2	SW846 7.3.4	10/21/02	2295211
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		WO#:	FAA061EC-MS/FAA061ED-MSD			MS Lot-Sample #:	H2J180210-001
	NC,MSB	(43 - 167)			MCAWW 325.2	10/23/02	2296524
	NC,MSB	(43 - 167)		(0-23)	MCAWW 325.2	10/23/02	2296524
		Dilution Factor: 1					
Cyanide, Total		WO#:	FAA061DX-MS/FAA061D0-MSD			MS Lot-Sample #:	H2J180210-001
	87	(77 - 126)			SW846 9012A	10/30/02	2303472
	82	(77 - 126)	6.5	(0-20)	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1					
Cyanide, Total		WO#:	FAA2D1CH-MS/FAA2D1CJ-MSD			MS Lot-Sample #:	H2J180210-006
	96	(77 - 126)			SW846 9012A	10/30/02	2303470
	94	(77 - 126)	2.6	(0-20)	SW846 9012A	10/30/02	2303470
		Dilution Factor: 1					
Hardness, as CaCO3		WO#:	FAA061EU-MS/FAA061EV-MSD			MS Lot-Sample #:	H2J180210-001
	100	(10 - 176)			MCAWW 130.2	10/30/02	2303459
	100	(10 - 176)	0.10	(0-23)	MCAWW 130.2	10/30/02	2303459
		Dilution Factor: 1					
Hardness, as CaCO3		WO#:	FAA2D1CK-MS/FAA2D1CL-MSD			MS Lot-Sample #:	H2J180210-006
	55	(10 - 176)			MCAWW 130.2	10/31/02	2304543
	54	(10 - 176)	0.68	(0-23)	MCAWW 130.2	10/31/02	2304543
		Dilution Factor: 1					
Nitrate		WO#:	FAA061EF-MS/FAA061EG-MSD			MS Lot-Sample #:	H2J180210-001
	102	(10 - 163)			MCAWW 353.2	10/19/02	2291566
	103	(10 - 163)	0.39	(0-24)	MCAWW 353.2	10/19/02	2291566
		Dilution Factor: 1					
Sulfate		WO#:	FAA061EJ-MS/FAA061EK-MSD			MS Lot-Sample #:	H2J180210-001
	94	(22 - 151)			MCAWW 375.4	10/23/02	2296525
	84	(22 - 151)	2.4	(0-31)	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1					
Total Alkalinity		WO#:	FAA061D8-MS/FAA061D9-MSD			MS Lot-Sample #:	H2J180210-001
	22	(10 - 160)			MCAWW 310.1	10/18/02	2293171
	21	(10 - 160)	0.36	(0-24)	MCAWW 310.1	10/18/02	2293171
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity		WO#:	FACAQ1EJ-MS/FACAQ1EK-MSD			MS Lot-Sample #:	A2J180232-005
	61	(10 - 160)			MCAWW 310.1	10/18/02	2293170
	59	(10 - 160)	1.5	(0-24)	MCAWW 310.1	10/18/02	2293170
		Dilution Factor: 1					
Total Organic Carbon		WO#:	FAA061EM-MS/FAA061EN-MSD			MS Lot-Sample #:	H2J180210-001
	89	(72 - 136)			SW846 9060	10/25/02	2300130
	91	(72 - 136)	1.5	(0-20)	SW846 9060	10/25/02	2300130
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			WO#: FAA061EC-MS/FAA061ED-MSD				MS Lot-Sample #: H2J180210-001		
	631	25.0	636	mg/L			MCAWW 325.2	10/23/02	2296524
			Qualifiers: NC,MSB						
	631	25.0	632	mg/L			MCAWW 325.2	10/23/02	2296524
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Cyanide, Total			WO#: FAA061DX-MS/FAA061D0-MSD				MS Lot-Sample #: H2J180210-001		
	ND	0.200	0.174	mg/L	87		SW846 9012A	10/30/02	2303472
	ND	0.200	0.163	mg/L	82	6.5	SW846 9012A	10/30/02	2303472
			Dilution Factor: 1						
Cyanide, Total			WO#: FAA2D1CH-MS/FAA2D1CJ-MSD				MS Lot-Sample #: H2J180210-006		
	ND	0.200	0.193	mg/L	96		SW846 9012A	10/30/02	2303470
	ND	0.200	0.188	mg/L	94	2.6	SW846 9012A	10/30/02	2303470
			Dilution Factor: 1						
Hardness, as CaCO3			WO#: FAA061EU-MS/FAA061EV-MSD				MS Lot-Sample #: H2J180210-001		
	848	1000	1850	mg/L	100		MCAWW 130.2	10/30/02	2303459
	848	1000	1850	mg/L	100	0.10	MCAWW 130.2	10/30/02	2303459
			Dilution Factor: 1						
Hardness, as CaCO3			WO#: FAA2D1CK-MS/FAA2D1CL-MSD				MS Lot-Sample #: H2J180210-006		
	9390	10000	14800	mg/L	55		MCAWW 130.2	10/31/02	2304543
	9390	10000	14700	mg/L	54	0.68	MCAWW 130.2	10/31/02	2304543
			Dilution Factor: 1						
Nitrate			WO#: FAA061EF-MS/FAA061EG-MSD				MS Lot-Sample #: H2J180210-001		
	ND	0.250	0.256	mg/L	102		MCAWW 353.2	10/19/02	2291566
	ND	0.250	0.257	mg/L	103	0.39	MCAWW 353.2	10/19/02	2291566
			Dilution Factor: 1						
Sulfate			WO#: FAA061EJ-MS/FAA061EK-MSD				MS Lot-Sample #: H2J180210-001		
	79.5	25.0	103	mg/L	94		MCAWW 375.4	10/23/02	2296525
	79.5	25.0	101	mg/L	84	2.4	MCAWW 375.4	10/23/02	2296525
			Dilution Factor: 1						
Total Alkalinity			WO#: FAA061D8-MS/FAA061D9-MSD				MS Lot-Sample #: H2J180210-001		
	314	500	422	mg/L	22		MCAWW 310.1	10/18/02	2293171
	314	500	421	mg/L	21	0.36	MCAWW 310.1	10/18/02	2293171
			Dilution Factor: 1						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2J180210 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Alkalinity			WO#: FACAQ1EJ-MS/FACAQ1EK-MSD				MS Lot-Sample #: A2J180232-005		
	338	500	644	mg/L	61		MCAWW 310.1	10/18/02	2293170
	338	500	634	mg/L	59	1.5	MCAWW 310.1	10/18/02	2293170
			Dilution Factor: 1						
Total Organic Carbon			WO#: FAA061EM-MS/FAA061EN-MSD				MS Lot-Sample #: H2J180210-001		
	2.7	25.0	24.9	mg/L	89		SW846 9060	10/25/02	2300130
	2.7	25.0	25.3	mg/L	91	1.5	SW846 9060	10/25/02	2300130
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J180210 **Work Order #...:** E966J-SMP E966J-DUP **Matrix.....:** WATER

Date Sampled...: 10/16/02 **Date Received..:** 10/17/02

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #:	H2J170128-001	
	5.0	4.0	mg/L	22	(0-20)	MCAWW 160.2	10/20/02	2293093
			Dilution Factor: 1					
Total Dissolved Solids						SD Lot-Sample #:	H2J170128-001	
	342	346	mg/L	1.2	(0-20)	MCAWW 160.1	10/20-10/21/02	2293094
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J180210 **Work Order #...:** FAA06-SMP FAA06-DUP **Matrix.....:** WATER

Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #:	H2J180210-001	
	ND	ND	mg/L	200	(0-20)	MCAWW 160.2	10/20/02	2293093
			Dilution Factor: 1					
Turbidity						SD Lot-Sample #:	H2J180210-001	
	35.8	36.4	NTU	1.7	(0-20)	MCAWW 180.1	10/18/02	2291556
			Dilution Factor: 1					
Total Dissolved Solids						SD Lot-Sample #:	H2J180210-001	
	1440	1490	mg/L	3.7	(0-20)	MCAWW 160.1	10/20-10/21/02	2293094
			Dilution Factor: 2					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J180210 **Work Order #...:** FAA2P-SMP FAA2P-DUP **Matrix.....:** WATER

Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint						SD Lot-Sample #:	H2J180210-008	
	>180	>180	deg F	0.0	(0-20)	SW846 1010	10/29/02	2302529
			Dilution Factor: 1					
Corrosivity						SD Lot-Sample #:	H2J180210-008	
	7.2	7.1	No Units	0.14	(0-20)	SW846 9045A	10/19/02	2293167
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J180210 **Work Order #...:** FAA45-SMP FAA45-DUP **Matrix.....:** WATER

Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity						SD Lot-Sample #:	A2J180219-002	
	14.6	16.4	NTU	12	(0-20)	MCAWW 180.1	10/18/02	2291556

Dilution Factor: 1

Sample Receipt Documentation

1425180210

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB10/702STL K

PAGE 1 OF ~~2~~ 3

Project Name/No: PBOW
Sample Team Member: Dave Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 833886.03010000
Required Report Date: Normal

Sample Shipment Date: 10/17/02
Laboratory Destination: STL-Knoxville
Laboratory Contact: Jamie McKinney
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 836531447531

Bill To: Accounting
Shaw E & I
312 Directors Drive
Knoxville, TN 37923

Report To: Maureen McMyler
Shaw E & I
312 Directors Drive
Knoxville, TN 37923

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CD3005	WATER	10/17/02 1035	1 - Amber	1 L	Cool	Explosives by 8830		
			1 - HDPE	~~500~~ mL 250	HNO3	Total Metals by 6010B/7470A PH<2		
			1 - HDPE	~~500~~ mL 250	HNO3	Dissolved Metals by 6010B/7470A ↓		
			2 - Amber	1 L	Cool	SVOCs by 8270C		
			3 - Glass	40 mL	HCL	VOCs by 8260B		
			1 - HDPE	~~500~~ mL 1000	NaOH	Cyanide by 9010A PH>12	Cooler temp 3°C	
CD3005-MS	WATER	10/17/02 1035	1 - Amber	1 L	Cool	Explosives by 8830	Custody Seals intact	
			1 - HDPE	~~500~~ mL 250	HNO3	Total Metals by 6010B/7470A PH<2	Fed Ex #	
			1 - HDPE	~~500~~ mL 250	HNO3	Dissolved Metals by 6010B/7470A ↓	836531497531	
			2 - Amber	1 L	Cool	SVOCs by 8270C	JABS	10/18/02
			3 - Glass	40 mL	HCL	VOCs by 8260B		
			1 - HDPE	~~500~~ mL 1000	NaOH	Cyanide by 9010A PH>12		
CD3005-MSD	WATER	10/17/02 1035	1 - Amber	1 L	Cool	Explosives by 8830		
			1 - HDPE	~~500~~ mL 250	HNO3	Total Metals by 6010B/7470A PH<2		
			1 - HDPE	~~500~~ mL 250	HNO3	Dissolved Metals by 6010B/7470A ↓		
			2 - Amber	1 L	Cool	SVOCs by 8270C		
			3 - Glass	40 mL	HCL	VOCs by 8260B		
			1 - HDPE	~~500~~ mL 1000	NaOH	Cyanide by 9010A PH>12		
CD5004	WATER	10/17/02	2 - Glass	40 mL	Cool	VOCs by 8260B		

Special Instructions:

Possible Hazard Identification:
Non-haz: X Flammable: ___ Poison B: ___ Unknown: ___

Sample Disposal:
Return to Client: ___ Disposal by Lab: X Archive: ___

Turnaround Time:
Normal: X Rush: ___

Level of QC Required:
Definitive: X Project Specific: ___

1. Relinquished by: David Kessler IT Corporation	Date: 10/17/02 Time: 1800	1. Received by: Steve B. Sharpe	Date: 10/18/02 Time: 08:45
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

110

H23160210

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB10172STLK 3

PAGE 2 OF 2

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CD3006	WATER	10/17/02 1035	1 - Amber	1 L	Cool	Explosives by 8830		
			1 - HDPE	~~500~~ mL 250	HNO3	Total Metals by 6010B/7470A PH<2 PH>2 CBS 10/18/02		
			1 - HDPE	~~500~~ mL 250	HNO3	Dissolved Metals by 6010B/7470A PH<2		
			2 - Amber	1 L	Cool	SVOCs by 8270C		
			3 - Glass	40 mL	HCL	VOCs by 8260B		
			~~1 - HDPE~~	~~500 mL~~	~~NaOH~~	~~Cyanide by 9010A~~ DKK		
CD3003	WATER	10/17/02 1510	1 - Amber	1 L	Cool	Explosives by 8830		
			1 - HDPE	~~500~~ mL 250	HNO3	Total Metals by 6010B/7470A CBS 10/18/02 PH>2	PH<2	
			1 - HDPE	~~500~~ mL 250	HNO3	Dissolved Metals by 6010B/7470A ↓	PH<2	
			2 - Amber	1 L	Cool	SVOCs by 8270C		
			3 - Glass	40 mL	HCL	VOCs by 8260B		
			1 - HDPE	~~500~~ mL 1000	NaOH	Cyanide by 9010A PH>12		
DKK 10/17/02	WATER		1 - Amber	1 L	Cool	Explosives by 8830		
			1 - HDPE	500 mL	HNO3	Total Metals by 6010B/7470A CBS PH<2		
			1 - HDPE	500 mL	HNO3	Dissolved Metals by 6010B/7470A 10/17/02 PH<2		
			2 - Amber	1 L	Cool	SVOCs by 8270C		
			3 - Glass	40 mL	HCL	VOCs by 8260B		
			1 - HDPE	500 mL	NaOH	Cyanide by 9010A		
	WATER		1 - Amber	1 L	Cool	Explosives by 8830		
			1 - HDPE	500 mL	HNO3	Total Metals by 6010B/7470A		
			1 - HDPE	500 mL	HNO3	Dissolved Metals by 6010B/7470A		
			2 - Amber	1 L	Cool	SVOCs by 8270C		
			3 - Glass	~~40 mL~~	HCL	VOCs by 8260B		
			1 - HDPE	500 mL	NaOH	Cyanide by 9010A		
	WATER		1 - Amber	1 L	Cool	Explosives by 8830		
			1 - HDPE	500 mL	HNO3	Total Metals by 6010B/7470A		
			1 - HDPE	500 mL	HNO3	Dissolved Metals by 6010B/7470A		
			2 - Amber	1 L	Cool	SVOCs by 8270C		
			3 - Glass	40 mL	HCL	VOCs by 8260B		
			1 - HDPE	500 mL	NaOH	Cyanide by 9010A		

H2J180210

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB10 02STLK

Bill To: Accounting
IT Corporation

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CD9001	WATER	10/17/02 1615	~~1 - Amber~~	~~1 L~~	~~Cool~~	~~Explosives by 8830~~		
			~~1 - HDPE~~	~~500 mL~~	~~HNO3~~	~~Total Metals by 6010B/7470A~~		
			~~2 - Amber~~	~~1 L~~	~~Cool~~	~~SVOCs by 8270C~~		
			~~3 - Glass~~	~~40 mL~~	~~HCL~~	~~VOCs by 8260B~~		
			1 - Amber	1 L	Cool	Corrosivity by 1110, Ignitability/Flashpoint by 1010; Reactive sulfide and cyanide by 7.3.3.2 and 7.3.4.2		
DKK	WATER		1 - Amber	1 L	Cool	Explosives by 8830		
			1 - HDPE	500 mL	HNO3	Total Metals by 6010B/7470A PH<2		
			2 - Amber	1 L	Cool	SVOCs by 8270C		
			3 - Glass	40 mL	HCL	VOCs by 8260B		
			1 - Amber	1 L	Cool	Corrosivity by 1110, Ignitability/Flashpoint by 1010; Reactive sulfide and cyanide by 7.3.3.2 and 7.3.4.2		

112

STL KNOXVILLE
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 2

CLIENT: Shaw E & I PROJECT: _____ Lot No.: H2J180210

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
(NOTE: North Carolina, 1668, 1613B have 0-4°C requirement)			
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓		
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: Meg B. Sharp DATE: 10/18/02

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 48670			
b. Informed Login associates of special instructions ?			X
2. If custody seals were missing/not intact, was client notified?			X

PROJECT MANAGER : JM DATE: 10/24/02

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary; process as is.
Project Manager: _____ Date: _____

SEVERN TRENT STL

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: Shaw PROJECT: PBOW Lot No.: H2J180210

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA	
1. Client Documents (Request for Analysis/Chain of Custody):				
a. Was QuanTIMS lot number documented on all paperwork?	X			
b. Was RFA/COC signed upon receipt, including date/time?	X			
c. Is preservative check (pH) noted on RFA/COC?	X	X		STL NC
d. Is cooler temperature & custody seal condition noted on COC?		X		
2. Log-in (Lot Folder) Review:	YES	NO	NA	
a. Do client IDs on Client Summaries match RFA/COC?	X			
b. Were tests/parameters assigned correctly?	X	X		
c. Were correct analytical and report due dates assigned?	X			
d. Has the correct fax due date been assigned to the lot?			X	
e. Is the correct report format noted in the lot summary?	X			
f. Is percent moisture logged for samples requiring this analysis?			X	
g. Are client assigned QC samples properly defined?		X		
3. Contract/Subcontract Review:	YES	NO	NA	
a. Is there a contract number or PO for this work?	X			
b If the purchase order number is given, is it noted in Lot header?	X			
c. If samples were subcontracted, was copy of COC in folder?	X			
4. SDG Review:	YES	NO	NA	
a. If SDG is required, is SDG form in Lot folder?			X	
b Is SDG number noted in Lot header & sample comments?			X	
c. If SDG is complete, has the due date been revised & marked closed?			X	
5. Checklist Review:	YES	NO	NA	
a. Has Sample Receipt Checklist been filled-out?	X			
b. Was there a CUR?			X	
c. Were all issues resolved?			X	

LOT FOLDER REVIEWED BY: pm DATE: 10/24/02

A016R8.doc, 4/13/00

Delete MS/MSD for TDS, TSS, turbidity and log for duplicate (if lab hasn't created already) pm 10/24/02

BKS 10-25-02

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,DAM ER

NEED ANALYTICAL REPORT BY
10/31/02
ROUTINE

ATTN:

LAB PURCHASE ORDER: SR043046

CLIENT CODE: 506155 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0000

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H2J180210-006	10/17/02	Chloride (325.2, Automated)
FAA2D-1-CA		(CL) METHOD: 325.2
H2J180210-006	10/17/02	Nitrate-Nitrite (353.2, Automated)
FAA2D-1-CC		(NO3) METHOD: 353.2
H2J180210-006	10/17/02	Sulfate (Turbidimetric - 375.4)
FAA2D-1-CD		(SO4-TURB) METHOD: 375.4
H2J180210-006	10/17/02	Carbon, Total Organic "TOC" (9060)
FAA2D-1-CE		(TOC) METHOD: 9060
H2J180210-006	10/17/02	Solids, Filterable "TDS" (160.1)
FAA2D-1-CF		(TDS) METHOD: 160.1
~~H2J180210-006~~	~~10/17/02~~	~~Hardness, Total (130.2, titrimetric)~~ DKS 10-16-02
FAA2D-1-CG		(HARDNESS) METHOD: 130.2
H2J180210-008	10/17/02	Flash Point (1010, Closed Cup)
FAA2P-1-AA		(FLASH_L) METHOD: 1010
H2J180210-008	10/17/02	Cyanide, Reactive (SW7.3.3)
FAA2P-1-AC		(CNREACT) METHOD: 7.3.3
H2J180210-008	10/17/02	Sulfide, Reactive (SW7.3.4)
FAA2P-1-AD		(SULREACT) METHOD: 7.3.4
H2J180210-008	10/17/02	Corrosivity (9045)
FAA2P-1-AE		(CORROS) METHOD: 9045A

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: FEDX 6104 4278 0170 DATE: 10/18/02

SEND REPORT TO: JAMIE MCKINNEY

SAMPLE RECEIVED BY: _____ DATE: _____

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

STL Knoxville

INT: _____ 10/18/02 13:26:03

STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,DAM ER

RELINQUISHED BY: D. B. Sharpe DATE/TIME: 10/18/02 15:49

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: _____ DATE/TIME: _____

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

H20180210

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB10/02STLN

PAGE 1 OF 2

Project Name/No: FBOW
Sample Team Member: Dave Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 833886.03010000
Required Report Date: 21 days

Sample Shipment Date: 10/17/02
Laboratory Destination: STL-North Canton
Laboratory Contact: Ken Kuzior
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 836531447406

Bill To: Accounting, Shaw E & I, 312 Directors Drive, Knoxville, TN 37923
Report To: Maureen McMyler, Shaw E & I, 312 Directors Drive, Knoxville, TN 37923

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CD3005	WATER	10/17/02 1035	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL 250	HNO3	Hardness by 130.2		
CD3005-MS	WATER	10/17/02 1035	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL 250	HNO3	Hardness by 130.2		
CD3005-MSD	WATER	10/17/02 1035	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL	HNO3	Hardness by 130.2		
						DKR		

Special Instructions:

Possible Hazard Identification: Non-haz: ___ Flammable: ___ Poison B: ___ Unknown: ___

Sample Disposal: Return to Client: ___ Disposal by Lab: X Archive: ___

Turnaround Time: Normal: X Rush: ___

Level of QC Required: Definitive: X Project Specific: ___

1. Relinquished by: David Kessler IT Corporation	Date: 10/17/02 Time: 1500	1. Received by:	Date: Time:
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

H2J180210

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: FR10[illegible]SILN

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CD3003	WATER	10/17/02 1510	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL 2SU	HNO3	Hardness by 130.2		
CD3006	WATER	10/17/02 1035	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL	HNO3	Hardness by 130.2		
DKV	WATER		2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL	HNO3	Hardness by 130.2		
	WATER		2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL	HNO3	Hardness by 130.2		
	WATER		2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL	HNO3	Hardness by 130.2		

Emailed

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,SAN DE

NEED ANALYTICAL REPORT BY
10/31/02

✓-pd 10-21-02

ATTN:

C179
TB
10/19/02

LAB PURCHASE ORDER: SR043046

CLIENT CODE: 506155 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0008

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H2J180210-001 FAA06-1-D1	10/17/02	Solids, Total Suspended "TSS" (160.2) (TSS) METHOD: 160.2
H2J180210-001 FAA06-1-D4	10/17/02	Turbidity (180.1) (TURBID) METHOD: 180.1
H2J180210-001 FAA06-1-D7	10/17/02	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1
H2J180210-001 FAA06-1-EA	10/17/02	Chloride (325.2, Automated) (CL) METHOD: 325.2
H2J180210-001 FAA06-1-EE	10/17/02	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2
H2J180210-001 FAA06-1-EH	10/17/02	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H2J180210-001 FAA06-1-EL	10/17/02	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060
H2J180210-001 FAA06-1-EP	10/17/02	Solids, Filterable "TDS" (160.1) (TDS) METHOD: 160.1
H2J180210-001 FAA06-1-ET	10/17/02	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2
H2J180210-001-D FAA06-1-D3	10/17/02	Solids, Total Suspended "TSS" (160.2) (TSS) METHOD: 160.2

10/18
2x40
1x250
2 HL
3x250
6x40

Sample 008
rec 10/19/02

****
* CONTINUED *
****

see PO attached.
TB 10/19/02

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,SAN DE

NEED ANALYTICAL REPORT BY
10/31/02
ROUTINE

ATTN:

LAB PURCHASE ORDER: SR043046

CLIENT CODE: 506155 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0008

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H2J180210-001-D FAA06-1-D6	10/17/02	Turbidity (180.1) (TURBID) METHOD: 180.1
H2J180210-001-D FAA06-1-D9	10/17/02	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1
H2J180210-001-D FAA06-1-ED	10/17/02	Chloride (325.2, Automated) (CL) METHOD: 325.2
H2J180210-001-D FAA06-1-EG	10/17/02	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2
H2J180210-001-D FAA06-1-EK	10/17/02	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H2J180210-001-D FAA06-1-EN	10/17/02	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060
H2J180210-001-D FAA06-1-ER	10/17/02	Solids, Filterable "TDS" (160.1) (TDS) METHOD: 160.1
H2J180210-001-D FAA06-1-EV	10/17/02	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2
H2J180210-001-S FAA06-1-D2	10/17/02	Solids, Total Suspended "TSS" (160.2) (TSS) METHOD: 160.2
H2J180210-001-S FAA06-1-D5	10/17/02	Turbidity (180.1) (TURBID) METHOD: 180.1

****
* CONTINUED *
****

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,SAN DE

NEED ANALYTICAL REPORT BY
10/31/02
ROUTINE

ATTN:

LAB PURCHASE ORDER: SR043046

CLIENT CODE: 506155 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0008

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H2J180210-001-S FAA06-1-D8	10/17/02	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1
H2J180210-001-S FAA06-1-EC	10/17/02	Chloride (325.2, Automated) (CL) METHOD: 325.2
H2J180210-001-S FAA06-1-EF	10/17/02	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2
H2J180210-001-S FAA06-1-EJ	10/17/02	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H2J180210-001-S FAA06-1-EM	10/17/02	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060
H2J180210-001-S FAA06-1-EQ	10/17/02	Solids, Filterable "TDS" (160.1) (TDS) METHOD: 160.1
H2J180210-001-S FAA06-1-EU	10/17/02	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2
H2J180210-006 FAA2D-1-A0	10/17/02	Solids, Total Suspended "TSS" (160.2) (TSS) METHOD: 160.2
H2J180210-006 FAA2D-1-A1	10/17/02	Turbidity (180.1) (TURBID) METHOD: 180.1
H2J180210-006 FAA2D-1-A2	10/17/02	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1

****
* CONTINUED *
****

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,SAN DE

NEED ANALYTICAL REPORT BY
10/31/02
ROUTINE

ATTN:

LAB PURCHASE ORDER: SR043046

CLIENT CODE: 506155 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0008

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H2J180210-006 FAA2D-1-CA	10/17/02	Chloride (325.2, Automated) (CL) METHOD: 325.2
H2J180210-006 FAA2D-1-CC	10/17/02	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2
H2J180210-006 FAA2D-1-CD	10/17/02	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H2J180210-006 FAA2D-1-CE	10/17/02	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060
H2J180210-006 FAA2D-1-CF	10/17/02	Solids, Filterable "TDS" (160.1) (TDS) METHOD: 160.1
H2J180210-006 FAA2D-1-CG	10/17/02	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2
H2J180210-008 FAA2P-1-AA	10/17/02	Flash Point (1010, Closed Cup) (FLASH_L) METHOD: 1010
H2J180210-008 FAA2P-1-AC	10/17/02	Cyanide, Reactive (SW7.3.3) (CNREACT) METHOD: 7.3.3
H2J180210-008 FAA2P-1-AD	10/17/02	Sulfide, Reactive (SW7.3.4) (SULREACT) METHOD: 7.3.4
H2J180210-008 FAA2P-1-AE	10/17/02	Corrosivity (9045) (CORROS) METHOD: 9045A

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: FEDX DATE: 10/18/02

SEND REPORT TO: JAMIE MCKINNEY

SAMPLE RECEIVED BY: _____ DATE: _____

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

STL Knoxville

INT: _____ 10/18/02 14:11:32

STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,SAN DE

RELINQUISHED BY: _____ DATE/TIME: _____

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: See attached COC DATE/TIME: JPL 10-18-02

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB10/17/02STLN

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CD3003	WATER	10/17/02 1510	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	~~500~~ mL 250	HNO3	Hardness by 130.2		
CD3006	WATER	10/17/02 1035	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL	HNO3	Hardness by 130.2		
DKK	WATER		2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL	HNO3	Hardness by 130.2		
	WATER		2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL	HNO3	Hardness by 130.2		
	WATER		2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL	HNO3	Hardness by 130.2		

recd by Jerry Stiller 10-18-02 9:15

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB10i7102STLN

Project Name/No: PBOW
Sample Team Member: Dave Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 833886.0301000
Required Report Date: 21 days

Sample Shipment Date: 10/17/02
Laboratory Destination: STL-North Canton
Laboratory Contact: Ken Kuzior
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 836531447 40

Bill To: Accounting
Shaw E & I
312 Directors Drive
Knoxville, TN 37923

Report To: Maureen McMyler
Shaw E & I
312 Directors Drive
Knoxville, TN 37923

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CD3005	WATER	10/17/02 1035	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	~~500 mL~~ 250	HNO3	Hardness by 130.2		
CD3005-MS	WATER	10/17/02 1035	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	~~500 mL~~ 250	HNO3	Hardness by 130.2		
CD3005-MSD	WATER	10/17/02 1035	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL	HNO3	Hardness by 130.2		
						DICK		

Special Instructions:

Possible Hazard Identification:

Non-haz: ____ Flammable: ____ Poison B: ____ Unknown: ____

Sample Disposal:

Return to Client: ____ Disposal by Lab: X Archive: ____

Turnaround Time:

Normal: X Rush: ____

Level of QC Required:

Definitive: X Project Specific: ____

1. Relinquished by: David Kessler IT Corporation	Date: 10/17/02 Time: 1800	1. Received by:	Date: 10/18/02 Time: 9:15 AM
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

Enrolled

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,DAM ER

NEED ANALYTICAL REPORT BY
10/31/02
ROUTINE

C179
TB
10/19/02

ATTN:

LAB PURCHASE ORDER: SR043046

CLIENT CODE: 506155 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0000

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H2J180210-006	10/17/02	Chloride (325.2, Automated)
FAA2D-1-CA		(CL) METHOD: 325.2
H2J180210-006	10/17/02	Nitrate-Nitrite (353.2, Automated)
FAA2D-1-CC		(NO3) METHOD: 353.2
H2J180210-006	10/17/02	Sulfate (Turbidimetric - 375.4)
FAA2D-1-CD		(SO4-TURB) METHOD: 375.4
H2J180210-006	10/17/02	Carbon, Total Organic "TOC" (9060)
FAA2D-1-CE		(TOC) METHOD: 9060
H2J180210-006	10/17/02	Solids, Filterable "TDS" (160.1)
FAA2D-1-CF		(TDS) METHOD: 160.1
~~H2J180210-006~~	~~10/17/02~~	~~Hardness, Total (130.2, titrimetric)~~
FAA2D-1-CG		(HARDNESS) METHOD: 130.2
H2J180210-008	10/17/02	Flash Point (1010, Closed Cup)
FAA2P-1-AA		(FLASH_L) METHOD: 1010
H2J180210-008	10/17/02	Cyanide, Reactive (SW7.3.3)
FAA2P-1-AC		(CNREACT) METHOD: 7.3.3
H2J180210-008	10/17/02	Sulfide, Reactive (SW7.3.4)
FAA2P-1-AD		(SULREACT) METHOD: 7.3.4
H2J180210-008	10/17/02	Corrosivity (9045)
FAA2P-1-AE		(CORROS) METHOD: 9045A

OKs 10.16.02

12

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: FEDX DATE: 10/18/02

SEND REPORT TO: JAMIE MCKINNEY

SAMPLE RECEIVED BY: _____ DATE: _____

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

STL Knoxville

INT: _____ 10/18/02 13:26:03

STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,DAM ER

RE .IQU SHED BY: Dig. B. Sharpe DATE/TIME: 10/18/02 15:49

RE .IQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: Terry Burns DATE/TIME: 10/19/02 955/Am

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

STL Cooler Receipt Form/Narrative **Lot Number:** H2J180210
North Canton Facility

Client: SHAW Project: Plum Brook Quote#:
Cooler Received on: 10/18/02 Opened on: 10/18/02 by: (Signature)

Fedx ☐ Client Drop Off ☐ UPS ☐ Airborne ☐ Other:
Cooler ☒ Safe ☐ Foam Box ☐ Client Cooler ☐ Other:
STL Shipper No#: STL Knoxville Cooler

1. Were custody seals on the outside of the cooler? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 1 Location SIDE
   Were the custody seals signed and dated? Yes ☒ No ☐ NA ☐
2. Shipper's packing slip attached to this form? Yes ☒ No ☐
3. Were custody papers included inside the cooler and relinquished? Yes ☒ No ☐
4. Did you sign the custody papers in the appropriate place? Yes ☒ No ☐
5. Packing material used:
Peanuts ☐ Bubble Wrap ☒ Vermiculite ☐ Foam ☐ None ☐ Other :
6. Cooler temperature upon receipt 2.8 °C (see back of form for multiple coolers/temp)
METHOD: Temp Vial ☒ Coolant & Sample ☐ Against Bottles ☐ IR ☐ ICE/H_2O Slurry ☐
COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Did all bottle labels and tags agree with the custody papers? Yes ☐ No ☒
9. Were samples at the correct pH? (record on back) Yes ☒ No ☐ NA ☐
10. Were correct bottles used for the tests indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Was a sufficient amount of sample sent in each bottle? Yes ☒ No ☐
Contacted PM K. Kuzio Date: 10/18/02 by: via Voice Mail ☐ Verbal ☒ Other ☐
Concerning: Missing Sample(s) noted Below

√	MACRO	MACRO
1. CHAIN OF CUSTODY		
√	SR1A	The chain of custody and sample bottles did not agree. The following discrepancies occurred COC CD3006 - 40mL, 1L, 500 mL = missing CD3005MS - missing 1L plastic
2. SAMPLE CONDITION		
	SR2A	Sample(s) were received or requested after the recommended holding time had expired.
	SR2B	Sample(s) were received with insufficient volume.
	SR2C	Sample(s) were received in a broken container.
3. SAMPLE PRESERVATION		
	SR3A	Sample(s) were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot # 120701-HNO3; Sulfuric Acid Lot # 010802-H2SO4; Sodium Hydroxide Lot # 011102-NaOH; Hydrochloric Acid Lot # 020501-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH3COO2ZN/NaOH*
	SR3B	Sample(s) were received with bubble > 6 mm in diameter (cc: PM)
4. Other (see below or back)		

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
CD3005 MSD	<2	10/18/02	[illegible]
3005MS	<2	10/18/02	[illegible]
3005	<2	10/18/02	[illegible]
3003	<2	10/18/02	[illegible]

Cooler	Temp	Method	Comments

Discrepancies Cont.

Macro Name:

Macro Name:

Macro Name:

Other Anomalies:

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: L2J18021

Client: STL Knox Project: _____ Quote#: _____
Cooler Received on: 10/19/02 Opened on: 10/19/02 by: Terry Burns (Signature)

Fedx [X] Client Drop Off [ ] UPS [ ] Airborne [ ] Other: _____
Cooler [X] Safe [ ] Foam Box [ ] Client Cooler [ ] Other: _____
STL Shipper No#: K598

1. Were custody seals on the outside of the cooler? Yes [X] No [ ] Intact? Yes [X] No [ ] NA [ ]
   If YES, Quantity 2 Location over end
   Were the custody seals signed and dated? Yes [X] No [ ] NA [ ]
2. Shipper's packing slip attached to this form? Yes [X] No [ ]
3. Were custody papers included inside the cooler and relinquished? Yes [X] No [ ]
4. Did you sign the custody papers in the appropriate place? Yes [X] No [ ]
5. Packing material used:
   Peanuts [ ] Bubble Wrap [X] Vermiculite [ ] Foam [ ] None [ ] Other: _____
6. Cooler temperature upon receipt 1.4 °C (see back of form for multiple coolers/temp)
   METHOD: Temp Vial [ ] Coolant & Sample [ ] Against Bottles [ ] IR [X] ICE/H_2O Slurry [ ]
   COOLANT: Wet Ice [X] Blue Ice [ ] Dry Ice [ ] Water [ ] None [ ]
7. Did all bottles arrive in good condition (Unbroken)? Yes [X] No [ ]
8. Did all bottle labels and tags agree with the custody papers? Yes [X] No [ ]
9. Were samples at the correct pH? (record on back) Yes [ ] No [ ] NA [X]
10. Were correct bottles used for the tests indicated? Yes [X] No [ ]
11. Were air bubbles >6 mm in any VOA vials? Yes [ ] No [ ] NA [X]
12. Was a sufficient amount of sample sent in each bottle? Yes [X] No [ ]

Contacted PM _____ Date: _____ by: _____ via Voice Mail [ ] Verbal [ ] Other [ ]
Concerning: _____

√	MACRO	MACRO
1. CHAIN OF CUSTODY		
	SR1A	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____
2. SAMPLE CONDITION		
	SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
	SR2B	Sample(s) were received with insufficient volume.
	SR2C	Sample(s) were received in a broken container.
3. SAMPLE PRESERVATION		
	SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot # 120701-HNO3; Sulfuric Acid Lot # 010802-H2SO4; Sodium Hydroxide Lot # 011102-NaOH; Hydrochloric Acid Lot # 020501-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH3COO2ZN/NaOH*
	SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)
4. Other (see below or back)		

H2J190106 Sample Data Summary **1**

Sample Receipt Documentation **95**

Volatiles **106**
Raw Sample Data 107
Standards Data 155
Raw QC Data 225
Miscellaneous Data 259

Semi-Volatiles **265**
Raw Sample Data 266
Standards Data 302
Raw QC Data 401
Miscellaneous Data 423

Explosives **430**
Raw Sample Data 431
Standards Data 440
Raw QC Data 492
Miscellaneous Data 498

Metals **502**
Sample Results 503
QC Summary 512
Quality Control Results SuperTrace ICP 543
Quality Control Results Mercury 577
Raw Data SuperTrace ICP 593
Raw Data Mercury 860
Miscellaneous Data 880

Wet Chemistry **903**
Sample Summary 904
QC Summary 907
Raw Data 916
Raw Data - STL North Canton 932
Miscellaneous Data 996

Sample Receipt Documentation **1002**

Total Number of Pages **1012**

SEVERN TRENT SERVICES

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

Tel: 865-291-3000
Fax: 865-584-4315
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 825635

PBOW

Lot #: H2J190106

Maureen McMyler

Shaw E & I Inc
312 Directors Dr
Knoxville, TN 37923

SEVERN TRENT LABORATORIES, INC.

Jamie A. McKinney
Project Manager

November 14, 2002

ANALYTICAL METHODS SUMMARY

H2J190106

PARAMETER	ANALYTICAL METHOD
Alkalinity	MCAWW 310.1
Chloride (Colorimetric, Automated Ferricyanide)	MCAWW 325.2
Cyanide, Total	SW846 9012A
Filterable Residue (TDS)	MCAWW 160.1
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Nitrate	MCAWW 353.2
Nitroaromatics and Nitramines by HPLC	SW846 8330
Non-Filterable Residue (TSS)	MCAWW 160.2
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Sulfate	MCAWW 375.4
Total Hardness (Titrimetric, EDTA)	MCAWW 130.2
Total Organic Carbon	SW846 9060
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Turbidity (Nephelometric)	MCAWW 180.1
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H2J190106

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
FADHX	001	CD3009	10/18/02	08:20
FADH1	002	CD3001	10/18/02	10:50
FADH2	003	CD5006	10/18/02	
FADH3	004	CD3009	10/18/02	08:20
FADH4	005	CD3001	10/18/02	10:50

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H2J190106

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

One of the vials for sample CD3001 was received with headspace.

Subcontract

The following analyses were performed by STL North Canton Laboratory, 4101 Shuffel Drive, NW, North Canton, OH 44720: Hardness (MCAAW 130.2), Total Dissolved Solids (MCAAW 160.1), Total Suspended Solids (MCAAW 160.2), Turbidity (MCAAW 180.1), Alkalinity (MCAAW 310.1), Chloride (MCAAW 325.2), Nitrate (MCAAW 353.2), Sulfate (MCAAW 375.4), and Total Organic Carbon (SW846 9060).

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Volatiles

Sample CD3009 was reported with elevated reporting limits for all analytes due to the presence of non-target compounds. A dilution was necessary prior to analysis, and the reporting limits were adjusted accordingly.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ, California DHS ELAP Cert. #2423, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, 5/14/01-6/21/02), Hawaii DOH, Illinois EPA Cert. #000510, Indiana DOH Cert. #C-TN-02, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-576, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center, US EPA Perchlorate Approval and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE
H2J190106

Explosives

Sample CD3009 was reported with elevated reporting limits for RDX and 2,4,6-trinitrotoluene due to sample matrix interferences.

The matrix spike/matrix spike duplicate recoveries and/or RPDs for batch QC were acceptable for all analytes except tetryl. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects.

Metals

The serial dilution of the batch samples were outside control limits for potassium due to physical or chemical matrix interferences.

The laboratory control sample recovery for batch 2295324 was slightly outside the recovery limits. Since the recovery was high, and all the associated samples were non-detect, the data should not be affected.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ, California DHS ELAP Cert. #2423, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, 5/14/01-6/21/02), Hawaii DOH, Illinois EPA Cert. #000510, Indiana DOH Cert. #C-TN-02, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-576, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center, US EPA Perchlorate Approval and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3009

GC/MS Volatiles

Lot-Sample #...: H2J190106-001 Work Order #...: FADHX1AC Matrix.....: WATER
Date Sampled...: 10/18/02 Date Received..: 10/19/02
Prep Date.....: 10/24/02 Analysis Date..: 10/24/02
Prep Batch #...: 2297276
Dilution Factor: 100 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	200	ug/L	20
Bromomethane	ND	200	ug/L	28
Vinyl chloride	ND	100	ug/L	18
Chloroethane	ND	200	ug/L	22
Methylene chloride	ND	200	ug/L	13
Acetone	ND	1000	ug/L	130
Carbon disulfide	**11 J**	**100**	**ug/L**	**10**
1,1-Dichloroethene	ND	100	ug/L	12
1,1-Dichloroethane	ND	100	ug/L	10
1,2-Dichloroethene (total)	ND	100	ug/L	13
Chloroform	ND	100	ug/L	10
1,2-Dichloroethane	ND	100	ug/L	10
2-Butanone	ND	500	ug/L	40
1,1,1-Trichloroethane	ND	100	ug/L	12
Carbon tetrachloride	ND	100	ug/L	10
Bromodichloromethane	ND	100	ug/L	10
1,2-Dichloropropane	ND	100	ug/L	10
cis-1,3-Dichloropropene	ND	100	ug/L	10
Trichloroethene	ND	100	ug/L	10
Dibromochloromethane	ND	100	ug/L	22
1,1,2-Trichloroethane	ND	100	ug/L	14
Benzene	**60 J**	**100**	**ug/L**	**10**
trans-1,3-Dichloropropene	ND	100	ug/L	11
Bromoform	ND	100	ug/L	10
4-Methyl-2-pentanone	ND	500	ug/L	40
2-Hexanone	ND	500	ug/L	40
Tetrachloroethene	ND	100	ug/L	15
1,1,2,2-Tetrachloroethane	ND	100	ug/L	12
Toluene	**75 J**	**100**	**ug/L**	**23**
Chlorobenzene	ND	100	ug/L	10
Ethylbenzene	**76 J**	**100**	**ug/L**	**13**
Styrene	ND	100	ug/L	12
Xylenes (total)	**370**	**100**	**ug/L**	**30**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(80 - 120)
1,2-Dichloroethane-d4	114	(77 - 128)
Toluene-d8	109	(80 - 120)
Bromofluorobenzene	120	(72 - 129)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3009

GC/MS Volatiles

Lot-Sample #...: H2J190106-001 Work Order #...: FADHX1AC Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CD3001

GC/MS Volatiles

Lot-Sample #...: H2J190106-002 Work Order #...: FADH11AN Matrix.....: WATER
Date Sampled...: 10/18/02 Date Received..: 10/19/02
Prep Date.....: 10/24/02 Analysis Date..: 10/25/02
Prep Batch #...: 2297276
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.20
Bromomethane	ND	2.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.22
Methylene chloride	ND	2.0	ug/L	0.13
Acetone	**3.4 J**	**10**	**ug/L**	**1.3**
Carbon disulfide	**0.43 J**	**1.0**	**ug/L**	**0.10**
1,1-Dichloroethene	ND	1.0	ug/L	0.12
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.13
Chloroform	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
2-Butanone	ND	5.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.12
Carbon tetrachloride	ND	1.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
Trichloroethene	ND	1.0	ug/L	0.10
Dibromochloromethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.14
Benzene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11
Bromoform	ND	1.0	ug/L	0.10
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.15
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.12
Toluene	ND	1.0	ug/L	0.23
Chlorobenzene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.13
Styrene	ND	1.0	ug/L	0.12
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(80 - 120)
1,2-Dichloroethane-d4	111	(77 - 128)
Toluene-d8	110	(80 - 120)
Bromofluorobenzene	123	(72 - 129)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3001

GC/MS Volatiles

Lot-Sample #...: H2J190106-002 Work Order #...: FADH11AN Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CD5006

GC/MS Volatiles

Lot-Sample #...: H2J190106-003 Work Order #...: FADH21AA Matrix.....: WATER
Date Sampled...: 10/18/02 Date Received..: 10/19/02
Prep Date.....: 10/24/02 Analysis Date..: 10/25/02
Prep Batch #...: 2297276
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.20
Bromomethane	ND	2.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.22
Methylene chloride	ND	2.0	ug/L	0.13
Acetone	ND	10	ug/L	1.3
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.12
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.13
Chloroform	**0.25 J**	**1.0**	**ug/L**	**0.10**
1,2-Dichloroethane	ND	1.0	ug/L	0.10
2-Butanone	ND	5.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.12
Carbon tetrachloride	ND	1.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
Trichloroethene	ND	1.0	ug/L	0.10
Dibromochloromethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.14
Benzene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11
Bromoform	ND	1.0	ug/L	0.10
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.15
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.12
Toluene	ND	1.0	ug/L	0.23
Chlorobenzene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.13
Styrene	ND	1.0	ug/L	0.12
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
1,2-Dichloroethane-d4	108	(77 - 128)
Toluene-d8	111	(80 - 120)
Bromofluorobenzene	124	(72 - 129)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD5006

GC/MS Volatiles

Lot-Sample #...: H2J190106-003 Work Order #...: FADH21AA Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H2J190106 **Work Order #...:** FANK91AA **Matrix.....:** WATER
MB Lot-Sample #: H2J240000-276

Prep Date.....: 10/24/02
Analysis Date..: 10/24/02 **Prep Batch #...:** 2297276
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	ND	2.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	**1.8 J**	**5.0**	**ug/L**	**SW846 8260B**
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	**1.1 J**	**5.0**	**ug/L**	**SW846 8260B**
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(80 - 120)
1,2-Dichloroethane-d4	108	(77 - 128)
Toluene-d8	107	(80 - 120)
Bromofluorobenzene	116	(72 - 129)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H2J190106 Work Order #...: FANK91AA Matrix.....: WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H2J190106 Work Order #...: FANK91AC Matrix.....: WATER
LCS Lot-Sample#: H2J240000-276
Prep Date.....: 10/24/02 Analysis Date..: 10/24/02
Prep Batch #...: 2297276
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**97**	**(69 - 120)**	**SW846 8260B**
Trichloroethene	**101**	**(76 - 120)**	**SW846 8260B**
Benzene	**101**	**(76 - 120)**	**SW846 8260B**
Toluene	**98**	**(77 - 120)**	**SW846 8260B**
Chlorobenzene	**97**	**(75 - 120)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
1,2-Dichloroethane-d4	103	(77 - 128)
Toluene-d8	103	(80 - 120)
Bromofluorobenzene	101	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H2J190106 **Work Order #...:** FANK91AC **Matrix.....:** WATER
LCS Lot-Sample#: H2J240000-276
Prep Date.....: 10/24/02 **Analysis Date..:** 10/24/02
Prep Batch #...: 2297276
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**9.66**	**ug/L**	**97**	**SW846 8260B**
Trichloroethene	**10.0**	**10.1**	**ug/L**	**101**	**SW846 8260B**
Benzene	**10.0**	**10.1**	**ug/L**	**101**	**SW846 8260B**
Toluene	**10.0**	**9.76**	**ug/L**	**98**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.74**	**ug/L**	**97**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(80 - 120)
1,2-Dichloroethane-d4	103	(77 - 128)
Toluene-d8	103	(80 - 120)
Bromofluorobenzene	101	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H2J190106 Work Order #...: FAA061AF-MS Matrix.....: WATER
MS Lot-Sample #: H2J180210-001 FAA061AG-MSD
Date Sampled...: 10/17/02 Date Received..: 10/18/02
Prep Date.....: 10/24/02 Analysis Date..: 10/24/02
Prep Batch #...: 2297276
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	104	(58 - 130)			SW846 8260B
	99	(58 - 130)	4.6	(0-26)	SW846 8260B
Trichloroethene	101	(50 - 152)			SW846 8260B
	99	(50 - 152)	1.8	(0-17)	SW846 8260B
Benzene	102	(68 - 125)			SW846 8260B
	98	(68 - 125)	4.4	(0-19)	SW846 8260B
Toluene	101	(66 - 127)			SW846 8260B
	97	(66 - 127)	4.1	(0-17)	SW846 8260B
Chlorobenzene	97	(70 - 120)			SW846 8260B
	95	(70 - 120)	2.9	(0-17)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(80 - 120)
	98	(80 - 120)
1,2-Dichloroethane-d4	115	(77 - 128)
	115	(77 - 128)
Toluene-d8	106	(80 - 120)
	105	(80 - 120)
Bromofluorobenzene	103	(72 - 129)
	104	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H2J190106 Work Order #...: FAA061AF-MS Matrix.....: WATER
MS Lot-Sample #: H2J180210-001 FAA061AG-MSD
Date Sampled...: 10/17/02 Date Received..: 10/18/02
Prep Date.....: 10/24/02 Analysis Date..: 10/24/02
Prep Batch #...: 2297276
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	9.90	ug/L	99	4.6	SW846 8260B
Trichloroethene	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	9.92	ug/L	99	1.8	SW846 8260B
Benzene	0.15	10.0	10.4	ug/L	102		SW846 8260B
	0.15	10.0	9.92	ug/L	98	4.4	SW846 8260B
Toluene	ND	10.0	10.2	ug/L	101		SW846 8260B
	ND	10.0	9.82	ug/L	97	4.1	SW846 8260B
Chlorobenzene	ND	10.0	9.74	ug/L	97		SW846 8260B
	ND	10.0	9.47	ug/L	95	2.9	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(80 - 120)
	98	(80 - 120)
1,2-Dichloroethane-d4	115	(77 - 128)
	115	(77 - 128)
Toluene-d8	106	(80 - 120)
	105	(80 - 120)
Bromofluorobenzene	103	(72 - 129)
	104	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3009

GC/MS Semivolatiles

Lot-Sample #...: H2J190106-001 **Work Order #...:** FADHX1AD **Matrix.....:** WATER
Date Sampled...: 10/18/02 **Date Received..:** 10/19/02
Prep Date.....: 10/21/02 **Analysis Date..:** 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Phenol	**1.2 J**	**10**	**ug/L**	**1.2**
bis(2-Chloroethyl)-ether	ND	10	ug/L	1.1
2-Chlorophenol	ND	10	ug/L	1.5
1,3-Dichlorobenzene	ND	10	ug/L	1.3
1,4-Dichlorobenzene	ND	10	ug/L	1.7
1,2-Dichlorobenzene	ND	10	ug/L	1.1
2-Methylphenol	ND	10	ug/L	1.0
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	1.3
4-Methylphenol	ND	10	ug/L	2.1
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	1.4
Hexachloroethane	ND	10	ug/L	1.6
Nitrobenzene	ND	10	ug/L	1.6
Isophorone	ND	10	ug/L	1.2
2-Nitrophenol	ND	10	ug/L	1.7
2,4-Dimethylphenol	**4.2 J**	**10**	**ug/L**	**1.8**
bis(2-Chloroethoxy) methane	ND	10	ug/L	1.2
2,4-Dichlorophenol	ND	10	ug/L	1.4
1,2,4-Trichloro-benzene	ND	10	ug/L	1.5
Naphthalene	**12**	**10**	**ug/L**	**1.4**
4-Chloroaniline	ND	10	ug/L	1.2
Hexachlorobutadiene	ND	10	ug/L	1.4
4-Chloro-3-methylphenol	ND	10	ug/L	0.56
2-Methylnaphthalene	**19**	**10**	**ug/L**	**1.0**
Hexachlorocyclopenta-diene	ND	50	ug/L	1.2
2,4,6-Trichloro-phenol	ND	10	ug/L	1.3
2,4,5-Trichloro-phenol	ND	10	ug/L	1.8
2-Chloronaphthalene	ND	10	ug/L	1.3
2-Nitroaniline	ND	50	ug/L	1.2
Dimethyl phthalate	ND	10	ug/L	1.4
Acenaphthylene	ND	10	ug/L	1.1
2,6-Dinitrotoluene	ND	10	ug/L	1.5

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3009

GC/MS Semivolatiles

Lot-Sample #...: H2J190106-001 **Work Order #...:** FADHX1AD **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3-Nitroaniline	ND	50	ug/L	1.5
Acenaphthene	ND	10	ug/L	1.1
2,4-Dinitrophenol	ND	50	ug/L	11
4-Nitrophenol	ND	50	ug/L	5.7
Dibenzofuran	ND	10	ug/L	1.2
2,4-Dinitrotoluene	ND	10	ug/L	1.2
Diethyl phthalate	ND	10	ug/L	1.4
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.3
Fluorene	ND	10	ug/L	1.3
4-Nitroaniline	ND	50	ug/L	1.3
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.5
N-Nitrosodiphenylamine	ND	10	ug/L	1.2
4-Bromophenyl phenyl ether	ND	10	ug/L	1.8
Hexachlorobenzene	ND	10	ug/L	1.4
Pentachlorophenol	ND	50	ug/L	1.1
Phenanthrene	ND	10	ug/L	1.4
Anthracene	ND	10	ug/L	1.3
Carbazole	ND	10	ug/L	1.5
Di-n-butyl phthalate	ND	10	ug/L	1.6
Fluoranthene	ND	10	ug/L	1.4
Pyrene	ND	10	ug/L	1.2
Butyl benzyl phthalate	ND	10	ug/L	1.7
3,3'-Dichlorobenzidine	ND	50	ug/L	1.1
Benzo(a)anthracene	ND	10	ug/L	1.2
Chrysene	ND	10	ug/L	1.6
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.9
Di-n-octyl phthalate	ND	10	ug/L	1.9
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(a)pyrene	ND	10	ug/L	2.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.83
Dibenz(a,h)anthracene	ND	10	ug/L	1.2
Benzo(ghi)perylene	ND	10	ug/L	1.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	44	(29 - 110)
Phenol-d5	53	(41 - 115)
Nitrobenzene-d5	50	(46 - 117)
2-Fluorobiphenyl	71	(44 - 116)
2,4,6-Tribromophenol	88	(31 - 138)
Terphenyl-d14	94	(36 - 134)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3009

GC/MS Semivolatiles

Lot-Sample #...: H2J190106-001 Work Order #...: FADHX1AD Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CD3001

GC/MS Semivolatiles

Lot-Sample #...: H2J190106-002 **Work Order #...:** FADH11AP **Matrix.....:** WATER
Date Sampled...: 10/18/02 **Date Received..:** 10/19/02
Prep Date.....: 10/21/02 **Analysis Date..:** 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Phenol	ND	10	ug/L	1.2
bis(2-Chloroethyl)-ether	ND	10	ug/L	1.1
2-Chlorophenol	ND	10	ug/L	1.5
1,3-Dichlorobenzene	ND	10	ug/L	1.3
1,4-Dichlorobenzene	ND	10	ug/L	1.7
1,2-Dichlorobenzene	ND	10	ug/L	1.1
2-Methylphenol	ND	10	ug/L	1.0
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	1.3
4-Methylphenol	ND	10	ug/L	2.1
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	1.4
Hexachloroethane	ND	10	ug/L	1.6
Nitrobenzene	ND	10	ug/L	1.6
Isophorone	ND	10	ug/L	1.2
2-Nitrophenol	ND	10	ug/L	1.7
2,4-Dimethylphenol	ND	10	ug/L	1.8
bis(2-Chloroethoxy) methane	ND	10	ug/L	1.2
2,4-Dichlorophenol	ND	10	ug/L	1.4
1,2,4-Trichloro-benzene	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	1.4
4-Chloroaniline	ND	10	ug/L	1.2
Hexachlorobutadiene	ND	10	ug/L	1.4
4-Chloro-3-methylphenol	ND	10	ug/L	0.56
2-Methylnaphthalene	ND	10	ug/L	1.0
Hexachlorocyclopenta-diene	ND	50	ug/L	1.2
2,4,6-Trichloro-phenol	ND	10	ug/L	1.3
2,4,5-Trichloro-phenol	ND	10	ug/L	1.8
2-Chloronaphthalene	ND	10	ug/L	1.3
2-Nitroaniline	ND	50	ug/L	1.2
Dimethyl phthalate	ND	10	ug/L	1.4
Acenaphthylene	ND	10	ug/L	1.1
2,6-Dinitrotoluene	ND	10	ug/L	1.5

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3001

GC/MS Semivolatiles

Lot-Sample #...: H2J190106-002 **Work Order #...:** FADH11AP **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3-Nitroaniline	ND	50	ug/L	1.5
Acenaphthene	ND	10	ug/L	1.1
2,4-Dinitrophenol	ND	50	ug/L	11
4-Nitrophenol	ND	50	ug/L	5.7
Dibenzofuran	ND	10	ug/L	1.2
2,4-Dinitrotoluene	ND	10	ug/L	1.2
Diethyl phthalate	ND	10	ug/L	1.4
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.3
Fluorene	ND	10	ug/L	1.3
4-Nitroaniline	ND	50	ug/L	1.3
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.5
N-Nitrosodiphenylamine	ND	10	ug/L	1.2
4-Bromophenyl phenyl ether	ND	10	ug/L	1.8
Hexachlorobenzene	ND	10	ug/L	1.4
Pentachlorophenol	ND	50	ug/L	1.1
Phenanthrene	ND	10	ug/L	1.4
Anthracene	ND	10	ug/L	1.3
Carbazole	ND	10	ug/L	1.5
Di-n-butyl phthalate	ND	10	ug/L	1.6
Fluoranthene	ND	10	ug/L	1.4
Pyrene	ND	10	ug/L	1.2
Butyl benzyl phthalate	ND	10	ug/L	1.7
3,3'-Dichlorobenzidine	ND	50	ug/L	1.1
Benzo(a)anthracene	ND	10	ug/L	1.2
Chrysene	ND	10	ug/L	1.6
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.9
Di-n-octyl phthalate	ND	10	ug/L	1.9
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(a)pyrene	ND	10	ug/L	2.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.83
Dibenz(a,h)anthracene	ND	10	ug/L	1.2
Benzo(ghi)perylene	ND	10	ug/L	1.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	81	(29 - 110)
Phenol-d5	78	(41 - 115)
Nitrobenzene-d5	78	(46 - 117)
2-Fluorobiphenyl	88	(44 - 116)
2,4,6-Tribromophenol	64	(31 - 138)
Terphenyl-d14	95	(36 - 134)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2J190106 **Work Order #...:** FAFG51AA **Matrix.....:** WATER
MB Lot-Sample #: H2J210000-193

Prep Date.....: 10/21/02
Analysis Date..: 10/25/02 **Prep Batch #...:** 2294193
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
1,2,4-Trichloro-benzene	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta-diene	ND	50	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
Acenaphthene	ND	10	ug/L	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2J190106 **Work Order #...:** FAFG51AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(29 - 110)
Phenol-d5	78	(41 - 115)
Nitrobenzene-d5	75	(46 - 117)
2-Fluorobiphenyl	85	(44 - 116)
2,4,6-Tribromophenol	91	(31 - 138)
Terphenyl-d14	102	(36 - 134)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2J190106 **Work Order #...:** FAFG51AA **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H2J190106 **Work Order #...:** FAFG51AC **Matrix.....:** WATER
LCS Lot-Sample#: H2J210000-193
Prep Date.....: 10/21/02 **Analysis Date..:** 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**77**	**(62 - 103)**	**SW846 8270C**
2-Chlorophenol	**83**	**(63 - 103)**	**SW846 8270C**
1,4-Dichlorobenzene	**82**	**(65 - 102)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**77**	**(65 - 108)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**86**	**(67 - 104)**	**SW846 8270C**
4-Chloro-3-methylphenol	**83**	**(65 - 108)**	**SW846 8270C**
Acenaphthene	**80**	**(59 - 100)**	**SW846 8270C**
4-Nitrophenol	**74**	**(50 - 122)**	**SW846 8270C**
2,4-Dinitrotoluene	**90**	**(69 - 128)**	**SW846 8270C**
Pentachlorophenol	**78**	**(64 - 114)**	**SW846 8270C**
Pyrene	**84**	**(52 - 119)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(29 - 110)
Phenol-d5	79	(41 - 115)
Nitrobenzene-d5	78	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	97	(31 - 138)
Terphenyl-d14	100	(36 - 134)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H2J190106 **Work Order #...:** FAFG51AC **Matrix.....:** WATER
LCS Lot-Sample#: H2J210000-193
Prep Date.....: 10/21/02 **Analysis Date..:** 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Phenol	**100**	**77.3**	**ug/L**	**77**	**SW846 8270C**
2-Chlorophenol	**100**	**82.8**	**ug/L**	**83**	**SW846 8270C**
1,4-Dichlorobenzene	**100**	**82.2**	**ug/L**	**82**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**100**	**76.9**	**ug/L**	**77**	**SW846 8270C**
1,2,4-Trichloro-benzene	**100**	**86.0**	**ug/L**	**86**	**SW846 8270C**
4-Chloro-3-methylphenol	**100**	**83.1**	**ug/L**	**83**	**SW846 8270C**
Acenaphthene	**100**	**79.6**	**ug/L**	**80**	**SW846 8270C**
4-Nitrophenol	**100**	**73.8**	**ug/L**	**74**	**SW846 8270C**
2,4-Dinitrotoluene	**100**	**89.8**	**ug/L**	**90**	**SW846 8270C**
Pentachlorophenol	**100**	**77.5**	**ug/L**	**78**	**SW846 8270C**
Pyrene	**100**	**84.4**	**ug/L**	**84**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(29 - 110)
Phenol-d5	79	(41 - 115)
Nitrobenzene-d5	78	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	97	(31 - 138)
Terphenyl-d14	100	(36 - 134)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H2J190106 **Work Order #...:** FAA061AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AK-MSD
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/21/02 **Analysis Date..:** 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**69**	**(58 - 103)**			**SW846 8270C**
	79	**(58 - 103)**	**14**	**(0-41)**	**SW846 8270C**
2-Chlorophenol	**72**	**(54 - 103)**			**SW846 8270C**
	86	**(54 - 103)**	**17**	**(0-43)**	**SW846 8270C**
1,4-Dichlorobenzene	**68**	**(56 - 102)**			**SW846 8270C**
	84	**(56 - 102)**	**23**	**(0-37)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**67**	**(61 - 108)**			**SW846 8270C**
	80	**(61 - 108)**	**18**	**(0-36)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**75**	**(58 - 104)**			**SW846 8270C**
	86	**(58 - 104)**	**14**	**(0-36)**	**SW846 8270C**
4-Chloro-3-methylphenol	**88**	**(65 - 108)**			**SW846 8270C**
	91	**(65 - 108)**	**4.2**	**(0-29)**	**SW846 8270C**
Acenaphthene	**77**	**(59 - 100)**			**SW846 8270C**
	82	**(59 - 100)**	**6.8**	**(0-26)**	**SW846 8270C**
4-Nitrophenol	**88**	**(50 - 122)**			**SW846 8270C**
	89	**(50 - 122)**	**1.9**	**(0-50)**	**SW846 8270C**
2,4-Dinitrotoluene	**94**	**(67 - 128)**			**SW846 8270C**
	96	**(67 - 128)**	**2.2**	**(0-25)**	**SW846 8270C**
Pentachlorophenol	**92**	**(64 - 118)**			**SW846 8270C**
	90	**(64 - 118)**	**1.5**	**(0-37)**	**SW846 8270C**
Pyrene	**91**	**(51 - 119)**			**SW846 8270C**
	94	**(51 - 119)**	**3.6**	**(0-27)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(29 - 110)
	74	(29 - 110)
Phenol-d5	70	(41 - 115)
	80	(41 - 115)
Nitrobenzene-d5	68	(46 - 117)
	79	(46 - 117)
2-Fluorobiphenyl	80	(44 - 116)
	89	(44 - 116)
2,4,6-Tribromophenol	104	(31 - 138)
	100	(31 - 138)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H2J190106 **Work Order #...:** FAA061AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AK-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	106	(36 - 134)
	111	(36 - 134)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H2J190106 **Work Order #...:** FAA061AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AK-MSD
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/21/02 **Analysis Date..:** 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Phenol	ND	95.7	66.0	ug/L	69		SW846 8270C
	ND	96.2	76.2	ug/L	79	14	SW846 8270C
2-Chlorophenol	ND	95.7	69.1	ug/L	72		SW846 8270C
	ND	96.2	82.3	ug/L	86	17	SW846 8270C
1,4-Dichlorobenzene	ND	95.7	64.7	ug/L	68		SW846 8270C
	ND	96.2	81.2	ug/L	84	23	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	95.7	64.2	ug/L	67		SW846 8270C
	ND	96.2	77.2	ug/L	80	18	SW846 8270C
1,2,4-Trichloro-benzene	ND	95.7	72.0	ug/L	75		SW846 8270C
	ND	96.2	82.7	ug/L	86	14	SW846 8270C
4-Chloro-3-methylphenol	ND	95.7	84.0	ug/L	88		SW846 8270C
	ND	96.2	87.6	ug/L	91	4.2	SW846 8270C
Acenaphthene	ND	95.7	73.5	ug/L	77		SW846 8270C
	ND	96.2	78.7	ug/L	82	6.8	SW846 8270C
4-Nitrophenol	ND	95.7	84.0	ug/L	88		SW846 8270C
	ND	96.2	85.6	ug/L	89	1.9	SW846 8270C
2,4-Dinitrotoluene	ND	95.7	90.4	ug/L	94		SW846 8270C
	ND	96.2	92.4	ug/L	96	2.2	SW846 8270C
Pentachlorophenol	ND	95.7	87.8	ug/L	92		SW846 8270C
	ND	96.2	86.5	ug/L	90	1.5	SW846 8270C
Pyrene	ND	95.7	87.2	ug/L	91		SW846 8270C
	ND	96.2	90.4	ug/L	94	3.6	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(29 - 110)
	74	(29 - 110)
Phenol-d5	70	(41 - 115)
	80	(41 - 115)
Nitrobenzene-d5	68	(46 - 117)
	79	(46 - 117)
2-Fluorobiphenyl	80	(44 - 116)
	89	(44 - 116)
2,4,6-Tribromophenol	104	(31 - 138)
	100	(31 - 138)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H2J190106 **Work Order #...:** FAA061AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AK-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	106	(36 - 134)
	111	(36 - 134)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3009

HPLC

Lot-Sample #...: H2J190106-001 **Work Order #...:** FADHX1AA **Matrix.....:** WATER
Date Sampled...: 10/18/02 **Date Received..:** 10/19/02
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
HMX	ND	0.50	ug/L	0.10
RDX	ND G	0.61	ug/L	0.13
1,3,5-Trinitrobenzene	ND	0.20	ug/L	0.11
1,3-Dinitrobenzene	ND	0.20	ug/L	0.080
Tetryl	ND	0.20	ug/L	0.17
Nitrobenzene	ND	0.20	ug/L	0.070
2,4,6-Trinitrotoluene	ND G	0.53	ug/L	0.080
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L	0.11
2-Amino-4,6-dinitrotoluene	**0.19 J**	**0.20**	**ug/L**	**0.090**
2,6-Dinitrotoluene	**1.4**	**0.20**	**ug/L**	**0.11**
2,4-Dinitrotoluene	**0.98**	**0.20**	**ug/L**	**0.070**
2-Nitrotoluene	ND	0.20	ug/L	0.14
4-Nitrotoluene	ND	0.20	ug/L	0.17
3-Nitrotoluene	ND	0.20	ug/L	0.13

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	132	(53 - 133)

NOTE(S):

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

J Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CD3001

HPLC

Lot-Sample #...: H2J190106-002 **Work Order #...:** FADH11AM **Matrix.....:** WATER
Date Sampled...: 10/18/02 **Date Received..:** 10/19/02
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
HMX	ND	0.50	ug/L	0.10
RDX	ND	0.50	ug/L	0.13
1,3,5-Trinitrobenzene	ND	0.20	ug/L	0.11
1,3-Dinitrobenzene	ND	0.20	ug/L	0.080
Tetryl	ND	0.20	ug/L	0.17
Nitrobenzene	ND	0.20	ug/L	0.070
2,4,6-Trinitrotoluene	ND	0.20	ug/L	0.080
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L	0.11
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L	0.090
2,6-Dinitrotoluene	ND	0.20	ug/L	0.11
2,4-Dinitrotoluene	ND	0.20	ug/L	0.070
2-Nitrotoluene	ND	0.20	ug/L	0.14
4-Nitrotoluene	ND	0.20	ug/L	0.17
3-Nitrotoluene	ND	0.20	ug/L	0.13

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	89	(53 - 133)

METHOD BLANK REPORT

HPLC

Client Lot #...: H2J190106 **Work Order #...:** FAFQG1AA **Matrix.....:** WATER
MB Lot-Sample #: H2J210000-273

Prep Date.....: 10/22/02
Analysis Date..: 10/22/02 **Prep Batch #...:** 2294273
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
HMX	ND	0.50	ug/L	SW846 8330
RDX	ND	0.50	ug/L	SW846 8330
1,3,5-Trinitrobenzene	ND	0.20	ug/L	SW846 8330
1,3-Dinitrobenzene	ND	0.20	ug/L	SW846 8330
Tetryl	ND	0.20	ug/L	SW846 8330
Nitrobenzene	ND	0.20	ug/L	SW846 8330
2,4,6-Trinitrotoluene	ND	0.20	ug/L	SW846 8330
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L	SW846 8330
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,6-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,4-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2-Nitrotoluene	ND	0.20	ug/L	SW846 8330
4-Nitrotoluene	ND	0.20	ug/L	SW846 8330
3-Nitrotoluene	ND	0.20	ug/L	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	87	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H2J190106 **Work Order #...:** FAFQG1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2J210000-273
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**83**	**(68 - 122)**	**SW846 8330**
RDX	**88**	**(71 - 127)**	**SW846 8330**
1,3,5-Trinitrobenzene	**89**	**(70 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**90**	**(72 - 124)**	**SW846 8330**
Tetryl	**87**	**(68 - 123)**	**SW846 8330**
Nitrobenzene	**85**	**(60 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**90**	**(71 - 123)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**84**	**(66 - 122)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**83**	**(65 - 124)**	**SW846 8330**
2,6-Dinitrotoluene	**91**	**(66 - 129)**	**SW846 8330**
2,4-Dinitrotoluene	**89**	**(70 - 125)**	**SW846 8330**
2-Nitrotoluene	**79**	**(54 - 121)**	**SW846 8330**
4-Nitrotoluene	**81**	**(59 - 123)**	**SW846 8330**
3-Nitrotoluene	**84**	**(58 - 124)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	107	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: H2J190106 **Work Order #...:** FAFQG1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2J210000-273
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
HMX	**3.00**	**2.49**	**ug/L**	**83**	**SW846 8330**
RDX	**3.00**	**2.64**	**ug/L**	**88**	**SW846 8330**
1,3,5-Trinitrobenzene	**3.00**	**2.67**	**ug/L**	**89**	**SW846 8330**
1,3-Dinitrobenzene	**3.00**	**2.71**	**ug/L**	**90**	**SW846 8330**
Tetryl	**3.00**	**2.62**	**ug/L**	**87**	**SW846 8330**
Nitrobenzene	**3.00**	**2.55**	**ug/L**	**85**	**SW846 8330**
2,4,6-Trinitrotoluene	**3.00**	**2.71**	**ug/L**	**90**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**3.00**	**2.53**	**ug/L**	**84**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**3.00**	**2.48**	**ug/L**	**83**	**SW846 8330**
2,6-Dinitrotoluene	**3.00**	**2.74**	**ug/L**	**91**	**SW846 8330**
2,4-Dinitrotoluene	**3.00**	**2.66**	**ug/L**	**89**	**SW846 8330**
2-Nitrotoluene	**3.00**	**2.36**	**ug/L**	**79**	**SW846 8330**
4-Nitrotoluene	**3.00**	**2.44**	**ug/L**	**81**	**SW846 8330**
3-Nitrotoluene	**3.00**	**2.52**	**ug/L**	**84**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	107	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H2J190106 **Work Order #...:** FAA061AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AD-MSD
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**91**	**(61 - 132)**			**SW846 8330**
	102	**(61 - 132)**	**11**	**(0-40)**	**SW846 8330**
RDX	**95**	**(30 - 191)**			**SW846 8330**
	104	**(30 - 191)**	**9.2**	**(0-35)**	**SW846 8330**
1,3,5-Trinitrobenzene	**84**	**(70 - 124)**			**SW846 8330**
	94	**(70 - 124)**	**11**	**(0-33)**	**SW846 8330**
1,3-Dinitrobenzene	**86**	**(72 - 130)**			**SW846 8330**
	96	**(72 - 130)**	**11**	**(0-42)**	**SW846 8330**
Tetryl	**0.0**	**(55 - 125)**			**SW846 8330**
	0.0	**(55 - 125)**	**0.0**	**(0-37)**	**SW846 8330**
Nitrobenzene	**74**	**(59 - 136)**			**SW846 8330**
	89	**(59 - 136)**	**17**	**(0-36)**	**SW846 8330**
2,4,6-Trinitrotoluene	**89**	**(71 - 123)**			**SW846 8330**
	99	**(71 - 123)**	**10**	**(0-34)**	**SW846 8330**
4-Amino-2,6- dinitrotoluene	**82**	**(66 - 124)**			**SW846 8330**
	93	**(66 - 124)**	**12**	**(0-43)**	**SW846 8330**
2-Amino-4,6- dinitrotoluene	**83**	**(64 - 134)**			**SW846 8330**
	93	**(64 - 134)**	**12**	**(0-34)**	**SW846 8330**
2,6-Dinitrotoluene	**92**	**(66 - 136)**			**SW846 8330**
	101	**(66 - 136)**	**10**	**(0-32)**	**SW846 8330**
2,4-Dinitrotoluene	**88**	**(70 - 133)**			**SW846 8330**
	99	**(70 - 133)**	**11**	**(0-36)**	**SW846 8330**
2-Nitrotoluene	**66**	**(54 - 136)**			**SW846 8330**
	84	**(54 - 136)**	**24**	**(0-38)**	**SW846 8330**
4-Nitrotoluene	**71**	**(59 - 131)**			**SW846 8330**
	84	**(59 - 131)**	**17**	**(0-33)**	**SW846 8330**
3-Nitrotoluene	**75**	**(58 - 133)**			**SW846 8330**
	86	**(58 - 133)**	**14**	**(0-36)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	92	(53 - 133)
	82	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: H2J190106 **Work Order #...:** FAA061AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AD-MSD
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
HMX	**ND**	**3.00**	**2.74**	**ug/L**	**91**		**SW846 8330**
	ND	**3.00**	**3.07**	**ug/L**	**102**	**11**	**SW846 8330**
RDX	**ND**	**3.00**	**2.86**	**ug/L**	**95**		**SW846 8330**
	ND	**3.00**	**3.13**	**ug/L**	**104**	**9.2**	**SW846 8330**
1,3,5-Trinitrobenzene	**ND**	**3.00**	**2.52**	**ug/L**	**84**		**SW846 8330**
	ND	**3.00**	**2.82**	**ug/L**	**94**	**11**	**SW846 8330**
1,3-Dinitrobenzene	**ND**	**3.00**	**2.57**	**ug/L**	**86**		**SW846 8330**
	ND	**3.00**	**2.88**	**ug/L**	**96**	**11**	**SW846 8330**
Tetryl	**ND**	**3.00**		**ug/L**	**0.0**		**SW846 8330**
	ND	**3.00**		**ug/L**	**0.0**	**0.0**	**SW846 8330**
Nitrobenzene	**0.12**	**3.00**	**2.35**	**ug/L**	**74**		**SW846 8330**
	0.12	**3.00**	**2.78**	**ug/L**	**89**	**17**	**SW846 8330**
2,4,6-Trinitrotoluene	**ND**	**3.00**	**2.68**	**ug/L**	**89**		**SW846 8330**
	ND	**3.00**	**2.97**	**ug/L**	**99**	**10**	**SW846 8330**
4-Amino-2,6- dinitrotoluene	**ND**	**3.00**	**2.46**	**ug/L**	**82**		**SW846 8330**
	ND	**3.00**	**2.78**	**ug/L**	**93**	**12**	**SW846 8330**
2-Amino-4,6- dinitrotoluene	**ND**	**3.00**	**2.48**	**ug/L**	**83**		**SW846 8330**
	ND	**3.00**	**2.79**	**ug/L**	**93**	**12**	**SW846 8330**
2,6-Dinitrotoluene	**ND**	**3.00**	**2.75**	**ug/L**	**92**		**SW846 8330**
	ND	**3.00**	**3.04**	**ug/L**	**101**	**10**	**SW846 8330**
2,4-Dinitrotoluene	**ND**	**3.00**	**2.65**	**ug/L**	**88**		**SW846 8330**
	ND	**3.00**	**2.97**	**ug/L**	**99**	**11**	**SW846 8330**
2-Nitrotoluene	**ND**	**3.00**	**1.99**	**ug/L**	**66**		**SW846 8330**
	ND	**3.00**	**2.53**	**ug/L**	**84**	**24**	**SW846 8330**
4-Nitrotoluene	**ND**	**3.00**	**2.14**	**ug/L**	**71**		**SW846 8330**
	ND	**3.00**	**2.52**	**ug/L**	**84**	**17**	**SW846 8330**
3-Nitrotoluene	**ND**	**3.00**	**2.24**	**ug/L**	**75**		**SW846 8330**
	ND	**3.00**	**2.57**	**ug/L**	**86**	**14**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	92	(53 - 133)
	82	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3009

TOTAL Metals

Lot-Sample #...: H2J190106-001 **Matrix.....:** WATER
Date Sampled...: 10/18/02 **Date Received..:** 10/19/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2295322						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FADHX1A5
		Dilution Factor: 1		Analysis Time..: 13:42	MDL.....: 0.030	
Prep Batch #...: 2296221						
Aluminum	**105 B**	**200**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADHX1AE**
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 18.4	
Antimony	ND	60.0	ug/L	SW846 6010B	10/24-10/25/02	FADHX1AF
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 3.1	
Arsenic	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FADHX1AG
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 2.7	
Barium	**86.2 B**	**200**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADHX1AH**
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 0.50	
Beryllium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FADHX1AJ
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 0.22	
Cadmium	**0.25 B**	**5.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADHX1AK**
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 0.22	
Calcium	**371000 J**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADHX1AL**
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 10.0	
Chromium	**1.6 B**	**10.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADHX1AM**
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 1.0	
Cobalt	**1.6 B**	**50.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADHX1AN**
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 1.0	
Copper	ND	25.0	ug/L	SW846 6010B	10/24-10/25/02	FADHX1AP
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 1.0	
Iron	**31600**	**100**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADHX1AQ**
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 16.2	
Lead	ND	3.0	ug/L	SW846 6010B	10/24-10/25/02	FADHX1AR
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 0.92	

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3009

TOTAL Metals

Lot-Sample #...: H2J190106-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**178000**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADHX1AT**
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 10.2	
Manganese	**1250**	**15.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADHX1AU**
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 0.51	
Nickel	**6.4 B**	**40.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADHX1AV**
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 1.4	
Potassium	**27600 J**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADHX1AW**
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 50.0	
Selenium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FADHX1AX
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 3.1	
Silver	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FADHX1A0
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 0.78	
Sodium	**109000**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADHX1A1**
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 233	
Thallium	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FADHX1A2
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 2.9	
Vanadium	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FADHX1A3
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 1.0	
Zinc	**12.3 B**	**20.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADHX1A4**
		Dilution Factor: 1		Analysis Time..: 13:47	MDL.....: 0.53	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SHAW E & I INC

Client Sample ID: CD3001

TOTAL Metals

Lot-Sample #...: H2J190106-002 **Matrix.....:** WATER
Date Sampled...: 10/18/02 **Date Received..:** 10/19/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2295322						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FADH11AG
		Dilution Factor: 1		Analysis Time..: 13:49	MDL.....: 0.030	
Prep Batch #...: 2296221						
Aluminum	**83.6 B**	**200**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADH11AQ**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 18.4	
Antimony	ND	60.0	ug/L	SW846 6010B	10/24-10/25/02	FADH11AR
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 3.1	
Arsenic	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FADH11AT
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 2.7	
Barium	**279**	**200**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADH11AU**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 0.50	
Beryllium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FADH11AV
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 0.22	
Cadmium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FADH11AW
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 0.22	
Calcium	**122000 J**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADH11AX**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 10.0	
Chromium	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FADH11A0
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 1.0	
Cobalt	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FADH11A1
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 1.0	
Copper	ND	25.0	ug/L	SW846 6010B	10/24-10/25/02	FADH11A2
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 1.0	
Iron	**74.5 B**	**100**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADH11A3**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 16.2	
Lead	ND	3.0	ug/L	SW846 6010B	10/24-10/25/02	FADH11A4
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 0.92	

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3001

TOTAL Metals

Lot-Sample #...: H2J190106-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**77000**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADH11A5**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 10.2	
Manganese	**51.1**	**15.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADH11A6**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 0.51	
Nickel	ND	40.0	ug/L	SW846 6010B	10/24-10/25/02	FADH11A7
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 1.4	
Potassium	**41200 J**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADH11A8**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 50.0	
Selenium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FADH11A9
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 3.1	
Silver	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FADH11AA
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 0.78	
Sodium	**462000**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADH11AC**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 233	
Thallium	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FADH11AD
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 2.9	
Vanadium	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FADH11AE
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 1.0	
Zinc	**0.83 B**	**20.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FADH11AF**
		Dilution Factor: 1		Analysis Time..: 13:52	MDL.....: 0.53	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SHAW E & I INC

Client Sample ID: CD3009

DISSOLVED Metals

Lot-Sample #...: H2J190106-004 **Matrix.....:** WATER
Date Sampled...: 10/18/02 **Date Received..:** 10/19/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2295324						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FADH31A2
		Dilution Factor: 1		Analysis Time..: 12:41	MDL.....: 0.030	
Prep Batch #...: 2295402						
Aluminum	**76.3 B**	**200**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH31AA**
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 18.4	
Antimony	ND	60.0	ug/L	SW846 6010B	10/23-10/24/02	FADH31AC
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 3.1	
Arsenic	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FADH31AD
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 2.7	
Barium	**81.4 B**	**200**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH31AE**
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 0.50	
Beryllium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FADH31AF
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 0.22	
Cadmium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FADH31AG
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 0.22	
Calcium	**364000**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH31AH**
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 10.0	
Chromium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FADH31AJ
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 1.0	
Cobalt	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FADH31AK
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 1.0	
Copper	ND	25.0	ug/L	SW846 6010B	10/23-10/24/02	FADH31AL
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 1.0	
Iron	**159**	**100**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH31AM**
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 16.2	
Lead	ND	3.0	ug/L	SW846 6010B	10/23-10/24/02	FADH31AN
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 0.92	

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3009

DISSOLVED Metals

Lot-Sample #...: H2J190106-004 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**177000**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH31AP**
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 10.2	
Manganese	**816**	**15.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH31AQ**
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 0.51	
Nickel	ND	40.0	ug/L	SW846 6010B	10/23-10/24/02	FADH31AR
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 1.4	
Potassium	**27800 J**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH31AT**
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 50.0	
Selenium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FADH31AU
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 3.1	
Silver	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FADH31AV
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 0.78	
Sodium	**107000**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH31AW**
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 233	
Thallium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FADH31AX
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 2.9	
Vanadium	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FADH31A0
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 1.0	
Zinc	**2.8 B,J**	**20.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH31A1**
		Dilution Factor: 1		Analysis Time..: 14:04	MDL.....: 0.53	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SHAW E & I INC

Client Sample ID: CD3001

DISSOLVED Metals

Lot-Sample #...: H2J190106-005 **Matrix.....:** WATER
Date Sampled...: 10/18/02 **Date Received..:** 10/19/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2295324						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FADH41AD
		Dilution Factor: 1		Analysis Time..: 12:43	MDL.....: 0.030	
Prep Batch #...: 2295402						
Aluminum	**86.7 B**	**200**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH41AE**
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 18.4	
Antimony	ND	60.0	ug/L	SW846 6010B	10/23-10/24/02	FADH41AF
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 3.1	
Arsenic	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FADH41AG
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 2.7	
Barium	**285**	**200**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH41AH**
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 0.50	
Beryllium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FADH41AJ
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 0.22	
Cadmium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FADH41AK
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 0.22	
Calcium	**127000**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH41AL**
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 10.0	
Chromium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FADH41AM
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 1.0	
Cobalt	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FADH41AN
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 1.0	
Copper	ND	25.0	ug/L	SW846 6010B	10/23-10/24/02	FADH41AP
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 1.0	
Iron	**53.4 B**	**100**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH41AQ**
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 16.2	
Lead	ND	3.0	ug/L	SW846 6010B	10/23-10/24/02	FADH41AR
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 0.92	

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3001

DISSOLVED Metals

Lot-Sample #...: H2J190106-005 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**79800**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH41AT**
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 10.2	
Manganese	**52.2**	**15.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH41AU**
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 0.51	
Nickel	ND	40.0	ug/L	SW846 6010B	10/23-10/24/02	FADH41AV
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 1.4	
Potassium	**43200 J**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH41AW**
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 50.0	
Selenium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FADH41AX
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 3.1	
Silver	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FADH41A0
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 0.78	
Sodium	**472000**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH41A1**
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 233	
Thallium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FADH41A2
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 2.9	
Vanadium	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FADH41AA
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 1.0	
Zinc	**1.2 B,J**	**20.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FADH41AC**
		Dilution Factor: 1		Analysis Time..: 14:08	MDL.....: 0.53	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2J220000-322 **Prep Batch #...:** 2295322						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FAHMG1AA
		Dilution Factor: 1				
		Analysis Time..: 13:37				
MB Lot-Sample #: H2J230000-221 **Prep Batch #...:** 2296221						
Aluminum	ND	200	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AA
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Antimony	ND	60.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AC
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Arsenic	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AD
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Barium	ND	200	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AE
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Beryllium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AF
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Cadmium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AG
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Calcium	**11.2 B**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAKGC1AH**
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Chromium	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AJ
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Cobalt	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AK
		Dilution Factor: 1				
		Analysis Time..: 11:06				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	25.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AL
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Iron	ND	100	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AM
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Lead	ND	3.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AN
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Magnesium	ND	5000	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AP
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Manganese	ND	15.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AQ
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Nickel	ND	40.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AR
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Potassium	**89.7 B**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAKGC1AT**
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Selenium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AU
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Silver	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AV
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Sodium	ND	5000	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AW
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Thallium	**6.0 B**	**10.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAKGC1AX**
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Vanadium	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1A0
		Dilution Factor: 1				
		Analysis Time..: 11:06				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	20.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1A1

Dilution Factor: 1
Analysis Time..: 11:06

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2J220000-322 **Prep Batch #...:** 2295322					
Mercury	105	(90 - 110)	SW846 7470A	10/23/02	FAHMG1AC
		Dilution Factor: 1	Analysis Time..: 13:39		
LCS Lot-Sample#: H2J230000-221 **Prep Batch #...:** 2296221					
Aluminum	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A2
		Dilution Factor: 1	Analysis Time..: 11:11		
Antimony	99	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A3
		Dilution Factor: 1	Analysis Time..: 11:11		
Arsenic	99	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A4
		Dilution Factor: 1	Analysis Time..: 11:11		
Barium	97	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A5
		Dilution Factor: 1	Analysis Time..: 11:11		
Beryllium	103	(90 - 115)	SW846 6010B	10/24-10/25/02	FAKGC1A6
		Dilution Factor: 1	Analysis Time..: 11:11		
Cadmium	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A7
		Dilution Factor: 1	Analysis Time..: 11:11		
Calcium	99	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A8
		Dilution Factor: 1	Analysis Time..: 11:11		
Chromium	99	(89 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A9
		Dilution Factor: 1	Analysis Time..: 11:11		
Cobalt	100	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CA
		Dilution Factor: 1	Analysis Time..: 11:11		
Copper	97	(88 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CC
		Dilution Factor: 1	Analysis Time..: 11:11		
Iron	96	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CD
		Dilution Factor: 1	Analysis Time..: 11:11		
Lead	99	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CE
		Dilution Factor: 1	Analysis Time..: 11:11		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	97	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CF
		Dilution Factor: 1	Analysis Time..: 11:11		
Manganese	100	(90 - 111)	SW846 6010B	10/24-10/25/02	FAKGC1CG
		Dilution Factor: 1	Analysis Time..: 11:11		
Nickel	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CH
		Dilution Factor: 1	Analysis Time..: 11:11		
Potassium	94	(89 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CJ
		Dilution Factor: 1	Analysis Time..: 11:11		
Selenium	101	(90 - 114)	SW846 6010B	10/24-10/25/02	FAKGC1CK
		Dilution Factor: 1	Analysis Time..: 11:11		
Silver	96	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CL
		Dilution Factor: 1	Analysis Time..: 11:11		
Sodium	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CM
		Dilution Factor: 1	Analysis Time..: 11:11		
Thallium	100	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CN
		Dilution Factor: 1	Analysis Time..: 11:11		
Vanadium	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CP
		Dilution Factor: 1	Analysis Time..: 11:11		
Zinc	104	(90 - 115)	SW846 6010B	10/24-10/25/02	FAKGC1CQ
		Dilution Factor: 1	Analysis Time..: 11:11		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2J220000-322 **Prep Batch #...:** 2295322							
Mercury	5.00	5.26	ug/L	105	SW846 7470A	10/23/02	FAHMG1AC
			Dilution Factor: 1		Analysis Time..: 13:39		
LCS Lot-Sample#: H2J230000-221 **Prep Batch #...:** 2296221							
Aluminum	2000	1950	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1A2
			Dilution Factor: 1		Analysis Time..: 11:11		
Antimony	500	494	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1A3
			Dilution Factor: 1		Analysis Time..: 11:11		
Arsenic	2000	1980	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1A4
			Dilution Factor: 1		Analysis Time..: 11:11		
Barium	2000	1930	ug/L	97	SW846 6010B	10/24-10/25/02	FAKGC1A5
			Dilution Factor: 1		Analysis Time..: 11:11		
Beryllium	50.0	51.7	ug/L	103	SW846 6010B	10/24-10/25/02	FAKGC1A6
			Dilution Factor: 1		Analysis Time..: 11:11		
Cadmium	50.0	48.9	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1A7
			Dilution Factor: 1		Analysis Time..: 11:11		
Calcium	50000	49700	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1A8
			Dilution Factor: 1		Analysis Time..: 11:11		
Chromium	200	198	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1A9
			Dilution Factor: 1		Analysis Time..: 11:11		
Cobalt	500	499	ug/L	100	SW846 6010B	10/24-10/25/02	FAKGC1CA
			Dilution Factor: 1		Analysis Time..: 11:11		
Copper	250	243	ug/L	97	SW846 6010B	10/24-10/25/02	FAKGC1CC
			Dilution Factor: 1		Analysis Time..: 11:11		
Iron	1000	960	ug/L	96	SW846 6010B	10/24-10/25/02	FAKGC1CD
			Dilution Factor: 1		Analysis Time..: 11:11		
Lead	500	494	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1CE
			Dilution Factor: 1		Analysis Time..: 11:11		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	50000	48700	ug/L	97	SW846 6010B	10/24-10/25/02	FAKGC1CF
			Dilution Factor: 1		Analysis Time..: 11:11		
Manganese	500	498	ug/L	100	SW846 6010B	10/24-10/25/02	FAKGC1CG
			Dilution Factor: 1		Analysis Time..: 11:11		
Nickel	500	489	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1CH
			Dilution Factor: 1		Analysis Time..: 11:11		
Potassium	50000	46800	ug/L	94	SW846 6010B	10/24-10/25/02	FAKGC1CJ
			Dilution Factor: 1		Analysis Time..: 11:11		
Selenium	2000	2010	ug/L	101	SW846 6010B	10/24-10/25/02	FAKGC1CK
			Dilution Factor: 1		Analysis Time..: 11:11		
Silver	50.0	47.8	ug/L	96	SW846 6010B	10/24-10/25/02	FAKGC1CL
			Dilution Factor: 1		Analysis Time..: 11:11		
Sodium	50000	49100	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1CM
			Dilution Factor: 1		Analysis Time..: 11:11		
Thallium	2000	1990	ug/L	100	SW846 6010B	10/24-10/25/02	FAKGC1CN
			Dilution Factor: 1		Analysis Time..: 11:11		
Vanadium	500	489	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1CP
			Dilution Factor: 1		Analysis Time..: 11:11		
Zinc	500	521	ug/L	104	SW846 6010B	10/24-10/25/02	FAKGC1CQ
			Dilution Factor: 1		Analysis Time..: 11:11		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/16/02 **Date Received..:** 10/17/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J170146-003 **Prep Batch #...:** 2295322							
Mercury	99	(73 - 125)			SW846 7470A	10/23/02	E97AD1DJ
	97	(73 - 125)	1.4	(0-20)	SW846 7470A	10/23/02	E97AD1DK

Dilution Factor: 1
Analysis Time..: 13:56

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/16/02 **Date Received..:** 10/17/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J170146-003 **Prep Batch #...:** 2295322									
Mercury									
	ND	1.00	0.986	ug/L	99		SW846 7470A	10/23/02	E97AD1DJ
	ND	1.00	0.972	ug/L	97	1.4	SW846 7470A	10/23/02	E97AD1DK

Dilution Factor: 1
Analysis Time..: 13:56

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J180210-001 **Prep Batch #...:** 2296221							
Aluminum	97	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061AM
	100	(75 - 125)	2.9	(0-20)	SW846 6010B	10/24-10/25/02	FAA061AN
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Antimony	99	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061AQ
	101	(75 - 125)	2.4	(0-20)	SW846 6010B	10/24-10/25/02	FAA061AR
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Arsenic	98	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061AU
	101	(75 - 125)	2.9	(0-20)	SW846 6010B	10/24-10/25/02	FAA061AV
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Barium	94	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061AX
	98	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061A0
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Beryllium	98	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061A2
	102	(75 - 125)	3.3	(0-20)	SW846 6010B	10/24-10/25/02	FAA061A3
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Cadmium	93	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061A5
	95	(75 - 125)	3.0	(0-20)	SW846 6010B	10/24-10/25/02	FAA061A6
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Calcium	78	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061A8
	90	(75 - 125)	2.6	(0-20)	SW846 6010B	10/24-10/25/02	FAA061A9
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Chromium	93	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CC
	96	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CD
		Dilution Factor: 1					
		Analysis Time..: 13:16					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	95	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CF
	98	(75 - 125)	3.1	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CG
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Copper	95	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CJ
	98	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CK
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Iron	92	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CM
	95	(75 - 125)	2.3	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CN
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Lead	94	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CQ
	97	(75 - 125)	3.1	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CR
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Magnesium	93	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CU
	100	(75 - 125)	2.8	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CV
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Manganese	95	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CX
	98	(75 - 125)	3.0	(0-20)	SW846 6010B	10/24-10/25/02	FAA061C0
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Nickel	92	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061C2
	95	(75 - 125)	3.0	(0-20)	SW846 6010B	10/24-10/25/02	FAA061C3
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Potassium	102	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061C5
	107	(75 - 125)	3.3	(0-20)	SW846 6010B	10/24-10/25/02	FAA061C6
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Selenium	91	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061C8
	94	(75 - 125)	3.3	(0-20)	SW846 6010B	10/24-10/25/02	FAA061C9
		Dilution Factor: 1					
		Analysis Time..: 13:16					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	95	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DC
	98	(75 - 125)	2.9	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DD
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Sodium	89	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DF
	101	(75 - 125)	2.7	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DG
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Thallium	96	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DJ
	99	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DK
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Vanadium	94	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DM
	97	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DN
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Zinc	102	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DQ
	105	(75 - 125)	3.1	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DR
		Dilution Factor: 1					
		Analysis Time..: 13:16					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J180210-001 **Prep Batch #...:** 2296221									
Aluminum									
	79.7	2000	2010	ug/L	97		SW846 6010B	10/24-10/25/02	FAA061AM
	79.7	2000	2070	ug/L	100	2.9	SW846 6010B	10/24-10/25/02	FAA061AN
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Antimony									
	ND	500	495	ug/L	99		SW846 6010B	10/24-10/25/02	FAA061AQ
	ND	500	507	ug/L	101	2.4	SW846 6010B	10/24-10/25/02	FAA061AR
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Arsenic									
	ND	2000	1970	ug/L	98		SW846 6010B	10/24-10/25/02	FAA061AU
	ND	2000	2020	ug/L	101	2.9	SW846 6010B	10/24-10/25/02	FAA061AV
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Barium									
	277	2000	2160	ug/L	94		SW846 6010B	10/24-10/25/02	FAA061AX
	277	2000	2230	ug/L	98	3.2	SW846 6010B	10/24-10/25/02	FAA061A0
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Beryllium									
	ND	50.0	49.1	ug/L	98		SW846 6010B	10/24-10/25/02	FAA061A2
	ND	50.0	50.8	ug/L	102	3.3	SW846 6010B	10/24-10/25/02	FAA061A3
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Cadmium									
	ND	50.0	46.3	ug/L	93		SW846 6010B	10/24-10/25/02	FAA061A5
	ND	50.0	47.7	ug/L	95	3.0	SW846 6010B	10/24-10/25/02	FAA061A6
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Calcium									
	200000	50000	238000	ug/L	78		SW846 6010B	10/24-10/25/02	FAA061A8
	200000	50000	245000	ug/L	90	2.6	SW846 6010B	10/24-10/25/02	FAA061A9
			Dilution Factor: 1						
			Analysis Time..: 13:16						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	ND	200	187	ug/L	93		SW846 6010B	10/24-10/25/02	FAA061CC
	ND	200	193	ug/L	96	3.2	SW846 6010B	10/24-10/25/02	FAA061CD
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Cobalt									
	ND	500	474	ug/L	95		SW846 6010B	10/24-10/25/02	FAA061CF
	ND	500	489	ug/L	98	3.1	SW846 6010B	10/24-10/25/02	FAA061CG
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Copper									
	ND	250	236	ug/L	95		SW846 6010B	10/24-10/25/02	FAA061CJ
	ND	250	244	ug/L	98	3.2	SW846 6010B	10/24-10/25/02	FAA061CK
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Iron									
	207	1000	1130	ug/L	92		SW846 6010B	10/24-10/25/02	FAA061CM
	207	1000	1150	ug/L	95	2.3	SW846 6010B	10/24-10/25/02	FAA061CN
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Lead									
	ND	500	469	ug/L	94		SW846 6010B	10/24-10/25/02	FAA061CQ
	ND	500	484	ug/L	97	3.1	SW846 6010B	10/24-10/25/02	FAA061CR
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Magnesium									
	80200	50000	127000	ug/L	93		SW846 6010B	10/24-10/25/02	FAA061CU
	80200	50000	130000	ug/L	100	2.8	SW846 6010B	10/24-10/25/02	FAA061CV
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Manganese									
	86.5	500	560	ug/L	95		SW846 6010B	10/24-10/25/02	FAA061CX
	86.5	500	577	ug/L	98	3.0	SW846 6010B	10/24-10/25/02	FAA061C0
			Dilution Factor: 1						
			Analysis Time..: 13:16						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	ND	500	462	ug/L	92		SW846 6010B	10/24-10/25/02	FAA061C2
	ND	500	476	ug/L	95	3.0	SW846 6010B	10/24-10/25/02	FAA061C3
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Potassium									
	16200	50000	67400	ug/L	102		SW846 6010B	10/24-10/25/02	FAA061C5
	16200	50000	69600	ug/L	107	3.3	SW846 6010B	10/24-10/25/02	FAA061C6
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Selenium									
	ND	2000	1810	ug/L	91		SW846 6010B	10/24-10/25/02	FAA061C8
	ND	2000	1870	ug/L	94	3.3	SW846 6010B	10/24-10/25/02	FAA061C9
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Silver									
	ND	50.0	47.4	ug/L	95		SW846 6010B	10/24-10/25/02	FAA061DC
	ND	50.0	48.9	ug/L	98	2.9	SW846 6010B	10/24-10/25/02	FAA061DD
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Sodium									
	187000	50000	231000	ug/L	89		SW846 6010B	10/24-10/25/02	FAA061DF
	187000	50000	237000	ug/L	101	2.7	SW846 6010B	10/24-10/25/02	FAA061DG
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Thallium									
	ND	2000	1920	ug/L	96		SW846 6010B	10/24-10/25/02	FAA061DJ
	ND	2000	1980	ug/L	99	3.2	SW846 6010B	10/24-10/25/02	FAA061DK
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Vanadium									
	ND	500	470	ug/L	94		SW846 6010B	10/24-10/25/02	FAA061DM
	ND	500	485	ug/L	97	3.2	SW846 6010B	10/24-10/25/02	FAA061DN
			Dilution Factor: 1						
			Analysis Time..: 13:16						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	1.7	500	509	ug/L	102		SW846 6010B	10/24-10/25/02	FAA061DQ
	1.7	500	525	ug/L	105	3.1	SW846 6010B	10/24-10/25/02	FAA061DR

Dilution Factor: 1
Analysis Time..: 13:16

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2J220000-324 **Prep Batch #...:** 2295324						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FAHM11AA
		Dilution Factor: 1				
		Analysis Time..: 12:22				
MB Lot-Sample #: H2J220000-402 **Prep Batch #...:** 2295402						
Aluminum	ND	200	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AA
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Antimony	ND	60.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AC
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Arsenic	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AD
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Barium	ND	200	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AE
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Beryllium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AF
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Cadmium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AG
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Calcium	ND	5000	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AH
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Chromium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AJ
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Cobalt	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AK
		Dilution Factor: 1				
		Analysis Time..: 11:59				

(Continued on next page)

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	25.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AL
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Iron	ND	100	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AM
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Lead	ND	3.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AN
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Magnesium	ND	5000	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AP
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Manganese	ND	15.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AQ
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Nickel	ND	40.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AR
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Potassium	**88.8 B**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAH7A1AT**
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Selenium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AU
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Silver	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AV
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Sodium	ND	5000	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AW
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Thallium	**5.1 B**	**10.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAH7A1AX**
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Vanadium	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1A0
		Dilution Factor: 1				
		Analysis Time..: 11:59				

(Continued on next page)

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	**1.2 B**	**20.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAH7A1A1**

Dilution Factor: 1
Analysis Time..: 11:59

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2J220000-324 **Prep Batch #...:** 2295324					
Mercury	111 N	(90 - 110)	SW846 7470A	10/23/02	FAHM11AC
		Dilution Factor: 1	Analysis Time..: 12:24		
LCS Lot-Sample#: H2J220000-402 **Prep Batch #...:** 2295402					
Aluminum	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A2
		Dilution Factor: 1	Analysis Time..: 12:03		
Antimony	98	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A3
		Dilution Factor: 1	Analysis Time..: 12:03		
Arsenic	100	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A4
		Dilution Factor: 1	Analysis Time..: 12:03		
Barium	98	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A5
		Dilution Factor: 1	Analysis Time..: 12:03		
Beryllium	103	(90 - 115)	SW846 6010B	10/23-10/24/02	FAH7A1A6
		Dilution Factor: 1	Analysis Time..: 12:03		
Cadmium	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A7
		Dilution Factor: 1	Analysis Time..: 12:03		
Calcium	100	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A8
		Dilution Factor: 1	Analysis Time..: 12:03		
Chromium	99	(89 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A9
		Dilution Factor: 1	Analysis Time..: 12:03		
Cobalt	100	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CA
		Dilution Factor: 1	Analysis Time..: 12:03		
Copper	97	(88 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CC
		Dilution Factor: 1	Analysis Time..: 12:03		
Iron	97	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CD
		Dilution Factor: 1	Analysis Time..: 12:03		
Lead	98	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CE
		Dilution Factor: 1	Analysis Time..: 12:03		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CF
		Dilution Factor: 1	Analysis Time..: 12:03		
Manganese	100	(90 - 111)	SW846 6010B	10/23-10/24/02	FAH7A1CG
		Dilution Factor: 1	Analysis Time..: 12:03		
Nickel	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CH
		Dilution Factor: 1	Analysis Time..: 12:03		
Potassium	96	(89 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CJ
		Dilution Factor: 1	Analysis Time..: 12:03		
Selenium	101	(90 - 114)	SW846 6010B	10/23-10/24/02	FAH7A1CK
		Dilution Factor: 1	Analysis Time..: 12:03		
Silver	96	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CL
		Dilution Factor: 1	Analysis Time..: 12:03		
Sodium	98	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CM
		Dilution Factor: 1	Analysis Time..: 12:03		
Thallium	100	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CN
		Dilution Factor: 1	Analysis Time..: 12:03		
Vanadium	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CP
		Dilution Factor: 1	Analysis Time..: 12:03		
Zinc	105	(90 - 115)	SW846 6010B	10/23-10/24/02	FAH7A1CQ
		Dilution Factor: 1	Analysis Time..: 12:03		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2J220000-324 **Prep Batch #...:** 2295324							
Mercury	5.00	5.55 N	ug/L	111	SW846 7470A	10/23/02	FAHM11AC
			Dilution Factor: 1		Analysis Time..: 12:24		
LCS Lot-Sample#: H2J220000-402 **Prep Batch #...:** 2295402							
Aluminum	2000	1980	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1A2
			Dilution Factor: 1		Analysis Time..: 12:03		
Antimony	500	492	ug/L	98	SW846 6010B	10/23-10/24/02	FAH7A1A3
			Dilution Factor: 1		Analysis Time..: 12:03		
Arsenic	2000	1990	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1A4
			Dilution Factor: 1		Analysis Time..: 12:03		
Barium	2000	1950	ug/L	98	SW846 6010B	10/23-10/24/02	FAH7A1A5
			Dilution Factor: 1		Analysis Time..: 12:03		
Beryllium	50.0	51.6	ug/L	103	SW846 6010B	10/23-10/24/02	FAH7A1A6
			Dilution Factor: 1		Analysis Time..: 12:03		
Cadmium	50.0	49.6	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1A7
			Dilution Factor: 1		Analysis Time..: 12:03		
Calcium	50000	49800	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1A8
			Dilution Factor: 1		Analysis Time..: 12:03		
Chromium	200	198	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1A9
			Dilution Factor: 1		Analysis Time..: 12:03		
Cobalt	500	500	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1CA
			Dilution Factor: 1		Analysis Time..: 12:03		
Copper	250	242	ug/L	97	SW846 6010B	10/23-10/24/02	FAH7A1CC
			Dilution Factor: 1		Analysis Time..: 12:03		
Iron	1000	974	ug/L	97	SW846 6010B	10/23-10/24/02	FAH7A1CD
			Dilution Factor: 1		Analysis Time..: 12:03		
Lead	500	492	ug/L	98	SW846 6010B	10/23-10/24/02	FAH7A1CE
			Dilution Factor: 1		Analysis Time..: 12:03		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	50000	49300	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1CF
			Dilution Factor: 1		Analysis Time..: 12:03		
Manganese	500	499	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1CG
			Dilution Factor: 1		Analysis Time..: 12:03		
Nickel	500	496	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1CH
			Dilution Factor: 1		Analysis Time..: 12:03		
Potassium	50000	47800	ug/L	96	SW846 6010B	10/23-10/24/02	FAH7A1CJ
			Dilution Factor: 1		Analysis Time..: 12:03		
Selenium	2000	2030	ug/L	101	SW846 6010B	10/23-10/24/02	FAH7A1CK
			Dilution Factor: 1		Analysis Time..: 12:03		
Silver	50.0	48.0	ug/L	96	SW846 6010B	10/23-10/24/02	FAH7A1CL
			Dilution Factor: 1		Analysis Time..: 12:03		
Sodium	50000	49100	ug/L	98	SW846 6010B	10/23-10/24/02	FAH7A1CM
			Dilution Factor: 1		Analysis Time..: 12:03		
Thallium	2000	1990	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1CN
			Dilution Factor: 1		Analysis Time..: 12:03		
Vanadium	500	493	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1CP
			Dilution Factor: 1		Analysis Time..: 12:03		
Zinc	500	525	ug/L	105	SW846 6010B	10/23-10/24/02	FAH7A1CQ
			Dilution Factor: 1		Analysis Time..: 12:03		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J180210-002 **Prep Batch #...:** 2295324							
Mercury	100	(73 - 125)			SW846 7470A	10/23/02	FAA161DJ
	95	(73 - 125)	5.0	(0-20)	SW846 7470A	10/23/02	FAA161DK
		Dilution Factor: 1					
		Analysis Time..: 12:34					
MS Lot-Sample #: H2J180210-002 **Prep Batch #...:** 2295402							
Aluminum	102	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AC
	101	(75 - 125)	0.89	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AD
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Antimony	102	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AF
	99	(75 - 125)	2.8	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AG
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Arsenic	101	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AJ
	100	(75 - 125)	1.6	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AK
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Barium	99	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AM
	97	(75 - 125)	1.2	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AN
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Beryllium	102	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AQ
	101	(75 - 125)	1.4	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AR
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Cadmium	95	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AU
	95	(75 - 125)	0.63	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AV
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Calcium	104	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AX
	95	(75 - 125)	1.7	(0-20)	SW846 6010B	10/23-10/24/02	FAA161A0
		Dilution Factor: 1					
		Analysis Time..: 13:42					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	98	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161A2
	97	(75 - 125)	1.3	(0-20)	SW846 6010B	10/23-10/24/02	FAA161A3
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Cobalt	99	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161A5
	98	(75 - 125)	1.3	(0-20)	SW846 6010B	10/23-10/24/02	FAA161A6
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Copper	100	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161A8
	99	(75 - 125)	1.7	(0-20)	SW846 6010B	10/23-10/24/02	FAA161A9
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Iron	98	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CC
	95	(75 - 125)	2.6	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CD
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Lead	97	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CF
	95	(75 - 125)	1.6	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CG
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Magnesium	107	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CJ
	102	(75 - 125)	1.9	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CK
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Manganese	100	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CM
	98	(75 - 125)	1.4	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CN
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Nickel	95	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CQ
	94	(75 - 125)	0.72	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CR
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Potassium	112	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CU
	108	(75 - 125)	2.4	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CV
		Dilution Factor: 1					
		Analysis Time..: 13:42					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	98	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CX
	95	(75 - 125)	3.2	(0-20)	SW846 6010B	10/23-10/24/02	FAA161C0
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Silver	100	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161C2
	98	(75 - 125)	2.0	(0-20)	SW846 6010B	10/23-10/24/02	FAA161C3
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Sodium	113	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161C5
	100	(75 - 125)	2.7	(0-20)	SW846 6010B	10/23-10/24/02	FAA161C6
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Thallium	99	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161C8
	98	(75 - 125)	1.3	(0-20)	SW846 6010B	10/23-10/24/02	FAA161C9
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Vanadium	99	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161DC
	98	(75 - 125)	1.1	(0-20)	SW846 6010B	10/23-10/24/02	FAA161DD
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Zinc	105	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161DF
	103	(75 - 125)	1.5	(0-20)	SW846 6010B	10/23-10/24/02	FAA161DG
		Dilution Factor: 1					
		Analysis Time..: 13:42					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J180210-002 **Prep Batch #...:** 2295324									
Mercury									
	ND	1.00	1.00	ug/L	100		SW846 7470A	10/23/02	FAA161DJ
	ND	1.00	0.951	ug/L	95	5.0	SW846 7470A	10/23/02	FAA161DK
			Dilution Factor: 1						
			Analysis Time..: 12:34						
MS Lot-Sample #: H2J180210-002 **Prep Batch #...:** 2295402									
Aluminum									
	69.8	2000	2110	ug/L	102		SW846 6010B	10/23-10/24/02	FAA161AC
	69.8	2000	2100	ug/L	101	0.89	SW846 6010B	10/23-10/24/02	FAA161AD
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Antimony									
	ND	500	508	ug/L	102		SW846 6010B	10/23-10/24/02	FAA161AF
	ND	500	494	ug/L	99	2.8	SW846 6010B	10/23-10/24/02	FAA161AG
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Arsenic									
	ND	2000	2020	ug/L	101		SW846 6010B	10/23-10/24/02	FAA161AJ
	ND	2000	1990	ug/L	100	1.6	SW846 6010B	10/23-10/24/02	FAA161AK
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Barium									
	270	2000	2240	ug/L	99		SW846 6010B	10/23-10/24/02	FAA161AM
	270	2000	2220	ug/L	97	1.2	SW846 6010B	10/23-10/24/02	FAA161AN
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Beryllium									
	ND	50.0	51.0	ug/L	102		SW846 6010B	10/23-10/24/02	FAA161AQ
	ND	50.0	50.4	ug/L	101	1.4	SW846 6010B	10/23-10/24/02	FAA161AR
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Cadmium									
	ND	50.0	47.7	ug/L	95		SW846 6010B	10/23-10/24/02	FAA161AU
	ND	50.0	47.4	ug/L	95	0.63	SW846 6010B	10/23-10/24/02	FAA161AV
			Dilution Factor: 1						
			Analysis Time..: 13:42						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium									
	198000	50000	249000	ug/L	104		SW846 6010B	10/23-10/24/02	FAA161AX
	198000	50000	245000	ug/L	95	1.7	SW846 6010B	10/23-10/24/02	FAA161A0
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Chromium									
	ND	200	196	ug/L	98		SW846 6010B	10/23-10/24/02	FAA161A2
	ND	200	193	ug/L	97	1.3	SW846 6010B	10/23-10/24/02	FAA161A3
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Cobalt									
	ND	500	497	ug/L	99		SW846 6010B	10/23-10/24/02	FAA161A5
	ND	500	490	ug/L	98	1.3	SW846 6010B	10/23-10/24/02	FAA161A6
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Copper									
	ND	250	251	ug/L	100		SW846 6010B	10/23-10/24/02	FAA161A8
	ND	250	247	ug/L	99	1.7	SW846 6010B	10/23-10/24/02	FAA161A9
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Iron									
	157	1000	1130	ug/L	98		SW846 6010B	10/23-10/24/02	FAA161CC
	157	1000	1110	ug/L	95	2.6	SW846 6010B	10/23-10/24/02	FAA161CD
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Lead									
	ND	500	483	ug/L	97		SW846 6010B	10/23-10/24/02	FAA161CF
	ND	500	475	ug/L	95	1.6	SW846 6010B	10/23-10/24/02	FAA161CG
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Magnesium									
	78600	50000	132000	ug/L	107		SW846 6010B	10/23-10/24/02	FAA161CJ
	78600	50000	130000	ug/L	102	1.9	SW846 6010B	10/23-10/24/02	FAA161CK
			Dilution Factor: 1						
			Analysis Time..: 13:42						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese									
	84.2	500	582	ug/L	100		SW846 6010B	10/23-10/24/02	FAA161CM
	84.2	500	574	ug/L	98	1.4	SW846 6010B	10/23-10/24/02	FAA161CN
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Nickel									
	ND	500	473	ug/L	95		SW846 6010B	10/23-10/24/02	FAA161CQ
	ND	500	469	ug/L	94	0.72	SW846 6010B	10/23-10/24/02	FAA161CR
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Potassium									
	15900	50000	71800	ug/L	112		SW846 6010B	10/23-10/24/02	FAA161CU
	15900	50000	70100	ug/L	108	2.4	SW846 6010B	10/23-10/24/02	FAA161CV
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Selenium									
	ND	2000	1960	ug/L	98		SW846 6010B	10/23-10/24/02	FAA161CX
	ND	2000	1900	ug/L	95	3.2	SW846 6010B	10/23-10/24/02	FAA161C0
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Silver									
	ND	50.0	50.2	ug/L	100		SW846 6010B	10/23-10/24/02	FAA161C2
	ND	50.0	49.2	ug/L	98	2.0	SW846 6010B	10/23-10/24/02	FAA161C3
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Sodium									
	180000	50000	236000	ug/L	113		SW846 6010B	10/23-10/24/02	FAA161C5
	180000	50000	230000	ug/L	100	2.7	SW846 6010B	10/23-10/24/02	FAA161C6
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Thallium									
	ND	2000	1980	ug/L	99		SW846 6010B	10/23-10/24/02	FAA161C8
	ND	2000	1960	ug/L	98	1.3	SW846 6010B	10/23-10/24/02	FAA161C9
			Dilution Factor: 1						
			Analysis Time..: 13:42						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium									
	ND	500	494	ug/L	99		SW846 6010B	10/23-10/24/02	FAA161DC
	ND	500	489	ug/L	98	1.1	SW846 6010B	10/23-10/24/02	FAA161DD
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Zinc									
	1.5	500	525	ug/L	105		SW846 6010B	10/23-10/24/02	FAA161DF
	1.5	500	517	ug/L	103	1.5	SW846 6010B	10/23-10/24/02	FAA161DG
			Dilution Factor: 1						
			Analysis Time..: 13:42						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3009

General Chemistry

Lot-Sample #...: H2J190106-001 **Work Order #...:** FADHX **Matrix.....:** WATER
Date Sampled...: 10/18/02 **Date Received..:** 10/19/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**206**	**5.0**	**mg/L**	**MCAWW 325.2**	**10/23/02**	**2296524**
	Dilution Factor: 5		MDL.....: 1.5			
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	10/30/02	2303470
	Dilution Factor: 1		MDL.....: 0.0030			
Hardness, as CaCO3	**1660**	**50.0**	**mg/L**	**MCAWW 130.2**	**10/31/02**	**2304543**
	Dilution Factor: 10		MDL.....: 21.0			
Nitrate	ND	0.10	mg/L	MCAWW 353.2	10/19/02	2293168
	Dilution Factor: 1		MDL.....: 0.016			
Sulfate	**1110**	**250**	**mg/L**	**MCAWW 375.4**	**10/23/02**	**2296525**
	Dilution Factor: 50		MDL.....: 9.0			
Total Alkalinity	**493**	**5.0**	**mg/L**	**MCAWW 310.1**	**10/19/02**	**2293172**
	Dilution Factor: 1		MDL.....: 1.3			
Total Dissolved Solids	**2210**	**20.0**	**mg/L**	**MCAWW 160.1**	**10/20-10/21/02**	**2293094**
	Dilution Factor: 2		MDL.....: 8.6			
Total Organic Carbon	**2.6**	**1.0**	**mg/L**	**SW846 9060**	**10/26/02**	**2300130**
	Dilution Factor: 1		MDL.....: 0.68			
Total Suspended Solids	**65.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**10/20/02**	**2293093**
	Dilution Factor: 1		MDL.....: 2.8			
Turbidity	**67.4**	**1.0**	**NTU**	**MCAWW 180.1**	**10/19/02**	**2293175**
	Dilution Factor: 2		MDL.....: 1.0			

SHAW E & I INC

Client Sample ID: CD3001

General Chemistry

Lot-Sample #...: H2J190106-002 Work Order #...: FADH1 Matrix.....: WATER
Date Sampled...: 10/18/02 Date Received..: 10/19/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**999**	**20.0**	**mg/L**	**MCAWW 325.2**	**10/23/02**	**2296524**
	Dilution Factor: 20		MDL.....: 6.0			
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	10/30/02	2303472
	Dilution Factor: 1		MDL.....: 0.0030			
Hardness, as CaCO3	**687**	**25.0**	**mg/L**	**MCAWW 130.2**	**10/31/02**	**2304543**
	Dilution Factor: 5		MDL.....: 10.5			
Nitrate	ND	0.10	mg/L	MCAWW 353.2	10/19/02	2293168
	Dilution Factor: 1		MDL.....: 0.016			
Sulfate	**11.2**	**5.0**	**mg/L**	**MCAWW 375.4**	**10/23/02**	**2296525**
	Dilution Factor: 1		MDL.....: 0.18			
Total Alkalinity	**332**	**5.0**	**mg/L**	**MCAWW 310.1**	**10/19/02**	**2293172**
	Dilution Factor: 1		MDL.....: 1.3			
Total Dissolved Solids	**1870**	**40.0**	**mg/L**	**MCAWW 160.1**	**10/20-10/21/02**	**2293094**
	Dilution Factor: 4		MDL.....: 17.2			
Total Organic Carbon	**1.3**	**1.0**	**mg/L**	**SW846 9060**	**10/26/02**	**2300130**
	Dilution Factor: 1		MDL.....: 0.68			
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	10/20/02	2293093
	Dilution Factor: 1		MDL.....: 2.8			
Turbidity	**44.2**	**1.0**	**NTU**	**MCAWW 180.1**	**10/19/02**	**2293175**
	Dilution Factor: 2		MDL.....: 1.0			

METHOD BLANK REPORT

General Chemistry

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: FALX11AA		MB Lot-Sample #:	A2J230000-524	
	ND	1.0	mg/L	MCAWW 325.2	10/23/02	2296524
		Dilution Factor: 1				
Cyanide, Total		Work Order #: FA4KG1AA		MB Lot-Sample #:	H2J300000-470	
	ND	0.010	mg/L	SW846 9012A	10/30/02	2303470
		Dilution Factor: 1				
Cyanide, Total		Work Order #: FA4KQ1AA		MB Lot-Sample #:	H2J300000-472	
	ND	0.010	mg/L	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: FA7EK1AA		MB Lot-Sample #:	A2J310000-543	
	ND	5.0	mg/L	MCAWW 130.2	10/31/02	2304543
		Dilution Factor: 1				
Nitrate		Work Order #: FAE3Q1AA		MB Lot-Sample #:	A2J200000-168	
	ND	0.10	mg/L	MCAWW 353.2	10/19/02	2293168
		Dilution Factor: 1				
Sulfate		Work Order #: FALWW1AA		MB Lot-Sample #:	A2J230000-525	
	ND	5.0	mg/L	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1				
Total Alkalinity		Work Order #: FAE3H1AA		MB Lot-Sample #:	A2J200000-172	
	ND	5.0	mg/L	MCAWW 310.1	10/19/02	2293172
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: FAF3R1AA		MB Lot-Sample #:	A2J200000-094	
	ND	10.0	mg/L	MCAWW 160.1	10/20-10/21/02	2293094
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: FAWAJ1AA		MB Lot-Sample #:	A2J270000-130	
	ND	1.0	mg/L	SW846 9060	10/25/02	2300130
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: FAE251AA		MB Lot-Sample #:	A2J200000-093	
	ND	4.0	mg/L	MCAWW 160.2	10/20/02	2293093
		Dilution Factor: 1				

(Continued on next page)

METHOD BLANK REPORT

General Chemistry

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity		Work Order #: FAE3G1AA		MB Lot-Sample #:	A2J200000-175	
	ND	0.50	NTU	MCAWW 180.1	10/19/02	2293175
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: FALX11AC	LCS Lot-Sample#: A2J230000-524		
	97	(90 - 115)	MCAWW 325.2	10/23/02	2296524
		Dilution Factor: 1			
Cyanide, Total		Work Order #: FA4KG1AC	LCS Lot-Sample#: H2J300000-470		
	96	(88 - 113)	SW846 9012A	10/30/02	2303470
		Dilution Factor: 1			
Cyanide, Total		Work Order #: FA4KQ1AC	LCS Lot-Sample#: H2J300000-472		
	107	(88 - 113)	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: FA7EK1AC	LCS Lot-Sample#: A2J310000-543		
	98	(84 - 116)	MCAWW 130.2	10/31/02	2304543
		Dilution Factor: 1			
Nitrate		Work Order #: FAE3Q1AC	LCS Lot-Sample#: A2J200000-168		
	100	(77 - 116)	MCAWW 353.2	10/19/02	2293168
		Dilution Factor: 1			
Sulfate		Work Order #: FALWW1AC	LCS Lot-Sample#: A2J230000-525		
	104	(80 - 112)	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1			
Total Alkalinity		Work Order #: FAE3H1AC	LCS Lot-Sample#: A2J200000-172		
	98	(90 - 127)	MCAWW 310.1	10/19/02	2293172
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: FAF3R1AC	LCS Lot-Sample#: A2J200000-094		
	99	(69 - 120)	MCAWW 160.1	10/20-10/21/02	2293094
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: FAWAJ1AC	LCS Lot-Sample#: A2J270000-130		
	97	(88 - 115)	SW846 9060	10/25/02	2300130
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: FAE251AC	LCS Lot-Sample#: A2J200000-093		
	93	(66 - 119)	MCAWW 160.2	10/20/02	2293093
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity		Work Order #: FAE3G1AC	LCS Lot-Sample#: A2J200000-175		
	102	(75 - 125)	MCAWW 180.1	10/19/02	2293175

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			Work Order #:	FALX11AC	LCS Lot-Sample#:	A2J230000-524	
	233	225	mg/L	97	MCAWW 325.2	10/23/02	2296524
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	FA4KG1AC	LCS Lot-Sample#:	H2J300000-470	
	0.200	0.193	mg/L	96	SW846 9012A	10/30/02	2303470
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	FA4KQ1AC	LCS Lot-Sample#:	H2J300000-472	
	0.200	0.214	mg/L	107	SW846 9012A	10/30/02	2303472
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #:	FA7EK1AC	LCS Lot-Sample#:	A2J310000-543	
	99.1	97.0	mg/L	98	MCAWW 130.2	10/31/02	2304543
			Dilution Factor: 1				
Nitrate			Work Order #:	FAE3Q1AC	LCS Lot-Sample#:	A2J200000-168	
	1.00	1.00	mg/L	100	MCAWW 353.2	10/19/02	2293168
			Dilution Factor: 1				
Sulfate			Work Order #:	FALWW1AC	LCS Lot-Sample#:	A2J230000-525	
	58.5	60.9	mg/L	104	MCAWW 375.4	10/23/02	2296525
			Dilution Factor: 1				
Total Alkalinity			Work Order #:	FAE3H1AC	LCS Lot-Sample#:	A2J200000-172	
	98.9	97.4	mg/L	98	MCAWW 310.1	10/19/02	2293172
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #:	FAF3R1AC	LCS Lot-Sample#:	A2J200000-094	
	314	312	mg/L	99	MCAWW 160.1	10/20-10/21/02	2293094
			Dilution Factor: 1				
Total Organic Carbon			Work Order #:	FAWAJ1AC	LCS Lot-Sample#:	A2J270000-130	
	59.0	57.0	mg/L	97	SW846 9060	10/25/02	2300130
			Dilution Factor: 1				
Total Suspended Solids			Work Order #:	FAE251AC	LCS Lot-Sample#:	A2J200000-093	
	44.1	41.0	mg/L	93	MCAWW 160.2	10/20/02	2293093
			Dilution Factor: 1				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2J190106 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity			Work Order #:	FAE3G1AC	LCS Lot-Sample#:	A2J200000-175	
	1.00	1.02	NTU	102	MCAWW 180.1	10/19/02	2293175
			Dilution Factor: 1				

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		WO#:	FAA061EC-MS/FAA061ED-MSD			MS Lot-Sample #:	H2J180210-001
	NC,MSB	(43 - 167)			MCAWW 325.2	10/23/02	2296524
	NC,MSB	(43 - 167)		(0-23)	MCAWW 325.2	10/23/02	2296524
		Dilution Factor: 1					
Cyanide, Total		WO#:	FAA061DX-MS/FAA061D0-MSD			MS Lot-Sample #:	H2J180210-001
	87	(77 - 126)			SW846 9012A	10/30/02	2303472
	82	(77 - 126)	6.5	(0-20)	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1					
Cyanide, Total		WO#:	FAA2D1CH-MS/FAA2D1CJ-MSD			MS Lot-Sample #:	H2J180210-006
	96	(77 - 126)			SW846 9012A	10/30/02	2303470
	94	(77 - 126)	2.6	(0-20)	SW846 9012A	10/30/02	2303470
		Dilution Factor: 1					
Hardness, as CaCO3		WO#:	FAA2D1CK-MS/FAA2D1CL-MSD			MS Lot-Sample #:	H2J180210-006
	55	(10 - 176)			MCAWW 130.2	10/31/02	2304543
	54	(10 - 176)	0.68	(0-23)	MCAWW 130.2	10/31/02	2304543
		Dilution Factor: 1					
Nitrate		WO#:	FADH11CL-MS/FADH11CM-MSD			MS Lot-Sample #:	H2J190106-002
	70	(10 - 163)			MCAWW 353.2	10/19/02	2293168
	71	(10 - 163)	0.74	(0-24)	MCAWW 353.2	10/19/02	2293168
		Dilution Factor: 1					
Sulfate		WO#:	FAA061EJ-MS/FAA061EK-MSD			MS Lot-Sample #:	H2J180210-001
	94	(22 - 151)			MCAWW 375.4	10/23/02	2296525
	84	(22 - 151)	2.4	(0-31)	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1					
Total Alkalinity		WO#:	FADH11CJ-MS/FADH11CK-MSD			MS Lot-Sample #:	H2J190106-002
	72	(10 - 160)			MCAWW 310.1	10/19/02	2293172
	71	(10 - 160)	0.72	(0-24)	MCAWW 310.1	10/19/02	2293172
		Dilution Factor: 1					
Total Organic Carbon		WO#:	FAA061EM-MS/FAA061EN-MSD			MS Lot-Sample #:	H2J180210-001
	89	(72 - 136)			SW846 9060	10/25/02	2300130
	91	(72 - 136)	1.5	(0-20)	SW846 9060	10/25/02	2300130
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2J190106 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			WO#: FAA061EC-MS/FAA061ED-MSD				MS Lot-Sample #: H2J180210-001		
	631	25.0	636	mg/L			MCAWW 325.2	10/23/02	2296524
			Qualifiers: NC,MSB						
	631	25.0	632	mg/L			MCAWW 325.2	10/23/02	2296524
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Cyanide, Total			WO#: FAA061DX-MS/FAA061D0-MSD				MS Lot-Sample #: H2J180210-001		
	ND	0.200	0.174	mg/L	87		SW846 9012A	10/30/02	2303472
	ND	0.200	0.163	mg/L	82	6.5	SW846 9012A	10/30/02	2303472
			Dilution Factor: 1						
Cyanide, Total			WO#: FAA2D1CH-MS/FAA2D1CJ-MSD				MS Lot-Sample #: H2J180210-006		
	ND	0.200	0.193	mg/L	96		SW846 9012A	10/30/02	2303470
	ND	0.200	0.188	mg/L	94	2.6	SW846 9012A	10/30/02	2303470
			Dilution Factor: 1						
Hardness, as CaCO3			WO#: FAA2D1CK-MS/FAA2D1CL-MSD				MS Lot-Sample #: H2J180210-006		
	9390	10000	14800	mg/L	55		MCAWW 130.2	10/31/02	2304543
	9390	10000	14700	mg/L	54	0.68	MCAWW 130.2	10/31/02	2304543
			Dilution Factor: 1						
Nitrate			WO#: FADH11CL-MS/FADH11CM-MSD				MS Lot-Sample #: H2J190106-002		
	ND	0.250	0.175	mg/L	70		MCAWW 353.2	10/19/02	2293168
	ND	0.250	0.176	mg/L	71	0.74	MCAWW 353.2	10/19/02	2293168
			Dilution Factor: 1						
Sulfate			WO#: FAA061EJ-MS/FAA061EK-MSD				MS Lot-Sample #: H2J180210-001		
	79.5	25.0	103	mg/L	94		MCAWW 375.4	10/23/02	2296525
	79.5	25.0	101	mg/L	84	2.4	MCAWW 375.4	10/23/02	2296525
			Dilution Factor: 1						
Total Alkalinity			WO#: FADH11CJ-MS/FADH11CK-MSD				MS Lot-Sample #: H2J190106-002		
	332	500	692	mg/L	72		MCAWW 310.1	10/19/02	2293172
	332	500	687	mg/L	71	0.72	MCAWW 310.1	10/19/02	2293172
			Dilution Factor: 1						
Total Organic Carbon			WO#: FAA061EM-MS/FAA061EN-MSD				MS Lot-Sample #: H2J180210-001		
	2.7	25.0	24.9	mg/L	89		SW846 9060	10/25/02	2300130
	2.7	25.0	25.3	mg/L	91	1.5	SW846 9060	10/25/02	2300130
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J190106 **Work Order #...:** E966J-SMP E966J-DUP **Matrix.....:** WATER

Date Sampled...: 10/16/02 **Date Received..:** 10/17/02

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #:	H2J170128-001	
	5.0	4.0	mg/L	22	(0-20)	MCAWW 160.2	10/20/02	2293093
		Dilution Factor: 1						
Total Dissolved Solids						SD Lot-Sample #:	H2J170128-001	
	342	346	mg/L	1.2	(0-20)	MCAWW 160.1	10/20-10/21/02	2293094
		Dilution Factor: 1						

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J190106 **Work Order #...:** FAA06-SMP FAA06-DUP **Matrix.....:** WATER

Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #:	H2J180210-001	
	ND	ND	mg/L	200	(0-20)	MCAWW 160.2	10/20/02	2293093
		Dilution Factor: 1						
Total Dissolved Solids						SD Lot-Sample #:	H2J180210-001	
	1440	1490	mg/L	3.7	(0-20)	MCAWW 160.1	10/20-10/21/02	2293094
		Dilution Factor: 2						

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J190106 **Work Order #...:** FADH1-SMP FADH1-DUP **Matrix.....:** WATER

Date Sampled...: 10/18/02 **Date Received..:** 10/19/02

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity						SD Lot-Sample #:	H2J190106-002	
	44.2	43.2	NTU	2.3	(0-20)	MCAWW 180.1	10/19/02	2293175

Dilution Factor: 2

Sample Receipt Documentation

H23190106

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB10/~~8~~02STLK

PAGE 1 OF 1

Bill To: Accounting, Shaw E & I, 312 Directors Drive, Knoxville, TN 37923

Report To: Maureen McMyler, Shaw E & I, 312 Directors Drive, Knoxville, TN 37923

Project Name/No: PBOW
Sample Team Member: Dave Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 833886.03010000
Required Report Date: Normal - 21 days

Sample Shipment Date: 10/18/02
Laboratory Destination: STL-Knoxville
Laboratory Contact: Jamie McKinney
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 836531447520

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CD3909	WATER	10/18/02 0820	1 - Amber	1 L	Cool	Explosives by 8830		
			1 - HDPE	~~500~~ mL 250	HNO3	Total Metals by 6010B/7470A PH<2		
			1 - HDPE	~~500~~ mL 250	HNO3	Dissolved Metals by 6010B/7470A ↓		
			2 - Amber	1 L	Cool	SVOCs by 8270C		
			3 - Glass	40 mL	HCL	VOCs by 8260B		
			1 - HDPE	~~500~~ mL 1000	NaOH	Cyanide by 9010A PH>12		
CD3901	WATER	10/18/02 1050	1 - Amber	1 L	Cool	Explosives by 8830		
			1 - HDPE	~~500~~ mL 250	HNO3	Total Metals by 6010B/7470A PH<2		
			1 - HDPE	~~500~~ mL 250	HNO3	Dissolved Metals by 6010B/7470A ↓		
			2 - Amber	1 L	Cool	SVOCs by 8270C	Custody seals intact	
			3 - Glass	40 mL	HCL	VOCs by 8260B	Received at 3°C	
			1 - HDPE	~~500~~ mL 1000	NaOH	Cyanide by 9010A PH>12	BKD 10-19-02	
~~CD3904~~ DKK	WATER	~~10/18/02~~ DKK	1 - Amber	1 L	Cool	Explosives by 8830	Cooler Box #	836531447520
			1 - HDPE	~~500~~ mL 250	HNO3	Total Metals by 6010B/7470A		
			1 - HDPE	~~500~~ mL 250	HNO3	Dissolved Metals by 6010B/7470A		
			2 - Amber	1 L	Cool	SVOCs by 8270C		
			3 - Glass	40 mL	HCL	VOCs by 8260B		
			1 - HDPE	~~500~~ mL 1000	NaOH	Cyanide by 9010A		
CD5006	WATER	10/18/02	2 - Glass	40 mL	Cool	VOCs by 8260B		

Special Instructions:

Possible Hazard Identification:
Non-haz: ____ Flammable: ____ Poison B: ____ Unknown: X

Sample Disposal:
Return to Client: ____ Disposal by Lab: X Archive: ____

Turnaround Time:
Normal: X Rush: ____

Level of QC Required:
Definitive: X Project Specific: ____

1. Relinquished by: David Kessler IT Corporation	Date: 10/18/02 Time: 1800	1. Received by: Bryan Dawson	Date: 10-19-02 Time: 09:00
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

STL KNOXVILLE
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 2

CLIENT: SHAW E+I PROJECT: PBOW Lot No.: H2S190106

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

1. Sample Receipt:	YES	NO	NA
a. Do sample container labels match COC? (IDs, Dates, Times)	✓		
b. Is the cooler temperature within acceptance limits?	✓		
(NOTE: North Carolina, 1668, 1613B have 0-4°C requirement)			
c. Were samples received with correct preservative (excluding Encore)?	✓		
d. Were custody seals present/intact on cooler and/or containers?	✓		
e. Were all of the samples listed on the COC received?	✓		
f. Were all of the sample containers received intact?	✓		
g. Were containers received for VOAs received without headspace?	✓	✓	
h. Were samples received in the appropriate containers?	✓		
i. Did you check for residual chlorine, if necessary?			✓
j. Were samples received within 1/2 of the holding time?	✓		
k. Were samples screened for radioactivity?			✓
l. Were client's sample documents (RFA/COC) received?	✓		
m. Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n. Are test/parameters listed for each sample?	✓		
o. Is the matrix of the samples noted?	✓		
p. Is the date/time of sample collection noted?	✓		
q. Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: [signature] DATE: 10-19-02

TO BE COMPLETED BY PROJECT MANAGER :

1. Project manager "Sample Greet":	YES	NO	NA
a. Quote number to be logged-in under 48670			
b. Informed Login associates of special instructions ?			X
2. If custody seals were missing/not intact, was client notified?			X

PROJECT MANAGER : [signature] DATE: 10/23/02

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
CD3001	8260B	3F	1 of 3

☐ Client informed on _____ by _____. Person contacted: _____.
☐ Noted actions in comments section above.
☐ No action necessary: process as is.
Project Manager: _____ Date: _____

STL KNOXVILLE
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample received with < ½ holding time remaining
	4e Sample preservative: _____
	4f Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

_____

_____

_____

SEVERN TRENT STL

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: Shaw PROJECT: PBOW Lot No.: H2J190106

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA	
1. Client Documents (Request for Analysis/Chain of Custody):				
a. Was QuanTIMS lot number documented on all paperwork?	X			
b. Was RFA/COC signed upon receipt, including date/time?	X	X		STL NC
c. Is preservative check (pH) noted on RFA/COC? gm 10/23/02		X		
d. Is cooler temperature & custody seal condition noted on COC?		X		
2. Log-in (Lot Folder) Review:	YES	NO	NA	
a. Do client IDs on Client Summaries match RFA/COC?	X			
b. Were tests/parameters assigned correctly?	X			
c. Were correct analytical and report due dates assigned?	X			
d. Has the correct fax due date been assigned to the lot?			X	
e. Is the correct report format noted in the lot summary?	X			
f. Is percent moisture logged for samples requiring this analysis?			X	
g. Are client assigned QC samples properly defined?			X	
3. Contract/Subcontract Review:	YES	NO	NA	
a. Is there a contract number or PO for this work?	X			
b If the purchase order number is given, is it noted in Lot header?	X			
c. If samples were subcontracted, was copy of COC in folder?	X			
4. SDG Review:	YES	NO	NA	
a. If SDG is required, is SDG form in Lot folder?			X	
b Is SDG number noted in Lot header & sample comments?			X	
c. If SDG is complete, has the due date been revised & marked closed?			X	
5. Checklist Review:	YES	NO	NA	
a. Has Sample Receipt Checklist been filled-out?	X			
b. Was there a CUR?			X	
c. Were all issues resolved?			X	

LOT FOLDER REVIEWED BY: gm DATE: 10/23/02

A016R8.doc, 4/13/00

Copy of COC Sent to N. Canton H25190106

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB10 18 02STLN

PAGE 1 OF 1

Project Name/No: PBOW
Sample Team Member: Dave Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 833886.03010000
Required Report Date: 21 days

Sample Shipment Date: 10/18/02
Laboratory Destination: STL-North Canton
Laboratory Contact: Ken Kuzior
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 836532447510

Bill To: Accounting
Shaw E & I
312 Directors Drive
Knoxville, TN 37923

Report To: Maureen McMyler
Shaw E & I
312 Directors Drive
Knoxville, TN 37923

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CD3009	WATER	10/18/02 0820	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	~~500~~ mL 250	HNO3	Hardness by 130.2		
CD3001	WATER	10/18/02 1050	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	~~500~~ mL 250	HNO3	Hardness by 130.2		
~~CD3004~~ DKK	WATER	~~10/18/02~~ DKK	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	~~500~~ mL 250	HNO3	Hardness by 130.2		

Special Instructions:

Possible Hazard Identification:
Non-haz: ____ Flammable: ____ Poison B: ____ Unknown: X

Sample Disposal:
Return to Client: ____ Disposal by Lab: X Archive: ____

Turnaround Time:
Normal: X Rush: ____

Level of QC Required:
Definitive: X Project Specific: ____

1. Relinquished by: David Kessler IT Corporation	Date: 10/18/02 Time: 1800	1. Received by:	Date: Time:
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

100

Emailed 10.21.02

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,BUR NS

NEED ANALYTICAL REPORT BY
10/31/02

C187
TB
10/19/02

ATTN:

LAB PURCHASE ORDER: SR043078

CLIENT CODE: 506155 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0005

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED	
H2J190106-001 FADHX-1-A7	10/18/02	Solids, Total Suspended "TSS" (160.2) (TSS) METHOD: 160.2	both samples
H2J190106-001 FADHX-1-A8	10/18/02	Turbidity (180.1) (TURBID) METHOD: 180.1	
H2J190106-001 FADHX-1-A9	10/18/02	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1	
H2J190106-001 FADHX-1-CA	10/18/02	Chloride (325.2, Automated) (CL) METHOD: 325.2	
H2J190106-001 FADHX-1-CC	10/18/02	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2	
H2J190106-001 FADHX-1-CD	10/18/02	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4	
H2J190106-001 FADHX-1-CE	10/18/02	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060	2X40 ml
H2J190106-001 FADHX-1-CF	10/18/02	Solids, Filterable "TDS" (160.1) (TDS) METHOD: 160.1	1l
H2J190106-001 FADHX-1-CG	10/18/02	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2	250 ml
H2J190106-002 FADH1-1-AJ	10/18/02	Solids, Total Suspended "TSS" (160.2) (TSS) METHOD: 160.2	

Sent direct

****
* CONTINUED *
****

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,BUR NS

NEED ANALYTICAL REPORT BY
10/31/02
ROUTINE

ATTN:

LAB PURCHASE ORDER: SR043078

CLIENT CODE: 506155 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0005

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H2J190106-002 FADH1-1-AK	10/18/02	Turbidity (180.1) (TURBID) METHOD: 180.1
H2J190106-002 FADH1-1-AL	10/18/02	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1
H2J190106-002 FADH1-1-CA	10/13/02	Chloride (325.2, Automated) (CL) METHOD: 325.2
H2J190106-002 FADH1-1-CC	10/18/02	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2
H2J190106-002 FADH1-1-CD	10/18/02	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H2J190106-002 FADH1-1-CE	10/18/02	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060
H2J190106-002 FADH1-1-CF	10/18/02	Solids, Filterable "TDS" (160.1) (TDS) METHOD: 160.1
H2J190106-002 FADH1-1-CG	10/18/02	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: DATE: 10/19/02

SEND REPORT TO:

SAMPLE RECEIVED BY: _____ DATE: _____

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

STL Knoxville

INT: _____ 10/19/02 12:42:44

STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,BUR NS

RELINQUISHED BY: Terry Burns DATE/TIME: 10/19/02

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: _____ DATE/TIME: _____

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB10 18 02STL N

PAGE 1 OF 1

Bill To: Accounting
Shaw E & I
312 Directors Drive
Knoxville, TN 37923

Report To: Maureen McMyler
Shaw E & I
312 Directors Drive
Knoxville, TN 37923

Project Name/No: PBOW
Sample Team Member: Dave Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 833886.03010000
Required Report Date: 21 days

Sample Shipment Date: 10/18/02
Laboratory Destination: STL-North Canton
Laboratory Contact: Ken Kuzior
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: 836532447510

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CD3009	WATER	10/18/02 0820	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	~~500~~ mL 250	HNO3	Hardness by 130.2		
CD3001	WATER	10/18/02 1050	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	~~500~~ mL 250	HNO3	Hardness by 130.2		
~~CD3004~~ DKK	WATER	~~10/18/02~~ DKK	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	~~500~~ mL 250	HNO3	Hardness by 130.2		

Special Instructions:

Possible Hazard Identification:
Non-haz: ___ Flammable: ___ Poison B: ___ Unknown: X

Sample Disposal:
Return to Client: ___ Disposal by Lab: X Archive: ___

Turnaround Time:
Normal: X Rush: ___

Level of QC Required:
Definitive: X Project Specific: ___

1. Relinquished by: David Kessler IT Corporation	Date: 10/18/02 Time: 1800	1. Received by: Terry Burns	Date: 10/19/02 Time: 9:55 AM
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: H2J190106

Client: Shaw E + I Project: _____ Quote#: _____

Cooler Received on: 10/19/02 Opened on: 10/19/02 by: Terry Burns (Signature)

Fedx [X] Client Drop Off [ ] UPS [ ] Airborne [ ] Other: _____

Cooler [X] STL Knox Safe [ ] Foam Box [ ] Client Cooler [ ] Other: _____

STL Shipper No#: _____

1. Were custody seals on the outside of the cooler? Yes [X] No [ ] Intact? Yes [X] No [ ] NA [ ]
   If YES, Quantity 1 Location over lid
   Were the custody seals signed and dated? Yes [X] No [ ] NA [ ]
2. Shipper's packing slip attached to this form? Yes [X] No [ ]
3. Were custody papers included inside the cooler and relinquished? Yes [X] No [ ]
4. Did you sign the custody papers in the appropriate place? Yes [X] No [ ]
5. Packing material used:

Peanuts [ ] Bubble Wrap [ ] Vermiculite [ ] Foam [ ] None [ ] Other: Cardboard

6. Cooler temperature upon receipt 2.1 °C (see back of form for multiple coolers/temp)

METHOD: Temp Vial [ ] Coolant & Sample [ ] Against Bottles [ ] IR [X] ICE/H_2O Slurry [ ]

COOLANT: Wet Ice [X] Blue Ice [ ] Dry Ice [ ] Water [ ] None [ ]

7. Did all bottles arrive in good condition (Unbroken)? Yes [X] No [ ]
8. Did all bottle labels and tags agree with the custody papers? Yes [X] No [ ]
9. Were samples at the correct pH? (record on back) Yes [ ] No [ ] NA [ ]
10. Were correct bottles used for the tests indicated? Yes [X] No [ ]
11. Were air bubbles >6 mm in any VOA vials? Yes [ ] No [ ] NA [X]
12. Was a sufficient amount of sample sent in each bottle? Yes [X] No [ ]

Contacted PM _____ Date: _____ by: _____ via Voice Mail [ ] Verbal [ ] Other [ ]

Concerning: _____

√	MACRO	MACRO
1. CHAIN OF CUSTODY		
	SR1A	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____
2. SAMPLE CONDITION		
	SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
	SR2B	Sample(s) were received with insufficient volume.
	SR2C	Sample(s) were received in a broken container.
3. SAMPLE PRESERVATION		
	SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot # 120701-HNO3; Sulfuric Acid Lot # 010802-H2SO4; Sodium Hydroxide Lot # 011102-NaOH; Hydrochloric Acid Lot # 020501-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH3COO2ZN/NaOH*
	SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)
4. Other (see below or back)		

SEVERN
TRENT
SERVICES

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921-5947

Tel: 865-291-3000
Fax: 865-584-4315
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 825635

PBOW

Lot #: H2J210108

Maureen McMyler

Shaw E & I Inc
312 Directors Dr
Knoxville, TN 37923

SEVERN TRENT LABORATORIES, INC.

Jamie A. McKinney
Project Manager

November 14, 2002

H2J210108 Sample Data Summary **1**

Sample Receipt Documentation **88**

Volatiles **97**
Raw Sample Data 98
Standards Data 132
Raw QC Data 202
Miscellaneous Data 233

Semivolatiles **239**
Raw Sample Data 240
Standards Data 253
Raw QC Data 352
Miscellaneous Data 374

Explosives **381**
Raw Sample Data 382
Standards Data 387
Raw QC Data 432
Miscellaneous Data 438

Metals **442**
Sample Results 443
QC Summary 448
Quality Control Results SuperTrace ICP 479
Quality Control Results Mercury 513
Raw Data SuperTrace ICP 529
Raw Data Mercury 796
Miscellaneous Data 816

Wet Chemsitry **862**
Sample Summary 863
QC Summary 865
Raw Data 875

Sample Receipt Documentation **945**

Total Number of Pages **953**

ANALYTICAL METHODS SUMMARY

H2J210108

PARAMETER	ANALYTICAL METHOD
Alkalinity	MCAWW 310.1
Chloride (Colorimetric, Automated Ferricyanide)	MCAWW 325.2
Cyanide, Total	SW846 9012A
Filterable Residue (TDS)	MCAWW 160.1
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Nitrate	MCAWW 353.2
Nitroaromatics and Nitramines by HPLC	SW846 8330
Non-Filterable Residue (TSS)	MCAWW 160.2
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Sulfate	MCAWW 375.4
Total Hardness (Titrimetric, EDTA)	MCAWW 130.2
Total Organic Carbon	SW846 9060
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Turbidity (Nephelometric)	MCAWW 180.1
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H2J210108

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
FAE7F	001	CD3004	10/19/02	11:10
FAE7G	002	CD3004	10/19/02	11:10
FAE7H	003	CD5007	10/19/02	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H2J210108

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no custody seals present upon receipt at STL Knoxville.

Samples were received at STL North Canton 10/19/02, and samples were received at STL Knoxville on 10/21/02. The samples were logged with a receipt date of 10/19/02.

Subcontract

The following analyses were performed by STL North Canton Laboratory, 4101 Shuffel Drive, NW, North Canton, OH 44720: Hardness (MCAAW 130.2), Total Dissolved Solids (MCAAW 160.1), Total Suspended Solids (MCAAW 160.2), Turbidity (MCAAW 180.1), Alkalinity (MCAAW 310.1), Chloride (MCAAW 325.2), Nitrate (MCAAW 353.2), Sulfate (MCAAW 375.4), and Total Organic Carbon (SW846 9060).

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Volatiles

Sample CD3004 was reported with elevated reporting limits for all analytes due to the presence of non-target compounds. A dilution was necessary prior to analysis, and the reporting limits were adjusted accordingly.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ, California DHS ELAP Cert. #2423, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, 5/14/01-6/21/02), Hawaii DOH, Illinois EPA Cert. #000510, Indiana DOH Cert. #C-TN-02, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-576, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center, US EPA Perchlorate Approval and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

PROJECT NARRATIVE
H2J210108

Explosives

Due to sample matrix interferences, estimated results below the reporting limit were not reported for nitrobenzene, 2,6-dinitrotoluene and 3-nitrotoluene for sample CD3004. The result was qualified with an "I" flag to indicate the presence of matrix interferences.

Sample CD3004 was reported with elevated reporting limits for 2-nitrotoluene due to sample matrix interferences.

The matrix spike/matrix spike duplicate recoveries for batch QC were acceptable for all analytes except Tetryl. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are, therefore, attributed to matrix effects.

Metals

The serial dilution of the batch samples were outside control limits for potassium due to physical or chemical matrix interferences.

The laboratory control sample recovery for batch 2295324 was outside control limits for mercury. Since the recovery was high, the associated sample was non-detect, and the matrix spike/matrix spike duplicate were within control limits, the data should not be affected.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ, California DHS ELAP Cert. #2423, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906 (SDWA, 5/14/01-6/21/02), Hawaii DOH, Illinois EPA Cert. #000510, Indiana DOH Cert. #C-TN-02, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. #68-576, South Carolina DHEC Lab ID #84001, Tennessee DOH Lab ID #02014, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center, US EPA Perchlorate Approval and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3004

GC/MS Volatiles

Lot-Sample #...: H2J210108-001 Work Order #...: FAE7F1AC Matrix.....: WATER
Date Sampled...: 10/19/02 Date Received..: 10/19/02
Prep Date.....: 10/23/02 Analysis Date..: 10/23/02
Prep Batch #...: 2296166
Dilution Factor: 10 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	20	ug/L	2.0
Bromomethane	ND	20	ug/L	2.8
Vinyl chloride	ND	10	ug/L	1.8
Chloroethane	ND	20	ug/L	2.2
Methylene chloride	ND	20	ug/L	1.3
Acetone	ND	100	ug/L	13
Carbon disulfide	**29**	**10**	**ug/L**	**1.0**
1,1-Dichloroethene	ND	10	ug/L	1.2
1,1-Dichloroethane	ND	10	ug/L	1.0
1,2-Dichloroethene (total)	ND	10	ug/L	1.3
Chloroform	ND	10	ug/L	1.0
1,2-Dichloroethane	ND	10	ug/L	1.0
2-Butanone	ND	50	ug/L	4.0
1,1,1-Trichloroethane	ND	10	ug/L	1.2
Carbon tetrachloride	ND	10	ug/L	1.0
Bromodichloromethane	ND	10	ug/L	1.0
1,2-Dichloropropane	ND	10	ug/L	1.0
cis-1,3-Dichloropropene	ND	10	ug/L	1.0
Trichloroethene	ND	10	ug/L	1.0
Dibromochloromethane	ND	10	ug/L	2.2
1,1,2-Trichloroethane	ND	10	ug/L	1.4
Benzene	**9.3 J**	**10**	**ug/L**	**1.0**
trans-1,3-Dichloropropene	ND	10	ug/L	1.1
Bromoform	ND	10	ug/L	1.0
4-Methyl-2-pentanone	ND	50	ug/L	4.0
2-Hexanone	ND	50	ug/L	4.0
Tetrachloroethene	ND	10	ug/L	1.5
1,1,2,2-Tetrachloroethane	ND	10	ug/L	1.2
Toluene	**14**	**10**	**ug/L**	**2.3**
Chlorobenzene	ND	10	ug/L	1.0
Ethylbenzene	**4.8 J**	**10**	**ug/L**	**1.3**
Styrene	ND	10	ug/L	1.2
Xylenes (total)	**23**	**10**	**ug/L**	**3.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(80 - 120)
1,2-Dichloroethane-d4	109	(77 - 128)
Toluene-d8	111	(80 - 120)
Bromofluorobenzene	124	(72 - 129)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3004

GC/MS Volatiles

Lot-Sample #...: H2J210108-001 Work Order #...: FAE7F1AC Matrix.....: WATER

NOTE(S):

J Estimated result. Result is less than RL.

SHAW E & I INC

Client Sample ID: CD5007

GC/MS Volatiles

Lot-Sample #...: H2J210108-003 **Work Order #...:** FAE7H1AA **Matrix.....:** WATER
Date Sampled...: 10/19/02 **Date Received..:** 10/19/02
Prep Date.....: 10/23/02 **Analysis Date..:** 10/23/02
Prep Batch #...: 2296166
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Chloromethane	ND	2.0	ug/L	0.20
Bromomethane	ND	2.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.22
Methylene chloride	ND	2.0	ug/L	0.13
Acetone	ND	10	ug/L	1.3
Carbon disulfide	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.12
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethene (total)	ND	1.0	ug/L	0.13
Chloroform	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
2-Butanone	ND	5.0	ug/L	0.40
1,1,1-Trichloroethane	ND	1.0	ug/L	0.12
Carbon tetrachloride	ND	1.0	ug/L	0.10
Bromodichloromethane	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
Trichloroethene	ND	1.0	ug/L	0.10
Dibromochloromethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.14
Benzene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11
Bromoform	ND	1.0	ug/L	0.10
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
2-Hexanone	ND	5.0	ug/L	0.40
Tetrachloroethene	ND	1.0	ug/L	0.15
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.12
Toluene	ND	1.0	ug/L	0.23
Chlorobenzene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.13
Styrene	ND	1.0	ug/L	0.12
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(80 - 120)
1,2-Dichloroethane-d4	105	(77 - 128)
Toluene-d8	112	(80 - 120)
Bromofluorobenzene	125	(72 - 129)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H2J210108 Work Order #...: FAJ941AA Matrix.....: WATER
MB Lot-Sample #: H2J230000-166

Prep Date.....: 10/23/02
Analysis Date..: 10/23/02 Prep Batch #...: 2296166
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Chloromethane	ND	2.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Methylene chloride	**0.19 J**	**2.0**	**ug/L**	**SW846 8260B**
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene (total)		**1.0**	**ug/L**	**SW846 8260B**
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	**2.7 J**	**5.0**	**ug/L**	**SW846 8260B**
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	**1.7 J**	**5.0**	**ug/L**	**SW846 8260B**
2-Hexanone	**0.98 J**	**5.0**	**ug/L**	**SW846 8260B**
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	**0.13 J**	**1.0**	**ug/L**	**SW846 8260B**
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(80 - 120)
1,2-Dichloroethane-d4	109	(77 - 128)
Toluene-d8	109	(80 - 120)
Bromofluorobenzene	123	(72 - 129)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H2J210108 Work Order #...: FAJ941AA Matrix.....: WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H2J210108 Work Order #...: FAJ941AC-LCS Matrix.....: WATER
LCS Lot-Sample#: H2J230000-166 FAJ941AD-LCSD
Prep Date.....: 10/23/02 Analysis Date..: 10/23/02
Prep Batch #...: 2296166
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**104**	**(69 - 120)**			**SW846 8260B**
	99	**(69 - 120)**	**5.1**	**(0-26)**	**SW846 8260B**
Trichloroethene	**107**	**(76 - 120)**			**SW846 8260B**
	104	**(76 - 120)**	**2.9**	**(0-17)**	**SW846 8260B**
Benzene	**104**	**(76 - 120)**			**SW846 8260B**
	101	**(76 - 120)**	**2.8**	**(0-19)**	**SW846 8260B**
Toluene	**106**	**(77 - 120)**			**SW846 8260B**
	101	**(77 - 120)**	**5.2**	**(0-17)**	**SW846 8260B**
Chlorobenzene	**104**	**(75 - 120)**			**SW846 8260B**
	99	**(75 - 120)**	**4.9**	**(0-17)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(80 - 120)
	97	(80 - 120)
1,2-Dichloroethane-d4	113	(77 - 128)
	99	(77 - 128)
Toluene-d8	107	(80 - 120)
	105	(80 - 120)
Bromofluorobenzene	103	(72 - 129)
	106	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H2J210108 **Work Order #...:** FAJ941AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: H2J230000-166 FAJ941AD-LCSD
Prep Date.....: 10/23/02 **Analysis Date..:** 10/23/02
Prep Batch #...: 2296166
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**10.0**	**10.4**	**ug/L**	**104**		**SW846 8260B**
	10.0	**9.86**	**ug/L**	**99**	**5.1**	**SW846 8260B**
Trichloroethene	**10.0**	**10.7**	**ug/L**	**107**		**SW846 8260B**
	10.0	**10.4**	**ug/L**	**104**	**2.9**	**SW846 8260B**
Benzene	**10.0**	**10.4**	**ug/L**	**104**		**SW846 8260B**
	10.0	**10.1**	**ug/L**	**101**	**2.8**	**SW846 8260B**
Toluene	**10.0**	**10.6**	**ug/L**	**106**		**SW846 8260B**
	10.0	**10.1**	**ug/L**	**101**	**5.2**	**SW846 8260B**
Chlorobenzene	**10.0**	**10.4**	**ug/L**	**104**		**SW846 8260B**
	10.0	**9.87**	**ug/L**	**99**	**4.9**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(80 - 120)
	97	(80 - 120)
1,2-Dichloroethane-d4	113	(77 - 128)
	99	(77 - 128)
Toluene-d8	107	(80 - 120)
	105	(80 - 120)
Bromofluorobenzene	103	(72 - 129)
	106	(72 - 129)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3004

GC/MS Semivolatiles

Lot-Sample #...: H2J210108-001 **Work Order #...:** FAE7F1AD **Matrix.....:** WATER
Date Sampled...: 10/19/02 **Date Received..:** 10/19/02
Prep Date.....: 10/21/02 **Analysis Date..:** 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Phenol	ND	10	ug/L	1.2
bis(2-Chloroethyl)-ether	ND	10	ug/L	1.1
2-Chlorophenol	ND	10	ug/L	1.5
1,3-Dichlorobenzene	ND	10	ug/L	1.3
1,4-Dichlorobenzene	ND	10	ug/L	1.7
1,2-Dichlorobenzene	ND	10	ug/L	1.1
2-Methylphenol	ND	10	ug/L	1.0
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	1.3
4-Methylphenol	ND	10	ug/L	2.1
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	1.4
Hexachloroethane	ND	10	ug/L	1.6
Nitrobenzene	ND	10	ug/L	1.6
Isophorone	ND	10	ug/L	1.2
2-Nitrophenol	ND	10	ug/L	1.7
2,4-Dimethylphenol	ND	10	ug/L	1.8
bis(2-Chloroethoxy) methane	ND	10	ug/L	1.2
2,4-Dichlorophenol	ND	10	ug/L	1.4
1,2,4-Trichloro-benzene	ND	10	ug/L	1.5
Naphthalene	ND	10	ug/L	1.4
4-Chloroaniline	ND	10	ug/L	1.2
Hexachlorobutadiene	ND	10	ug/L	1.4
4-Chloro-3-methylphenol	ND	10	ug/L	0.56
2-Methylnaphthalene	**1.4 J**	**10**	**ug/L**	**1.0**
Hexachlorocyclopenta-diene	ND	50	ug/L	1.2
2,4,6-Trichloro-phenol	ND	10	ug/L	1.3
2,4,5-Trichloro-phenol	ND	10	ug/L	1.8
2-Chloronaphthalene	ND	10	ug/L	1.3
2-Nitroaniline	ND	50	ug/L	1.2
Dimethyl phthalate	ND	10	ug/L	1.4
Acenaphthylene	ND	10	ug/L	1.1
2,6-Dinitrotoluene	ND	10	ug/L	1.5

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3004

GC/MS Semivolatiles

Lot-Sample #...: H2J210108-001 **Work Order #...:** FAE7F1AD **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3-Nitroaniline	ND	50	ug/L	1.5
Acenaphthene	ND	10	ug/L	1.1
2,4-Dinitrophenol	ND	50	ug/L	11
4-Nitrophenol	ND	50	ug/L	5.7
Dibenzofuran	ND	10	ug/L	1.2
2,4-Dinitrotoluene	ND	10	ug/L	1.2
Diethyl phthalate	ND	10	ug/L	1.4
4-Chlorophenyl phenyl ether	ND	10	ug/L	1.3
Fluorene	ND	10	ug/L	1.3
4-Nitroaniline	ND	50	ug/L	1.3
4,6-Dinitro-2-methylphenol	ND	50	ug/L	6.5
N-Nitrosodiphenylamine	ND	10	ug/L	1.2
4-Bromophenyl phenyl ether	ND	10	ug/L	1.8
Hexachlorobenzene	ND	10	ug/L	1.4
Pentachlorophenol	ND	50	ug/L	1.1
Phenanthrene	ND	10	ug/L	1.4
Anthracene	ND	10	ug/L	1.3
Carbazole	ND	10	ug/L	1.5
Di-n-butyl phthalate	ND	10	ug/L	1.6
Fluoranthene	ND	10	ug/L	1.4
Pyrene	ND	10	ug/L	1.2
Butyl benzyl phthalate	ND	10	ug/L	1.7
3,3'-Dichlorobenzidine	ND	50	ug/L	1.1
Benzo(a)anthracene	ND	10	ug/L	1.2
Chrysene	ND	10	ug/L	1.6
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	1.9
Di-n-octyl phthalate	ND	10	ug/L	1.9
Benzo(b)fluoranthene	ND	10	ug/L	1.0
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(a)pyrene	ND	10	ug/L	2.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.83
Dibenz(a,h)anthracene	ND	10	ug/L	1.2
Benzo(ghi)perylene	ND	10	ug/L	1.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	54	(29 - 110)
Phenol-d5	56	(41 - 115)
Nitrobenzene-d5	56	(46 - 117)
2-Fluorobiphenyl	64	(44 - 116)
2,4,6-Tribromophenol	77	(31 - 138)
Terphenyl-d14	89	(36 - 134)

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3004

GC/MS Semivolatiles

Lot-Sample #...: H2J210108-001 **Work Order #...:** FAE7F1AD **Matrix.....:** WATER

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2J210108 **Work Order #...:** FAFG51AA **Matrix.....:** WATER
MB Lot-Sample #: H2J210000-193

Prep Date.....: 10/21/02
Analysis Date..: 10/25/02 **Prep Batch #...:** 2294193
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Phenol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
2,2'-oxybis(1-Chloro-propane)	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
1,2,4-Trichloro-benzene	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta-diene	ND	50	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
Acenaphthene	ND	10	ug/L	SW846 8270C

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2J210108 **Work Order #...:** FAFG51AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	70	(29 - 110)
Phenol-d5	78	(41 - 115)
Nitrobenzene-d5	75	(46 - 117)
2-Fluorobiphenyl	85	(44 - 116)
2,4,6-Tribromophenol	91	(31 - 138)
Terphenyl-d14	102	(36 - 134)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: H2J210108 **Work Order #...:** FAFG51AA **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H2J210108 **Work Order #...:** FAFG51AC **Matrix.....:** WATER
LCS Lot-Sample#: H2J210000-193
Prep Date.....: 10/21/02 **Analysis Date..:** 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Phenol	**77**	**(62 - 103)**	**SW846 8270C**
2-Chlorophenol	**83**	**(63 - 103)**	**SW846 8270C**
1,4-Dichlorobenzene	**82**	**(65 - 102)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**77**	**(65 - 108)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**86**	**(67 - 104)**	**SW846 8270C**
4-Chloro-3-methylphenol	**83**	**(65 - 108)**	**SW846 8270C**
Acenaphthene	**80**	**(59 - 100)**	**SW846 8270C**
4-Nitrophenol	**74**	**(50 - 122)**	**SW846 8270C**
2,4-Dinitrotoluene	**90**	**(69 - 128)**	**SW846 8270C**
Pentachlorophenol	**78**	**(64 - 114)**	**SW846 8270C**
Pyrene	**84**	**(52 - 119)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(29 - 110)
Phenol-d5	79	(41 - 115)
Nitrobenzene-d5	78	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	97	(31 - 138)
Terphenyl-d14	100	(36 - 134)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H2J210108 **Work Order #...:** FAFG51AC **Matrix.....:** WATER
LCS Lot-Sample#: H2J210000-193
Prep Date.....: 10/21/02 **Analysis Date..:** 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Phenol	**100**	**77.3**	**ug/L**	**77**	**SW846 8270C**
2-Chlorophenol	**100**	**82.8**	**ug/L**	**83**	**SW846 8270C**
1,4-Dichlorobenzene	**100**	**82.2**	**ug/L**	**82**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**100**	**76.9**	**ug/L**	**77**	**SW846 8270C**
1,2,4-Trichloro-benzene	**100**	**86.0**	**ug/L**	**86**	**SW846 8270C**
4-Chloro-3-methylphenol	**100**	**83.1**	**ug/L**	**83**	**SW846 8270C**
Acenaphthene	**100**	**79.6**	**ug/L**	**80**	**SW846 8270C**
4-Nitrophenol	**100**	**73.8**	**ug/L**	**74**	**SW846 8270C**
2,4-Dinitrotoluene	**100**	**89.8**	**ug/L**	**90**	**SW846 8270C**
Pentachlorophenol	**100**	**77.5**	**ug/L**	**78**	**SW846 8270C**
Pyrene	**100**	**84.4**	**ug/L**	**84**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(29 - 110)
Phenol-d5	79	(41 - 115)
Nitrobenzene-d5	78	(46 - 117)
2-Fluorobiphenyl	87	(44 - 116)
2,4,6-Tribromophenol	97	(31 - 138)
Terphenyl-d14	100	(36 - 134)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H2J210108 **Work Order #...:** FAA061AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AK-MSD
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/21/02 **Analysis Date..:** 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Phenol	**69**	**(58 - 103)**			**SW846 8270C**
	79	**(58 - 103)**	**14**	**(0-41)**	**SW846 8270C**
2-Chlorophenol	**72**	**(54 - 103)**			**SW846 8270C**
	86	**(54 - 103)**	**17**	**(0-43)**	**SW846 8270C**
1,4-Dichlorobenzene	**68**	**(56 - 102)**			**SW846 8270C**
	84	**(56 - 102)**	**23**	**(0-37)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**67**	**(61 - 108)**			**SW846 8270C**
	80	**(61 - 108)**	**18**	**(0-36)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**75**	**(58 - 104)**			**SW846 8270C**
	86	**(58 - 104)**	**14**	**(0-36)**	**SW846 8270C**
4-Chloro-3-methylphenol	**88**	**(65 - 108)**			**SW846 8270C**
	91	**(65 - 108)**	**4.2**	**(0-29)**	**SW846 8270C**
Acenaphthene	**77**	**(59 - 100)**			**SW846 8270C**
	82	**(59 - 100)**	**6.8**	**(0-26)**	**SW846 8270C**
4-Nitrophenol	**88**	**(50 - 122)**			**SW846 8270C**
	89	**(50 - 122)**	**1.9**	**(0-50)**	**SW846 8270C**
2,4-Dinitrotoluene	**94**	**(67 - 128)**			**SW846 8270C**
	96	**(67 - 128)**	**2.2**	**(0-25)**	**SW846 8270C**
Pentachlorophenol	**92**	**(64 - 118)**			**SW846 8270C**
	90	**(64 - 118)**	**1.5**	**(0-37)**	**SW846 8270C**
Pyrene	**91**	**(51 - 119)**			**SW846 8270C**
	94	**(51 - 119)**	**3.6**	**(0-27)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(29 - 110)
	74	(29 - 110)
Phenol-d5	70	(41 - 115)
	80	(41 - 115)
Nitrobenzene-d5	68	(46 - 117)
	79	(46 - 117)
2-Fluorobiphenyl	80	(44 - 116)
	89	(44 - 116)
2,4,6-Tribromophenol	104	(31 - 138)
	100	(31 - 138)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: H2J210108 **Work Order #...:** FAA061AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AK-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	106	(36 - 134)
	111	(36 - 134)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H2J210108 **Work Order #...:** FAA061AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AK-MSD
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/21/02 **Analysis Date..:** 10/25/02
Prep Batch #...: 2294193
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Phenol	ND	95.7	66.0	ug/L	69		SW846 8270C
	ND	96.2	76.2	ug/L	79	14	SW846 8270C
2-Chlorophenol	ND	95.7	69.1	ug/L	72		SW846 8270C
	ND	96.2	82.3	ug/L	86	17	SW846 8270C
1,4-Dichlorobenzene	ND	95.7	64.7	ug/L	68		SW846 8270C
	ND	96.2	81.2	ug/L	84	23	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	95.7	64.2	ug/L	67		SW846 8270C
	ND	96.2	77.2	ug/L	80	18	SW846 8270C
1,2,4-Trichloro-benzene	ND	95.7	72.0	ug/L	75		SW846 8270C
	ND	96.2	82.7	ug/L	86	14	SW846 8270C
4-Chloro-3-methylphenol	ND	95.7	84.0	ug/L	88		SW846 8270C
	ND	96.2	87.6	ug/L	91	4.2	SW846 8270C
Acenaphthene	ND	95.7	73.5	ug/L	77		SW846 8270C
	ND	96.2	78.7	ug/L	82	6.8	SW846 8270C
4-Nitrophenol	ND	95.7	84.0	ug/L	88		SW846 8270C
	ND	96.2	85.6	ug/L	89	1.9	SW846 8270C
2,4-Dinitrotoluene	ND	95.7	90.4	ug/L	94		SW846 8270C
	ND	96.2	92.4	ug/L	96	2.2	SW846 8270C
Pentachlorophenol	ND	95.7	87.8	ug/L	92		SW846 8270C
	ND	96.2	86.5	ug/L	90	1.5	SW846 8270C
Pyrene	ND	95.7	87.2	ug/L	91		SW846 8270C
	ND	96.2	90.4	ug/L	94	3.6	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(29 - 110)
	74	(29 - 110)
Phenol-d5	70	(41 - 115)
	80	(41 - 115)
Nitrobenzene-d5	68	(46 - 117)
	79	(46 - 117)
2-Fluorobiphenyl	80	(44 - 116)
	89	(44 - 116)
2,4,6-Tribromophenol	104	(31 - 138)
	100	(31 - 138)

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: H2J210108 **Work Order #...:** FAA061AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AK-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	106	(36 - 134)
	111	(36 - 134)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3004

HPLC

Lot-Sample #...: H2J210108-001 **Work Order #...:** FAE7F1AA **Matrix.....:** WATER
Date Sampled...: 10/19/02 **Date Received..:** 10/19/02
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1 **Method.....:** SW846 8330

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
HMX	ND	0.50	ug/L	0.10
RDX	ND	0.50	ug/L	0.13
1,3,5-Trinitrobenzene	ND	0.20	ug/L	0.11
1,3-Dinitrobenzene	ND	0.20	ug/L	0.080
Tetryl	ND	0.20	ug/L	0.17
Nitrobenzene	ND I	0.20	ug/L	0.070
2,4,6-Trinitrotoluene	ND	0.20	ug/L	0.080
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L	0.11
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L	0.090
2,6-Dinitrotoluene	ND I	0.20	ug/L	0.11
2,4-Dinitrotoluene	ND	0.20	ug/L	0.070
2-Nitrotoluene	ND G	0.36	ug/L	0.14
4-Nitrotoluene	ND	0.20	ug/L	0.17
3-Nitrotoluene	ND I	0.20	ug/L	0.13

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	112	(53 - 133)

NOTE(S):

I Matrix interference.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

METHOD BLANK REPORT

HPLC

Client Lot #...: H2J210108 **Work Order #...:** FAFQG1AA **Matrix.....:** WATER
MB Lot-Sample #: H2J210000-273

Prep Date.....: 10/22/02
Analysis Date..: 10/22/02 **Prep Batch #...:** 2294273
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
HMX	ND	0.50	ug/L	SW846 8330
RDX	ND	0.50	ug/L	SW846 8330
1,3,5-Trinitrobenzene	ND	0.20	ug/L	SW846 8330
1,3-Dinitrobenzene	ND	0.20	ug/L	SW846 8330
Tetryl	ND	0.20	ug/L	SW846 8330
Nitrobenzene	ND	0.20	ug/L	SW846 8330
2,4,6-Trinitrotoluene	ND	0.20	ug/L	SW846 8330
4-Amino-2,6-dinitrotoluene	ND	0.20	ug/L	SW846 8330
2-Amino-4,6-dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,6-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2,4-Dinitrotoluene	ND	0.20	ug/L	SW846 8330
2-Nitrotoluene	ND	0.36	ug/L	SW846 8330
4-Nitrotoluene	ND	0.20	ug/L	SW846 8330
3-Nitrotoluene	ND	0.20	ug/L	SW846 8330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	87	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #...: H2J210108 **Work Order #...:** FAFQG1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2J210000-273
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
HMX	**83**	**(68 - 122)**	**SW846 8330**
RDX	**88**	**(71 - 127)**	**SW846 8330**
1,3,5-Trinitrobenzene	**89**	**(70 - 124)**	**SW846 8330**
1,3-Dinitrobenzene	**90**	**(72 - 124)**	**SW846 8330**
Tetryl	**87**	**(68 - 123)**	**SW846 8330**
Nitrobenzene	**85**	**(60 - 122)**	**SW846 8330**
2,4,6-Trinitrotoluene	**90**	**(71 - 123)**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**84**	**(66 - 122)**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**83**	**(65 - 124)**	**SW846 8330**
2,6-Dinitrotoluene	**91**	**(66 - 129)**	**SW846 8330**
2,4-Dinitrotoluene	**89**	**(70 - 125)**	**SW846 8330**
2-Nitrotoluene	**79**	**(54 - 121)**	**SW846 8330**
4-Nitrotoluene	**81**	**(59 - 123)**	**SW846 8330**
3-Nitrotoluene	**84**	**(58 - 124)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	107	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #...: H2J210108 **Work Order #...:** FAFQG1AC **Matrix.....:** WATER
LCS Lot-Sample#: H2J210000-273
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
HMX	**3.00**	**2.49**	**ug/L**	**83**	**SW846 8330**
RDX	**3.00**	**2.64**	**ug/L**	**88**	**SW846 8330**
1,3,5-Trinitrobenzene	**3.00**	**2.67**	**ug/L**	**89**	**SW846 8330**
1,3-Dinitrobenzene	**3.00**	**2.71**	**ug/L**	**90**	**SW846 8330**
Tetryl	**3.00**	**2.62**	**ug/L**	**87**	**SW846 8330**
Nitrobenzene	**3.00**	**2.55**	**ug/L**	**85**	**SW846 8330**
2,4,6-Trinitrotoluene	**3.00**	**2.71**	**ug/L**	**90**	**SW846 8330**
4-Amino-2,6-dinitrotoluene	**3.00**	**2.53**	**ug/L**	**84**	**SW846 8330**
2-Amino-4,6-dinitrotoluene	**3.00**	**2.48**	**ug/L**	**83**	**SW846 8330**
2,6-Dinitrotoluene	**3.00**	**2.74**	**ug/L**	**91**	**SW846 8330**
2,4-Dinitrotoluene	**3.00**	**2.66**	**ug/L**	**89**	**SW846 8330**
2-Nitrotoluene	**3.00**	**2.36**	**ug/L**	**79**	**SW846 8330**
4-Nitrotoluene	**3.00**	**2.44**	**ug/L**	**81**	**SW846 8330**
3-Nitrotoluene	**3.00**	**2.52**	**ug/L**	**84**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	107	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

HPLC

Client Lot #....: H2J210108 **Work Order #...:** FAA061AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AD-MSD
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
HMX	**91**	**(61 - 132)**			**SW846 8330**
	102	**(61 - 132)**	**11**	**(0-40)**	**SW846 8330**
RDX	**95**	**(30 - 191)**			**SW846 8330**
	104	**(30 - 191)**	**9.2**	**(0-35)**	**SW846 8330**
1,3,5-Trinitrobenzene	**84**	**(70 - 124)**			**SW846 8330**
	94	**(70 - 124)**	**11**	**(0-33)**	**SW846 8330**
1,3-Dinitrobenzene	**86**	**(72 - 130)**			**SW846 8330**
	96	**(72 - 130)**	**11**	**(0-42)**	**SW846 8330**
Tetryl	**0.0**	**(55 - 125)**			**SW846 8330**
	0.0	**(55 - 125)**	**0.0**	**(0-37)**	**SW846 8330**
Nitrobenzene	**74**	**(59 - 136)**			**SW846 8330**
	89	**(59 - 136)**	**17**	**(0-36)**	**SW846 8330**
2,4,6-Trinitrotoluene	**89**	**(71 - 123)**			**SW846 8330**
	99	**(71 - 123)**	**10**	**(0-34)**	**SW846 8330**
4-Amino-2,6- dinitrotoluene	**82**	**(66 - 124)**			**SW846 8330**
	93	**(66 - 124)**	**12**	**(0-43)**	**SW846 8330**
2-Amino-4,6- dinitrotoluene	**83**	**(64 - 134)**			**SW846 8330**
	93	**(64 - 134)**	**12**	**(0-34)**	**SW846 8330**
2,6-Dinitrotoluene	**92**	**(66 - 136)**			**SW846 8330**
	101	**(66 - 136)**	**10**	**(0-32)**	**SW846 8330**
2,4-Dinitrotoluene	**88**	**(70 - 133)**			**SW846 8330**
	99	**(70 - 133)**	**11**	**(0-36)**	**SW846 8330**
2-Nitrotoluene	**66**	**(54 - 136)**			**SW846 8330**
	84	**(54 - 136)**	**24**	**(0-38)**	**SW846 8330**
4-Nitrotoluene	**71**	**(59 - 131)**			**SW846 8330**
	84	**(59 - 131)**	**17**	**(0-33)**	**SW846 8330**
3-Nitrotoluene	**75**	**(58 - 133)**			**SW846 8330**
	86	**(58 - 133)**	**14**	**(0-36)**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	92	(53 - 133)
	82	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #...: H2J210108 **Work Order #...:** FAA061AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H2J180210-001 FAA061AD-MSD
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02
Prep Date.....: 10/22/02 **Analysis Date..:** 10/22/02
Prep Batch #...: 2294273
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
HMX	**ND**	**3.00**	**2.74**	**ug/L**	**91**		**SW846 8330**
	ND	**3.00**	**3.07**	**ug/L**	**102**	**11**	**SW846 8330**
RDX	**ND**	**3.00**	**2.86**	**ug/L**	**95**		**SW846 8330**
	ND	**3.00**	**3.13**	**ug/L**	**104**	**9.2**	**SW846 8330**
1,3,5-Trinitrobenzene	**ND**	**3.00**	**2.52**	**ug/L**	**84**		**SW846 8330**
	ND	**3.00**	**2.82**	**ug/L**	**94**	**11**	**SW846 8330**
1,3-Dinitrobenzene	**ND**	**3.00**	**2.57**	**ug/L**	**86**		**SW846 8330**
	ND	**3.00**	**2.88**	**ug/L**	**96**	**11**	**SW846 8330**
Tetryl	**ND**	**3.00**		**ug/L**	**0.0**		**SW846 8330**
	ND	**3.00**		**ug/L**	**0.0**	**0.0**	**SW846 8330**
Nitrobenzene	**0.12**	**3.00**	**2.35**	**ug/L**	**74**		**SW846 8330**
	0.12	**3.00**	**2.78**	**ug/L**	**89**	**17**	**SW846 8330**
2,4,6-Trinitrotoluene	**ND**	**3.00**	**2.68**	**ug/L**	**89**		**SW846 8330**
	ND	**3.00**	**2.97**	**ug/L**	**99**	**10**	**SW846 8330**
4-Amino-2,6- dinitrotoluene	**ND**	**3.00**	**2.46**	**ug/L**	**82**		**SW846 8330**
	ND	**3.00**	**2.78**	**ug/L**	**93**	**12**	**SW846 8330**
2-Amino-4,6- dinitrotoluene	**ND**	**3.00**	**2.48**	**ug/L**	**83**		**SW846 8330**
	ND	**3.00**	**2.79**	**ug/L**	**93**	**12**	**SW846 8330**
2,6-Dinitrotoluene	**ND**	**3.00**	**2.75**	**ug/L**	**92**		**SW846 8330**
	ND	**3.00**	**3.04**	**ug/L**	**101**	**10**	**SW846 8330**
2,4-Dinitrotoluene	**ND**	**3.00**	**2.65**	**ug/L**	**88**		**SW846 8330**
	ND	**3.00**	**2.97**	**ug/L**	**99**	**11**	**SW846 8330**
2-Nitrotoluene	**ND**	**3.00**	**1.99**	**ug/L**	**66**		**SW846 8330**
	ND	**3.00**	**2.53**	**ug/L**	**84**	**24**	**SW846 8330**
4-Nitrotoluene	**ND**	**3.00**	**2.14**	**ug/L**	**71**		**SW846 8330**
	ND	**3.00**	**2.52**	**ug/L**	**84**	**17**	**SW846 8330**
3-Nitrotoluene	**ND**	**3.00**	**2.24**	**ug/L**	**75**		**SW846 8330**
	ND	**3.00**	**2.57**	**ug/L**	**86**	**14**	**SW846 8330**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1-Chloro-3-nitrobenzene	92	(53 - 133)
	82	(53 - 133)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3004

TOTAL Metals

Lot-Sample #...: H2J210108-001 **Matrix.....:** WATER
Date Sampled...: 10/19/02 **Date Received..:** 10/19/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2295322						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FAE7F1A5
		Dilution Factor: 1		Analysis Time..: 13:51	MDL.....: 0.030	
Prep Batch #...: 2296221						
Aluminum	**115 B**	**200**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAE7F1AE**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 18.4	
Antimony	ND	60.0	ug/L	SW846 6010B	10/24-10/25/02	FAE7F1AF
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 3.1	
Arsenic	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAE7F1AG
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 2.7	
Barium	**1080**	**200**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAE7F1AH**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 0.50	
Beryllium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAE7F1AJ
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 0.22	
Cadmium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAE7F1AK
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 0.22	
Calcium	**159000 J**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAE7F1AL**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 10.0	
Chromium	ND.	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAE7F1AM
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 1.0	
Cobalt	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FAE7F1AN
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 1.0	
Copper	ND	25.0	ug/L	SW846 6010B	10/24-10/25/02	FAE7F1AP
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 1.0	
Iron	**403**	**100**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAE7F1AQ**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 16.2	
Lead	ND	3.0	ug/L	SW846 6010B	10/24-10/25/02	FAE7F1AR
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 0.92	

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3004

TOTAL Metals

Lot-Sample #...: H2J210108-001 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**75400**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAE7F1AT**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 10.2	
Manganese	**23.6**	**15.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAE7F1AU**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 0.51	
Nickel	ND	40.0	ug/L	SW846 6010B	10/24-10/25/02	FAE7F1AV
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 1.4	
Potassium	**22900 J**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAE7F1AW**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 50.0	
Selenium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAE7F1AX
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 3.1	
Silver	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAE7F1A0
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 0.78	
Sodium	**91800**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAE7F1A1**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 233	
Thallium	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAE7F1A2
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 2.9	
Vanadium	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FAE7F1A3
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 1.0	
Zinc	**3.9 B**	**20.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAE7F1A4**
		Dilution Factor: 1		Analysis Time..: 13:56	MDL.....: 0.53	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

SHAW E & I INC

Client Sample ID: CD3004

DISSOLVED Metals

Lot-Sample #...: H2J210108-002 **Matrix.....:** WATER
Date Sampled...: 10/19/02 **Date Received..:** 10/19/02

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 2295324						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FAE7G1A2
		Dilution Factor: 1		Analysis Time..: 12:45	MDL.....: 0.030	
Prep Batch #...: 2295402						
Aluminum	**87.0 B**	**200**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAE7G1AA**
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 18.4	
Antimony	ND	60.0	ug/L	SW846 6010B	10/23-10/24/02	FAE7G1AC
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 3.1	
Arsenic	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAE7G1AD
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 2.7	
Barium	**1140**	**200**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAE7G1AE**
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 0.50	
Beryllium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAE7G1AF
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 0.22	
Cadmium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAE7G1AG
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 0.22	
Calcium	**160000**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAE7G1AH**
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 10.0	
Chromium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAE7G1AJ
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 1.0	
Cobalt	**1.4 B**	**50.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAE7G1AK**
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 1.0	
Copper	ND	25.0	ug/L	SW846 6010B	10/23-10/24/02	FAE7G1AL
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 1.0	
Iron	ND	100	ug/L	SW846 6010B	10/23-10/24/02	FAE7G1AM
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 16.2	
Lead	ND	3.0	ug/L	SW846 6010B	10/23-10/24/02	FAE7G1AN
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 0.92	

(Continued on next page)

SHAW E & I INC

Client Sample ID: CD3004

DISSOLVED Metals

Lot-Sample #...: H2J210108-002 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**77600**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAE7G1AP**
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 10.2	
Manganese	**15.5**	**15.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAE7G1AQ**
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 0.51	
Nickel	ND	40.0	ug/L	SW846 6010B	10/23-10/24/02	FAE7G1AR
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 1.4	
Potassium	**24000 J**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAE7G1AT**
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 50.0	
Selenium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAE7G1AU
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 3.1	
Silver	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAE7G1AV
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 0.78	
Sodium	**92500**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAE7G1AW**
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 233	
Thallium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAE7G1AX
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 2.9	
Vanadium	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FAE7G1A0
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 1.0	
Zinc	**5.7 B,J**	**20.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAE7G1A1**
		Dilution Factor: 1		Analysis Time..: 14:13	MDL.....: 0.53	

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2J220000-322 **Prep Batch #...:** 2295322						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FAHMG1AA
		Dilution Factor: 1				
		Analysis Time..: 13:37				
MB Lot-Sample #: H2J230000-221 **Prep Batch #...:** 2296221						
Aluminum	ND	200	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AA
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Antimony	ND	60.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AC
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Arsenic	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AD
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Barium	ND	200	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AE
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Beryllium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AF
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Cadmium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AG
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Calcium	**11.2 B**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAKGC1AH**
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Chromium	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AJ
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Cobalt	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AK
		Dilution Factor: 1				
		Analysis Time..: 11:06				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	25.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AL
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Iron	ND	100	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AM
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Lead	ND	3.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AN
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Magnesium	ND	5000	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AP
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Manganese	ND	15.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AQ
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Nickel	ND	40.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AR
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Potassium	**89.7 B**	**5000**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAKGC1AT**
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Selenium	ND	5.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AU
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Silver	ND	10.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AV
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Sodium	ND	5000	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1AW
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Thallium	**6.0 B**	**10.0**	**ug/L**	**SW846 6010B**	**10/24-10/25/02**	**FAKGC1AX**
		Dilution Factor: 1				
		Analysis Time..: 11:06				
Vanadium	ND	50.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1A0
		Dilution Factor: 1				
		Analysis Time..: 11:06				

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	20.0	ug/L	SW846 6010B	10/24-10/25/02	FAKGC1A1

Dilution Factor: 1
Analysis Time..: 11:06

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2J220000-322 **Prep Batch #...:** 2295322					
Mercury	105	(90 - 110)	SW846 7470A	10/23/02	FAHMG1AC
		Dilution Factor: 1	Analysis Time..: 13:39		
LCS Lot-Sample#: H2J230000-221 **Prep Batch #...:** 2296221					
Aluminum	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A2
		Dilution Factor: 1	Analysis Time..: 11:11		
Antimony	99	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A3
		Dilution Factor: 1	Analysis Time..: 11:11		
Arsenic	99	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A4
		Dilution Factor: 1	Analysis Time..: 11:11		
Barium	97	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A5
		Dilution Factor: 1	Analysis Time..: 11:11		
Beryllium	103	(90 - 115)	SW846 6010B	10/24-10/25/02	FAKGC1A6
		Dilution Factor: 1	Analysis Time..: 11:11		
Cadmium	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A7
		Dilution Factor: 1	Analysis Time..: 11:11		
Calcium	99	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A8
		Dilution Factor: 1	Analysis Time..: 11:11		
Chromium	99	(89 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1A9
		Dilution Factor: 1	Analysis Time..: 11:11		
Cobalt	100	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CA
		Dilution Factor: 1	Analysis Time..: 11:11		
Copper	97	(88 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CC
		Dilution Factor: 1	Analysis Time..: 11:11		
Iron	96	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CD
		Dilution Factor: 1	Analysis Time..: 11:11		
Lead	99	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CE
		Dilution Factor: 1	Analysis Time..: 11:11		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	97	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CF
		Dilution Factor: 1	Analysis Time..: 11:11		
Manganese	100	(90 - 111)	SW846 6010B	10/24-10/25/02	FAKGC1CG
		Dilution Factor: 1	Analysis Time..: 11:11		
Nickel	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CH
		Dilution Factor: 1	Analysis Time..: 11:11		
Potassium	94	(89 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CJ
		Dilution Factor: 1	Analysis Time..: 11:11		
Selenium	101	(90 - 114)	SW846 6010B	10/24-10/25/02	FAKGC1CK
		Dilution Factor: 1	Analysis Time..: 11:11		
Silver	96	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CL
		Dilution Factor: 1	Analysis Time..: 11:11		
Sodium	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CM
		Dilution Factor: 1	Analysis Time..: 11:11		
Thallium	100	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CN
		Dilution Factor: 1	Analysis Time..: 11:11		
Vanadium	98	(90 - 110)	SW846 6010B	10/24-10/25/02	FAKGC1CP
		Dilution Factor: 1	Analysis Time..: 11:11		
Zinc	104	(90 - 115)	SW846 6010B	10/24-10/25/02	FAKGC1CQ
		Dilution Factor: 1	Analysis Time..: 11:11		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2J220000-322 **Prep Batch #...:** 2295322							
Mercury	5.00	5.26	ug/L	105	SW846 7470A	10/23/02	FAHMG1AC
			Dilution Factor: 1		Analysis Time..: 13:39		
LCS Lot-Sample#: H2J230000-221 **Prep Batch #...:** 2296221							
Aluminum	2000	1950	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1A2
			Dilution Factor: 1		Analysis Time..: 11:11		
Antimony	500	494	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1A3
			Dilution Factor: 1		Analysis Time..: 11:11		
Arsenic	2000	1980	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1A4
			Dilution Factor: 1		Analysis Time..: 11:11		
Barium	2000	1930	ug/L	97	SW846 6010B	10/24-10/25/02	FAKGC1A5
			Dilution Factor: 1		Analysis Time..: 11:11		
Beryllium	50.0	51.7	ug/L	103	SW846 6010B	10/24-10/25/02	FAKGC1A6
			Dilution Factor: 1		Analysis Time..: 11:11		
Cadmium	50.0	48.9	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1A7
			Dilution Factor: 1		Analysis Time..: 11:11		
Calcium	50000	49700	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1A8
			Dilution Factor: 1		Analysis Time..: 11:11		
Chromium	200	198	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1A9
			Dilution Factor: 1		Analysis Time..: 11:11		
Cobalt	500	499	ug/L	100	SW846 6010B	10/24-10/25/02	FAKGC1CA
			Dilution Factor: 1		Analysis Time..: 11:11		
Copper	250	243	ug/L	97	SW846 6010B	10/24-10/25/02	FAKGC1CC
			Dilution Factor: 1		Analysis Time..: 11:11		
Iron	1000	960	ug/L	96	SW846 6010B	10/24-10/25/02	FAKGC1CD
			Dilution Factor: 1		Analysis Time..: 11:11		
Lead	500	494	ug/L	99	SW846 6010B	10/24-10/25/02	FAKGC1CE
			Dilution Factor: 1		Analysis Time..: 11:11		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	50000	48700	ug/L	97	SW846 6010B	10/24-10/25/02	FAKGC1CF
			Dilution Factor: 1		Analysis Time..: 11:11		
Manganese	500	498	ug/L	100	SW846 6010B	10/24-10/25/02	FAKGC1CG
			Dilution Factor: 1		Analysis Time..: 11:11		
Nickel	500	489	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1CH
			Dilution Factor: 1		Analysis Time..: 11:11		
Potassium	50000	46800	ug/L	94	SW846 6010B	10/24-10/25/02	FAKGC1CJ
			Dilution Factor: 1		Analysis Time..: 11:11		
Selenium	2000	2010	ug/L	101	SW846 6010B	10/24-10/25/02	FAKGC1CK
			Dilution Factor: 1		Analysis Time..: 11:11		
Silver	50.0	47.8	ug/L	96	SW846 6010B	10/24-10/25/02	FAKGC1CL
			Dilution Factor: 1		Analysis Time..: 11:11		
Sodium	50000	49100	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1CM
			Dilution Factor: 1		Analysis Time..: 11:11		
Thallium	2000	1990	ug/L	100	SW846 6010B	10/24-10/25/02	FAKGC1CN
			Dilution Factor: 1		Analysis Time..: 11:11		
Vanadium	500	489	ug/L	98	SW846 6010B	10/24-10/25/02	FAKGC1CP
			Dilution Factor: 1		Analysis Time..: 11:11		
Zinc	500	521	ug/L	104	SW846 6010B	10/24-10/25/02	FAKGC1CQ
			Dilution Factor: 1		Analysis Time..: 11:11		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/16/02 **Date Received..:** 10/17/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J170146-003 **Prep Batch #...:** 2295322							
Mercury	99	(73 - 125)			SW846 7470A	10/23/02	E97AD1DJ
	97	(73 - 125)	1.4	(0-20)	SW846 7470A	10/23/02	E97AD1DK

Dilution Factor: 1
Analysis Time..: 13:56

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/16/02 **Date Received..:** 10/17/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J170146-003 **Prep Batch #...:** 2295322									
Mercury									
	ND	1.00	0.986	ug/L	99		SW846 7470A	10/23/02	E97AD1DJ
	ND	1.00	0.972	ug/L	97	1.4	SW846 7470A	10/23/02	E97AD1DK

Dilution Factor: 1
Analysis Time..: 13:56

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J180210-001 **Prep Batch #...:** 2296221							
Aluminum	97	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061AM
	100	(75 - 125)	2.9	(0-20)	SW846 6010B	10/24-10/25/02	FAA061AN
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Antimony	99	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061AQ
	101	(75 - 125)	2.4	(0-20)	SW846 6010B	10/24-10/25/02	FAA061AR
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Arsenic	98	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061AU
	101	(75 - 125)	2.9	(0-20)	SW846 6010B	10/24-10/25/02	FAA061AV
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Barium	94	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061AX
	98	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061A0
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Beryllium	98	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061A2
	102	(75 - 125)	3.3	(0-20)	SW846 6010B	10/24-10/25/02	FAA061A3
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Cadmium	93	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061A5
	95	(75 - 125)	3.0	(0-20)	SW846 6010B	10/24-10/25/02	FAA061A6
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Calcium	78	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061A8
	90	(75 - 125)	2.6	(0-20)	SW846 6010B	10/24-10/25/02	FAA061A9
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Chromium	93	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CC
	96	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CD
		Dilution Factor: 1					
		Analysis Time..: 13:16					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	95	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CF
	98	(75 - 125)	3.1	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CG
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Copper	95	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CJ
	98	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CK
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Iron	92	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CM
	95	(75 - 125)	2.3	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CN
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Lead	94	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CQ
	97	(75 - 125)	3.1	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CR
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Magnesium	93	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CU
	100	(75 - 125)	2.8	(0-20)	SW846 6010B	10/24-10/25/02	FAA061CV
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Manganese	95	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061CX
	98	(75 - 125)	3.0	(0-20)	SW846 6010B	10/24-10/25/02	FAA061C0
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Nickel	92	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061C2
	95	(75 - 125)	3.0	(0-20)	SW846 6010B	10/24-10/25/02	FAA061C3
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Potassium	102	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061C5
	107	(75 - 125)	3.3	(0-20)	SW846 6010B	10/24-10/25/02	FAA061C6
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Selenium	91	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061C8
	94	(75 - 125)	3.3	(0-20)	SW846 6010B	10/24-10/25/02	FAA061C9
		Dilution Factor: 1					
		Analysis Time..: 13:16					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	95	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DC
	98	(75 - 125)	2.9	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DD
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Sodium	89	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DF
	101	(75 - 125)	2.7	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DG
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Thallium	96	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DJ
	99	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DK
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Vanadium	94	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DM
	97	(75 - 125)	3.2	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DN
		Dilution Factor: 1					
		Analysis Time..: 13:16					
Zinc	102	(75 - 125)			SW846 6010B	10/24-10/25/02	FAA061DQ
	105	(75 - 125)	3.1	(0-20)	SW846 6010B	10/24-10/25/02	FAA061DR
		Dilution Factor: 1					
		Analysis Time..: 13:16					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J180210-001 **Prep Batch #...:** 2296221									
Aluminum									
	79.7	2000	2010	ug/L	97		SW846 6010B	10/24-10/25/02	FAA061AM
	79.7	2000	2070	ug/L	100	2.9	SW846 6010B	10/24-10/25/02	FAA061AN
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Antimony									
	ND	500	495	ug/L	99		SW846 6010B	10/24-10/25/02	FAA061AQ
	ND	500	507	ug/L	101	2.4	SW846 6010B	10/24-10/25/02	FAA061AR
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Arsenic									
	ND	2000	1970	ug/L	98		SW846 6010B	10/24-10/25/02	FAA061AU
	ND	2000	2020	ug/L	101	2.9	SW846 6010B	10/24-10/25/02	FAA061AV
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Barium									
	277	2000	2160	ug/L	94		SW846 6010B	10/24-10/25/02	FAA061AX
	277	2000	2230	ug/L	98	3.2	SW846 6010B	10/24-10/25/02	FAA061A0
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Beryllium									
	ND	50.0	49.1	ug/L	98		SW846 6010B	10/24-10/25/02	FAA061A2
	ND	50.0	50.8	ug/L	102	3.3	SW846 6010B	10/24-10/25/02	FAA061A3
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Cadmium									
	ND	50.0	46.3	ug/L	93		SW846 6010B	10/24-10/25/02	FAA061A5
	ND	50.0	47.7	ug/L	95	3.0	SW846 6010B	10/24-10/25/02	FAA061A6
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Calcium									
	200000	50000	238000	ug/L	78		SW846 6010B	10/24-10/25/02	FAA061A8
	200000	50000	245000	ug/L	90	2.6	SW846 6010B	10/24-10/25/02	FAA061A9
			Dilution Factor: 1						
			Analysis Time..: 13:16						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium									
	ND	200	187	ug/L	93		SW846 6010B	10/24-10/25/02	FAA061CC
	ND	200	193	ug/L	96	3.2	SW846 6010B	10/24-10/25/02	FAA061CD
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Cobalt									
	ND	500	474	ug/L	95		SW846 6010B	10/24-10/25/02	FAA061CF
	ND	500	489	ug/L	98	3.1	SW846 6010B	10/24-10/25/02	FAA061CG
			Dilution Factor: 1						
			Analysis Timé..: 13:16						
Copper									
	ND	250	236	ug/L	95		SW846 6010B	10/24-10/25/02	FAA061CJ
	ND	250	244	ug/L	98	3.2	SW846 6010B	10/24-10/25/02	FAA061CK
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Iron									
	207	1000	1130	ug/L	92		SW846 6010B	10/24-10/25/02	FAA061CM
	207	1000	1150	ug/L	95	2.3	SW846 6010B	10/24-10/25/02	FAA061CN
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Lead									
	ND	500	469	ug/L	94		SW846 6010B	10/24-10/25/02	FAA061CQ
	ND	500	484	ug/L	97	3.1	SW846 6010B	10/24-10/25/02	FAA061CR
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Magnesium									
	80200	50000	127000	ug/L	93		SW846 6010B	10/24-10/25/02	FAA061CU
	80200	50000	130000	ug/L	100	2.8	SW846 6010B	10/24-10/25/02	FAA061CV
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Manganese									
	86.5	500	560	ug/L	95		SW846 6010B	10/24-10/25/02	FAA061CX
	86.5	500	577	ug/L	98	3.0	SW846 6010B	10/24-10/25/02	FAA061C0
			Dilution Factor: 1						
			Analysis Time..: 13:16						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Nickel									
	ND	500	462	ug/L	92		SW846 6010B	10/24-10/25/02	FAA061C2
	ND	500	476	ug/L	95	3.0	SW846 6010B	10/24-10/25/02	FAA061C3
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Potassium									
	16200	50000	67400	ug/L	102		SW846 6010B	10/24-10/25/02	FAA061C5
	16200	50000	69600	ug/L	107	3.3	SW846 6010B	10/24-10/25/02	FAA061C6
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Selenium									
	ND	2000	1810	ug/L	91		SW846 6010B	10/24-10/25/02	FAA061C8
	ND	2000	1870	ug/L	94	3.3	SW846 6010B	10/24-10/25/02	FAA061C9
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Silver									
	ND	50.0	47.4	ug/L	95		SW846 6010B	10/24-10/25/02	FAA061DC
	ND	50.0	48.9	ug/L	98	2.9	SW846 6010B	10/24-10/25/02	FAA061DD
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Sodium									
	187000	50000	231000	ug/L	89		SW846 6010B	10/24-10/25/02	FAA061DF
	187000	50000	237000	ug/L	101	2.7	SW846 6010B	10/24-10/25/02	FAA061DG
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Thallium									
	ND	2000	1920	ug/L	96		SW846 6010B	10/24-10/25/02	FAA061DJ
	ND	2000	1980	ug/L	99	3.2	SW846 6010B	10/24-10/25/02	FAA061DK
			Dilution Factor: 1						
			Analysis Time..: 13:16						
Vanadium									
	ND	500	470	ug/L	94		SW846 6010B	10/24-10/25/02	FAA061DM
	ND	500	485	ug/L	97	3.2	SW846 6010B	10/24-10/25/02	FAA061DN
			Dilution Factor: 1						
			Analysis Time..: 13:16						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc									
	1.7	500	509	ug/L	102		SW846 6010B	10/24-10/25/02	FAA061DQ
	1.7	500	525	ug/L	105	3.1	SW846 6010B	10/24-10/25/02	FAA061DR

Dilution Factor: 1
Analysis Time..: 13:16

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: H2J220000-324 **Prep Batch #...:** 2295324						
Mercury	ND	0.20	ug/L	SW846 7470A	10/23/02	FAHM11AA
		Dilution Factor: 1				
		Analysis Time..: 12:22				
MB Lot-Sample #: H2J220000-402 **Prep Batch #...:** 2295402						
Aluminum	ND	200	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AA
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Antimony	ND	60.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AC
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Arsenic	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AD
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Barium	ND	200	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AE
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Beryllium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AF
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Cadmium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AG
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Calcium	ND	5000	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AH
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Chromium	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AJ
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Cobalt	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AK
		Dilution Factor: 1				
		Analysis Time..: 11:59				

(Continued on next page)

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	25.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AL
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Iron	ND	100	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AM
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Lead	ND	3.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AN
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Magnesium	ND	5000	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AP
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Manganese	ND	15.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AQ
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Nickel	ND	40.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AR
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Potassium	**88.8 B**	**5000**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAH7A1AT**
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Selenium	ND	5.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AU
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Silver	ND	10.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AV
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Sodium	ND	5000	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1AW
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Thallium	**5.1 B**	**10.0**	**ug/L**	**SW846 6010B**	**10/23-10/24/02**	**FAH7A1AX**
		Dilution Factor: 1				
		Analysis Time..: 11:59				
Vanadium	ND	50.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1A0
		Dilution Factor: 1				
		Analysis Time..: 11:59				

(Continued on next page)

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	1.2 B	20.0	ug/L	SW846 6010B	10/23-10/24/02	FAH7A1A1

Dilution Factor: 1
Analysis Time..: 11:59

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2J220000-324 **Prep Batch #...:** 2295324					
Mercury	111 N	(90 - 110)	SW846 7470A	10/23/02	FAHM11AC
		Dilution Factor: 1	Analysis Time..: 12:24		
LCS Lot-Sample#: H2J220000-402 **Prep Batch #...:** 2295402					
Aluminum	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A2
		Dilution Factor: 1	Analysis Time..: 12:03		
Antimony	98	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A3
		Dilution Factor: 1	Analysis Time..: 12:03		
Arsenic	100	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A4
		Dilution Factor: 1	Analysis Time..: 12:03		
Barium	98	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A5
		Dilution Factor: 1	Analysis Time..: 12:03		
Beryllium	103	(90 - 115)	SW846 6010B	10/23-10/24/02	FAH7A1A6
		Dilution Factor: 1	Analysis Time..: 12:03		
Cadmium	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A7
		Dilution Factor: 1	Analysis Time..: 12:03		
Calcium	100	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A8
		Dilution Factor: 1	Analysis Time..: 12:03		
Chromium	99	(89 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1A9
		Dilution Factor: 1	Analysis Time..: 12:03		
Cobalt	100	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CA
		Dilution Factor: 1	Analysis Time..: 12:03		
Copper	97	(88 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CC
		Dilution Factor: 1	Analysis Time..: 12:03		
Iron	97	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CD
		Dilution Factor: 1	Analysis Time..: 12:03		
Lead	98	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CE
		Dilution Factor: 1	Analysis Time..: 12:03		

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CF
		Dilution Factor: 1	Analysis Time..: 12:03		
Manganese	100	(90 - 111)	SW846 6010B	10/23-10/24/02	FAH7A1CG
		Dilution Factor: 1	Analysis Time..: 12:03		
Nickel	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CH
		Dilution Factor: 1	Analysis Time..: 12:03		
Potassium	96	(89 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CJ
		Dilution Factor: 1	Analysis Time..: 12:03		
Selenium	101	(90 - 114)	SW846 6010B	10/23-10/24/02	FAH7A1CK
		Dilution Factor: 1	Analysis Time..: 12:03		
Silver	96	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CL
		Dilution Factor: 1	Analysis Time..: 12:03		
Sodium	98	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CM
		Dilution Factor: 1	Analysis Time..: 12:03		
Thallium	100	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CN
		Dilution Factor: 1	Analysis Time..: 12:03		
Vanadium	99	(90 - 110)	SW846 6010B	10/23-10/24/02	FAH7A1CP
		Dilution Factor: 1	Analysis Time..: 12:03		
Zinc	105	(90 - 115)	SW846 6010B	10/23-10/24/02	FAH7A1CQ
		Dilution Factor: 1	Analysis Time..: 12:03		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: H2J220000-324 **Prep Batch #...:** 2295324							
Mercury	5.00	5.55 N	ug/L	111	SW846 7470A	10/23/02	FAHM11AC
			Dilution Factor: 1		Analysis Time..: 12:24		
LCS Lot-Sample#: H2J220000-402 **Prep Batch #...:** 2295402							
Aluminum	2000	1980	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1A2
			Dilution Factor: 1		Analysis Time..: 12:03		
Antimony	500	492	ug/L	98	SW846 6010B	10/23-10/24/02	FAH7A1A3
			Dilution Factor: 1		Analysis Time..: 12:03		
Arsenic	2000	1990	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1A4
			Dilution Factor: 1		Analysis Time..: 12:03		
Barium	2000	1950	ug/L	98	SW846 6010B	10/23-10/24/02	FAH7A1A5
			Dilution Factor: 1		Analysis Time..: 12:03		
Beryllium	50.0	51.6	ug/L	103	SW846 6010B	10/23-10/24/02	FAH7A1A6
			Dilution Factor: 1		Analysis Time..: 12:03		
Cadmium	50.0	49.6	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1A7
			Dilution Factor: 1		Analysis Time..: 12:03		
Calcium	50000	49800	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1A8
			Dilution Factor: 1		Analysis Time..: 12:03		
Chromium	200	198	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1A9
			Dilution Factor: 1		Analysis Time..: 12:03		
Cobalt	500	500	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1CA
			Dilution Factor: 1		Analysis Time..: 12:03		
Copper	250	242	ug/L	97	SW846 6010B	10/23-10/24/02	FAH7A1CC
			Dilution Factor: 1		Analysis Time..: 12:03		
Iron	1000	974	ug/L	97	SW846 6010B	10/23-10/24/02	FAH7A1CD
			Dilution Factor: 1		Analysis Time..: 12:03		
Lead	500	492	ug/L	98	SW846 6010B	10/23-10/24/02	FAH7A1CE
			Dilution Factor: 1		Analysis Time..: 12:03		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	50000	49300	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1CF
			Dilution Factor: 1		Analysis Time..: 12:03		
Manganese	500	499	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1CG
			Dilution Factor: 1		Analysis Time..: 12:03		
Nickel	500	496	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1CH
			Dilution Factor: 1		Analysis Time..: 12:03		
Potassium	50000	47800	ug/L	96	SW846 6010B	10/23-10/24/02	FAH7A1CJ
			Dilution Factor: 1		Analysis Time..: 12:03		
Selenium	2000	2030	ug/L	101	SW846 6010B	10/23-10/24/02	FAH7A1CK
			Dilution Factor: 1		Analysis Time..: 12:03		
Silver	50.0	48.0	ug/L	96	SW846 6010B	10/23-10/24/02	FAH7A1CL
			Dilution Factor: 1		Analysis Time..: 12:03		
Sodium	50000	49100	ug/L	98	SW846 6010B	10/23-10/24/02	FAH7A1CM
			Dilution Factor: 1		Analysis Time..: 12:03		
Thallium	2000	1990	ug/L	100	SW846 6010B	10/23-10/24/02	FAH7A1CN
			Dilution Factor: 1		Analysis Time..: 12:03		
Vanadium	500	493	ug/L	99	SW846 6010B	10/23-10/24/02	FAH7A1CP
			Dilution Factor: 1		Analysis Time..: 12:03		
Zinc	500	525	ug/L	105	SW846 6010B	10/23-10/24/02	FAH7A1CQ
			Dilution Factor: 1		Analysis Time..: 12:03		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J180210-002 **Prep Batch #...:** 2295324							
Mercury	100	(73 - 125)			SW846 7470A	10/23/02	FAA161DJ
	95	(73 - 125)	5.0	(0-20)	SW846 7470A	10/23/02	FAA161DK
		Dilution Factor: 1					
		Analysis Time..: 12:34					
MS Lot-Sample #: H2J180210-002 **Prep Batch #...:** 2295402							
Aluminum	102	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AC
	101	(75 - 125)	0.89	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AD
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Antimony	102	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AF
	99	(75 - 125)	2.8	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AG
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Arsenic	101	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AJ
	100	(75 - 125)	1.6	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AK
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Barium	99	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AM
	97	(75 - 125)	1.2	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AN
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Beryllium	102	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AQ
	101	(75 - 125)	1.4	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AR
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Cadmium	95	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AU
	95	(75 - 125)	0.63	(0-20)	SW846 6010B	10/23-10/24/02	FAA161AV
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Calcium	104	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161AX
	95	(75 - 125)	1.7	(0-20)	SW846 6010B	10/23-10/24/02	FAA161A0
		Dilution Factor: 1					
		Analysis Time..: 13:42					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	98	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161A2
	97	(75 - 125)	1.3	(0-20)	SW846 6010B	10/23-10/24/02	FAA161A3
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Cobalt	99	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161A5
	98	(75 - 125)	1.3	(0-20)	SW846 6010B	10/23-10/24/02	FAA161A6
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Copper	100	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161A8
	99	(75 - 125)	1.7	(0-20)	SW846 6010B	10/23-10/24/02	FAA161A9
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Iron	98	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CC
	95	(75 - 125)	2.6	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CD
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Lead	97	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CF
	95	(75 - 125)	1.6	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CG
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Magnesium	107	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CJ
	102	(75 - 125)	1.9	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CK
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Manganese	100	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CM
	98	(75 - 125)	1.4	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CN
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Nickel	95	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CQ
	94	(75 - 125)	0.72	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CR
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Potassium	112	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CU
	108	(75 - 125)	2.4	(0-20)	SW846 6010B	10/23-10/24/02	FAA161CV
		Dilution Factor: 1					
		Analysis Time..: 13:42					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Selenium	98	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161CX
	95	(75 - 125)	3.2	(0-20)	SW846 6010B	10/23-10/24/02	FAA161C0
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Silver	100	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161C2
	98	(75 - 125)	2.0	(0-20)	SW846 6010B	10/23-10/24/02	FAA161C3
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Sodium	113	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161C5
	100	(75 - 125)	2.7	(0-20)	SW846 6010B	10/23-10/24/02	FAA161C6
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Thallium	99	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161C8
	98	(75 - 125)	1.3	(0-20)	SW846 6010B	10/23-10/24/02	FAA161C9
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Vanadium	99	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161DC
	98	(75 - 125)	1.1	(0-20)	SW846 6010B	10/23-10/24/02	FAA161DD
		Dilution Factor: 1					
		Analysis Time..: 13:42					
Zinc	105	(75 - 125)			SW846 6010B	10/23-10/24/02	FAA161DF
	103	(75 - 125)	1.5	(0-20)	SW846 6010B	10/23-10/24/02	FAA161DG
		Dilution Factor: 1					
		Analysis Time..: 13:42					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: H2J180210-002 **Prep Batch #...:** 2295324									
Mercury									
	ND	1.00	1.00	ug/L	100		SW846 7470A	10/23/02	FAA161DJ
	ND	1.00	0.951	ug/L	95	5.0	SW846 7470A	10/23/02	FAA161DK
			Dilution Factor: 1						
			Analysis Time..: 12:34						
MS Lot-Sample #: H2J180210-002 **Prep Batch #...:** 2295402									
Aluminum									
	69.8	2000	2110	ug/L	102		SW846 6010B	10/23-10/24/02	FAA161AC
	69.8	2000	2100	ug/L	101	0.89	SW846 6010B	10/23-10/24/02	FAA161AD
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Antimony									
	ND	500	508	ug/L	102		SW846 6010B	10/23-10/24/02	FAA161AF
	ND	500	494	ug/L	99	2.8	SW846 6010B	10/23-10/24/02	FAA161AG
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Arsenic									
	ND	2000	2020	ug/L	101		SW846 6010B	10/23-10/24/02	FAA161AJ
	ND	2000	1990	ug/L	100	1.6	SW846 6010B	10/23-10/24/02	FAA161AK
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Barium									
	270	2000	2240	ug/L	99		SW846 6010B	10/23-10/24/02	FAA161AM
	270	2000	2220	ug/L	97	1.2	SW846 6010B	10/23-10/24/02	FAA161AN
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Beryllium									
	ND	50.0	51.0	ug/L	102		SW846 6010B	10/23-10/24/02	FAA161AQ
	ND	50.0	50.4	ug/L	101	1.4	SW846 6010B	10/23-10/24/02	FAA161AR
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Cadmium									
	ND	50.0	47.7	ug/L	95		SW846 6010B	10/23-10/24/02	FAA161AU
	ND	50.0	47.4	ug/L	95	0.63	SW846 6010B	10/23-10/24/02	FAA161AV
			Dilution Factor: 1						
			Analysis Time..: 13:42						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Calcium									
	198000	50000	249000	ug/L	104		SW846 6010B	10/23-10/24/02	FAA161AX
	198000	50000	245000	ug/L	95	1.7	SW846 6010B	10/23-10/24/02	FAA161A0
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Chromium									
	ND	200	196	ug/L	98		SW846 6010B	10/23-10/24/02	FAA161A2
	ND	200	193	ug/L	97	1.3	SW846 6010B	10/23-10/24/02	FAA161A3
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Cobalt									
	ND	500	497	ug/L	99		SW846 6010B	10/23-10/24/02	FAA161A5
	ND	500	490	ug/L	98	1.3	SW846 6010B	10/23-10/24/02	FAA161A6
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Copper									
	ND	250	251	ug/L	100		SW846 6010B	10/23-10/24/02	FAA161A8
	ND	250	247	ug/L	99	1.7	SW846 6010B	10/23-10/24/02	FAA161A9
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Iron									
	157	1000	1130	ug/L	98		SW846 6010B	10/23-10/24/02	FAA161CC
	157	1000	1110	ug/L	95	2.6	SW846 6010B	10/23-10/24/02	FAA161CD
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Lead									
	ND	500	483	ug/L	97		SW846 6010B	10/23-10/24/02	FAA161CF
	ND	500	475	ug/L	95	1.6	SW846 6010B	10/23-10/24/02	FAA161CG
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Magnesium									
	78600	50000	132000	ug/L	107		SW846 6010B	10/23-10/24/02	FAA161CJ
	78600	50000	130000	ug/L	102	1.9	SW846 6010B	10/23-10/24/02	FAA161CK
			Dilution Factor: 1						
			Analysis Time..: 13:42						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese									
	84.2	500	582	ug/L	100		SW846 6010B	10/23-10/24/02	FAA161CM
	84.2	500	574	ug/L	98	1.4	SW846 6010B	10/23-10/24/02	FAA161CN
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Nickel									
	ND	500	473	ug/L	95		SW846 6010B	10/23-10/24/02	FAA161CQ
	ND	500	469	ug/L	94	0.72	SW846 6010B	10/23-10/24/02	FAA161CR
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Potassium									
	15900	50000	71800	ug/L	112		SW846 6010B	10/23-10/24/02	FAA161CU
	15900	50000	70100	ug/L	108	2.4	SW846 6010B	10/23-10/24/02	FAA161CV
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Selenium									
	ND	2000	1960	ug/L	98		SW846 6010B	10/23-10/24/02	FAA161CX
	ND	2000	1900	ug/L	95	3.2	SW846 6010B	10/23-10/24/02	FAA161C0
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Silver									
	ND	50.0	50.2	ug/L	100		SW846 6010B	10/23-10/24/02	FAA161C2
	ND	50.0	49.2	ug/L	98	2.0	SW846 6010B	10/23-10/24/02	FAA161C3
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Sodium									
	180000	50000	236000	ug/L	113		SW846 6010B	10/23-10/24/02	FAA161C5
	180000	50000	230000	ug/L	100	2.7	SW846 6010B	10/23-10/24/02	FAA161C6
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Thallium									
	ND	2000	1980	ug/L	99		SW846 6010B	10/23-10/24/02	FAA161C8
	ND	2000	1960	ug/L	98	1.3	SW846 6010B	10/23-10/24/02	FAA161C9
			Dilution Factor: 1						
			Analysis Time..: 13:42						

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium									
	ND	500	494	ug/L	99		SW846 6010B	10/23-10/24/02	FAA161DC
	ND	500	489	ug/L	98	1.1	SW846 6010B	10/23-10/24/02	FAA161DD
			Dilution Factor: 1						
			Analysis Time..: 13:42						
Zinc									
	1.5	500	525	ug/L	105		SW846 6010B	10/23-10/24/02	FAA161DF
	1.5	500	517	ug/L	103	1.5	SW846 6010B	10/23-10/24/02	FAA161DG
			Dilution Factor: 1						
			Analysis Time..: 13:42						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3004

General Chemistry

Lot-Sample #...: H2J210108-001 **Work Order #...:** FAE7F **Matrix.....:** WATER
Date Sampled...: 10/19/02 **Date Received..:** 10/19/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**126**	**5.0**	**mg/L**	**MCAWW 325.2**	**10/23/02**	**2296524**
		Dilution Factor: 5		MDL.....: 1.5		
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1		MDL.....: 0.0030		
Hardness, as CaCO3	**808**	**25.0**	**mg/L**	**MCAWW 130.2**	**10/31/02**	**2304543**
		Dilution Factor: 5		MDL.....: 10.5		
Nitrate	ND	0.10	mg/L	MCAWW 353.2	10/19/02	2296355
		Dilution Factor: 1		MDL.....: 0.016		
Sulfate	ND	5.0	mg/L	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1		MDL.....: 0.18		
Total Alkalinity	**757**	**5.0**	**mg/L**	**MCAWW 310.1**	**10/19/02**	**2294596**
		Dilution Factor: 1		MDL.....: 1.3		
Total Dissolved Solids	**990**	**10.0**	**mg/L**	**MCAWW 160.1**	**10/20-10/21/02**	**2293094**
		Dilution Factor: 1		MDL.....: 4.3		
Total Organic Carbon	**3.7**	**1.0**	**mg/L**	**SW846 9060**	**10/26/02**	**2300130**
		Dilution Factor: 1		MDL.....: 0.68		
Total Suspended Solids	**62.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**10/20/02**	**2295091**
		Dilution Factor: 1		MDL.....: 2.8		
Turbidity	**49.6**	**1.0**	**NTU**	**MCAWW 180.1**	**10/19/02**	**2294593**
		Dilution Factor: 2		MDL.....: 1.0		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: H2J210108 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: FALX11AA		MB Lot-Sample #:	A2J230000-524	
	ND	1.0	mg/L	MCAWW 325.2	10/23/02	2296524
		Dilution Factor: 1				
Cyanide, Total		Work Order #: FA4KQ1AA		MB Lot-Sample #:	H2J300000-472	
	ND	0.010	mg/L	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1				
Hardness, as CaCO3		Work Order #: FA7EK1AA		MB Lot-Sample #:	A2J310000-543	
	ND	5.0	mg/L	MCAWW 130.2	10/31/02	2304543
		Dilution Factor: 1				
Nitrate		Work Order #: FAK1K1AA		MB Lot-Sample #:	A2J230000-355	
	ND	0.10	mg/L	MCAWW 353.2	10/19/02	2296355
		Dilution Factor: 1				
Sulfate		Work Order #: FALWW1AA		MB Lot-Sample #:	A2J230000-525	
	ND	5.0	mg/L	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1				
Total Alkalinity		Work Order #: FAGJD1AA		MB Lot-Sample #:	A2J210000-596	
	ND	5.0	mg/L	MCAWW 310.1	10/19/02	2294596
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: FAF3R1AA		MB Lot-Sample #:	A2J200000-094	
	ND	10.0	mg/L	MCAWW 160.1	10/20-10/21/02	2293094
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: FAWAJ1AA		MB Lot-Sample #:	A2J270000-130	
	ND	1.0	mg/L	SW846 9060	10/25/02	2300130
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: FAGJK1AA		MB Lot-Sample #:	A2J220000-091	
	ND	4.0	mg/L	MCAWW 160.2	10/20/02	2295091
		Dilution Factor: 1				
Turbidity		Work Order #: FAGH71AA		MB Lot-Sample #:	A2J210000-593	
	ND	0.50	NTU	MCAWW 180.1	10/19/02	2294593
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: FALX11AC		LCS Lot-Sample#: A2J230000-524	
	97	(90 - 115)	MCAWW 325.2	10/23/02	2296524
		Dilution Factor: 1			
Cyanide, Total		Work Order #: FA4KQ1AC		LCS Lot-Sample#: H2J300000-472	
	107	(88 - 113)	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1			
Hardness, as CaCO3		Work Order #: FA7EK1AC		LCS Lot-Sample#: A2J310000-543	
	98	(84 - 116)	MCAWW 130.2	10/31/02	2304543
		Dilution Factor: 1			
Nitrate		Work Order #: FAK1K1AC		LCS Lot-Sample#: A2J230000-355	
	100	(77 - 116)	MCAWW 353.2	10/19/02	2296355
		Dilution Factor: 1			
Sulfate		Work Order #: FALWW1AC		LCS Lot-Sample#: A2J230000-525	
	104	(80 - 112)	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1			
Total Alkalinity		Work Order #: FAGJD1AC		LCS Lot-Sample#: A2J210000-596	
	98	(90 - 127)	MCAWW 310.1	10/19/02	2294596
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: FAF3R1AC		LCS Lot-Sample#: A2J200000-094	
	99	(69 - 120)	MCAWW 160.1	10/20-10/21/02	2293094
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: FAWAJ1AC		LCS Lot-Sample#: A2J270000-130	
	97	(88 - 115)	SW846 9060	10/25/02	2300130
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: FAGJK1AC		LCS Lot-Sample#: A2J220000-091	
	93	(66 - 119)	MCAWW 160.2	10/20/02	2295091
		Dilution Factor: 1			
Turbidity		Work Order #: FAGH71AC		LCS Lot-Sample#: A2J210000-593	
	102	(75 - 125)	MCAWW 180.1	10/19/02	2294593
		Dilution Factor: 1			

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J210108 Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			Work Order #:	FALX11AC	LCS Lot-Sample#:	A2J230000-524	
	233	225	mg/L	97	MCAWW 325.2	10/23/02	2296524
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	FA4KQ1AC	LCS Lot-Sample#:	H2J300000-472	
	0.200	0.214	mg/L	107	SW846 9012A	10/30/02	2303472
			Dilution Factor: 1				
Hardness, as CaCO3			Work Order #:	FA7EK1AC	LCS Lot-Sample#:	A2J310000-543	
	99.1	97.0	mg/L	98	MCAWW 130.2	10/31/02	2304543
			Dilution Factor: 1				
Nitrate			Work Order #:	FAK1K1AC	LCS Lot-Sample#:	A2J230000-355	
	1.00	1.00	mg/L	100	MCAWW 353.2	10/19/02	2296355
			Dilution Factor: 1				
Sulfate			Work Order #:	FALWW1AC	LCS Lot-Sample#:	A2J230000-525	
	58.5	60.9	mg/L	104	MCAWW 375.4	10/23/02	2296525
			Dilution Factor: 1				
Total Alkalinity			Work Order #:	FAGJD1AC	LCS Lot-Sample#:	A2J210000-596	
	98.9	97.4	mg/L	98	MCAWW 310.1	10/19/02	2294596
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #:	FAF3R1AC	LCS Lot-Sample#:	A2J200000-094	
	314	312	mg/L	99	MCAWW 160.1	10/20-10/21/02	2293094
			Dilution Factor: 1				
Total Organic Carbon			Work Order #:	FAWAJ1AC	LCS Lot-Sample#:	A2J270000-130	
	59.0	57.0	mg/L	97	SW846 9060	10/25/02	2300130
			Dilution Factor: 1				
Total Suspended Solids			Work Order #:	FAGJK1AC	LCS Lot-Sample#:	A2J220000-091	
	44.1	41.0	mg/L	93	MCAWW 160.2	10/20/02	2295091
			Dilution Factor: 1				
Turbidity			Work Order #:	FAGH71AC	LCS Lot-Sample#:	A2J210000-593	
	1.00	1.02	NTU	102	MCAWW 180.1	10/19/02	2294593
			Dilution Factor: 1				

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2J210108 Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J210108 **Work Order #...:** E966J-SMP E966J-DUP **Matrix.....:** WATER

Date Sampled...: 10/16/02 **Date Received..:** 10/17/02

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #:	H2J170128-001	
	5.0	4.0	mg/L	22	(0-20)	MCAWW 160.2	10/20/02	2293093
			Dilution Factor: 1					
Total Dissolved Solids						SD Lot-Sample #:	H2J170128-001	
	342	346	mg/L	1.2	(0-20)	MCAWW 160.1	10/20-10/21/02	2293094
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J210108 **Work Order #...:** FAA06-SMP FAA06-DUP **Matrix.....:** WATER

Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #:	H2J180210-001	
	ND	ND	mg/L	200	(0-20)	MCAWW 160.2	10/20/02	2293093
			Dilution Factor: 1					
Total Dissolved Solids						SD Lot-Sample #:	H2J180210-001	
	1440	1490	mg/L	3.7	(0-20)	MCAWW 160.1	10/20-10/21/02	2293094
			Dilution Factor: 2					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J210108 **Work Order #...:** FADH1-SMP FADH1-DUP **Matrix.....:** WATER

Date Sampled...: 10/18/02 **Date Received..:** 10/19/02

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Turbidity						SD Lot-Sample #:	H2J190106-002	
	44.2	43.2	NTU	2.3	(0-20)	MCAWW 180.1	10/19/02	2293175

Dilution Factor: 2

Sample Data Summary

SHAW E & I INC

Client Sample ID: CD3004

General Chemistry

Lot-Sample #...: H2J210108-001 **Work Order #...:** FAE7F **Matrix.....:** WATER
Date Sampled...: 10/19/02 **Date Received..:** 10/19/02

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated	**126**	**5.0**	**mg/L**	**MCAWW 325.2**	**10/23/02**	**2296524**
		Dilution Factor: 5		MDL.....: 1.5		
Cyanide, Total	ND	0.010	mg/L	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1		MDL.....: 0.0030		
Nitrate	ND	0.10	mg/L	MCAWW 353.2	10/19/02	2296355
		Dilution Factor: 1		MDL.....: 0.016		
Sulfate	ND	5.0	mg/L	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1		MDL.....: 0.18		
Total Alkalinity	**757**	**5.0**	**mg/L**	**MCAWW 310.1**	**10/19/02**	**2294596**
		Dilution Factor: 1		MDL.....: 1.3		
Total Dissolved Solids	**990**	**10.0**	**mg/L**	**MCAWW 160.1**	**10/20-10/21/02**	**2293094**
		Dilution Factor: 1		MDL.....: 4.3		
Total Organic Carbon	**3.7**	**1.0**	**mg/L**	**SW846 9060**	**10/26/02**	**2300130**
		Dilution Factor: 1		MDL.....: 0.68		
Total Suspended Solids	**62.0**	**4.0**	**mg/L**	**MCAWW 160.2**	**10/20/02**	**2295091**
		Dilution Factor: 1		MDL.....: 2.8		
Turbidity	**49.6**	**1.0**	**NTU**	**MCAWW 180.1**	**10/19/02**	**2294593**
		Dilution Factor: 2		MDL.....: 1.0		

METHOD BLANK REPORT

General Chemistry

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: FALX11AA		MB Lot-Sample #:	A2J230000-524	
	ND	1.0	mg/L	MCAWW 325.2	10/23/02	2296524
		Dilution Factor: 1				
Cyanide, Total		Work Order #: FA4KQ1AA		MB Lot-Sample #:	H2J300000-472	
	ND	0.010	mg/L	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1				
Nitrate		Work Order #: FAK1K1AA		MB Lot-Sample #:	A2J230000-355	
	ND	0.10	mg/L	MCAWW 353.2	10/19/02	2296355
		Dilution Factor: 1				
Sulfate		Work Order #: FALWW1AA		MB Lot-Sample #:	A2J230000-525	
	ND	5.0	mg/L	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1				
Total Alkalinity		Work Order #: FAGJD1AA		MB Lot-Sample #:	A2J210000-596	
	ND	5.0	mg/L	MCAWW 310.1	10/19/02	2294596
		Dilution Factor: 1				
Total Dissolved Solids		Work Order #: FAF3R1AA		MB Lot-Sample #:	A2J200000-094	
	ND	10.0	mg/L	MCAWW 160.1	10/20-10/21/02	2293094
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: FAWAJ1AA		MB Lot-Sample #:	A2J270000-130	
	ND	1.0	mg/L	SW846 9060	10/25/02	2300130
		Dilution Factor: 1				
Total Suspended Solids		Work Order #: FAGJK1AA		MB Lot-Sample #:	A2J220000-091	
	ND	4.0	mg/L	MCAWW 160.2	10/20/02	2295091
		Dilution Factor: 1				
Turbidity		Work Order #: FAGH71AA		MB Lot-Sample #:	A2J210000-593	
	ND	0.50	NTU	MCAWW 180.1	10/19/02	2294593
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		Work Order #: FALX11AC	LCS Lot-Sample#: A2J230000-524		
	97	(90 - 115)	MCAWW 325.2	10/23/02	2296524
		Dilution Factor: 1			
Cyanide, Total		Work Order #: FA4KQ1AC	LCS Lot-Sample#: H2J300000-472		
	107	(88 - 113)	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1			
Nitrate		Work Order #: FAK1K1AC	LCS Lot-Sample#: A2J230000-355		
	100	(77 - 116)	MCAWW 353.2	10/19/02	2296355
		Dilution Factor: 1			
Sulfate		Work Order #: FALWW1AC	LCS Lot-Sample#: A2J230000-525		
	104	(80 - 112)	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1			
Total Alkalinity		Work Order #: FAGJD1AC	LCS Lot-Sample#: A2J210000-596		
	98	(90 - 127)	MCAWW 310.1	10/19/02	2294596
		Dilution Factor: 1			
Total Dissolved Solids		Work Order #: FAF3R1AC	LCS Lot-Sample#: A2J200000-094		
	99	(69 - 120)	MCAWW 160.1	10/20-10/21/02	2293094
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: FAWAJ1AC	LCS Lot-Sample#: A2J270000-130		
	97	(88 - 115)	SW846 9060	10/25/02	2300130
		Dilution Factor: 1			
Total Suspended Solids		Work Order #: FAGJK1AC	LCS Lot-Sample#: A2J220000-091		
	93	(66 - 119)	MCAWW 160.2	10/20/02	2295091
		Dilution Factor: 1			
Turbidity		Work Order #: FAGH71AC	LCS Lot-Sample#: A2J210000-593		
	102	(75 - 125)	MCAWW 180.1	10/19/02	2294593
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2J210108 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			Work Order #:	FALX11AC	LCS Lot-Sample#:	A2J230000-524	
	233	225	mg/L	97	MCAWW 325.2	10/23/02	2296524
			Dilution Factor: 1				
Cyanide, Total			Work Order #:	FA4KQ1AC	LCS Lot-Sample#:	H2J300000-472	
	0.200	0.214	mg/L	107	SW846 9012A	10/30/02	2303472
			Dilution Factor: 1				
Nitrate			Work Order #:	FAK1K1AC	LCS Lot-Sample#:	A2J230000-355	
	1.00	1.00	mg/L	100	MCAWW 353.2	10/19/02	2296355
			Dilution Factor: 1				
Sulfate			Work Order #:	FALWW1AC	LCS Lot-Sample#:	A2J230000-525	
	58.5	60.9	mg/L	104	MCAWW 375.4	10/23/02	2296525
			Dilution Factor: 1				
Total Alkalinity			Work Order #:	FAGJD1AC	LCS Lot-Sample#:	A2J210000-596	
	98.9	97.4	mg/L	98	MCAWW 310.1	10/19/02	2294596
			Dilution Factor: 1				
Total Dissolved Solids			Work Order #:	FAF3R1AC	LCS Lot-Sample#:	A2J200000-094	
	314	312	mg/L	99	MCAWW 160.1	10/20-10/21/02	2293094
			Dilution Factor: 1				
Total Organic Carbon			Work Order #:	FAWAJ1AC	LCS Lot-Sample#:	A2J270000-130	
	59.0	57.0	mg/L	97	SW846 9060	10/25/02	2300130
			Dilution Factor: 1				
Total Suspended Solids			Work Order #:	FAGJK1AC	LCS Lot-Sample#:	A2J220000-091	
	44.1	41.0	mg/L	93	MCAWW 160.2	10/20/02	2295091
			Dilution Factor: 1				
Turbidity			Work Order #:	FAGH71AC	LCS Lot-Sample#:	A2J210000-593	
	1.00	1.02	NTU	102	MCAWW 180.1	10/19/02	2294593
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/18/02 **Date Received..:** 10/19/02

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated		WO#:	FAA061EC-MS/FAA061ED-MSD			MS Lot-Sample #:	H2J180210-001
	NC,MSB	(43 - 167)			MCAWW 325.2	10/23/02	2296524
	NC,MSB	(43 - 167)		(0-23)	MCAWW 325.2	10/23/02	2296524
		Dilution Factor: 1					
Cyanide, Total		WO#:	FAA061DX-MS/FAA061D0-MSD			MS Lot-Sample #:	H2J180210-001
	87	(77 - 126)			SW846 9012A	10/30/02	2303472
	82	(77 - 126)	6.5	(0-20)	SW846 9012A	10/30/02	2303472
		Dilution Factor: 1					
Nitrate		WO#:	FADH11CL-MS/FADH11CM-MSD			MS Lot-Sample #:	H2J190106-002
	70	(10 - 163)			MCAWW 353.2	10/19/02	2293168
	71	(10 - 163)	0.74	(0-24)	MCAWW 353.2	10/19/02	2293168
		Dilution Factor: 1					
Sulfate		WO#:	FAA061EJ-MS/FAA061EK-MSD			MS Lot-Sample #:	H2J180210-001
	94	(22 - 151)			MCAWW 375.4	10/23/02	2296525
	84	(22 - 151)	2.4	(0-31)	MCAWW 375.4	10/23/02	2296525
		Dilution Factor: 1					
Total Alkalinity		WO#:	FADH11CJ-MS/FADH11CK-MSD			MS Lot-Sample #:	H2J190106-002
	72	(10 - 160)			MCAWW 310.1	10/19/02	2293172
	71	(10 - 160)	0.72	(0-24)	MCAWW 310.1	10/19/02	2293172
		Dilution Factor: 1					
Total Organic Carbon		WO#:	FAA061EM-MS/FAA061EN-MSD			MS Lot-Sample #:	H2J180210-001
	89	(72 - 136)			SW846 9060	10/25/02	2300130
	91	(72 - 136)	1.5	(0-20)	SW846 9060	10/25/02	2300130
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: H2J210108 **Matrix.....:** WATER
Date Sampled...: 10/18/02 **Date Received..:** 10/19/02

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chloride - Automated			WO#: FAA061EC-MS/FAA061ED-MSD				MS Lot-Sample #: H2J180210-001		
	631	25.0	636	mg/L			MCAWW 325.2	10/23/02	2296524
			Qualifiers: NC,MSB						
	631	25.0	632	mg/L			MCAWW 325.2	10/23/02	2296524
			Qualifiers: NC,MSB						
			Dilution Factor: 1						
Cyanide, Total			WO#: FAA061DX-MS/FAA061D0-MSD				MS Lot-Sample #: H2J180210-001		
	ND	0.200	0.174	mg/L	87		SW846 9012A	10/30/02	2303472
	ND	0.200	0.163	mg/L	82	6.5	SW846 9012A	10/30/02	2303472
			Dilution Factor: 1						
Nitrate			WO#: FADH11CL-MS/FADH11CM-MSD				MS Lot-Sample #: H2J190106-002		
	ND	0.250	0.175	mg/L	70		MCAWW 353.2	10/19/02	2293168
	ND	0.250	0.176	mg/L	71	0.74	MCAWW 353.2	10/19/02	2293168
			Dilution Factor: 1						
Sulfate			WO#: FAA061EJ-MS/FAA061EK-MSD				MS Lot-Sample #: H2J180210-001		
	79.5	25.0	103	mg/L	94		MCAWW 375.4	10/23/02	2296525
	79.5	25.0	101	mg/L	84	2.4	MCAWW 375.4	10/23/02	2296525
			Dilution Factor: 1						
Total Alkalinity			WO#: FADH11CJ-MS/FADH11CK-MSD				MS Lot-Sample #: H2J190106-002		
	332	500	692	mg/L	72		MCAWW 310.1	10/19/02	2293172
	332	500	687	mg/L	71	0.72	MCAWW 310.1	10/19/02	2293172
			Dilution Factor: 1						
Total Organic Carbon			WO#: FAA061EM-MS/FAA061EN-MSD				MS Lot-Sample #: H2J180210-001		
	2.7	25.0	24.9	mg/L	89		SW846 9060	10/25/02	2300130
	2.7	25.0	25.3	mg/L	91	1.5	SW846 9060	10/25/02	2300130
			Dilution Factor: 1						

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J210108 **Work Order #...:** E966J-SMP E966J-DUP **Matrix.....:** WATER

Date Sampled...: 10/16/02 **Date Received..:** 10/17/02

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #:	H2J170128-001	
	5.0	4.0	mg/L	22	(0-20)	MCAWW 160.2	10/20/02	2293093
			Dilution Factor: 1					
Total Dissolved Solids						SD Lot-Sample #:	H2J170128-001	
	342	346	mg/L	1.2	(0-20)	MCAWW 160.1	10/20-10/21/02	2293094
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: H2J210108 **Work Order #...:** FAA06-SMP FAA06-DUP **Matrix.....:** WATER

Date Sampled...: 10/17/02 **Date Received..:** 10/18/02

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Solids						SD Lot-Sample #:	H2J180210-001	
	ND	ND	mg/L	200	(0-20)	MCAWW 160.2	10/20/02	2293093
			Dilution Factor: 1					
Total Dissolved Solids						SD Lot-Sample #:	H2J180210-001	
	1440	1490	mg/L	3.7	(0-20)	MCAWW 160.1	10/20-10/21/02	2293094
			Dilution Factor: 2					

Sample Receipt Documentation

1425210 108

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB10/19/02STL K

PAGE 1 OF 1

Bill To: Accounting, Shaw E & I, 312 Directors Drive, Knoxville, TN 37923

Report To: Maureen McMyler, Shaw E & I, 312 Directors Drive, Knoxville, TN 37923

Project Name/No: PBOW
Sample Team Member: Dave Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 833886.03010000
Required Report Date: 21 Day

Sample Shipment Date:
Laboratory Destination: STL-Knoxville
Laboratory Contact: Jamie McKinney
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: Hand Delivered

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CD 3004	WATER	10/19/02 1110	1 - Amber	1 L	Cool	Explosives by 8830		
			1 - HDPE	~~500~~ mL 250	HNO3	Total Metals by 6010B/7470A PH<2		
			1 - HDPE	~~500~~ mL 250	HNO3	Dissolved Metals by 6010B/7470A ↓		
			2 - Amber	1 L	Cool	SVOCs by 8270C		
			3 - Glass	40 mL	HCL	VOCs by 8260B		
			1 - HDPE	~~500~~ mL 1000	NaOH	Cyanide by 9010A PH>12		
	WATER		1 - Amber	1 L	Cool	Explosives by 8830		
			1 - HDPE	500 mL	HNO3	Total Metals by 6010B/7470A		
			1 - HDPE	500 mL	HNO3	Dissolved Metals by 6010B/7470A		
			2 - Amber	1 L	Cool	SVOCs by 8270C	temp 2°C	
			3 - Glass	40 mL	HCL	VOCs by 8260B	No Custody Seals	
			1 - HDPE	500 mL	NaOH	Cyanide by 9010A		
	WATER		1 - Amber	1 L	Cool	Explosives by 8830	Hand Delivered	
			1 - HDPE	500 mL	HNO3	Total Metals by 6010B/7470A		
			1 - HDPE	500 mL	HNO3	Dissolved Metals by 6010B/7470A	SPS 10/21/02	
			2 - Amber	1 L	Cool	SVOCs by 8270C		
			3 - Glass	40 mL	HCL	VOCs by 8260B		
			1 - HDPE	500 mL	NaOH	Cyanide by 9010A		
STET → CD5007	WATER	10/19/02	2 - Glass	40 mL	Cool	VOCs by 8260B		

Special Instructions:

Possible Hazard Identification:
Non-haz: ____ Flammable: ____ Poison B: ____ Unknown: X

Sample Disposal:
Return to Client: ____ Disposal by Lab: X Archive: ____

Turnaround Time:
Normal: X Rush: ____

Level of QC Required:
Definitive: X Project Specific: ____

1. Relinquished by: David Kessler IT Corporation	Date: 10/21/02 Time: 0805	1. Received by: Megan Dunson	Date: 10-21-02 Time: 08:05
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

STL KNOXVILLE
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Page 1 of 2

CLIENT: Shaw E & I PROJECT: _____ Lot No.: H2S210108

TO BE COMPLETED BY SAMPLE RECEIPT ASSOCIATE:

		YES	NO	NA
1.	Sample Receipt:			
a.	Do sample container labels match COC? (IDs, Dates, Times)	✓		
b.	Is the cooler temperature within acceptance limits?	✓		
	(NOTE: North Carolina, 1668, 1613B have 0-4°C requirement)			
c.	Were samples received with correct preservative (excluding Encore)?	✓		
d.	Were custody seals present/intact on cooler and/or containers?		✓	
e.	Were all of the samples listed on the COC received?	✓		
f.	Were all of the sample containers received intact?	✓		
g.	Were containers received for VOAs received without headspace?	✓		
h.	Were samples received in the appropriate containers?	✓		
i.	Did you check for residual chlorine, if necessary?			✓
j.	Were samples received within 1/2 of the holding time?	✓		
k.	Were samples screened for radioactivity?			✓
l.	Were client's sample documents (RFA/COC) received?	✓		
m.	Has the RFA/COC been relinquished? (Signed, Dated, Timed)	✓		
n.	Are test/parameters listed for each sample?	✓		
o.	Is the matrix of the samples noted?	✓		
p.	Is the date/time of sample collection noted?	✓		
q.	Is the client and project name/No. identified?	✓		

SAMPLE RECEIVING ASSOCIATE: Greg B. Sharpe DATE: 10/21/02

TO BE COMPLETED BY PROJECT MANAGER :

		YES	NO	NA
1.	Project manager "Sample Greet":			
a.	Quote number to be logged-in under 48670			
b.	Informed Login associates of special instructions ?			X
2.	If custody seals were missing/not intact, was client notified?	pm 10/24/02	X	X handdelivered

PROJECT MANAGER : pm DATE: 10/24/02

Client Sample ID	Analysis Requested	Condition (see legend)	Comments/Action
all	all	8	samples received in
			North Carolina 10/19;
			samples received in
			Knoxville 10/21;
			samples logged with
			North Carolina receipt date

☒ Client informed on 10/28/02 by Conference. Person contacted: M McMyler.
☐ Noted actions in comments section above.
☒ No action necessary; process as is.
Project Manager: pm Date: 10/28/02

STL KNOXVILLE
SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST LEGEND

Item	Condition
Cooler:	1a Not received, COC available
	1b Leaking
	1c Other:_____
Temperature:	2a Temp Blank = _____
	2b Cooler Temp = _____
	(cooler temp should be used only if there is no temp blank)
Container:	3a Leaking
	3b Broken
	3c Extra
	3d No labels
	3e Headspace (VOA only)
	3f Other: _____
Samples:	4a Samples received but not on COC
	4b Samples not received but on COC
	4c Holding time expired
	4d Sample received with < ½ holding time remaining
	4e Sample preservative: _____
	4f Other: _____
Custody Seals:	5a None
	5b Not intact
	5c Other:_____
Chain of Custody (COC):	6a Not relinquished by client
	6b Incomplete information
	6c Other:_____
Container Labels:	7a Doesn't match COC
	7b Incomplete information
	7c Marking smeared
	7d Label torn
	7e Other:_____

Other (8): _____

SEVERN TRENT STL

STL KNOXVILLE

SAMPLE LOG-IN (LOT SUMMARY) REVIEW CHECKLIST

CLIENT: Shaw PROJECT: PBOW Lot No.: H2J210108

TO BE COMPETED BY PROJECT MANAGER:

	YES	NO	NA	
1. Client Documents (Request for Analysis/Chain of Custody):				
a. Was QuanTIMS lot number documented on all paperwork?	X			
b. Was RFA/COC signed upon receipt, including date/time?	X			
c. Is preservative check (pH) noted on RFA/COC?		X		STL NC
d. Is cooler temperature & custody seal condition noted on COC?		X		
2. Log-in (Lot Folder) Review:	YES	NO	NA	
a. Do client IDs on Client Summaries match RFA/COC?	X			
b. Were tests/parameters assigned correctly?	X			
c. Were correct analytical and report due dates assigned?	X			
d. Has the correct fax due date been assigned to the lot?			X	
e. Is the correct report format noted in the lot summary?	X			
f. Is percent moisture logged for samples requiring this analysis?			X	
g. Are client assigned QC samples properly defined?			X	
3. Contract/Subcontract Review:	YES	NO	NA	
a. Is there a contract number or PO for this work?	X			
b If the purchase order number is given, is it noted in Lot header?	X			
c. If samples were subcontracted, was copy of COC in folder?				
4. SDG Review:	YES	NO	NA	
a. If SDG is required, is SDG form in Lot folder?			X	
b Is SDG number noted in Lot header & sample comments?			X	
c. If SDG is complete, has the due date been revised & marked closed?			X	
5. Checklist Review:	YES	NO	NA	
a. Has Sample Receipt Checklist been filled-out?	X			
b. Was there a CUR?	X		X	gm 10/24/02
c. Were all issues resolved?			X	

LOT FOLDER REVIEWED BY: gm DATE: 10/24/02

A016R8.doc, 4/13/00

Severn Trent Laboratories, Inc
SAMPLE ANALYSIS REQUISITION

LABORATORY: STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,EZZ OL

NEED ANALYTICAL REPORT BY
10/31/02

ATTN:

C194
10-21-02

LAB PURCHASE ORDER: SR043093

CLIENT CODE: 506155 PROJECT MANAGER: Jamie A. McKinney

NUMBER OF SAMPLES IN LOT: 0003

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED
H2J210108-001 FAE7F-1-A7	10/19/02	Solids, Total Suspended "TSS" (160.2) (TSS) METHOD: 160.2
H2J210108-001 FAE7F-1-A8	10/19/02	Turbidity (180.1) (TURBID) METHOD: 180.1
H2J210108-001 FAE7F-1-A9	10/19/02	Alkalinity, Total (310.1) (ALK-T) METHOD: 310.1
H2J210108-001 FAE7F-1-CA	10/19/02	Chloride (325.2, Automated) (CL) METHOD: 325.2
H2J210108-001 FAE7F-1-CC	10/19/02	Nitrate-Nitrite (353.2, Automated) (NO3) METHOD: 353.2
H2J210108-001 FAE7F-1-CD	10/19/02	Sulfate (Turbidimetric - 375.4) (SO4-TURB) METHOD: 375.4
H2J210108-001 FAE7F-1-CE	10/19/02	Carbon, Total Organic "TOC" (9060) (TOC) METHOD: 9060
H2J210108-001 FAE7F-1-CF	10/19/02	Solids, Filterable "TDS" (160.1) (TDS) METHOD: 160.1
H2J210108-001 FAE7F-1-CG	10/19/02	Hardness, Total (130.2, titrimetric) (HARDNESS) METHOD: 130.2

1X1L
1X250
2X40

dc 180
10-24-02

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: DATE: 10/21/02

SEND REPORT TO:

SAMPLE RECEIVED BY: _____ DATE: _____

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

STL Knoxville

INT: _____ 10/21/02 8:32:05

STL N Canton
4101 Shuffel Drive NW
North Canton OH 44720,EZZ OL

RELINQUISHED BY: _____ DATE/TIME: _____

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: See attached COC DATE/TIME: 10-21-02

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

INTERNATIONAL TECHNOLOGY CORPORATION

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB10~~1~~10/02STL N

PAGE 1 OF 1

Project Name/No: PBOW
Sample Team Member: Dave Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 833886.03010000
Required Report Date: 21 days

Sample Shipment Date: 10/19/02
Laboratory Destination: STL-North Canton
Laboratory Contact: Ken Kuzior
Project Contact/Phone: Maureen McMyler/865-690-3211
Carrier Waybill No.: Hand Delivered

Bill To: Accounting, Shaw E & I, 312 Directors Drive, Knoxville, TN 37923
Report To: Maureen McMyler, Shaw E & I, 312 Directors Drive, Knoxville, TN 37923

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CD 3004	WATER	10/19/02 1110	2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	~~500~~ mL 250	HNO3	Hardness by 130.2		
	WATER		2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL	HNO3	Hardness by 130.2		
	WATER		2 - Glass	40 mL	H2SO4	TOC by 9060		
			1 - HDPE	1000 mL	Cool	Alkalinity by 310.1; Chloride by 325.2		
						Nitrate by 353.2; Sulfate by 375.4		
						TDS by 160.1; TSS by 160.2		
						Turbidity by 180.1		
			1 - HDPE	500 mL	HNO3	Hardness by 130.2		

Special Instructions:

Possible Hazard Identification:
Non-haz: ____ Flammable: ____ Poison B: ____ Unknown: X

Sample Disposal:
Return to Client: ____ Disposal by Lab: X Archive: ____

Turnaround Time:
Normal: X Rush: ____

Level of QC Required:
Definitive: X Project Specific: ____

1. Relinquished by: David Kessler IT Corporation	~~10/19/02~~ Date: 10/19/02 Time: 1615	1. Received by: Elenny Bunna	Date: 10/19/02 Time: 1615
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

STL Cooler Receipt Form/Narrative **Lot Number:** H2J210108
North Canton Facility

Client: Shaw E+F Project: _____ Quote#: _____
Cooler Received on: 10/19/02 Opened on: 10/19/02 by: Terry Burns (Signature)

Fedx ☐ Client Drop Off ☒ UPS ☐ Airborne ☐ Other: _____
Cooler ☐ Safe ☐ Foam Box ☐ Client Cooler ☒ Other: _____
STL Shipper No#: _____

1. Were custody seals on the outside of the cooler? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity _____ Location _____
   Were the custody seals signed and dated? Yes ☐ No ☐ NA ☒
2. Shipper's packing slip attached to this form? Yes ☐ No ☒
3. Were custody papers included inside the cooler and relinquished? Yes ☒ No ☐
4. Did you sign the custody papers in the appropriate place? Yes ☒ No ☐
5. Packing material used:
   Peanuts ☐ Bubble Wrap ☒ Vermiculite ☐ Foam ☐ None ☐ Other: _____
6. Cooler temperature upon receipt 3.6 °C (see back of form for multiple coolers/temp)
   METHOD: Temp Vial ☐ Coolant & Sample ☐ Against Bottles ☐ IR ☒ ICE/H_2O Slurry ☐
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Did all bottle labels and tags agree with the custody papers? Yes ☒ No ☐
9. Were samples at the correct pH? (record on back) Yes ☒ No ☐ NA ☐
10. Were correct bottles used for the tests indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Was a sufficient amount of sample sent in each bottle? Yes ☒ No ☐

Contacted PM _____ Date: _____ by: _____ via Voice Mail ☐ Verbal ☐ Other ☐
Concerning: _____

√	MACRO	MACRO
	1. CHAIN OF CUSTODY	
	SR1A	The chain of custody and sample bottles did not agree. The following discrepancies occurred _____
	2. SAMPLE CONDITION	
	SR2A	Sample(s) _____ were received or requested after the recommended holding time had expired.
	SR2B	Sample(s) were received with insufficient volume.
	SR2C	Sample(s) were received in a broken container.
	3. SAMPLE PRESERVATION	
	SR3A	Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot # 120701-HNO3; Sulfuric Acid Lot # 010802-H2SO4; Sodium Hydroxide Lot # 011102-NaOH; Hydrochloric Acid Lot # 020501-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH3COO2ZN/NaOH*
	SR3B	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)
	4. Other (see below or back)	

Southeast ACCUTEST Laboratories

11/06/02

Technical Report for

Shaw E & I, Inc.

PBOW

833886.03010000

Accutest Job Number: F15100

Report to:

Demo Account (SB)

vicki.graves@shawgrp.com

ATTN: Sue Bell

Total number of pages in report: 85

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certification: Florida DOH E83510

This report shall not be reproduced, except in its entirety, without the written approva

Sample Summary

Shaw E & I, Inc.

Job No: F15100

PBOW
Project No: 833886.03010000

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F15100-1	10/17/02	10:35	DK	10/18/02	AQ	Ground Water	CD3007
F15100-2	10/17/02	10:00	DK	10/18/02	AQ	Ground Water	CD5005
F15100-1A	10/17/02	10:35	DK	10/18/02	AQ	Groundwater Filtered	CD3007

Report of Analysis

Client Sample ID:	CD3007		
Lab Sample ID:	F15100-1	**Date Sampled:**	10/17/02
Matrix:	AQ - Ground Water	**Date Received:**	10/18/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PBOW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0012386.D	1	10/30/02	JG	n/a	n/a	VB543
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	7.3	50	5.0	ug/l	J
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.50	ug/l	
75-25-2	Bromoform	ND	2.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	2.0	0.50	ug/l	
75-15-0	Carbon disulfide	1.8	2.0	1.0	ug/l	J
56-23-5	Carbon tetrachloride	ND	2.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethyl	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloroprope	ND	2.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroeth	ND	2.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropro	ND	2.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.70	ug/l	
591-78-6	2-Hexanone	ND	10	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	2.5	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.5	ug/l	
100-42-5	Styrene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroet	ND	2.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.50	ug/l	
108-88-3	Toluene	ND	2.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated m
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a com

Report of Analysis

Client Sample ID:	CD3007		
Lab Sample ID:	F15100-1	**Date Sampled:**	10/17/02
Matrix:	AQ - Ground Water	**Date Received:**	10/18/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PBOW		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		86-115%
17060-07-0	1,2-Dichloroethane-D4	99%		78-125%
2037-26-5	Toluene-D8	107%		87-113%
460-00-4	4-Bromofluorobenzene	116%		84-117%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated m
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a con

Report of Analysis

Client Sample ID:	CD3007		
Lab Sample ID:	F15100-1	**Date Sampled:**	10/17/02
Matrix:	AQ - Ground Water	**Date Received:**	10/18/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PBOW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L015098.D	1	10/28/02	ME	10/24/02	OP6170	SL834
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic Acid	ND	24	15	ug/l	
95-57-8	2-Chlorophenol	ND	4.9	1.9	ug/l	
59-50-7	4-Chloro-3-methyl phe	ND	4.9	1.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	4.9	1.9	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.9	1.9	ug/l	
51-28-5	2,4-Dinitrophenol	ND	24	9.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	9.7	7.3	ug/l	
95-48-7	2-Methylphenol	ND	4.9	1.9	ug/l	
	3&4-Methylphenol	ND	4.9	1.9	ug/l	
88-75-5	2-Nitrophenol	ND	4.9	1.9	ug/l	
100-02-7	4-Nitrophenol	ND	24	9.7	ug/l	
87-86-5	Pentachlorophenol	ND	24	9.7	ug/l	
108-95-2	Phenol	ND	4.9	1.9	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.9	2.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.9	1.9	ug/l	
83-32-9	Acenaphthene	ND	4.9	0.97	ug/l	
208-96-8	Acenaphthylene	ND	4.9	0.97	ug/l	
120-12-7	Anthracene	ND	4.9	0.97	ug/l	
56-55-3	Benzo(a)anthracene	ND	4.9	0.97	ug/l	
50-32-8	Benzo(a)pyrene	ND	4.9	0.97	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	4.9	0.97	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	4.9	1.9	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	4.9	0.97	ug/l	
101-55-3	4-Bromophenyl phenyl	ND	4.9	0.97	ug/l	
85-68-7	Butyl benzyl phthalat	ND	4.9	1.9	ug/l	
100-51-6	Benzyl Alcohol	ND	4.9	0.97	ug/l	
91-58-7	2-Chloronaphthalene	ND	4.9	0.97	ug/l	
106-47-8	4-Chloroaniline	ND	4.9	1.9	ug/l	
86-74-8	Carbazole	ND	4.9	0.97	ug/l	
218-01-9	Chrysene	ND	4.9	0.97	ug/l	
111-91-1	bis(2-Chloroethoxy)me	ND	4.9	0.97	ug/l	
111-44-4	bis(2-Chloroethyl)eth	ND	4.9	1.9	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated m
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a com

Report of Analysis

Client Sample ID:	CD3007		
Lab Sample ID:	F15100-1	**Date Sampled:**	10/17/02
Matrix:	AQ - Ground Water	**Date Received:**	10/18/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PBOW		

ABN TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl	ND	4.9	0.97	ug/l	
7005-72-3	4-Chlorophenyl phenyl	ND	4.9	0.97	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.97	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.97	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.97	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	4.9	1.9	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	4.9	1.9	ug/l	
91-94-1	3,3'-Dichlorobenzidir	ND	9.7	4.9	ug/l	
53-70-3	Dibenzo(a,h)anthracer	ND	4.9	1.9	ug/l	
132-64-9	Dibenzofuran	ND	4.9	0.97	ug/l	
84-74-2	Di-n-butyl phthalate	ND	4.9	1.9	ug/l	
117-84-0	Di-n-octyl phthalate	ND	4.9	2.4	ug/l	
84-66-2	Diethyl phthalate	ND	4.9	1.9	ug/l	
131-11-3	Dimethyl phthalate	ND	4.9	1.9	ug/l	
117-81-7	bis(2-Ethylhexyl)phtl	ND	4.9	2.4	ug/l	
206-44-0	Fluoranthene	ND	4.9	0.97	ug/l	
86-73-7	Fluorene	ND	4.9	0.97	ug/l	
118-74-1	Hexachlorobenzene	ND	4.9	0.97	ug/l	
87-68-3	Hexachlorobutadiene	ND	4.9	1.9	ug/l	
77-47-4	Hexachlorocyclopentac	ND	4.9	1.9	ug/l	
67-72-1	Hexachloroethane	ND	4.9	1.9	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrer	ND	4.9	1.9	ug/l	
78-59-1	Isophorone	ND	4.9	0.97	ug/l	
91-57-6	2-Methylnaphthalene	ND	4.9	0.97	ug/l	
88-74-4	2-Nitroaniline	ND	4.9	1.9	ug/l	
99-09-2	3-Nitroaniline	ND	4.9	1.9	ug/l	
100-01-6	4-Nitroaniline	ND	4.9	1.9	ug/l	
91-20-3	Naphthalene	ND	4.9	0.97	ug/l	
98-95-3	Nitrobenzene	ND	4.9	0.97	ug/l	
621-64-7	N-Nitroso-di-n-propyl	ND	4.9	1.9	ug/l	
86-30-6	N-Nitrosodiphenylamir	ND	4.9	1.9	ug/l	
85-01-8	Phenanthrene	ND	4.9	0.97	ug/l	
129-00-0	Pyrene	ND	4.9	0.97	ug/l	
120-82-1	1,2,4-Trichlorobenzer	ND	4.9	0.97	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		19-90%
4165-62-2	Phenol-d5	41%		10-68%
118-79-6	2,4,6-Tribromophenol	93%		36-137%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated n
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a con

Report of Analysis

Client Sample ID:	CD3007		
Lab Sample ID:	F15100-1	**Date Sampled:**	10/17/02
Matrix:	AQ - Ground Water	**Date Received:**	10/18/02
Method:	SW846 8270C SW846 3510C	**Percent Solids:**	n/a
Project:	PBOW		

ABN TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	90%		49-119%
321-60-8	2-Fluorobiphenyl	90%		45-118%
1718-51-0	Terphenyl-d14	95%		46-135%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated m
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a con

Report of Analysis

Client Sample ID:	CD3007		
Lab Sample ID:	F15100-1	**Date Sampled:**	10/17/02
Matrix:	AQ - Ground Water	**Date Received:**	10/18/02
Method:	SW846 8330A SW846 8330A	**Percent Solids:**	n/a
Project:	PBOW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GG004164.D	1	10/22/02	MRE	10/21/02	OP6145	GGG220
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
2691-41-0	HMX	ND	0.19	0.048	ug/l	
121-82-4	RDX	ND	0.19	0.072	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.19	0.048	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.19	0.096	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.19	0.072	ug/l	
35572-78-2	2-amino-4,6-Dinitrotc	ND	0.19	0.096	ug/l	
19406-51-0	4-amino-2,6-Dinitrotc	ND	0.19	0.072	ug/l	
98-95-3	Nitrobenzene	ND	0.19	0.072	ug/l	
88-72-2	o-Nitrotoluene	ND	0.19	0.096	ug/l	
99-08-1	m-Nitrotoluene	ND	0.19	0.072	ug/l	
99-99-0	p-Nitrotoluene	ND	0.19	0.072	ug/l	
479-45-8	Tetryl	ND	0.19	0.072	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.19	0.072	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.19	0.048	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
610-39-9	3,4-Dinitrotoluene	79%		51-137%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated n
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a con

Report of Analysis

Client Sample ID:	CD3007		
Lab Sample ID:	F15100-1	**Date Sampled:**	10/17/02
Matrix:	AQ - Ground Water	**Date Received:**	10/18/02
		Percent Solids:	n/a
Project:	PBOW		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	<200	200	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Antimony	<5.0	5.0	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Barium	271	200	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Calcium	195000	1000	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Cobalt	<50	50	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Iron	474	300	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Magnesium	78500	5000	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Manganese	82.7	15	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	10/29/02	10/30/02	DM	SW846 7470A	SW846 7470A
Nickel	<40	40	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Potassium	21600	5000	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Sodium	203000	5000	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Zinc	<20	20	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD3007		
Lab Sample ID:	F15100-1A	**Date Sampled:**	10/17/02
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/18/02
		Percent Solids:	n/a
Project:	PBOW		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	<200	200	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Antimony	-5.0	5.0	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Arsenic	<10	10	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Barium	281	200	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Beryllium	<5.0	5.0	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Cadmium	<5.0	5.0	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Calcium	201000	1000	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Chromium	<10	10	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Cobalt	<50	50	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Copper	<25	25	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Iron	432	300	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Lead	<5.0	5.0	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Magnesium	80800	5000	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Manganese	85.1	15	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Mercury	<1.0	1.0	ug/l	1	10/29/02	10/30/02	DM	SW846 7470A	SW846 7470A
Nickel	<40	40	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Potassium	22100	5000	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Selenium	<10	10	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Silver	<10	10	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Sodium	209000	5000	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Thallium	<10	10	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Vanadium	<50	50	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A
Zinc	<20	20	ug/l	1	10/22/02	10/23/02	DM	SW846 6010B	SW846 3010A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CD5005		
Lab Sample ID:	F15100-2	**Date Sampled:**	10/17/02
Matrix:	AQ - Ground Water	**Date Received:**	10/18/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PBOW		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0012387.D	1	10/30/02	JG	n/a	n/a	VB543
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	5.0	ug/l	
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	0.50	ug/l	
75-25-2	Bromoform	ND	2.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	2.0	0.50	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	2.0	0.50	ug/l	
75-15-0	Carbon disulfide	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	0.50	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.40	ug/l	
156-59-2	cis-1,2-Dichloroethyl	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloroprope	ND	2.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroeth	ND	2.0	0.50	ug/l	
10061-02-6	trans-1,3-Dichloropro	ND	2.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.70	ug/l	
591-78-6	2-Hexanone	ND	10	2.5	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	2.5	ug/l	
74-83-9	Methyl bromide	ND	2.0	1.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	2.5	ug/l	
100-42-5	Styrene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroet	ND	2.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	0.50	ug/l	
108-88-3	Toluene	ND	2.0	0.50	ug/l	
79-01-6	Trichloroethylene	ND	2.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated m
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a com

Report of Analysis

Client Sample ID:	CD5005		
Lab Sample ID:	F15100-2	**Date Sampled:**	10/17/02
Matrix:	AQ - Ground Water	**Date Received:**	10/18/02
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	PBOW		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		86-115%
17060-07-0	1,2-Dichloroethane-D4	101%		78-125%
2037-26-5	Toluene-D8	109%		87-113%
460-00-4	4-Bromofluorobenzene	114%		84-117%

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated m
E = Indicates value exceeds calibration rang N = Indicates presumptive evidence of a com

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Blank Spike Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB543-BS	B0012370.D	1	10/30/02	JG	n/a	n/a	VB543

The QC reported here applies to the following samples: **Method:** SW846 8260B

F15100-1, F15100-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	148	118	60-130
71-43-2	Benzene	25	26.4	106	76-123
75-27-4	Bromodichloromethane	25	26.2	105	72-122
75-25-2	Bromoform	25	30.6	122	59-124
108-90-7	Chlorobenzene	25	27.2	109	78-115
75-00-3	Chloroethane	25	25.3	101	65-141
67-66-3	Chloroform	25	25.1	100	74-123
75-15-0	Carbon disulfide	25	30.3	121	51-144
56-23-5	Carbon tetrachloride	25	26.3	105	68-137
75-34-3	1,1-Dichloroethane	25	26.2	105	73-125
75-35-4	1,1-Dichloroethylene	25	28.2	113	64-136
107-06-2	1,2-Dichloroethane	25	25.1	100	66-118
78-87-5	1,2-Dichloropropane	25	28.1	112	75-129
124-48-1	Dibromochloromethane	25	28.9	116	72-117
156-59-2	cis-1,2-Dichloroethyl	25	26.8	107	79-127
10061-01-5	cis-1,3-Dichloroprope	25	26.1	104	71-117
156-60-5	trans-1,2-Dichloroeth	25	25.5	102	67-125
10061-02-6	trans-1,3-Dichloropro	25	25.9	104	65-113
100-41-4	Ethylbenzene	25	27.1	108	76-117
591-78-6	2-Hexanone	125	157	126	64-128
108-10-1	4-Methyl-2-pentanone	125	153	122	67-126
74-83-9	Methyl bromide	25	23.7	95	45-137
74-87-3	Methyl chloride	25	25.7	103	47-149
75-09-2	Methylene chloride	25	28.4	114	63-126
78-93-3	Methyl ethyl ketone	125	145	116	65-124
100-42-5	Styrene	25	29.1	116	76-120
71-55-6	1,1,1-Trichloroethane	25	25.3	101	73-131
79-34-5	1,1,2,2-Tetrachloroet	25	27.9	112	69-114
79-00-5	1,1,2-Trichloroethane	25	27.3	109	74-115
127-18-4	Tetrachloroethylene	25	26.1	104	75-124
108-88-3	Toluene	25	26.6	106	76-118
79-01-6	Trichloroethylene	25	24.8	99	75-122
75-01-4	Vinyl chloride	25	25.5	102	62-142
1330-20-7	Xylene (total)	75	83.8	112	78-120

Blank Spike Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB543-BS	B0012370.D	1	10/30/02	JG	n/a	n/a	VB543

The QC reported here applies to the following samples: **Method:** SW846 8260B

F15100-1, F15100-2

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	86-115%
17060-07-0	1,2-Dichloroethane-D4	105%	78-125%
2037-26-5	Toluene-D8	101%	87-113%
460-00-4	4-Bromofluorobenzene	97%	84-117%

Method Blank Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB543-MB	B0012371.D	1	10/30/02	JG	n/a	n/a	VB543

The QC reported here applies to the following samples: **Method:** SW846 8260B

F15100-1, F15100-2

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	2.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethyl	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloroprope	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroeth	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropro	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	2.0	ug/l	
74-87-3	Methyl chloride	ND	2.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroet	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	ug/l	

Method Blank Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VB543-MB	B0012371.D	1	10/30/02	JG	n/a	n/a	VB543

The QC reported here applies to the following samples: **Method:** SW846 8260B

F15100-1, F15100-2

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	97%	86-115%
17060-07-0	1,2-Dichloroethane-D4	100%	78-125%
2037-26-5	Toluene-D8	107%	87-113%
460-00-4	4-Bromofluorobenzene	115%	84-117%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

	Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
(a)	F15089-1MS	B0012377.D		10/30/02	JG	n/a	n/a	VB543
(a)	F15089-1MSD	B0012378.D		10/30/02	JG	n/a	n/a	VB543
(a)	F15089-1	B0012372.D		10/30/02	JG	n/a	n/a	VB543

The QC reported here applies to the following samples: **Method:** SW846 8260B

F15100-1, F15100-2

CAS No.	Compound	F15089-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	75.8		125	211	108	196	96	7	57-133/20
71-43-2	Benzene	5.2		25	31.0	103	29.4	97	5	71-127/8
75-27-4	Bromodichloromethane	ND		25	25.3	101	24.0	96	5	70-121/10
75-25-2	Bromoform	ND		25	24.4	98	21.3	85	14	50-124/18
108-90-7	Chlorobenzene	ND		25	27.5	110	26.4	106	4	77-113/6
75-00-3	Chloroethane	ND		25	23.4	94	22.3	89	5	57-155/19
67-66-3	Chloroform	ND		25	25.7	103	24.2	97	6	72-125/11
75-15-0	Carbon disulfide	ND		25	30.6	122	28.4	114	7	49-146/12
56-23-5	Carbon tetrachloride	ND		25	23.5	94	21.7	87	8	61-140/13
75-34-3	1,1-Dichloroethane	ND		25	26.8	107	24.6	98	9	71-129/11
75-35-4	1,1-Dichloroethylene	ND		25	28.1	112	26.2	105	7	60-141/14
107-06-2	1,2-Dichloroethane	ND		25	24.9	100	23.7	95	5	64-121/9
78-87-5	1,2-Dichloropropane	ND		25	28.8	115	26.6	106	8	73-131/8
124-48-1	Dibromochloromethane	ND		25	26.5	106	24.2	97	9	65-118/12
156-59-2	cis-1,2-Dichloroethyl	ND		25	27.1	108	25.8	103	5	75-131/12
10061-01-5	cis-1,3-Dichloroprope	ND		25	23.7	95	21.8	87	8	62-115/13
156-60-5	trans-1,2-Dichloroeth	ND		25	26.8	107	24.7	99	8	65-127/12
10061-02-6	trans-1,3-Dichloropro	ND		25	22.8	91	20.4	82	11	51-115/13
100-41-4	Ethylbenzene	35.6		25	54.6	76	51.9	65*	5	72-119/7
591-78-6	2-Hexanone	ND		125	198	158*	177	142	11	56-143/14
108-10-1	4-Methyl-2-pentanone	40.2		125	216	141*	198	126	9	64-136/15
74-83-9	Methyl bromide	ND		25	19.6	78	18.7	75	5	44-140/19
74-87-3	Methyl chloride	ND		25	21.6	86	19.8	79	9	43-148/23
75-09-2	Methylene chloride	ND		25	27.6	110	25.9	104	6	61-131/11
78-93-3	Methyl ethyl ketone	ND		125	150	120	138	110	8	63-128/16
100-42-5	Styrene	ND		25	30.6	122*	28.8	115	6	73-120/14
71-55-6	1,1,1-Trichloroethane	ND		25	26.0	104	24.6	98	6	69-135/13
79-34-5	1,1,2,2-Tetrachloroet	ND		25	28.5	114	27.5	110	4	62-120/10
79-00-5	1,1,2-Trichloroethane	ND		25	28.7	115	26.7	107	7	71-117/10
127-18-4	Tetrachloroethylene	ND		25	27.6	110	26.2	105	5	74-123/11
108-88-3	Toluene	6.8		25	32.8	104	30.8	96	6	73-119/10
79-01-6	Trichloroethylene	0.62	J	25	26.1	102	25.5	100	2	71-124/9
75-01-4	Vinyl chloride	ND		25	22.7	91	21.1	84	7	53-149/22
1330-20-7	Xylene (total)	128		75	183	73	173	60*	6	73-123/8

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

	Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
(a)	F15089-1MS	B0012377.D	1	10/30/02	JG	n/a	n/a	VB543
(a)	F15089-1MSD	B0012378.D	1	10/30/02	JG	n/a	n/a	VB543
(a)	F15089-1	B0012372.D	1	10/30/02	JG	n/a	n/a	VB543

The QC reported here applies to the following samples: **Method:** SW846 8260B

F15100-1, F15100-2

CAS No.	Surrogate Recoveries	MS	MSD	F15089-1	Limits
1868-53-7	Dibromofluoromethane	96%	96%	95%	86-115%
17060-07-0	1,2-Dichloroethane-D4	104%	100%	101%	78-125%
2037-26-5	Toluene-D8	102%	101%	103%	87-113%
460-00-4	4-Bromofluorobenzene	97%	98%	95%	84-117%

(a) SAMPLE NOT YET APPROVED BY LAB. DO NOT REPORT.

Instrument Performance Check (BFB)

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample: VB543-BFB
Lab File ID: B0012368.D
Instrument ID: GCMSB
Injection Date: 10/30/02
Injection Time: 09:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16224	18.0		Pass
75	30.0 - 60.0% of mass 95	47322	52.5		Pass
95	Base peak, 100% relative abundance	90104	100.0		Pass
96	5.0 - 9.0% of mass 95	5830	6.5		Pass
173	Less than 2.0% of mass 174	297	0.33	(0.37[a])	Pass
174	50.0 - 100.0% of mass 95	80120	88.9		Pass
175	5.0 - 9.0% of mass 174	5824	6.5	(7.3[a])	Pass
176	95.0 - 101.0% of mass 174	76421	84.8	(95.4[a])	Pass
177	5.0 - 9.0% of mass 176	4814	5.3	(6.3[b])	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VB543-CC541	B0012369.D	10/30/02	10:04	00:30	Continuing cal 40PPB
VB543-BS	B0012370.D	10/30/02	10:32	00:58	Blank Spike
VB543-MB	B0012371.D	10/30/02	10:59	01:25	Method Blank
F15089-1	B0012372.D	10/30/02	11:26	01:52	(used for QC only; not part of job I
ZZZZZZ	B0012373.D	10/30/02	11:53	02:19	(unrelated sample)
ZZZZZZ	B0012375.D	10/30/02	12:49	03:15	(unrelated sample)
ZZZZZZ	B0012376.D	10/30/02	13:16	03:42	(unrelated sample)
F15089-1MS	B0012377.D	10/30/02	13:43	04:09	Matrix Spike
F15089-1MSD	B0012378.D	10/30/02	14:10	04:36	Matrix Spike Duplicate
ZZZZZZ	B0012379.D	10/30/02	14:38	05:04	(unrelated sample)
ZZZZZZ	B0012380.D	10/30/02	15:05	05:31	(unrelated sample)
ZZZZZZ	B0012381.D	10/30/02	15:49	06:15	(unrelated sample)
ZZZZZZ	B0012382.D	10/30/02	16:16	06:42	(unrelated sample)
ZZZZZZ	B0012383.D	10/30/02	16:43	07:09	(unrelated sample)
ZZZZZZ	B0012384.D	10/30/02	17:10	07:36	(unrelated sample)
ZZZZZZ	B0012385.D	10/30/02	17:37	08:03	(unrelated sample)
F15100-1	B0012386.D	10/30/02	18:04	08:30	CD3007
F15100-2	B0012387.D	10/30/02	18:31	08:57	CD5005
ZZZZZZ	B0012388.D	10/30/02	18:59	09:25	(unrelated sample)
ZZZZZZ	B0012389.D	10/30/02	19:28	09:54	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample: VB541-BFB
Lab File ID: B0012314.D
Instrument ID: GCMSB
Injection Date: 10/28/02
Injection Time: 07:58

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15167	18.5		Pass
75	30.0 - 60.0% of mass 95	47064	57.3		Pass
95	Base peak, 100% relative abundance	82136	100.0		Pass
96	5.0 - 9.0% of mass 95	5374	6.5		Pass
173	Less than 2.0% of mass 174	314	0.38	(0.43[a])	Pass
174	50.0 - 100.0% of mass 95	72290	88.0		Pass
175	5.0 - 9.0% of mass 174	5610	6.8	(7.8[a])	Pass
176	95.0 - 101.0% of mass 174	70090	85.3	(97.0[a])	Pass
177	5.0 - 9.0% of mass 176	4716	5.7	(6.7[b])	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VB541-IC541	B0012315.D	10/28/02	10:39	02:41	Initial cal 1PPB
VB541-IC541	B0012316.D	10/28/02	11:06	03:08	Initial cal 5PPB
VB541-IC541	B0012317.D	10/28/02	11:33	03:35	Initial cal 20PPB
VB541-ICC541	B0012318.D	10/28/02	12:00	04:02	Initial cal 40PPB
VB541-IC541	B0012319.D	10/28/02	12:27	04:29	Initial cal 70PPB
VB541-IC541	B0012320.D	10/28/02	12:54	04:56	Initial cal 100PPB

Volatile Internal Standard Area Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Check Std:	VB543-CC541	**Injection Date:**	10/30/02
Lab File ID:	B0012369.D	**Injection Time:**	10:04
Instrument ID:	GCMSB	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	1997732	9.59	1501233	12.82867021		15.3790257		6.90
Upper Limit[a]	3995464	10.093002466		13.321734042		15.87180514		7.40
Lower Limit[b]	998866	9.09	750617	12.32433511		14.8745129		6.40

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VB543-BS	2160677	9.60	1635823	12.82897300		15.3799088		6.91
VB543-MB	2205810	9.60	1485866	12.82568892		15.37103351		6.93
F15089-1	2253834	9.60	1696502	12.82931442		15.37119251		6.91
ZZZZZZ	2476107	9.61	1672942	12.82704912		15.37103653		6.92
ZZZZZZ	2201718	9.61	1481744	12.82579678		15.37104129		6.93
ZZZZZZ	2151006	9.61	1456477	12.82558895		15.3799406		6.92
F15089-1MS	2366713	9.60	1765051	12.821004440		15.37117273		6.90
F15089-1MSD	2797533	9.60	2093763	12.821135699		15.37136255		6.91
ZZZZZZ	2984138	9.61	2048046	12.82858288		15.37136770		6.92
ZZZZZZ	2819414	9.60	1889450	12.82759185		15.37134628		6.92
ZZZZZZ	2588031	9.60	1733265	12.82697407		15.37133264		6.92
ZZZZZZ	2493708	9.60	1692813	12.82651273		15.37102450		6.92
ZZZZZZ	2378687	9.61	1563117	12.82589721		15.37107259		6.93
ZZZZZZ	2337180	9.60	1743025	12.82850657		15.37106511		6.92
ZZZZZZ	2418385	9.61	1589839	12.82633526		15.37116115		6.93
F15100-1	2204809	9.61	1497938	12.82567421		15.37101697		6.92
F15100-2	2124766	9.61	1407855	12.82535728		15.3799926		6.94
ZZZZZZ	2151310	9.60	1483275	12.82627705		15.37104387		6.92
ZZZZZZ	1985308	9.60	1367856	12.82498962		15.3792402		6.93

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
F15100-1	B0012386.D	98.0	99.0	107.0	116.0
F15100-2	B0012387.D	97.0	101.0	109.0	114.0
F15089-1MS[a]	B0012377.D	96.0	104.0	102.0	97.0
F15089-1MSD[a]	B0012378.D	96.0	100.0	101.0	98.0
VB543-BS	B0012370.D	98.0	105.0	101.0	97.0
VB543-MB	B0012371.D	97.0	100.0	107.0	115.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	86-115%
S2 = 1,2-Dichloroethane-D4	78-125%
S3 = Toluene-D8	87-113%
S4 = 4-Bromofluorobenzene	84-117%

(a) SAMPLE NOT YET APPROVED BY LAB. DO NOT REPORT.

Initial Calibration Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample: VB541-ICC541
Lab FileID: B0012318.D

Response Factor Report MSVOA4

Method : C:\MSDCHEM\1\METHODS\8260A.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Mon Oct 28 16:12:58 2002
Response via : Initial Calibration

Calibration Files
1 =B0012315.D 2 =B0012316.D 3 =B0012317.D
4 =B0012318.D 5 =B0012319.D 6 =B0012320.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.365	0.413	0.397	0.392	0.385	0.353	0.384	5.65
3)	P	Chloromethane	0.263	0.269	0.232	0.238	0.237	0.220	0.243	7.72
4)	C	Vinyl Chloride	0.274	0.303	0.268	0.278	0.265	0.251	0.273	6.35
5)		Bromomethane	0.227	0.201	0.187	0.189	0.182	0.172	0.193	9.88
6)		Chloroethane	0.142	0.155	0.143	0.140	0.135	0.127	0.140	6.71
7)		Trichlorofluorometh	0.413	0.500	0.473	0.458	0.455	0.443	0.457	6.35
8)		Ethyl Ether	0.134	0.150	0.150	0.142	0.141	0.138	0.142	4.53
9)	C	1,1-Dichloroethene	0.412	0.450	0.435	0.438	0.421	0.402	0.426	4.22
10)		Freon 113	0.233	0.285	0.271	0.262	0.256	0.242	0.258	7.39
11)		Acetone		0.055	0.049	0.049	0.048	0.046	0.049	7.18
12)		Iodomethane	0.356	0.415	0.407	0.404	0.408	0.400	0.398	5.39
13)		Methyl acetate	0.141	0.117	0.118	0.117	0.112	0.111	0.120	9.32
14)		Carbon Disulfide	0.906	0.815	0.788	0.801	0.768	0.747	0.804	6.86
15)		Methylene Chloride	1.222	0.425	0.342	0.313	0.288	0.275	0.478	77.11
		----- Linear regression ----- Coefficient = 0.9982								
		Response Ratio = 0.02444 + 0.26728 *A								
16)		trans-1,2-Dichloroe	0.334	0.372	0.366	0.354	0.358	0.346	0.355	3.85
17)		Acrylonitrile	0.048	0.056	0.053	0.051	0.053	0.051	0.052	5.00
18)		Methyl Tert Butyl E	0.614	0.658	0.693	0.703	0.716	0.697	0.680	5.53
19)		Hexane	0.240	0.225	0.234	0.224	0.231	0.222	0.229	3.02
20)	P	1,1-Dichloroethane	0.435	0.510	0.487	0.463	0.462	0.444	0.467	5.98
21)		ETBE	0.478	0.649	0.669	0.701	0.710	0.694	0.650	13.42
22)		Vinyl acetate		0.213	0.192	0.185	0.195	0.188	0.195	5.68
23)		Di-isopropyl ether	0.487	0.622	0.639	0.628	0.632	0.614	0.603	9.59
24)		2,2-Dichloropropane	0.280	0.365	0.354	0.342	0.334	0.317	0.332	9.16
25)		cis-1,2-Dichloroeth	0.244	0.288	0.269	0.270	0.271	0.265	0.268	5.24
26)		2-Butanone	0.057	0.061	0.062	0.064	0.064	0.062	0.062	3.95
27)		Bromochloromethane	0.114	0.135	0.129	0.128	0.130	0.126	0.127	5.64
28)	C	Chloroform	0.620	0.626	0.574	0.562	0.562	0.543	0.581	5.85
29)		Tetrahydrofuran	0.031	0.034	0.037	0.038	0.035	0.036	0.035	7.35
30)		1,1,1-Trichloroetha	0.439	0.534	0.502	0.482	0.496	0.474	0.488	6.49
31)	S	Dibromofluoromethan	0.296	0.295	0.294	0.291	0.289	0.283	0.291	1.59
32)		Cyclohexane	0.262	0.302	0.307	0.304	0.316	0.307	0.300	6.33
33)		1,1-Dichloropropene	0.286	0.351	0.356	0.355	0.366	0.349	0.344	8.38
34)		Carbon Tetrachlorid	0.376	0.449	0.454	0.449	0.469	0.450	0.441	7.44
35)	S	1,2-Dichloroethane-	0.379	0.381	0.391	0.389	0.364	0.344	0.375	4.77
36)		TAME	0.573	0.660	0.683	0.697	0.715	0.700	0.671	7.64
37)		Benzene	0.936	1.101	1.026	0.995	0.996	0.972	1.004	5.59
38)		1,2-Dichloroethane	0.492	0.454	0.426	0.417	0.417	0.397	0.434	7.82
39)		Trichloroethene	0.269	0.287	0.280	0.276	0.286	0.281	0.280	2.42
40)		Methylcyclohexane	0.338	0.341	0.354	0.347	0.365	0.354	0.350	2.84
41)	C	1,2-Dichloropropane	0.220	0.254	0.246	0.241	0.238	0.235	0.239	4.80
42)		Dibromomethane	0.159	0.168	0.166	0.168	0.165	0.161	0.164	2.19
43)		Bromodichloromethan	0.377	0.416	0.429	0.421	0.430	0.420	0.415	4.75

Initial Calibration Summary

Job Number: F15100 **Sample:** VB541-ICC541
Account: ITTNKNOX Shaw E & I, Inc. **Lab FileID:** B0012318.D
Project: PBOW

44)		2-Nitropropane	0.041	0.051	0.055	0.056	0.056	0.054	0.052	11.11
45)		2-Chloroethyl vinyl		0.062	0.069	0.071	0.072	0.069	0.069	5.46
46)		4-Methyl-2-pentanon	0.109	0.127	0.144	0.147	0.147	0.141	0.136	11.19
47)		cis-1,3-Dichloropro	0.322	0.405	0.428	0.432	0.450	0.438	0.412	11.34
48)	I	Chlorobenzene-d5	----------ISTD----------							
49)	S	Toluene-d8	1.311	1.285	1.284	1.258	1.244	1.260	1.274	1.89
50)	C	Toluene	1.473	1.496	1.410	1.365	1.365	1.345	1.409	4.45
51)		trans-1,3-Dichlorop	0.436	0.458	0.499	0.518	0.529	0.522	0.494	7.73
52)		1,1,2-Trichloroetha	0.252	0.246	0.241	0.241	0.237	0.233	0.241	2.78
53)		Tetrachloroethene	0.374	0.405	0.391	0.381	0.389	0.383	0.387	2.73
54)		2-hexanone	0.089	0.098	0.115	0.123	0.124	0.122	0.112	13.31
55)		1,3-Dichloropropane	0.492	0.509	0.503	0.495	0.490	0.477	0.495	2.22
56)		Dibromochloromethan	0.316	0.338	0.359	0.363	0.370	0.370	0.353	6.13
57)		1,2-Dibromoethane	0.262	0.285	0.299	0.298	0.304	0.299	0.291	5.33
58)		1-Chlorohexane	0.290	0.351	0.407	0.409	0.427	0.416	0.383	13.70
59)	P	Chlorobenzene	0.922	0.942	0.919	0.910	0.913	0.895	0.917	1.70
60)		1,1,1,2-Tetrachloro	0.379	0.387	0.386	0.387	0.395	0.388	0.387	1.32
61)	C	Ethylbenzene	1.428	1.624	1.645	1.638	1.656	1.624	1.602	5.38
62)		m,p-Xylene	1.114	1.286	1.309	1.309	1.323	1.277	1.270	6.14
63)		o-Xylene	1.111	1.262	1.356	1.361	1.361	1.323	1.296	7.59
64)		Styrene	0.699	0.879	0.992	1.010	1.021	0.993	0.933	13.43
65)	P	Bromoform	0.209	0.191	0.219	0.238	0.253	0.253	0.227	11.04
66)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
67)		Isopropylbenzene	2.521	2.759	2.852	2.648	2.808	2.798	2.731	4.54
68)	S	4-Bromofluorobenzen	1.078	1.053	1.021	0.969	0.976	1.005	1.017	4.21
69)		Bromobenzene	0.929	0.881	0.839	0.766	0.791	0.795	0.834	7.44
70)	P	1,1,2,2-Tetrachloro	0.726	0.627	0.601	0.567	0.572	0.574	0.611	9.97
71)		trans-1,4-Dichloro-	0.125	0.052	0.079	0.094	0.110	0.118	0.096	28.41
		----- Linear regression ----- Coefficient = 0.9925								
		Response Ratio = -0.00969 + 0.11924 *A								
72)		1,2,3-Trichloroprop	0.232	0.218	0.202	0.187	0.192	0.193	0.204	8.59
73)		n-Propylbenzene	3.446	3.377	3.454	3.238	3.362	3.320	3.366	2.41
74)		2-Chlorotoluene	2.449	2.642	2.498	2.318	2.404	2.358	2.445	4.74
75)		4-Chlorotoluene	2.259	2.176	2.174	2.087	2.167	2.156	2.170	2.53
76)		1,3,5-Trimethylbenz	2.256	2.349	2.400	2.315	2.409	2.381	2.352	2.47
77)		sec-Butylbenzene	2.669	2.504	2.615	2.561	2.662	2.582	2.599	2.43
78)		1,3-Dichlorobenzene	1.463	1.330	1.267	1.264	1.287	1.262	1.312	5.96
79)		4-Isopropyltoluene	1.968	1.914	2.091	2.063	2.117	2.074	2.038	3.89
80)		1,4-Dichlorobenzene	1.617	1.433	1.334	1.307	1.328	1.298	1.386	8.87
81)		tert-Butylbenzene	1.440	1.390	1.442	1.418	1.454	1.421	1.428	1.60
82)		Benzyl Chloride	1.025	0.851	0.962	1.008	1.060	1.032	0.990	7.61
83)		n-Butylbenzene	1.860	1.647	1.857	1.855	1.917	1.842	1.830	5.11
84)		1,2-Dichlorobenzene	1.427	1.196	1.187	1.195	1.200	1.163	1.228	8.00
85)		1,2,4-Trimethylbenz	2.138	2.333	2.389	2.351	2.443	2.401	2.343	4.58
86)		1,2-Dibromo-3-Chlor		0.090	0.086	0.090	0.094	0.091	0.090	3.23
87)		1,2,4-Trichlorobenz		0.484	0.565	0.619	0.687	0.706	0.612	14.84
88)		Hexachlorobutadiene		0.414	0.407	0.399	0.424	0.424	0.413	2.61
89)		Naphthalene	2.582	0.740	0.850	0.973	1.104	1.146	1.233	55.06
		----- Linear regression ----- Coefficient = 0.9948								
		Response Ratio = -0.05831 + 1.15092 *A								
90)		1,2,3-Trichlorobenz		0.380	0.421	0.468	0.518	0.539	0.465	14.22
91)	I	Tert Butyl alcohol-d1	----------ISTD----------							
92)		Acrolein	2.567	2.587	2.571	2.342	2.406	2.432	2.484	4.19
93)		Tert-Butyl Alcohol	1.905	1.551	1.441	1.569	1.564	1.591	1.603	9.79
94)		1,4-Dioxane		0.175	0.187	0.193	0.193	0.209	0.191	6.29

Initial Calibration Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW
Sample: VB541-ICC541
Lab FileID: B0012318.D

95) Cyclohexanone 1.992 0.639 0.486 0.411 0.436 0.465 0.738 83.92
----- Linear regression ----- Coefficient = 0.9946
Response Ratio = 0.01207 + 0.44364 *A

(#) = Out of Range

8260A.M Wed Oct 30 17:54:05 2002 RPT1

Continuing Calibration Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample: VB543-CC541
Lab FileID: B0012369.D

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\103002\B0012369.D Vial: 1
Acq On : 30 Oct 2002 10:04 am Operator: JuanG
Sample : CC541-40ppb Inst : MSVOA4
Misc : ms1850,vb543,,,,, Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\8260A.M (RTE Integrator)
Title : EPA 624 & SWA 5030B/8260B
Last Update : Mon Oct 28 16:12:58 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	80	0.00
2		Dichlorodifluoromethane	0.384	0.335	12.8	68	0.00
3	P	Chloromethane	0.243	0.216	11.1	72	0.00
4	C	Vinyl Chloride	0.273	0.236	13.6	68	0.00
5		Bromomethane	0.193	0.189	2.1	80	0.00
6		Chloroethane	0.140	0.138	1.4	78	0.00
7		Trichlorofluoromethane	0.457	0.429	6.1	75	0.00
8		Ethyl Ether	0.142	0.150	-5.6	84	0.00
9	C	1,1-Dichloroethene	0.426	0.442	-3.8	80	0.00
10		Freon 113	0.258	0.260	-0.8	79	0.00
11		Acetone	0.049	0.058	-18.4	93	0.00
12		Iodomethane	0.398	0.390	2.0	77	0.00
13		Methyl acetate	0.120	0.132	-10.0	90	0.00
14		Carbon Disulfide	0.804	0.760	5.5	76	-0.01
15		Methylene Chloride	0.478	0.398	16.7	101	0.05
16		trans-1,2-Dichloroethene	0.355	0.352	0.8	79	-0.01
17		Acrylonitrile	0.052	0.059	-13.5	92	0.00
18		Methyl Tert Butyl Ether	0.680	0.702	-3.2	80	0.00
19		Hexane	0.229	0.222	3.1	79	-0.01
20	P	1,1-Dichloroethane	0.467	0.467	0.0	80	0.00
21		ETBE	0.650	0.706	-8.6	80	0.00
22		Vinyl acetate	0.195	0.223	-14.4	96	0.00
23		Di-isopropyl ether	0.603	0.660	-9.5	84	0.00
24		2,2-Dichloropropane	0.332	0.285	14.2	66	0.00
25		cis-1,2-Dichloroethene	0.268	0.270	-0.7	80	0.00
26		2-Butanone	0.062	0.070	-12.9	88	0.00
27		Bromochloromethane	0.127	0.130	-2.4	81	0.00
28	C	Chloroform	0.581	0.557	4.1	79	0.00
29		Tetrahydrofuran	0.035	0.039	-11.4	82	0.00
30		1,1,1-Trichloroethane	0.488	0.436	10.7	72	-0.01
31	S	Dibromofluoromethane	0.291	0.283	2.7	77	0.00
32		Cyclohexane	0.300	0.293	2.3	77	0.00
33		1,1-Dichloropropene	0.344	0.329	4.4	74	-0.01
34		Carbon Tetrachloride	0.441	0.432	2.0	77	0.00
35	S	1,2-Dichloroethane-d4	0.375	0.401	-6.9	82	0.00
36		TAME	0.671	0.700	-4.3	80	0.00
37		Benzene	1.004	0.995	0.9	80	0.00
38		1,2-Dichloroethane	0.434	0.437	-0.7	84	0.00
39		Trichloroethene	0.280	0.260	7.1	75	-0.01
40		Methylcyclohexane	0.350	0.320	8.6	73	0.00
41	C	1,2-Dichloropropane	0.239	0.245	-2.5	81	0.00
42		Dibromomethane	0.164	0.172	-4.9	82	0.00

Continuing Calibration Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW
Sample: VB543-CC541
Lab FileID: B0012369.D

43		Bromodichloromethane	0.415	0.436	-5.1	82	0.00
44		2-Nitropropane	0.052	0.060	-15.4	85	0.00
45		2-Chloroethyl vinyl ether	0.069	0.058	15.9	65	0.00
46		4-Methyl-2-pentanone	0.136	0.164	-20.6#	89	0.00
47		cis-1,3-Dichloropropene	0.412	0.452	-9.7	83	0.00
48	I	Chlorobenzene-d5	1.000	1.000	0.0	76	0.00
49	S	Toluene-d8	1.274	1.296	-1.7	78	0.00
50	C	Toluene	1.409	1.439	-2.1	80	0.00
51		trans-1,3-Dichloropropene	0.494	0.566	-14.6	83	0.00
52		1,1,2-Trichloroethane	0.241	0.265	-10.0	83	0.00
53		Tetrachloroethene	0.387	0.373	3.6	74	0.00
54		2-hexanone	0.112	0.140	-25.0#	86	0.00
55		1,3-Dichloropropane	0.495	0.549	-10.9	84	0.00
56		Dibromochloromethane	0.353	0.407	-15.3	85	0.00
57		1,2-Dibromoethane	0.291	0.320	-10.0	82	0.00
58		1-Chlorohexane	0.383	0.403	-5.2	75	0.00
59	P	Chlorobenzene	0.917	0.959	-4.6	80	0.00
60		1,1,1,2-Tetrachloroethane	0.387	0.416	-7.5	82	0.00
61	C	Ethylbenzene	1.602	1.692	-5.6	78	0.00
62		m,p-Xylene	1.270	1.352	-6.5	79	0.00
63		o-Xylene	1.296	1.411	-8.9	79	0.00
64		Styrene	0.933	1.048	-12.3	79	0.00
65	P	Bromoform	0.227	0.284	-25.1#	91	0.00
66	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	77	0.00
67		Isopropylbenzene	2.731	2.730	0.0	79	0.00
68	S	4-Bromofluorobenzene	1.017	0.964	5.2	76	0.00
69		Bromobenzene	0.834	0.819	1.8	82	0.00
70	P	1,1,2,2-Tetrachloroethane	0.611	0.653	-6.9	89	0.00
71		trans-1,4-Dichloro-2-Butene	0.096	0.166	-72.9#	136	0.00
72		1,2,3-Trichloropropane	0.204	0.208	-2.0	85	0.00
73		n-Propylbenzene	3.366	3.384	-0.5	80	0.00
74		2-Chlorotoluene	2.445	2.451	-0.2	81	0.00
75		4-Chlorotoluene	2.170	2.181	-0.5	80	0.00
76		1,3,5-Trimethylbenzene	2.352	2.408	-2.4	80	0.00
77		sec-Butylbenzene	2.599	2.626	-1.0	79	0.00
78		1,3-Dichlorobenzene	1.312	1.337	-1.9	81	0.00
79		4-Isopropyltoluene	2.038	2.125	-4.3	79	0.00
80		1,4-Dichlorobenzene	1.386	1.368	1.3	81	0.00
81		tert-Butylbenzene	1.428	1.430	-0.1	78	0.00
82		Benzyl Chloride	0.990	1.167	-17.9	89	0.00
83		n-Butylbenzene	1.830	1.937	-5.8	80	0.00
84		1,2-Dichlorobenzene	1.228	1.289	-5.0	83	0.00
85		1,2,4-Trimethylbenzene	2.343	2.460	-5.0	80	0.00
86		1,2-Dibromo-3-Chloropropane	0.090	0.100	-11.1	86	0.00
87		1,2,4-Trichlorobenzene	0.612	0.643	-5.1	80	0.00
88		Hexachlorobutadiene	0.413	0.402	2.7	77	0.00
89		Naphthalene	1.233	1.072	13.1	85	0.00
90		1,2,3-Trichlorobenzene	0.465	0.512	-10.1	84	0.00
91	I	Tert Butyl alcohol-d10	1.000	1.000	0.0	72	-0.01
92		Acrolein	2.484	2.964	-19.3	92	0.00
93		Tert-Butyl Alcohol	1.603	1.736	-8.3	80	-0.01
94		1,4-Dioxane	0.191	0.222	-16.2	83	-0.01
95		Cyclohexanone	0.738	0.520	29.5#	91	0.00

Average % D = 8.3

Continuing Calibration Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample: VB543-CC541
Lab FileID: B0012369.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
B0012318.D 8260A.M Fri Nov 01 12:14:50 2002 RPT1

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Blank Spike Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6170-BS	L015093.D	1	10/28/02	ME	10/24/02	OP6170	SL834

The QC reported here applies to the following samples: **Method:** SW846 8270C

F15100-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	43.9	88	42-119
59-50-7	4-Chloro-3-methyl phe	50	44.1	88	58-117
120-83-2	2,4-Dichlorophenol	50	45.2	90	45-125
105-67-9	2,4-Dimethylphenol	50	36.0	72	33-100
51-28-5	2,4-Dinitrophenol	50	54.5	109	14-157
534-52-1	4,6-Dinitro-o-cresol	50	43.3	87	31-145
95-48-7	2-Methylphenol	50	39.4	79	51-102
	3&4-Methylphenol	100	74.9	75	44-99
88-75-5	2-Nitrophenol	50	45.9	92	44-130
100-02-7	4-Nitrophenol	50	23.2	46	16-71
87-86-5	Pentachlorophenol	50	50.4	101	36-141
108-95-2	Phenol	50	18.6	37	20-66
95-95-4	2,4,5-Trichlorophenol	50	49.1	98	46-132
88-06-2	2,4,6-Trichlorophenol	50	47.4	95	39-130
83-32-9	Acenaphthene	50	46.8	94	68-112
208-96-8	Acenaphthylene	50	49.5	99	76-124
120-12-7	Anthracene	50	45.8	92	77-119
56-55-3	Benzo(a)anthracene	50	44.7	89	75-117
50-32-8	Benzo(a)pyrene	50	45.8	92	79-124
205-99-2	Benzo(b)fluoranthene	50	46.9	94	74-121
191-24-2	Benzo(g,h,i)perylene	50	42.3	85	59-137
207-08-9	Benzo(k)fluoranthene	50	44.9	90	73-120
101-55-3	4-Bromophenyl phenyl	50	46.0	92	73-115
85-68-7	Butyl benzyl phthalat	50	44.5	89	71-123
100-51-6	Benzyl Alcohol	50	39.2	78	45-107
91-58-7	2-Chloronaphthalene	50	47.5	95	66-113
106-47-8	4-Chloroaniline	50	42.5	85	61-116
86-74-8	Carbazole	50	47.7	95	75-118
218-01-9	Chrysene	50	43.2	86	73-115
111-91-1	bis(2-Chloroethoxy)me	50	44.2	88	67-113
111-44-4	bis(2-Chloroethyl)eth	50	45.4	91	64-111
108-60-1	bis(2-Chloroisopropyl	50	45.3	91	60-114
7005-72-3	4-Chlorophenyl phenyl	50	47.7	95	75-113
95-50-1	1,2-Dichlorobenzene	50	43.7	87	51-113
541-73-1	1,3-Dichlorobenzene	50	43.8	88	47-110
106-46-7	1,4-Dichlorobenzene	50	45.2	90	48-111

Blank Spike Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6170-BS	L015093.D	1	10/28/02	ME	10/24/02	OP6170	SL834

The QC reported here applies to the following samples: **Method:** SW846 8270C

F15100-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	50	49.9	100	75-126
606-20-2	2,6-Dinitrotoluene	50	50.7	101	79-125
91-94-1	3,3'-Dichlorobenzidir	50	46.5	93	57-126
53-70-3	Dibenzo(a,h)anthracer	50	43.4	87	61-131
132-64-9	Dibenzofuran	50	48.5	97	70-108
84-74-2	Di-n-butyl phthalate	50	48.0	96	78-122
117-84-0	Di-n-octyl phthalate	50	44.9	90	69-134
84-66-2	Diethyl phthalate	50	47.3	95	69-121
131-11-3	Dimethyl phthalate	50	45.6	91	43-136
117-81-7	bis(2-Ethylhexyl)phtl	50	46.7	93	77-129
206-44-0	Fluoranthene	50	47.7	95	75-123
86-73-7	Fluorene	50	47.3	95	75-115
118-74-1	Hexachlorobenzene	50	44.6	89	74-115
87-68-3	Hexachlorobutadiene	50	39.3	79	41-105
77-47-4	Hexachlorocyclopentac	50	34.4	69	26-99
67-72-1	Hexachloroethane	50	44.8	90	42-115
193-39-5	Indeno(1,2,3-cd)pyrer	50	40.4	81	62-131
78-59-1	Isophorone	50	45.7	91	66-114
91-57-6	2-Methylnaphthalene	50	43.3	87	58-108
88-74-4	2-Nitroaniline	50	48.6	97	72-118
99-09-2	3-Nitroaniline	50	44.5	89	65-116
100-01-6	4-Nitroaniline	50	48.4	97	68-127
91-20-3	Naphthalene	50	44.4	89	63-113
98-95-3	Nitrobenzene	50	45.0	90	66-115
621-64-7	N-Nitroso-di-n-propyl	50	45.8	92	65-121
86-30-6	N-Nitrosodiphenylamir	50	49.4	99	79-125
85-01-8	Phenanthrene	50	45.4	91	73-115
129-00-0	Pyrene	50	39.6	79	67-118
120-82-1	1,2,4-Trichlorobenzer	50	44.8	90	55-113

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	64%	19-90%
4165-62-2	Phenol-d5	41%	10-68%
118-79-6	2,4,6-Tribromophenol	95%	36-137%

Blank Spike Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6170-BS	L015093.D	1	10/28/02	ME	10/24/02	OP6170	SL834

The QC reported here applies to the following samples: **Method:** SW846 8270C

F15100-1

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	92%	49-119%
321-60-8	2-Fluorobiphenyl	97%	45-118%
1718-51-0	Terphenyl-d14	88%	46-135%

Method Blank Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6170-MB	L015094.D	1	10/28/02	ME	10/24/02	OP6170	SL834

The QC reported here applies to the following samples: **Method:** SW846 8270C

F15100-1

CAS No.	Compound	Result	RL	Units	Q
65-85-0	Benzoic Acid	ND	25	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
59-50-7	4-Chloro-3-methyl phe	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	ug/l	
95-48-7	2-Methylphenol	ND	5.0	ug/l	
	3&4-Methylphenol	ND	5.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	25	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	5.0	ug/l	
208-96-8	Acenaphthylene	ND	5.0	ug/l	
120-12-7	Anthracene	ND	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	ug/l	
101-55-3	4-Bromophenyl phenyl	ND	5.0	ug/l	
85-68-7	Butyl benzyl phthalat	ND	5.0	ug/l	
100-51-6	Benzyl Alcohol	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
86-74-8	Carbazole	ND	5.0	ug/l	
218-01-9	Chrysene	ND	5.0	ug/l	
111-91-1	bis(2-Chloroethoxy)me	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)eth	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl	ND	5.0	ug/l	
7005-72-3	4-Chlorophenyl phenyl	ND	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	ug/l	

Method Blank Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6170-MB	L015094.D	1	10/28/02	ME	10/24/02	OP6170	SL834

The QC reported here applies to the following samples: **Method:** SW846 8270C

F15100-1

CAS No.	Compound	Result	RL	Units	Q
106-46-7	1,4-Dichlorobenzene	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidir	ND	10	ug/l	
53-70-3	Dibenzo(a,h)anthracer	ND	5.0	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
84-74-2	Di-n-butyl phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl phthalate	ND	5.0	ug/l	
84-66-2	Diethyl phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl phthalate	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phtl	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	ug/l	
86-73-7	Fluorene	ND	5.0	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentac	ND	5.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrer	ND	5.0	ug/l	
78-59-1	Isophorone	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propyl	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamir	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	5.0	ug/l	
129-00-0	Pyrene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzer	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	66%	19-90%
4165-62-2	Phenol-d5	43%	10-68%

Method Blank Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6170-MB	L015094.D	1	10/28/02	ME	10/24/02	OP6170	SL834

The QC reported here applies to the following samples: **Method:** SW846 8270C

F15100-1

CAS No.	Surrogate Recoveries		Limits
118-79-6	2,4,6-Tribromophenol	96%	36-137%
4165-60-0	Nitrobenzene-d5	100%	49-119%
321-60-8	2-Fluorobiphenyl	98%	45-118%
1718-51-0	Terphenyl-d14	90%	46-135%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6170-MS	L015096.D	1	10/28/02	ME	10/24/02	OP6170	SL834
OP6170-MSD	L015097.D	1	10/28/02	ME	10/24/02	OP6170	SL834
F15089-1	L015095.D	1	10/28/02	ME	10/24/02	OP6170	SL834

The QC reported here applies to the following samples: **Method:** SW846 8270C

F15100-1

CAS No.	Compound	F15089-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		106	71.3	67	69.0	65	3	49-112/26
59-50-7	4-Chloro-3-methyl phe	ND		106	113	106	107	101	5	60-116/21
120-83-2	2,4-Dichlorophenol	ND		106	101	95	102	96	1	55-115/27
105-67-9	2,4-Dimethylphenol	4.5	J	106	92.6	83	90.6	81	2	28-105/25
51-28-5	2,4-Dinitrophenol	ND		106	153	144	139	131	10	10-151/47
534-52-1	4,6-Dinitro-o-cresol	ND		106	109	102	102	96	7	27-146/28
95-48-7	2-Methylphenol	ND		106	97.3	91	96.4	91	1	51-110/21
	3&4-Methylphenol	3.3	J	213	194	90	190	88	2	51-108/21
88-75-5	2-Nitrophenol	ND		106	95.7	90	97.0	91	1	53-119/23
100-02-7	4-Nitrophenol	ND		106	78.5	74	75.1	71	4	23-102/28
87-86-5	Pentachlorophenol	ND		106	129	121	118	111	9	33-147/29
108-95-2	Phenol	ND		106	60.7	57	59.8	56	1	31-87/25
95-95-4	2,4,5-Trichlorophenol	ND		106	98.7	93	94.9	89	4	57-122/26
88-06-2	2,4,6-Trichlorophenol	ND		106	110	103	108	102	2	49-122/24
83-32-9	Acenaphthene	ND		106	105	99	100	94	5	52-125/20
208-96-8	Acenaphthylene	ND		106	104	98	98.7	93	5	66-132/18
120-12-7	Anthracene	ND		106	107	101	99.4	93	7	68-126/19
56-55-3	Benzo(a)anthracene	ND		106	106	100	101	95	5	67-122/19
50-32-8	Benzo(a)pyrene	ND		106	106	100	102	96	4	69-130/18
205-99-2	Benzo(b)fluoranthene	ND		106	106	100	97.1	91	9	65-128/20
191-24-2	Benzo(g,h,i)perylene	ND		106	108	102	101	95	7	52-145/21
207-08-9	Benzo(k)fluoranthene	ND		106	96.8	91	91.6	86	6	65-125/19
101-55-3	4-Bromophenyl phenyl	ND		106	110	103	90.5	85	19	64-123/20
85-68-7	Butyl benzyl phthalat	ND		106	105	99	102	96	3	62-130/22
100-51-6	Benzyl Alcohol	ND		106	98.2	92	96.0	90	2	49-114/19
91-58-7	2-Chloronaphthalene	ND		106	103	97	98.1	92	5	58-119/20
106-47-8	4-Chloroaniline	ND		106	91.6	86	81.4	77	12	47-113/19
86-74-8	Carbazole	ND		106	109	102	101	95	8	61-127/19
218-01-9	Chrysene	ND		106	96.3	91	93.5	88	3	65-120/19
111-91-1	bis(2-Chloroethoxy)me	ND		106	99.8	94	96.4	91	3	54-120/22
111-44-4	bis(2-Chloroethyl)eth	ND		106	99.9	94	96.7	91	3	52-118/22
108-60-1	bis(2-Chloroisopropyl	ND		106	101	95	97.3	91	4	50-120/22
7005-72-3	4-Chlorophenyl phenyl	ND		106	105	99	99.4	93	5	66-120/18
95-50-1	1,2-Dichlorobenzene	ND		106	100	94	96.8	91	3	46-115/23
541-73-1	1,3-Dichlorobenzene	ND		106	70.2	66	69.5	65	1	45-110/23
106-46-7	1,4-Dichlorobenzene	ND		106	97.1	91	94.7	89	3	46-112/23

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6170-MS	L015096.D	1	10/28/02	ME	10/24/02	OP6170	SL834
OP6170-MSD	L015097.D	1	10/28/02	ME	10/24/02	OP6170	SL834
F15089-1	L015095.D	1	10/28/02	ME	10/24/02	OP6170	SL834

The QC reported here applies to the following samples: **Method:** SW846 8270C

F15100-1

CAS No.	Compound	F15089-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
121-14-2	2,4-Dinitrotoluene	ND		106	102	96	99.0	93	3	67-131/20
606-20-2	2,6-Dinitrotoluene	ND		106	96.2	90	92.8	87	4	70-131/19
91-94-1	3,3'-Dichlorobenzidir	ND		106	22.6	21	18.9	18*	18	19-136/23
53-70-3	Dibenzo(a,h)anthracer	ND		106	110	103	102	96	8	55-137/21
132-64-9	Dibenzofuran	ND		106	109	102	102	96	7	62-115/20
84-74-2	Di-n-butyl phthalate	ND		106	110	103	103	97	7	71-127/19
117-84-0	Di-n-octyl phthalate	ND		106	113	106	108	102	5	60-143/29
84-66-2	Diethyl phthalate	ND		106	96.4	91	94.2	89	2	58-129/20
131-11-3	Dimethyl phthalate	ND		106	88.5	83	87.9	83	1	31-145/33
117-81-7	bis(2-Ethylhexyl)phtl	ND		106	115	108	111	104	4	69-137/29
206-44-0	Fluoranthene	ND		106	109	102	102	96	7	68-128/18
86-73-7	Fluorene	ND		106	105	99	98.8	93	6	64-124/18
118-74-1	Hexachlorobenzene	ND		106	110	103	99.4	93	10	65-123/18
87-68-3	Hexachlorobutadiene	ND		106	92.6	87	89.4	84	4	41-106/24
77-47-4	Hexachlorocyclopentac	ND		106	83.9	79	78.3	74	7	22-103/35
67-72-1	Hexachloroethane	ND		106	118	111	115	108	3	42-115/25
193-39-5	Indeno(1,2,3-cd)pyrer	ND		106	107	101	104	98	3	57-137/22
78-59-1	Isophorone	ND		106	100	94	98.7	93	1	56-119/20
91-57-6	2-Methylnaphthalene	49.2		106	146	91	144	89	1	49-114/21
88-74-4	2-Nitroaniline	ND		106	106	100	106	100	0	61-124/20
99-09-2	3-Nitroaniline	ND		106	80.4	76	79.4	75	1	48-118/20
100-01-6	4-Nitroaniline	ND		106	92.6	87	91.2	86	2	56-129/26
91-20-3	Naphthalene	78.5		106	177	93	177	93	0	53-119/21
98-95-3	Nitrobenzene	ND		106	101	95	99.3	93	2	55-122/22
621-64-7	N-Nitroso-di-n-propyl	ND		106	101	95	98.7	93	2	56-125/21
86-30-6	N-Nitrosodiphenylamir	ND		106	100	94	95.2	89	5	72-131/19
85-01-8	Phenanthrene	ND		106	110	103	90.8	85	19	63-123/19
129-00-0	Pyrene	ND		106	88.2	83	86.4	81	2	58-125/25
120-82-1	1,2,4-Trichlorobenzer	ND		106	102	96	101	95	1	51-116/22

CAS No.	Surrogate Recoveries	MS	MSD	F15089-1	Limits
367-12-4	2-Fluorophenol	88%	86%	64%	19-90%
4165-62-2	Phenol-d5	58%	57%	37%	10-68%
118-79-6	2,4,6-Tribromophenol	107%	92%	104%	36-137%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6170-MS	L015096.D	1	10/28/02	ME	10/24/02	OP6170	SL834
OP6170-MSD	L015097.D	1	10/28/02	ME	10/24/02	OP6170	SL834
F15089-1	L015095.D	1	10/28/02	ME	10/24/02	OP6170	SL834

The QC reported here applies to the following samples: **Method:** SW846 8270C

F15100-1

CAS No.	Surrogate Recoveries	MS	MSD	F15089-1	Limits
4165-60-0	Nitrobenzene-d5	94%	92%		49-119%
321-60-8	2-Fluorobiphenyl	100%	92%		45-118%
1718-51-0	Terphenyl-d14	92%	91%		46-135%

Instrument Performance Check (DFTPP)

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample: SL834-DFTPP **Injection Date:** 10/28/02
Lab File ID: L015086.D **Injection Time:** 14:01
Instrument ID: GCMSL

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	79083	40.5		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0[a])	Pass
69	Mass 69 relative abundance	67683	34.7		Pass
70	Less than 2.0% of mass 69	392	0.2	(0.58[a])	Pass
127	40.0 - 60.0% of mass 198	89616	45.9		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	195107	100.0		Pass
199	5.0 - 9.0% of mass 198	13018	6.7		Pass
275	10.0 - 30.0% of mass 198	39440	20.2		Pass
365	1.0 - 100.0% of mass 198	4040	2.1		Pass
441	Present, but less than mass 443	20482	10.5	(72.8[b])	Pass
442	40.0 - 100.0% of mass 198	142891	73.2		Pass
443	17.0 - 23.0% of mass 442	28130	14.4	(19.7[c])	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL834-CC832	L015087.D	10/28/02	14:23	00:22	Continuing cal 75
OP6193-LBS	L015088.D	10/28/02	14:55	00:54	Blank Spike
OP6193-LB	L015089.D	10/28/02	15:26	01:25	Leachate Blank
F15125-1	L015090.D	10/28/02	15:58	01:57	(used for QC only; not part of job I
OP6193-MS	L015091.D	10/28/02	16:30	02:29	Matrix Spike
OP6193-MSD	L015092.D	10/28/02	17:02	03:01	Matrix Spike Duplicate
OP6170-BS	L015093.D	10/28/02	17:34	03:33	Blank Spike
OP6170-MB	L015094.D	10/28/02	18:05	04:04	Method Blank
F15089-1	L015095.D	10/28/02	18:37	04:36	(used for QC only; not part of job I
OP6170-MS	L015096.D	10/28/02	19:07	05:06	Matrix Spike
OP6170-MSD	L015097.D	10/28/02	19:39	05:38	Matrix Spike Duplicate
F15100-1	L015098.D	10/28/02	20:10	06:09	CD3007
ZZZZZZ	L015099.D	10/28/02	20:40	06:39	(unrelated sample)
OP6188-MB	L015100.D	10/28/02	21:11	07:10	Method Blank
ZZZZZZ	L015101.D	10/28/02	21:42	07:41	(unrelated sample)
ZZZZZZ	L015102.D	10/28/02	22:14	08:13	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample: SL832-DFTPP **Injection Date:** 10/25/02
Lab File ID: L015050.D **Injection Time:** 12:39
Instrument ID: GCMSL

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	85800	39.8		Pass
68	Less than 2.0% of mass 69	0	0.0	(0.0[a])	Pass
69	Mass 69 relative abundance	75477	35.0		Pass
70	Less than 2.0% of mass 69	409	0.19	(0.54[a])	Pass
127	40.0 - 60.0% of mass 198	98035	45.4		Pass
197	Less than 1.0% of mass 198	0	0.0		Pass
198	Base peak, 100% relative abundance	215781	100.0		Pass
199	5.0 - 9.0% of mass 198	14543	6.7		Pass
275	10.0 - 30.0% of mass 198	45421	21.0		Pass
365	1.0 - 100.0% of mass 198	4360	2.0		Pass
441	Present, but less than mass 443	24797	11.5	(76.5[b])	Pass
442	40.0 - 100.0% of mass 198	166997	77.4		Pass
443	17.0 - 23.0% of mass 442	32424	15.0	(19.4[c])	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL832-IC832	L015051.D	10/25/02	12:58	00:19	Initial cal 5
SL832-IC832	L015052.D	10/25/02	13:29	00:50	Initial cal 25
SL832-IC832	L015053.D	10/25/02	14:00	01:21	Initial cal 50
SL832-ICC832	L015054.D	10/25/02	14:31	01:52	Initial cal 75
SL832-IC832	L015055.D	10/25/02	15:02	02:23	Initial cal 100
SL832-IC832	L015056.D	10/25/02	15:33	02:54	Initial cal 125
OP6172-BS	L015058.D	10/25/02	16:36	03:57	Blank Spike
OP6172-MB	L015059.D	10/25/02	17:08	04:29	Method Blank
ZZZZZZ	L015060.D	10/25/02	17:39	05:00	(unrelated sample)
ZZZZZZ	L015061.D	10/25/02	18:09	05:30	(unrelated sample)
ZZZZZZ	L015062.D	10/25/02	18:40	06:01	(unrelated sample)
F15117-13	L015063.D	10/25/02	19:12	06:33	(used for QC only; not part of job 1
OP6172-MS	L015064.D	10/25/02	19:43	07:04	Matrix Spike
OP6172-MSD	L015065.D	10/25/02	20:14	07:35	Matrix Spike Duplicate
OP6168-LBS	L015066.D	10/25/02	20:45	08:06	Blank Spike
OP6168-LB	L015067.D	10/25/02	21:16	08:37	Leachate Blank
ZZZZZZ	L015068.D	10/25/02	21:46	09:07	(unrelated sample)
ZZZZZZ	L015069.D	10/25/02	22:17	09:38	(unrelated sample)
F15071-16	L015070.D	10/25/02	22:47	10:08	(used for QC only; not part of job 1

Instrument Performance Check (DFTPP)

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample:	SL832-DFTPP	**Injection Date:**	10/25/02
Lab File ID:	L015050.D	**Injection Time:**	12:39
Instrument ID:	GCMSL		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
OP6168-MS	L015071.D	10/25/02	23:19	10:40	Matrix Spike
OP6168-MSD	L015072.D	10/25/02	23:49	11:10	Matrix Spike Duplicate
ZZZZZZ	L015073.D	10/26/02	00:21	11:42	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Check Std:	SL834-CC832	**Injection Date:**	10/28/02
Lab File ID:	L015087.D	**Injection Time:**	14:23
Instrument ID:	GCMSL	**Method:**	SW846 8270C

	IS 1		IS 2		IS 3		IS 4		IS 5		IS 6	
	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
Check Std	185921	5.30	660720	6.54	319241	8.92	415437	11.46	213290	16.40	117209	18.90
Upper Limit[a]	371842	5.80	1321440	7.04	638482	9.42	830874	11.96	426580	16.90	234418	19.40
Lower Limit[b]	92961	4.80	330360	6.04	159621	8.42	207719	10.96	106645	15.90	58605	18.40

Lab Sample ID	IS 1 AREA	IS 1 RT	IS 2 AREA	IS 2 RT	IS 3 AREA	IS 3 RT	IS 4 AREA	IS 4 RT	IS 5 AREA	IS 5 RT	IS 6 AREA	IS 6 RT
OP6193-LBS	180531	5.30	626308	6.54	294083	8.92	408591	11.45	220305	16.40	119376	18.90
OP6193-LB	171162	5.30	584134	6.54	277987	8.91	420357	11.45	222491	16.39	114815	18.90
F15125-1	203599	5.30	695045	6.54	327188	8.91	470083	11.46	278445	16.39	149212	18.90
OP6193-MS	209352	5.30	723384	6.54	340625	8.92	442665	11.46	252075	16.40	135453	18.90
OP6193-MSD	205383	5.30	696891	6.54	328090	8.92	445395	11.46	225295	16.40	118863	18.90
OP6170-BS	206862	5.30	736585	6.54	321419	8.92	445227	11.46	234804	16.40	126663	18.90
OP6170-MB	203453	5.29	687066	6.54	327516	8.91	469354	11.45	265374	16.39	138473	18.90
F15089-1	188062	5.30	651076	6.54	312776	8.91	418126	11.46	222718	16.39	118930	18.90
OP6170-MS	195726	5.30	682552	6.54	316496	8.92	417698	11.46	224417	16.40	125878	18.90
OP6170-MSD	212168	5.30	735393	6.54	344881	8.92	468162	11.46	237785	16.40	129244	18.90
F15100-1	220275	5.30	772914	6.54	361229	8.91	507695	11.45	254857	16.39	131076	18.90
ZZZZZZ	242064	5.30	825622	6.54	393572	8.91	584246	11.46	307644	16.39	153185	18.90
OP6188-MB	227448	5.29	777353	6.54	364629	8.91	531230	11.45	281689	16.39	137029	18.90
ZZZZZZ	201105	5.30	692850	6.54	334553	8.91	459201	11.46	230433	16.39	121479	18.90
ZZZZZZ	226462	5.30	757574	6.54	361531	8.92	485671	11.45	224921	16.39	113712	18.90

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Method: SW846 8270C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
F15100-1	L015098.D	62.0	41.0	93.0	90.0	90.0	95.0
OP6170-BS	L015093.D	64.0	41.0	95.0	92.0	97.0	88.0
OP6170-MB	L015094.D	66.0	43.0	96.0	100.0	98.0	90.0
OP6170-MS	L015096.D	88.0	58.0	107.0	94.0	100.0	92.0
OP6170-MSD	L015097.D	86.0	57.0	92.0	92.0	92.0	91.0

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	19-90%
S2 = Phenol-d5	10-68%
S3 = 2,4,6-Tribromophenol	36-137%
S4 = Nitrobenzene-d5	49-119%
S5 = 2-Fluorobiphenyl	45-118%
S6 = Terphenyl-d14	46-135%

Initial Calibration Summary

Job Number: F15100 **Sample:** SL832-ICC832
Account: ITTNKNOX Shaw E & I, Inc. **Lab FileID:** L015054.D
Project: PBOW

Response Factor Report MSBNA02

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Fri Oct 25 16:10:02 2002
Response via : Initial Calibration

Calibration Files
5 =L015051.D 25 =L015052.D 50 =L015053.D
75 =L015054.D 100 =L015055.D 125 =L015056.D

		Compound	5	25	50	75	100	125	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		1,4-Dioxane	0.489	0.492	0.457	0.471	0.469	0.466	0.474	2.90
3)		N-nitrosodimethylam	0.645	0.640	0.634	0.646	0.659	0.654	0.646	1.41
4)		Pyridine	1.231	1.105	1.115	1.140	1.147	1.141	1.146	3.88
5)		Benzaldehyde		0.760	0.567	0.563	0.459	0.392	0.548	25.43
6)		Aniline	2.159	1.853	1.755	1.622	1.538		1.785	13.51
7)	S	2-Fluorophenol	1.295	1.188	1.111	1.069	1.023	1.009	1.116	9.79
8)		bis(2-Chloroethyl)e	1.366	1.219	1.157	1.121	1.083	1.068	1.169	9.46
9)	S	Phenol-d5	1.560	1.388	1.279	1.224	1.158	1.121	1.288	12.66
10)	C	Phenol	1.871	1.655	1.506	1.414	1.318	1.251	1.502	15.29
		----- Quadratic regression ----- Coefficient = 0.9998								
		Response Ratio = 0.04896 + 1.61952 *A + -0.12431 *A^2								
11)		2-Chlorophenol	1.481	1.374	1.322	1.288	1.267	1.246	1.330	6.52
12)		1,3-Dichlorobenzene	1.677	1.605	1.503	1.464	1.400	1.361	1.502	8.04
13)	C	1,4-Dichlorobenzene	1.706	1.572	1.460	1.435	1.363	1.296	1.472	10.01
14)		1,2-Dichlorobenzene	1.646	1.486	1.419	1.377	1.306	1.241	1.413	10.12
15)		Benzyl alcohol	0.944	0.806	0.808	0.784	0.801	0.769	0.819	7.73
16)		bis(2-chloroisoprop	2.772	2.466	2.303	2.226	2.097	1.941	2.301	12.70
17)		2-Methylphenol	1.352	1.161	1.111	1.084	1.072	1.017	1.133	10.34
18)		Acetophenone	1.953	1.623	1.466	1.411	1.339	1.275	1.511	16.36
		----- Quadratic regression ----- Coefficient = 0.9999								
		Response Ratio = 0.02970 + 1.55377 *A + -0.19071 *A^2								
19)		Hexachloroethane	0.589	0.548	0.519	0.513	0.493	0.470	0.522	8.07
20)	P	N-Nitroso-di-n-prop	1.018	0.821	0.758	0.745	0.736	0.690	0.795	14.78
21)		3&4-Methylphenol	1.378	1.170	1.080	1.028	0.984	0.918	1.093	14.99
22)	I	Naphthalene-d8	----------ISTD----------							
23)	S	Nitrobenzene-d5	0.362	0.348	0.334	0.339	0.332	0.322	0.340	4.10
24)		Nitrobenzene	0.379	0.344	0.331	0.331	0.320	0.304	0.335	7.59
25)		Isophorone	0.726	0.631	0.576	0.599	0.592	0.563	0.615	9.67
26)	C	2-Nitrophenol	0.198	0.206	0.206	0.209	0.203	0.202	0.204	1.85
27)		2,4-Dimethylphenol	0.371	0.336	0.316	0.319	0.314	0.304	0.327	7.38
28)		bis(2-Chloroethoxy)	0.442	0.400	0.376	0.368	0.343	0.339	0.378	10.22
29)		Benzoic Acid		0.124	0.190	0.225	0.241	0.236	0.203	23.86
		----- Linear regression ----- Coefficient = 0.9974								
		Response Ratio = -0.17830 + 0.26911 *A								
30)	C	2,4-Dichlorophenol	0.325	0.306	0.295	0.298	0.289	0.271	0.297	6.00
31)		1,2,4-Trichlorobenz	0.365	0.343	0.326	0.316	0.303	0.290	0.324	8.34
32)		Naphthalene	1.167	1.053	0.975	0.940	0.884	0.843	0.977	12.11
33)		4-Chloroaniline	0.496	0.420	0.381	0.362	0.334	0.309	0.384	17.51
		----- Quadratic regression ----- Coefficient = 0.9999								
		Response Ratio = 0.00889 + 0.42715 *A + -0.03866 *A^2								

Initial Calibration Summary

Job Number: F15100 **Sample:** SL832-ICC832
Account: ITTNKNOX Shaw E & I, Inc. **Lab FileID:** L015054.D
Project: PBOW

34)		2,6-Dichlorophenol	0.332	0.298	0.278	0.268	0.253	0.237	0.278	12.25
35)	C	Hexachlorobutadiene	0.194	0.182	0.169	0.163	0.155	0.148	0.168	10.20
36)		Caprolactam	0.122	0.081	0.080	0.084	0.088	0.095	0.092	17.36
		----- Quadratic regression ----- Coefficient = 0.9997								
		Response Ratio = 0.00435 + 0.05884 *A + 0.02126 *A^2								
37)	C	4-Chloro-3-methylph	0.311	0.266	0.250	0.257	0.253	0.243	0.263	9.41
38)		2-Methylnaphthalene	0.794	0.697	0.648	0.631	0.590	0.565	0.654	12.63
39)		1-Methylnaphthalene	0.773	0.678	0.628	0.593	0.566	0.545	0.630	13.41
40)		1,2,4,5-Tetrachloro	0.334	0.294	0.273	0.258	0.243	0.231	0.272	13.81
41)	I	Acenaphthene-d10	----------ISTD----------							
42)	P	Hexachlorocyclopent	0.217	0.313	0.327	0.335	0.314	0.319	0.304	14.34
43)	C	2,4,6-Trichlorophen	0.407	0.416	0.418	0.417	0.407	0.400	0.411	1.71
44)		2,4,5-Trichlorophen	0.439	0.436	0.430	0.423	0.420	0.405	0.426	2.88
45)	S	2-Fluorobiphenyl	1.655	1.590	1.501	1.440	1.344	1.266	1.466	10.01
46)		1,1'-Biphenyl	1.830	1.788	1.727	1.701	1.634	1.588	1.711	5.32
47)		2-Chloronaphthalene	1.470	1.372	1.309	1.259	1.181	1.140	1.288	9.49
48)		2-Nitroaniline	0.343	0.317	0.324	0.317	0.324	0.317	0.324	3.06
49)		Acenaphthylene	2.148	2.004	1.883	1.846	1.725	1.660	1.878	9.56
50)		Dimethylphthalate	1.640	1.352	1.264	1.231	1.226	1.170	1.314	13.01
51)		2,6-Dinitrotoluene	0.304	0.305	0.290	0.302	0.294	0.282	0.296	3.04
52)	C	Acenaphthene	1.415	1.263	1.178	1.124	1.072	1.010	1.177	12.35
53)		3-Nitroaniline	0.394	0.338	0.321	0.318	0.322	0.307	0.333	9.36
54)	P	2,4-Dinitrophenol		0.104	0.138	0.153	0.162	0.169	0.145	17.67
		----- Linear regression ----- Coefficient = 0.9992								
		Response Ratio = -0.11276 + 0.18544 *A								
55)		Dibenzofuran	1.976	1.665	1.549	1.458	1.346	1.301	1.549	15.99
		----- Quadratic regression ----- Coefficient = 0.9995								
		Response Ratio = 0.05706 + 1.63385 *A + -0.11511 *A^2								
56)		2,4-Dinitrotoluene	0.434	0.358	0.342	0.328	0.308	0.301	0.345	14.03
57)	P	4-Nitrophenol	0.154	0.135	0.127	0.133	0.133	0.130	0.135	7.23
58)		2,3,4,6-Tetrachloro	0.257	0.244	0.246	0.246	0.254	0.247	0.249	2.10
59)		Fluorene	1.611	1.350	1.260	1.167	1.120	1.030	1.256	16.39
		----- Quadratic regression ----- Coefficient = 0.9997								
		Response Ratio = 0.02878 + 1.37489 *A + -0.11191 *A^2								
60)		4-Chlorophenyl-phen	0.740	0.619	0.578	0.535	0.521	0.479	0.579	16.02
		----- Quadratic regression ----- Coefficient = 0.9994								
		Response Ratio = 0.01427 + 0.62448 *A + -0.04718 *A^2								
61)		Diethylphthalate	1.532	1.218	1.160	1.124	1.112	1.041	1.198	14.50
62)		4-Nitroaniline	0.362	0.285	0.271	0.287	0.277	0.276	0.293	11.73
63)	I	Phenanthrene-d10	----------ISTD----------							
64)		4,6-Dinitro-2-methy		0.131	0.148	0.151	0.159	0.152	0.148	7.13
65)	C	n-Nitrosodiphenylam	0.689	0.652	0.641	0.625	0.617	0.573	0.633	6.12
66)		1,2-Diphenylhydrazi	0.888	0.895	0.839	0.816	0.812	0.740	0.832	6.86
67)	S	2,4,6-Tribromopheno	0.083	0.083	0.082	0.080	0.079	0.073	0.080	5.05
68)		4-Bromophenyl-pheny	0.223	0.218	0.208	0.200	0.206	0.186	0.207	6.35
69)		Hexachlorobenzene	0.231	0.216	0.211	0.198	0.203	0.181	0.206	8.18
70)		Atrazine	0.217	0.184	0.185	0.164	0.158	0.140	0.175	15.39
		----- Quadratic regression ----- Coefficient = 0.9985								
		Response Ratio = -0.00092 + 0.20981 *A + -0.04367 *A^2								
71)	C	Pentachlorophenol	0.074	0.093	0.104	0.108	0.113	0.105	0.100	14.04
72)		Phenanthrene	1.320	1.179	1.141	1.067	1.074	0.991	1.129	10.09
73)		Anthracene	1.374	1.229	1.193	1.123	1.066	0.991	1.163	11.55

Initial Calibration Summary

Job Number: F15100 **Sample:** SL832-ICC832
Account: ITTNKNOX Shaw E & I, Inc. **Lab FileID:** L015054.D
Project: PBOW

74)		Carbazole	1.256	1.006	0.952	0.938	0.931	0.852	0.989	14.13
75)		Di-n-butylphthalate	1.395	1.189	1.178	1.167	1.160	1.069	1.193	9.02
76)	C	Fluoranthene	1.238	0.984	0.940	0.930	0.924	0.840	0.976	14.02
77)	I	Chrysene-d12	----------ISTD----------							
78)		Benzidine	0.423	0.498	0.534	0.453	0.419	0.386	0.452	12.15
79)		Pyrene	2.057	2.071	2.175	2.206	2.164	2.147	2.137	2.79
80)	S	Terphenyl-d14	1.065	1.062	1.115	1.124	1.153	1.127	1.108	3.30
81)		Butylbenzylphthalat	0.703	0.744	0.833	0.877	0.875	0.868	0.817	9.17
82)		3,3'-Dichlorobenzid	0.335	0.374	0.371	0.373	0.354	0.352	0.360	4.26
83)		Benzo[a]anthracene	1.314	1.258	1.258	1.321	1.293	1.300	1.291	2.10
84)		Chrysene	1.406	1.288	1.261	1.288	1.272	1.250	1.294	4.37
85)		bis(2-Ethylhexyl)ph	0.800	0.898	1.013	1.058	1.091	1.074	0.989	11.68
86)	I	Perylene-d12	----------ISTD----------							
87)	C	Di-n-octylphthalate		2.266	2.468	2.700	2.946	2.763	2.629	10.08
88)		Benzo[b]fluoranthen	1.591	1.709	1.630	1.701	1.742	1.689	1.677	3.33
89)		Benzo[k]fluoranthen	1.988	1.913	1.813	1.833	1.904	1.722	1.862	4.98
90)	C	Benzo[a]pyrene	1.452	1.515	1.506	1.560	1.577	1.488	1.516	3.03
91)		Indeno[1,2,3-cd]pyr	0.761	0.953	1.097	1.156	1.171	1.210	1.058	16.16

----- Quadratic regression ----- Coefficient = 0.9997
Response Ratio = -0.06370 + 1.09005 *A + 0.04484 *A^2

92)		Dibenz[a,h]anthrace	0.815	1.108	1.140	1.179	1.199	1.205	1.108	13.36
93)		Benzo[g,h,i]perylen	1.029	1.226	1.298	1.344	1.312	1.321	1.255	9.40

(#) = Out of Range

8270C.M Mon Oct 28 10:25:07 2002

Continuing Calibration Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW
Sample: SL834-CC832
Lab FileID: L015087.D

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\102802\L015087.D Vial: 2
Acq On : 28 Oct 2002 2:23 pm Operator: marke
Sample : cc832-75 Inst : MSBNA02
Misc : op6168,sl834,100,,,1,1,water Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\8270C.M (RTE Integrator)
Title : SW846 8270C OR EPA 625
Last Update : Fri Oct 25 16:10:02 2002
Response via : Multiple Level Calibration

Min. RRF : 0.001 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	76	0.00	5.30
2		1,4-Dioxane	0.474	0.485	-2.3	78	-0.02	1.91
3		N-nitrosodimethylamine	0.646	0.659	-2.0	77	-0.02	2.51
4		Pyridine	1.146	1.202	-4.9	80	-0.02	2.55
5		Benzaldehyde	0.548	0.562	-2.6	76	0.00	4.92
6		Aniline	1.785	1.604	10.1	75	0.00	5.01
7	S	2-Fluorophenol	1.116	1.107	0.8	79	-0.01	4.16
8		bis(2-Chloroethyl)ether	1.169	1.146	2.0	78	0.00	5.07
9	S	Phenol-d5	1.288	1.245	3.3	77	-0.01	4.98
		----------	True	Calc.	% Drift	----------		
10	C	Phenol	75.000	77.491	-3.3	78	0.00	5.00
		----------	AvgRF	CCRF	% Dev	----------		
11		2-Chlorophenol	1.330	1.311	1.4	77	0.00	5.11
12		1,3-Dichlorobenzene	1.502	1.466	2.4	76	0.00	5.25
13	C	1,4-Dichlorobenzene	1.472	1.455	1.2	77	0.00	5.31
14		1,2-Dichlorobenzene	1.413	1.375	2.7	76	0.00	5.45
15		Benzyl alcohol	0.819	0.817	0.2	79	-0.01	5.42
16		bis(2-chloroisopropyl)eth	2.301	2.254	2.0	77	0.00	5.54
17		2-Methylphenol	1.133	1.132	0.1	79	0.00	5.51
		----------	True	Calc.	% Drift	----------		
18		Acetophenone	37.500	40.557	-8.2	81	-0.01	5.66
		----------	AvgRF	CCRF	% Dev	----------		
19		Hexachloroethane	0.522	0.512	1.9	76	0.00	5.76
20	P	N-Nitroso-di-n-propylamin	0.795	0.799	-0.5	82	-0.01	5.66
21		3&4-Methylphenol	1.093	1.112	-1.7	82	-0.01	5.65
22	I	Naphthalene-d8	1.000	1.000	0.0	79	0.00	6.54
23	S	Nitrobenzene-d5	0.340	0.326	4.1	76	-0.01	5.80
24		Nitrobenzene	0.335	0.326	2.7	78	0.00	5.82
25		Isophorone	0.615	0.611	0.7	80	0.00	6.06
26	C	2-Nitrophenol	0.204	0.204	0.0	77	-0.01	6.13
27		2,4-Dimethylphenol	0.327	0.321	1.8	79	-0.01	6.16
28		bis(2-Chloroethoxy)methan	0.378	0.372	1.6	80	0.00	6.26
		----------	True	Calc.	% Drift	----------		
29		Benzoic Acid	150.000	155.778	-3.9	81	-0.02	6.32
		----------	AvgRF	CCRF	% Dev	----------		

Continuing Calibration Summary

Job Number: F15100 **Sample:** SL834-CC832
Account: ITTNKNOX Shaw E & I, Inc. **Lab FileID:** L015087.D
Project: PBOW

30	C	2,4-Dichlorophenol	0.297	0.292	1.7	77	-0.01	6.38
31		1,2,4-Trichlorobenzene	0.324	0.315	2.8	78	0.00	6.48
32		Naphthalene	0.977	0.958	1.9	80	0.00	6.57
		----------	True	Calc.	% Drift	----------		
33		4-Chloroaniline	75.000	81.807	-9.1	84	0.00	6.62
		----------	AvgRF	CCRF	% Dev	----------		
34		2,6-Dichlorophenol	0.278	0.277	0.4	82	-0.01	6.63
35	C	Hexachlorobutadiene	0.168	0.164	2.4	79	0.00	6.70
		----------	True	Calc.	% Drift	----------		
36		Caprolactam	37.500	40.179	-7.1	85	-0.02	7.10
		----------	AvgRF	CCRF	% Dev	----------		
37	C	4-Chloro-3-methylphenol	0.263	0.270	-2.7	83	0.00	7.19
38		2-Methylnaphthalene	0.654	0.647	1.1	81	0.00	7.40
39		1-Methylnaphthalene	0.630	0.628	0.3	83	0.00	7.53
40		1,2,4,5-Tetrachlorobenzen	0.272	0.272	0.0	83	0.00	7.62
41	I	Acenaphthene-d10	1.000	1.000	0.0	86	0.00	8.92
42	P	Hexachlorocyclopentadiene	0.304	0.307	-1.0	79	0.00	7.61
43	C	2,4,6-Trichlorophenol	0.411	0.426	-3.6	88	0.00	7.78
44		2,4,5-Trichlorophenol	0.426	0.409	4.0	83	0.00	7.83
45	S	2-Fluorobiphenyl	1.466	1.406	4.1	84	0.00	7.90
46		1,1'-Biphenyl	1.711	1.605	6.2	81	0.00	8.05
47		2-Chloronaphthalene	1.288	1.244	3.4	85	-0.01	8.07
48		2-Nitroaniline	0.324	0.306	5.6	82	0.00	8.22
49		Acenaphthylene	1.878	1.804	3.9	84	-0.01	8.69
50		Dimethylphthalate	1.314	1.192	9.3	83	-0.01	8.52
51		2,6-Dinitrotoluene	0.296	0.279	5.7	79	-0.01	8.60
52	C	Acenaphthene	1.177	1.130	4.0	86	0.00	8.97
53		3-Nitroaniline	0.333	0.314	5.7	84	-0.01	8.86
		----------	True	Calc.	% Drift	----------		
54	P	2,4-Dinitrophenol	150.000	155.985	-4.0	91	-0.01	9.03
55		Dibenzofuran	75.000	71.463	4.7	82	0.00	9.25
		----------	AvgRF	CCRF	% Dev	----------		
56		2,4-Dinitrotoluene	0.345	0.334	3.2	87	-0.01	9.25
57	P	4-Nitrophenol	0.135	0.135	0.0	87	-0.01	9.16
58		2,3,4,6-Tetrachlorophenol	0.249	0.248	0.4	86	0.00	9.46
		----------	True	Calc.	% Drift	----------		
59		Fluorene	75.000	74.832	0.2	86	0.00	9.83
60		4-Chlorophenyl-phenylethe	75.000	74.639	0.5	87	0.00	9.85
		----------	AvgRF	CCRF	% Dev	----------		
61		Diethylphthalate	1.198	1.123	6.3	86	0.00	9.69
62		4-Nitroaniline	0.293	0.294	-0.3	88	-0.01	9.88
63	I	Phenanthrene-d10	1.000	1.000	0.0	87	0.00	11.46
64		4,6-Dinitro-2-methylpheno	0.148	0.155	-4.7	90	-0.01	9.94
65	C	n-Nitrosodiphenylamine	0.633	0.605	4.4	84	-0.01	10.06
66		1,2-Diphenylhydrazine	0.832	0.788	5.3	84	0.00	10.12
67	S	2,4,6-Tribromophenol	0.080	0.078	2.5	85	0.00	10.24
68		4-Bromophenyl-phenylether	0.207	0.195	5.8	85	-0.01	10.70
69		Hexachlorobenzene	0.206	0.206	0.0	91	-0.01	10.77
		----------	True	Calc.	% Drift	----------		

Continuing Calibration Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW
Sample: SL834-CC832
Lab FileID: L015087.D

70		Atrazine	37.500	36.088	3.8	87	-0.01	11.04
		----------	AvgRF	CCRF	% Dev	----------		
71	C	Pentachlorophenol	0.100	0.116	-16.0	94	0.00	11.13
72		Phenanthrene	1.129	1.055	6.6	86	-0.01	11.50
73		Anthracene	1.163	1.131	2.8	88	0.00	11.60
74		Carbazole	0.989	0.972	1.7	90	0.00	11.91
75		Di-n-butylphthalate	1.193	1.218	-2.1	91	0.00	12.68
76	C	Fluoranthene	0.976	1.001	-2.6	94	-0.01	13.69
77	I	Chrysene-d12	1.000	1.000	0.0	106	0.00	16.40
78		Benzidine	0.452	0.379	16.2	89	-0.01	14.01
79		Pyrene	2.137	2.001	6.4	97	0.00	14.10
80	S	Terphenyl-d14	1.108	1.032	6.9	98	-0.01	14.49
81		Butylbenzylphthalate	0.817	0.857	-4.9	104	0.00	15.50
82		3,3'-Dichlorobenzidine	0.360	0.398	-10.6	114	-0.01	16.40
83		Benzo[a]anthracene	1.291	1.316	-1.9	106	-0.01	16.38
84		Chrysene	1.294	1.276	1.4	105	0.00	16.45
85		bis(2-Ethylhexyl)phthalat	0.989	1.070	-8.2	108	0.00	16.67
86	I	Perylene-d12	1.000	1.000	0.0	106	0.00	18.90
87	C	Di-n-octylphthalate	2.629	2.965	-12.8	116	0.00	17.86
88		Benzo[b]fluoranthene	1.677	1.804	-7.6	112	-0.01	18.29
89		Benzo[k]fluoranthene	1.862	1.849	0.7	106	0.00	18.34
90	C	Benzo[a]pyrene	1.516	1.564	-3.2	106	-0.01	18.81
		----------	True	Calc.	% Drift	----------		
91		Indeno[1,2,3-cd]pyrene	75.000	78.875	-5.2	110	0.00	20.48
		----------	AvgRF	CCRF	% Dev	----------		
92		Dibenz[a,h]anthracene	1.108	1.263	-14.0	113	0.00	20.53
93		Benzo[g,h,i]perylene	1.255	1.370	-9.2	108	-0.01	20.86

(0.0 %) 0 of 87 compounds'%D > 20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L015054.D 8270C.M Tue Oct 29 09:43:17 2002

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Blank Spike Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6145-BS	GG004156.D	1	10/22/02	MRE	10/21/02	OP6145	GGG220

The QC reported here applies to the following samples: **Method:** SW846 8330A

F15100-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
2691-41-0	HMX	2.5	2.3	92	86-115
121-82-4	RDX	2.5	2.4	96	72-128
99-65-0	1,3-Dinitrobenzene	2.5	2.4	96	83-114
606-20-2	2,6-Dinitrotoluene	2.5	2.5	100	79-119
121-14-2	2,4-Dinitrotoluene	2.5	2.3	92	79-118
35572-78-2	2-amino-4,6-Dinitrotc	2.5	2.4	96	77-118
19406-51-0	4-amino-2,6-Dinitrotc	2.5	2.4	96	78-117
98-95-3	Nitrobenzene	2.5	2.4	96	73-110
88-72-2	o-Nitrotoluene	2.5	2.4	96	69-106
99-08-1	m-Nitrotoluene	2.5	2.4	96	71-105
99-99-0	p-Nitrotoluene	2.5	2.4	96	70-109
479-45-8	Tetryl	2.5	2.3	92	69-126
99-35-4	1,3,5-Trinitrobenzene	2.5	2.4	96	82-117
118-96-7	2,4,6-Trinitrotoluene	2.5	2.3	92	77-112

CAS No.	Surrogate Recoveries	BSP	Limits
610-39-9	3,4-Dinitrotoluene	100%	51-137%

Method Blank Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6145-MB	GG004157.D	1	10/22/02	MRE	10/21/02	OP6145	GGG220

The QC reported here applies to the following samples: **Method:** SW846 8330A

F15100-1

CAS No.	Compound	Result	RL	Units	Q
2691-41-0	HMX	ND	0.20	ug/l	
121-82-4	RDX	ND	0.20	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	0.20	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	0.20	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	0.20	ug/l	
35572-78-2	2-amino-4,6-Dinitrotc	ND	0.20	ug/l	
19406-51-0	4-amino-2,6-Dinitrotc	ND	0.20	ug/l	
98-95-3	Nitrobenzene	ND	0.20	ug/l	
88-72-2	o-Nitrotoluene	ND	0.20	ug/l	
99-08-1	m-Nitrotoluene	ND	0.20	ug/l	
99-99-0	p-Nitrotoluene	ND	0.20	ug/l	
479-45-8	Tetryl	ND	0.20	ug/l	
99-35-4	1,3,5-Trinitrobenzene	ND	0.20	ug/l	
118-96-7	2,4,6-Trinitrotoluene	ND	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
610-39-9	3,4-Dinitrotoluene	95%	51-137%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6145-MS	GG004162.D	1	10/22/02	MRE	10/21/02	OP6145	GGG220
OP6145-MSD	GG004163.D	1	10/22/02	MRE	10/21/02	OP6145	GGG220
T3379-4	GG004161.D	1	10/22/02	MRE	10/21/02	OP6145	GGG220

The QC reported here applies to the following samples: **Method:** SW846 8330A

F15100-1

CAS No.	Compound	T3379-4 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
2691-41-0	HMX	ND		5.81	5.3	91	5.4	93	2	64-130/14
121-82-4	RDX	ND		5.81	5.2	89	5.2	89	0	66-126/17
99-65-0	1,3-Dinitrobenzene	ND		5.81	5.4	93	5.4	93	0	70-127/17
606-20-2	2,6-Dinitrotoluene	ND		5.81	5.5	95	5.5	95	0	74-122/20
121-14-2	2,4-Dinitrotoluene	ND		5.81	5.3	91	5.3	91	0	71-125/21
35572-78-2	2-amino-4,6-Dinitrotc	ND		5.81	5.4	93	5.3	91	2	62-131/21
19406-51-0	4-amino-2,6-Dinitrotc	0.15	J	5.81	5.3	89	5.2	87	2	61-130/24
98-95-3	Nitrobenzene	ND		5.81	5.5	95	5.5	95	0	73-113/23
88-72-2	o-Nitrotoluene	ND		5.81	5.9	101	6.2	107	5	66-115/22
99-08-1	m-Nitrotoluene	ND		5.81	5.0	86	5.2	89	4	67-114/22
99-99-0	p-Nitrotoluene	ND		5.81	5.3	91	5.6	96	6	66-118/21
479-45-8	Tetryl	ND		5.81	4.8	83	4.8	83	0	39-140/30
99-35-4	1,3,5-Trinitrobenzene	0.36		5.81	5.7	92	5.6	90	2	71-120/23
118-96-7	2,4,6-Trinitrotoluene	ND		5.81	5.2	89	5.2	89	0	58-127/19

CAS No.	Surrogate Recoveries	MS	MSD	T3379-4	Limits
610-39-9	3,4-Dinitrotoluene	100%	97%	94%	51-137%

(a) All hits confirmed by reanalysis on a dissimilar column.

Semivolatile Surrogate Recovery Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Method: SW846 8330A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
F15100-1	GG004164.D	79.0
OP6145-BS	GG004156.D	100.0
OP6145-MB	GG004157.D	95.0
OP6145-MS	GG004162.D	100.0
OP6145-MSD	GG004163.D	97.0

Surrogate Compounds	Recovery Limits
S1 = 3,4-Dinitrotoluene	51-137%

(a) Recovery from GC signal #1

GC Surrogate Retention Time Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Check Std:	GGG220-CC207	**Injection Date:**	10/21/02
Lab File ID:	GG004155.D	**Injection Time:**	23:56
Instrument ID:	GCGG	**Method:**	SW846 8330A

	S1 [a] RT	S1 [b] RT
Check Std	15.12	15.13

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
OP6145-BS	GG004156.D	10/22/02	00:28	15.13	
OP6145-MB	GG004157.D	10/22/02	01:00	15.12	
ZZZZZZ	GG004158.D	10/22/02	01:33	15.13	
ZZZZZZ	GG004159.D	10/22/02	02:05	15.15	
ZZZZZZ	GG004160.D	10/22/02	02:37	15.13	
T3379-4	GG004161.D	10/22/02	03:09	15.12	
OP6145-MS	GG004162.D	10/22/02	03:41	15.13	
OP6145-MSD	GG004163.D	10/22/02	04:13	15.13	
F15100-1	GG004164.D	10/22/02	04:45	15.15	
GGG220-ECC207	GG004165.D	10/22/02	05:17	15.15	15.15

Surrogate Compounds

S1 = 3,4-Dinitrotoluene

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample: GGG207-ICC207
Lab FileID: GG003963.D

Response Factor Report G1315B

Method : C:\HPCHEM\3\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Wed Sep 25 08:38:05 2002
Response via : Initial Calibration

Calibration Files
20 =GG003960.D 100 =GG003961.D 200 =GG003962.D
300 =GG003963.D 400 =GG003964.D 500 =GG003965.D

		Compound	20	100	200	300	400	500	Avg		%RSD
1)		HMX	4.058	3.352	3.284	3.345	3.248	3.396	3.447	E3	8.80
2)		RDX	4.892	4.264	4.049	4.011	3.900	4.006	4.187	E3	8.73
3)		1,3,5-Trinitrobenze	1.035	0.923	0.888	0.892	0.862	0.883	0.914	E4	6.84
4)		1,3-Dinitrobenzene	1.348	1.248	1.193	1.195	1.168	1.195	1.224	E4	5.38
5)		Tetryl	8.155	7.149	6.816	6.850	6.675	6.822	7.078	E3	7.77
6)		Nitrobenzene	8.810	7.927	7.603	7.584	7.407	7.702	7.839	E3	6.45
7)	S	3,4-Dinitrotoluene	5.745	5.193	5.017	5.014	4.838	4.933	5.123	E3	6.37
8)		2,4,6-Trinitrotolue	9.889	8.629	8.355	8.347	8.098	8.312	8.605	E3	7.57
9)		4-Amino-2,6-Dinitro	6.360	5.871	5.872	5.742	5.566	5.722	5.855	E3	4.64
10)		2-Amino-4,6-Dinitro	8.295	7.963	7.834	7.722	7.494	7.703	7.835	E3	3.49
11)		2,6-Dinitrotoluene	6.452	6.084	5.890	5.819	5.632	5.788	5.944	E3	4.86
12)		2,4-Dinitrotoluene	1.271	1.125	1.092	1.087	1.059	1.088	1.120	E4	6.84
13)		o-Nitrotoluene	5.564	5.032	4.855	4.822	4.691	4.854	4.970	E3	6.25
14)		p-Nitrotoluene	4.652	4.312	4.055	4.039	3.945	4.091	4.182	E3	6.22
15)		m-Nitrotoluene	5.929	5.703	5.328	5.282	5.128	5.333	5.450	E3	5.53

Signal #2

1)		HMX	1.151	1.006	0.960	0.972	0.948	0.971	1.001	E4	7.56
2)		RDX	6.509	6.548	6.288	6.443	6.352	6.501	6.440	E3	1.57
3)		1,3,5-Trinitrobenze	2.093	1.849	1.789	1.792	1.734	1.769	1.838	E4	7.10
4)		1,3-Dinitrobenzene	1.620	1.491	1.427	1.442	1.402	1.431	1.469	E4	5.43
5)		Tetryl	1.459	1.298	1.230	1.250	1.210	1.235	1.280	E4	7.23
6)		Nitrobenzene	4.079	3.534	3.373	3.405	3.325	3.431	3.525	E3	7.95
7)	S	3,4-Dinitrotoluene	8.023	7.165	6.803	6.820	6.602	6.714	7.021	E3	7.49
8)		2,4,6-Trinitrotolue	1.442	1.270	1.217	1.220	1.185	1.214	1.258	E4	7.49
9)		4-Amino-2,6-Dinitro	1.826	1.614	1.563	1.555	1.510	1.545	1.602	E4	7.15
10)		2-Amino-4,6-Dinitro	1.551	1.339	1.303	1.297	1.258	1.290	1.340	E4	7.98
11)		2,6-Dinitrotoluene	9.335	8.138	7.881	7.814	7.587	7.776	8.089	E3	7.87
12)		2,4-Dinitrotoluene	1.144	1.005	0.981	0.977	0.955	0.977	1.007	E4	6.89
13)		o-Nitrotoluene	6.068	5.438	5.217	5.149	5.049	5.223	5.357	E3	6.93
14)		p-Nitrotoluene	9.536	8.604	8.256	8.131	7.937	8.225	8.448	E3	6.81
15)		m-Nitrotoluene	9.129	8.292	7.920	7.813	7.618	7.944	8.119	E3	6.67

(#) = Out of Range

8330_EX.M Wed Sep 25 08:53:54 2002

Continuing Calibration Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW
Sample: GGG220-CC207
Lab FileID: GG004155.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\1021EXP\GG004155.D\DAD1B.CH Vial: 12
Signal #2 : G:\HPCHEM\1\DATA\1021EXP\GG004155.D\DAD1A.CH
Acq On : 21-Oct-2002, 23:56:47 Operator: MIKEE
Sample : CC207-300 Inst : G1315B
Misc : op6135,ggg220,4.00,,,20,,soil Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\3\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Tue Oct 22 09:47:25 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	280.595	6.5	96	0.00
2		RDX	300.000	295.139	1.6	103	0.00
3		1,3,5-Trinitrobenzene	300.000	286.574	4.5	98	0.00
4		1,3-Dinitrobenzene	300.000	289.826	3.4	99	0.00
5		Tetryl	300.000	286.751	4.4	99	0.00
6		Nitrobenzene	300.000	285.649	4.8	98	0.00
7	S	3,4-Dinitrotoluene	300.000	290.017	3.3	99	0.00
8		2,4,6-Trinitrotoluene	300.000	285.261	4.9	98	0.00
9		4-Amino-2,6-Dinitrotoluene	300.000	290.654	3.1	99	0.00
10		2-Amino-4,6-Dinitrotoluene	300.000	291.196	2.9	98	0.00
11		2,6-Dinitrotoluene	300.000	294.506	1.8	100	0.00
12		2,4-Dinitrotoluene	300.000	285.145	5.0	98	0.00
13		o-Nitrotoluene	300.000	283.905	5.4	98	0.00
14		p-Nitrotoluene	300.000	284.482	5.2	98	0.00
15		m-Nitrotoluene	300.000	282.264	5.9	97	0.00

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	288.547	3.8	99	0.00
2		RDX	300.000	322.830	-7.6	108	0.00
3		1,3,5-Trinitrobenzene	300.000	286.388	4.5	98	0.00
4		1,3-Dinitrobenzene	300.000	290.642	3.1	99	0.00
5		Tetryl	300.000	288.318	3.9	98	0.00
6		Nitrobenzene	300.000	300.617	-0.2	104	0.00
7	S	3,4-Dinitrotoluene	300.000	303.559	-1.2	104	0.00
8		2,4,6-Trinitrotoluene	300.000	288.927	3.7	99	0.00
9		4-Amino-2,6-Dinitrotoluen	300.000	290.427	3.2	100	0.00
10		2-Amino-4,6-Dinitrotoluen	300.000	287.467	4.2	99	0.00
11		2,6-Dinitrotoluene	300.000	292.945	2.4	101	0.00
12		2,4-Dinitrotoluene	300.000	284.378	5.2	98	0.00
13		o-Nitrotoluene	300.000	283.326	5.6	98	0.00
14		p-Nitrotoluene	300.000	282.875	5.7	98	0.00
15		m-Nitrotoluene	300.000	282.893	5.7	98	0.00

Average % D = 4.1

Continuing Calibration Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample: GGG220-CC207
Lab FileID: GG004155.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG003963.D 8330_EX.M Tue Oct 22 10:22:55 2002

Continuing Calibration Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW
Sample: GGG220-ECC207
Lab FileID: GG004165.D

Evaluate Continuing Calibration Report

Signal #1 : G:\HPCHEM\1\DATA\1021EXP\GG004165.D\DAD1B.CH Vial: 12
Signal #2 : G:\HPCHEM\1\DATA\1021EXP\GG004165.D\DAD1A.CH
Acq On : 22-Oct-2002, 05:17:27 Operator: MIKEE
Sample : ECC207-300 Inst : G1315B
Misc : op6145,ggg220,1000,,,10,,water Multiplr: 1.00
IntFile Signal #1: EVENTS.E IntFile Signal #2: events2.e

Method : C:\HPCHEM\3\METHODS\8330_EX.M (Chemstation Integrator)
Title : Explosives by 8330
Last Update : Tue Oct 22 09:47:25 2002
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	286.237	4.6	98	-0.02
2		RDX	300.000	295.293	1.6	103	0.00
3		1,3,5-Trinitrobenzene	300.000	285.906	4.7	98	0.00
4		1,3-Dinitrobenzene	300.000	288.934	3.7	99	0.00
5		Tetryl	300.000	290.252	3.2	100	0.02
6		Nitrobenzene	300.000	285.177	4.9	98	0.00
7	S	3,4-Dinitrotoluene	300.000	299.960	0.0	102	0.01
8		2,4,6-Trinitrotoluene	300.000	290.891	3.0	100	0.00
9		4-Amino-2,6-Dinitrotoluene	300.000	294.824	1.7	100	0.02
10		2-Amino-4,6-Dinitrotoluene	300.000	291.927	2.7	99	0.03
11		2,6-Dinitrotoluene	300.000	292.832	2.4	100	0.02
12		2,4-Dinitrotoluene	300.000	284.011	5.3	98	0.02
13		o-Nitrotoluene	300.000	286.273	4.6	98	0.02
14		p-Nitrotoluene	300.000	285.081	5.0	98	0.02
15		m-Nitrotoluene	300.000	289.389	3.5	100	0.03

Signal #2

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1		HMX	300.000	289.339	3.6	99	-0.01
2		RDX	300.000	321.911	-7.3	107	0.00
3		1,3,5-Trinitrobenzene	300.000	285.933	4.7	98	0.00
4		1,3-Dinitrobenzene	300.000	288.106	4.0	98	0.00
5		Tetryl	300.000	285.126	5.0	97	0.02
6		Nitrobenzene	300.000	286.538	4.5	99	0.00
7	S	3,4-Dinitrotoluene	300.000	298.819	0.4	103	0.01
8		2,4,6-Trinitrotoluene	300.000	291.765	2.7	100	0.00
9		4-Amino-2,6-Dinitrotoluen	300.000	293.075	2.3	101	0.02
10		2-Amino-4,6-Dinitrotoluen	300.000	288.393	3.9	99	0.02
11		2,6-Dinitrotoluene	300.000	290.168	3.3	100	0.02
12		2,4-Dinitrotoluene	300.000	281.294	6.2	97	0.02
13		o-Nitrotoluene	300.000	284.866	5.0	99	0.02
14		p-Nitrotoluene	300.000	287.182	4.3	99	0.02
15		m-Nitrotoluene	300.000	289.555	3.5	100	0.03

Average % D = 3.7

Continuing Calibration Summary

Job Number: F15100
Account: ITTNKNOX Shaw E & I, Inc.
Project: PBOW

Sample: GGG220-ECC207
Lab FileID: GG004165.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GG003963.D 8330_EX.M Tue Oct 22 10:24:19 2002

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR1023M5.ASC Date Analyzed: 10/23/02 Methods: SW846 6010B
Analyst: DM Run ID: MA3035
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:24	MA3035-ICV1	1		
10:27	MA3035-ICB1	1		
10:30	MA3035-CRI1	1		
10:37	MA3035-ICSA1	1		
10:39	MA3035-ICSAB1	1		
10:46	MA3035-CCV1	1		
10:52	MA3035-CCB1	1		
10:55	MP4837-MB1	1		
10:59	MP4837-B1	1		
11:05	F15115-1	1		(sample used for QC only; not part of login F15100)
11:08	MP4837-D1	1		
11:12	MP4837-SD1	5		
11:15	MP4837-S1	1		
11:19	MP4837-S2	1		
11:25	ZZZZZZ	1		
11:28	ZZZZZZ	1		
11:32	ZZZZZZ	1		
11:35	MA3035-CCV2	1		
11:41	MA3035-CCB2	1		
11:45	ZZZZZZ	1		
11:48	ZZZZZZ	1		
11:52	ZZZZZZ	1		
11:55	ZZZZZZ	1		
11:59	ZZZZZZ	1		
12:02	ZZZZZZ	1		
12:06	ZZZZZZ	1		
12:09	ZZZZZZ	1		
12:13	F15100-1	1		
12:16	F15100-1A	1		
---------->	Last reportable sample/prep for job F15100			
12:20	MA3035-CCV3	1		
12:26	MA3035-CCB3	1		
---------->	Last reportable CCB for job F15100			
12:29	ZZZZZZ	1		
12:33	MP4838-MB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR1023M5.ASC Date Analyzed: 10/23/02 Methods: SW846 6010B
Analyst: DM Run ID: MA3035
Parameters: Al,Sb,As,Ba,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Ni,K,Se,Ag,Na,Tl,V,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:36	MP4838-B1	1		
12:42	F15083-1	1		(sample used for QC only; not part of login F15100)
12:46	MP4838-D1	1		
12:49	MP4838-SD1	5		
12:53	MP4838-S1	1		
12:59	ZZZZZZ	1		
13:02	ZZZZZZ	1		
13:06	ZZZZZZ	1		
13:09	MA3035-CCV4	1		
13:15	MA3035-CCB4	1		
13:19	ZZZZZZ	1		
13:22	MP4836-MB1	1		
13:26	MP4836-B1	1		
13:32	F15076-1	1		(sample used for QC only; not part of login F15100)
13:35	MP4836-D1	1		
13:39	MP4836-SD1	5		
13:42	MP4836-S1	1		
13:48	ZZZZZZ	1		
13:52	ZZZZZZ	1		
13:55	ZZZZZZ	1		
13:59	MA3035-CCV5	1		
14:05	MA3035-CCB5	1		
14:08	ZZZZZZ	1		
14:12	ZZZZZZ	10		
14:15	MA3035-CCV6	1		
14:21	MA3035-CCB6	1		

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR1023M5.ASC Date Analyzed: 10/23/02 Methods: SW846 6010B
QC Limits: result < RL Run ID: MA3035 Units: ug/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Aluminum	200	6.6	-8.6	<200	-9.8	<200	-14	<200	-9.8	<200
Antimony	5.0	1.5	-0.36	<5.0	-1.5	<5.0	-0.94	<5.0	1.8	<5.0
Arsenic	10	2.8	1.5	<10	-0.34	<10	-1.6	<10	0.80	<10
Barium	200	.49	-0.73	<200	-1.1	<200	-1.1	<200	-1.1	<200
Beryllium	5.0	.26	-0.84	<5.0	-1.6	<5.0	-1.9	<5.0	-1.7	<5.0
Cadmium	5.0	.26	-0.78	<5.0	-1.5	<5.0	-1.4	<5.0	-1.5	<5.0
Calcium	1000	3.8	-13	<1000	-14	<1000	-21	<1000	-8.9	<1000
Chromium	10	.43	-0.62	<10	-1.0	<10	-0.67	<10	-0.91	<10
Cobalt	50	.5	-0.66	<50	-0.68	<50	-0.71	<50	-1.6	<50
Copper	25	.44	-0.40	<25	-0.71	<25	-0.010	<25	-0.17	<25
Iron	300	7.1	-12	<300	-1.3	<300	2.8	<300	-1.2	<300
Lead	5.0	1.2	1.2	<5.0	0.46	<5.0	1.2	<5.0	0.91	<5.0
Magnesium	5000	9.9	-8.6	<5000	-9.3	<5000	-19	<5000	-11	<5000
Manganese	15	.16	-0.81	<15	-1.3	<15	-1.3	<15	-1.2	<15
Molybdenum	50	.75								
Nickel	40	1.1	-1.1	<40	-2.0	<40	-1.3	<40	-2.3	<40
Potassium	5000	14	627	<5000	620	<5000	623	<5000	647	<5000
Selenium	10	2	-2.2	<10	2.1	<10	0.53	<10	1.5	<10
Silver	10	.55	-0.030	<10	0.26	<10	0.16	<10	0.080	<10
Sodium	5000	150	105	<5000	28.5	<5000	34.9	<5000	-81	<5000
Thallium	10	1.5	-1.2	<10	1.6	<10	2.7	<10	2.2	<10
Tin	50	2.2								
Vanadium	50	.47	-0.77	<50	-1.2	<50	-0.84	<50	-0.73	<50
Zinc	20	.59	-0.68	<20	-1.3	<20	-1.3	<20	-1.3	<20

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR1023M5.ASC Date Analyzed: 10/23/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA3035 Units: ug/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Aluminum	40000	38500	96.3	40000	38600	96.5	40000	39100	97.8
Antimony	2000	2040	102.0	2000	2030	101.5	2000	2060	103.0
Arsenic	2000	1980	99.0	2000	1980	99.0	2000	1990	99.5
Barium	2000	1990	99.5	2000	1980	99.0	2000	1980	99.0
Beryllium	2000	2020	101.0	2000	2030	101.5	2000	2050	102.5
Cadmium	2000	2060	103.0	2000	2060	103.0	2000	2090	104.5
Calcium	40000	39800	99.5	40000	39400	98.5	40000	39500	98.8
Chromium	2000	1930	96.5	2000	1930	96.5	2000	1940	97.0
Cobalt	2000	1980	99.0	2000	1970	98.5	2000	1980	99.0
Copper	2000	2020	101.0	2000	2020	101.0	2000	2040	102.0
Iron	40000	40800	102.0	40000	40700	101.8	40000	40900	102.3
Lead	2000	2000	100.0	2000	2000	100.0	2000	2030	101.5
Magnesium	40000	39400	98.5	40000	39100	97.8	40000	39200	98.0
Manganese	2000	2070	103.5	2000	2060	103.0	2000	2070	103.5
Molybdenum									
Nickel	2000	2050	102.5	2000	2040	102.0	2000	2050	102.5
Potassium	40000	37900	94.8	40000	37900	94.8	40000	38600	96.5
Selenium	2000	2040	102.0	2000	2040	102.0	2000	2100	105.0
Silver	250	256	102.4	250	259	103.6	250	262	104.8
Sodium	40000	37500	93.8	40000	37300	93.3	40000	37900	94.8
Thallium	2000	1890	94.5	2000	1910	95.5	2000	1920	96.0
Tin									
Vanadium	2000	2040	102.0	2000	2030	101.5	2000	2040	102.0
Zinc	2000	2010	100.5	2000	2000	100.0	2000	2010	100.5

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR1023M5.ASC Date Analyzed: 10/23/02 Methods: SW846 6010B
QC Limits: 90 to 110 % Recovery Run ID: MA3035 Units: ug/l

Metal	CCV True	CCV Results	% Rec
Aluminum	40000	38600	96.5
Antimony	2000	2040	102.0
Arsenic	2000	2000	100.0
Barium	2000	1970	98.5
Beryllium	2000	2040	102.0
Cadmium	2000	2070	103.5
Calcium	40000	39400	98.5
Chromium	2000	1930	96.5
Cobalt	2000	1970	98.5
Copper	2000	2020	101.0
Iron	40000	40600	101.5
Lead	2000	2020	101.0
Magnesium	40000	39100	97.8
Manganese	2000	2060	103.0
Molybdenum			
Nickel	2000	2040	102.0
Potassium	40000	38300	95.8
Selenium	2000	2110	105.5
Silver	250	260	104.0
Sodium	40000	37800	94.5
Thallium	2000	1910	95.5
Tin			
Vanadium	2000	2030	101.5
Zinc	2000	2010	100.5

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR1023M5.ASC Date Analyzed: 10/23/02 Methods: SW846 6010B
QC Limits: 70 to 130 % Recovery Run ID: MA3035 Units: ug/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Aluminum	400		385	96.3
Antimony	10		7.8	78.0
Arsenic	20		21.5	107.5
Barium	400		412	103.0
Beryllium	10		9.4	94.0
Cadmium	10		9.3	93.0
Calcium	2000		2100	105.0
Chromium	20		20.0	100.0
Cobalt	100		99.9	99.9
Copper	50		51.6	103.2
Iron	600		674	112.3
Lead	10		10	100.0
Magnesium	10000		9870	98.7
Manganese	30		31.3	104.3
Molybdenum	100			
Nickel	80		88.1	110.1
Potassium	10000		9490	94.9
Selenium	10		8.7	87.0
Silver	20		19.5	97.5
Sodium	10000		8460	84.6
Thallium	20		17.0	85.0
Tin	100			
Vanadium	100		104	104.0
Zinc	40		43.8	109.5

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: IR1023M5.ASC Date Analyzed: 10/23/02 Methods: SW846 6010B
QC Limits: 80 to 120 % Recovery Run ID: MA3035 Units: ug/l

Metal	ICSA True	ICSAB True	ICSA Results	% Rec	ICSAB Results	% Rec
Aluminum	500000	500000	526000	105.2	511000	102.2
Antimony		1000	-0.060		1020	102.0
Arsenic		1000	-0.040		1020	102.0
Barium		500	1.3		527	105.4
Beryllium		500	-2.2		507	101.4
Cadmium		1000	-3.0		980	98.0
Calcium	500000	500000	482000H	96.4	466000H	93.2
Chromium		500	1.6		474	94.8
Cobalt		500	-0.11		474	94.8
Copper		500	-3.4		527	105.4
Iron	200000	200000	205000	102.5	198000	99.0
Lead		1000	2.9		980	98.0
Magnesium	500000	500000	551000	110.2	530000	106.0
Manganese		500	-1.4		500	100.0
Molybdenum		1000	-1.7		994	99.4
Nickel		1000	0.74		969	96.9
Potassium			635		302	
Selenium		1000	-5.9		997	99.7
Silver		1000	-0.94		1110H	111.0
Sodium			49.1		342	
Thallium		1000	-4.4		989	98.9
Tin		1000	-4.7		997	99.7
Vanadium		500	7.6		516	103.2
Zinc		1000	-4.4		933	93.3

(*) Outside of QC limits
(anr) Analyte not requested

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: H21030W2.PRN Date Analyzed: 10/30/02 Methods: SW846 7470A
Analyst: DM Run ID: MA3042
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:37	MA3042-ICV1	1		
14:39	MA3042-ICB1	1		
14:40	MA3042-CRI1	1		
14:42	MA3042-CCV1	1		
14:44	MA3042-CCB1	1		
14:45	MP4857-MB1	1		
14:47	MP4857-B1	1		
14:49	F15158-1	1		(sample used for QC only; not part of login F15100)
14:51	MP4857-D1	1		
14:53	MP4857-S1	1		
14:55	MP4857-S2	1		
14:58	ZZZZZZ	1		
15:01	MA3042-CCV2	1		
15:03	MA3042-CCB2	1		
15:04	ZZZZZZ	1		
15:07	ZZZZZZ	1		
15:09	ZZZZZZ	1		
15:10	ZZZZZZ	1		
15:13	ZZZZZZ	1		
15:15	ZZZZZZ	1		
15:17	MA3042-CCV3	1		
15:19	MA3042-CCB3	1		
15:21	F15100-1	1		
15:23	F15100-1A	1		
---------->	Last reportable sample/prep for job F15100			
15:24	MP4858-MB1	1		
15:26	MP4858-MB2	1		
15:28	MP4858-B1	1		
15:29	MP4858-B2	1		
15:32	F15125-1	1		(sample used for QC only; not part of login F15100)
15:34	MA3042-CCV4	1		
15:36	MA3042-CCB4	1		
---------->	Last reportable CCB for job F15100			
15:40	MA3042-CCV5	1		
15:42	MA3042-CCB5	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: H21030W2.PRN Date Analyzed: 10/30/02 Methods: SW846 7470A
Analyst: DM Run ID: MA3042
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:43	MP4858-D1	1		
15:45	MP4858-S1	1		
15:47	MA3042-CCV6	1		
15:48	MA3042-CCB6	1		

Refer to raw data for calibration curve and standards.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: H21030W2.PRN Date Analyzed: 10/30/02 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA3042 Units: ug/l

Metal	RL	IDL	ICB raw	final	CCB raw	final	CCB raw	final	CCB raw	final
Mercury	1.0	.022	-0.56	<1.0	-0.16	<1.0	-0.16	<1.0	-0.15	<1.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: H21030W2.PRN Date Analyzed: 10/30/02 Methods: SW846 7470A
QC Limits: result < RL Run ID: MA3042 Units: ug/l

Metal	RL	IDL	CCB raw	final
Mercury	1.0	.022		

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: H21030W2.PRN Date Analyzed: 10/30/02 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA3042 Units: ug/l

Metal	ICV True	ICV Results	% Rec	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Mercury	3.0	3.1	103.3	3.0	2.9	96.7	3.0	2.9	96.7

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: H21030W2.PRN Date Analyzed: 10/30/02 Methods: SW846 7470A
QC Limits: 80 to 120 % Recovery Run ID: MA3042 Units: ug/l

Metal	CCV True	CCV Results	% Rec	CCV True	CCV Results	% Rec
Mercury	3.0	2.8	93.3			

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

File ID: H21030W2.PRN Date Analyzed: 10/30/02 Methods: SW846 7470A
QC Limits: to % Recovery Run ID: MA3042 Units: ug/l

Metal	CRI True	CRIA True	CRI Results	% Rec
Mercury	0.20		0.22	110.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4837
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/22/02

Metal	RL	IDL	MB raw	final
Aluminum	200	6.6	-18	<200
Antimony	5.0	1.5	1.5	<5.0
Arsenic	10	2.8	-4.2	<10
Barium	200	.49	-1.3	<200
Beryllium	5.0	.26	-2.0	<5.0
Cadmium	5.0	.26	-1.6	<5.0
Calcium	1000	3.8	-17	<1000
Chromium	10	.43	-0.89	<10
Cobalt	50	.5	-1.1	<50
Copper	25	.44	0.85	<25
Iron	300	7.1	-17	<300
Lead	5.0	1.2	1.3	<5.0
Magnesium	5000	9.9	-17	<5000
Manganese	15	.16	-1.6	<15
Molybdenum	50	.75		
Nickel	40	1.1	-2.3	<40
Potassium	5000	14	638	<5000
Selenium	10	2	-2.1	<10
Silver	10	.55	-0.24	<10
Sodium	5000	150	29.1	<5000
Thallium	10	1.5	-4.8	<10
Tin	50	2.2		
Vanadium	50	.47	-1.7	<50
Zinc	20	.59	-0.83	<20

Associated samples MP4837: F15100-1, F15100-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4837
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:			10/22/02					10/22/02	
Metal	F15115-1 Original	DUP	RPD	QC Limits	F15115-1 Original	MS	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	0.0	0.0	NC	0-23	0.0	30900	29000	106.6	70-122
Antimony	0.0	0.0	NC	0-20	0.0	1050	1000	105.0	66-120
Arsenic	0.0	0.0	NC	0-29	0.0	4040	4000	101.0	75-120
Barium	22.5	21.4	5.0	0-20	22.5	4080	4000	101.4	72-120
Beryllium	0.0	0.0	NC	0-25	0.0	105	100	105.0	73-120
Cadmium	0.0	0.0	NC	0-20	0.0	103	100	103.0	72-120
Calcium	89100	86500	3.0	0-20	89100	112000	25000	91.6	37-150
Chromium	0.0	0.0	NC	0-47	0.0	400	400	100.0	69-122
Cobalt	1.3	0.97	29.1	0-30	1.3	1000	1000	99.9	69-120
Copper	11.6	11.7	0.9	0-21	11.6	544	500	106.5	70-120
Iron	266	231	14.1	0-23	266	29200	27000	107.2	72-122
Lead	2.9	0.0	200.0(a)	0-44	2.9	1040	1000	103.7	70-126
Magnesium	8200	7960	3.0	0-20	8200	33300	25000	100.4	73-127
Manganese	47.3	45.7	3.4	0-30	47.3	1100	1000	105.3	74-122
Molybdenum									
Nickel	1.3	2.6	66.7 (a)	0-56	1.3	1050	1000	104.9	69-120
Potassium	8800	8550	2.9	0-20	8800	36400	25000	110.4	61-122
Selenium	0.0	0.0	NC	0-36	0.0	4240	4000	106.0	74-120
Silver	0.0	0.0	NC	0-20	0.0	108	100	108.0	52-126
Sodium	61400	60100	2.1	0-20	61400	89800	25000	113.6	56-130
Thallium	0.0	0.0	NC	0-26	0.0	4230	4000	105.8	80-122
Tin									
Vanadium	0.0	0.0	NC	0-28	0.0	1050	1000	105.0	75-122
Zinc	55.5	53.5	3.7	0-54	55.5	1070	1000	101.5	68-123

Associated samples MP4837: F15100-1, F15100-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4837
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/22/02

Metal	F15115-1 Original	MSD	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	0.0	30700	29000	105.9	70-122
Antimony	0.0	1050	1000	105.0	66-120
Arsenic	0.0	4020	4000	100.5	75-120
Barium	22.5	4060	4000	100.9	72-120
Beryllium	0.0	104	100	104.0	73-120
Cadmium	0.0	102	100	102.0	72-120
Calcium	89100	113000	25000	95.6	37-150
Chromium	0.0	398	400	99.5	69-122
Cobalt	1.3	994	1000	99.3	69-120
Copper	11.6	542	500	106.1	70-120
Iron	266	28800	27000	105.7	72-122
Lead	2.9	1030	1000	102.7	70-126
Magnesium	8200	33300	25000	100.4	73-127
Manganese	47.3	1100	1000	105.3	74-122
Molybdenum					
Nickel	1.3	1040	1000	103.9	69-120
Potassium	8800	36900	25000	112.4	61-122
Selenium	0.0	4200	4000	105.0	74-120
Silver	0.0	108	100	108.0	52-126
Sodium	61400	91500	25000	120.4	56-130
Thallium	0.0	4200	4000	105.0	80-122
Tin					
Vanadium	0.0	1040	1000	104.0	75-122
Zinc	55.5	1060	1000	100.5	68-123

Associated samples MP4837: F15100-1, F15100-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4837
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/22/02

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	30700	29000	105.9	80-120
Antimony	1030	1000	103.0	80-120
Arsenic	3900	4000	97.5	80-120
Barium	4000	4000	100.0	80-120
Beryllium	104	100	104.0	80-120
Cadmium	102	100	102.0	80-120
Calcium	26900	25000	107.6	80-120
Chromium	396	400	99.0	80-120
Cobalt	990	1000	99.0	80-120
Copper	517	500	103.4	80-120
Iron	29900	27000	110.7	80-120
Lead	1020	1000	102.0	80-120
Magnesium	25900	25000	103.6	80-120
Manganese	1050	1000	105.0	80-120
Molybdenum				
Nickel	1040	1000	104.0	80-120
Potassium	26100	25000	104.4	80-120
Selenium	4050	4000	101.3	80-120
Silver	105	100	105.0	80-120
Sodium	24700	25000	98.8	80-120
Thallium	4150	4000	103.8	80-120
Tin				
Vanadium	1030	1000	103.0	80-120
Zinc	1020	1000	102.0	80-120

Associated samples MP4837: F15100-1, F15100-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4837
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 10/22/02

Metal	F15115-1 Original	SDL 1:5	RPD	QC Limits
Aluminum	0.00	0.00	NC	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	22.5	18.2	19.5 (a)	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	89100	93800	5.3	0-10
Chromium	0.00	0.00	NC	0-10
Cobalt	1.25	0.00	100.0(a)	0-10
Copper	11.6	10.3	11.8 (a)	0-10
Iron	266	116	56.5 (a)	0-10
Lead	2.86	0.00	100.0(a)	0-10
Magnesium	8200	8390	2.2	0-10
Manganese	47.3	43.7	7.5	0-10
Molybdenum				
Nickel	1.27	0.00	100.0(a)	0-10
Potassium	8800	10200	16.0*(b)	0-10
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium	61400	54600	10.0	0-10
Thallium	0.00	0.00	NC	0-10
Tin				
Vanadium	0.00	0.00	NC	0-10
Zinc	55.5	53.9	2.8	0-10

Associated samples MP4837: F15100-1, F15100-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4857
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 10/29/02

Metal	RL	IDL	MB raw	final
Mercury	1.0	.022	-0.15	<1.0

Associated samples MP4857: F15100-1, F15100-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4857
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date:			10/29/02					10/29/02	
Metal	F15158-1 Original	DUP	RPD	QC Limits	F15158-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.30	0.31	3.3	0-20	0.30	2.9	3	86.7	62-131

Associated samples MP4857: F15100-1, F15100-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4857
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 10/29/02

Metal	F15158-1 Original	MSD	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.30	2.9	3	86.7	62-131

Associated samples MP4857: F15100-1, F15100-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F15100
Account: ITTNKNOX - Shaw E & I, Inc.
Project: PBOW

QC Batch ID: MP4857
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 10/29/02

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	2.7	3	90.0	80-120

Associated samples MP4857: F15100-1, F15100-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

FIS100

ANALYSIS REQUEST AND CHAIN-OF-CUSTODY RECORD

REFERENCE COC NO.: PB10 17 02ACC

PAGE 1 OF 1

Project Name/No: PBOW
Sample Team Member: Dave Kessler
Profit Center: Knoxville
Project Manager: Steve Downey
Project No.: 833886.03010000
Required Report Date: 21 days

Sample Shipment Date: 10/17/02
Laboratory Destination: Accutest
Laboratory Contact: Sue Bell
Project Contact/Phone: Maureen McMyler/865-560-5271
Carrier Waybill No.: 836531447542

Bill To: Accounting
Shaw E & I
312 Directors Drive
Knoxville, TN 37923

Report To: Maureen McMyler
Shaw E & I
312 Directors Drive
Knoxville, TN 37923

Sample Number	Sample Type/ Description	Date/Time Collected	Container Type	Sample Volume	Pre-servative	Requested Testing Program	Condition on Receipt	Disposal Record
CD3007	WATER	10/17/02 1035	1 - Amber	1 L	Cool	Explosives by 8830		
CD3007	WATER	10/17/02 1035	1 - HDPE	250 ~~500~~ mL	HNO3	Total Metals by 6010B/7470A		
CD3007	WATER	10/17/02 1035	1 - HDPE	250 ~~500~~ mL	HNO3	Dissolved Metals by 6010B/7470A		
CD3007	WATER	10/17/02 1035	2 - Amber	1 L	Cool	SVOCs by 8270C		
CD3007	WATER	10/17/02 1035	3 - Glass	40 mL	Cool	VOCs by 8260B		
CD5005	WATER	10/17/02	2 - Glass	40 mL	Cool	VOCs by 8260B		

DKK 10/17/02

Special Instructions:

Possible Hazard Identification:
Non-haz: ____ Flammable: ____ Poison B: ____ Unknown: X

Sample Disposal:
Return to Client: ____ Disposal by Lab: X Archive: ____

Turnaround Time:
Normal: X Rush: ____

Level of QC Required:
Definitive: X Project Specific: ____

1. Relinquished by: David Kessler IT Corporation	Date: 10/17/02 Time: 1800	1. Received by:	Date: 10/18/02 Time: 0900
2. Relinquished by:	Date: Time:	2. Received by:	Date: Time:
3. Relinquished by:	Date: Time:	2. Received by:	Date: Time:

Comments:

3.0°